Insights from Disaggregating the Human Capital INDEX
Insights from Disaggregating the Human Capital INDEX
This booklet was prepared by Ciro Avitabile, Ritika D’Souza, Roberta Gatti, and Emily Weedon under the strategic direction of Annette Dixon (Vice President, Human Development Practice Group) and with inputs from Nicola Dehnen, Alexander Leipziger, and Juan Elias Mejalenko. Section 2 of this report builds on D’Souza, Gatti, and Kraay (2019) and Section 3 synthesizes the country geographical disaggregation exercises led by the World Bank teams in Angola, Chad, Burkina Faso, Indonesia, Mali, Niger, Peru, Romania, Sierra Leone, Sri Lanka, and Vietnam. The Socioeconomic Human Capital Index country profiles were produced by Zelalem Debebe and Martin De Simone. We are particularly grateful for analytical inputs provided by Harsha Aturupane, Reena Badiani-Magnusson, Kathleen Beegle, Livia Benavides, Carmen Carpio, Mohamed Coulibaly, Gabriel Demombynes, Emily Gardner, Antonio Giuffrida, Daniel Halim, Hideki Higashi, Veronica Hinostroza, Camilla Holmemo, Keiko Inoue, Leonardo Lucchetti, Kevin Macdonald, Emma Monsalve Montiel, Obert Pimhidzai, Sharon Piza, Manal Quota, Aly Sanoh, Jigyasa Sharma, Changqing Sun, and Sailesh Tiwari. We thank Kavita Watsa for her valuable feedback and Aart Kraay, Deon Filmer, and Halsey Rogers for useful comments.
Contents

Acknowledgements ............................................................................................................................................... ii

1. DISAGGREGATING THE HUMAN CAPITAL INDEX FOR POLICY INSIGHTS ........................................... 2

2. SOCIOECONOMIC DISAGGREGATION ...................................................................................................... 8
   Understanding socioeconomic gaps in human capital .................................................................................. 11
   Human capital outcomes and income within and across countries ............................................................ 18

3. SPATIAL DISAGGREGATION .................................................................................................................... 20
   Subnational inequality is substantial ............................................................................................................ 21
   What dimensions of human capital drive these inequalities? ..................................................................... 24
   Looking within the HCI ............................................................................................................................... 26
   How are these findings informing action? ...................................................................................................... 26

4. REALIZING CHANGE: A WHOLE-OF-GOVERNMENT APPROACH ....................................................... 28
   Staying the course: Long-term commitment to equity ................................................................................. 29
   Working together: Coordination across and beyond government ............................................................... 30
   Using evidence: Setting reforms and allocating resources based on data ............................................... 32
   What Next? An ongoing commitment .......................................................................................................... 33

5. USING DATA TO DESIGN RESPONSIVE POLICIES ............................................................................ 36

References ....................................................................................................................................................... 40
Appendix 1: Differences between the SES-HCI and HCI .......................................................................... 46
Appendix 2: Data Sources for the SES-HCI ................................................................................................. 49
Appendix 3: Data Sources for the GEO-HCI ............................................................................................... 52
Appendix 4: SES-HCI Country Profiles ....................................................................................................... 54
   Albania ........................................................................................................................................................ 55
   Armenia ...................................................................................................................................................... 56
   Azerbaijan .................................................................................................................................................. 57
   Benin .......................................................................................................................................................... 58
   Burkina Faso .............................................................................................................................................. 59
<table>
<thead>
<tr>
<th>Country</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burundi</td>
<td>60</td>
</tr>
<tr>
<td>Cameroon</td>
<td>61</td>
</tr>
<tr>
<td>Chad</td>
<td>62</td>
</tr>
<tr>
<td>Colombia</td>
<td>63</td>
</tr>
<tr>
<td>Comoros</td>
<td>64</td>
</tr>
<tr>
<td>The Democratic Republic of Congo</td>
<td>65</td>
</tr>
<tr>
<td>The Republic of Congo</td>
<td>66</td>
</tr>
<tr>
<td>Côte d'Ivoire</td>
<td>67</td>
</tr>
<tr>
<td>Dominican Republic</td>
<td>68</td>
</tr>
<tr>
<td>The Arabic Republic of Egypt</td>
<td>69</td>
</tr>
<tr>
<td>El Salvador</td>
<td>70</td>
</tr>
<tr>
<td>Eswatini</td>
<td>71</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>72</td>
</tr>
<tr>
<td>Gabon</td>
<td>73</td>
</tr>
<tr>
<td>The Gambia</td>
<td>74</td>
</tr>
<tr>
<td>Ghana</td>
<td>75</td>
</tr>
<tr>
<td>Guatemala</td>
<td>76</td>
</tr>
<tr>
<td>Haiti</td>
<td>77</td>
</tr>
<tr>
<td>Honduras</td>
<td>78</td>
</tr>
<tr>
<td>India</td>
<td>79</td>
</tr>
<tr>
<td>Jordan</td>
<td>80</td>
</tr>
<tr>
<td>Kazakhstan</td>
<td>81</td>
</tr>
<tr>
<td>Kenya</td>
<td>82</td>
</tr>
<tr>
<td>Kyrgyz Republic</td>
<td>83</td>
</tr>
<tr>
<td>Lesotho</td>
<td>84</td>
</tr>
<tr>
<td>Madagascar</td>
<td>85</td>
</tr>
<tr>
<td>Malawi</td>
<td>86</td>
</tr>
<tr>
<td>Mali</td>
<td>87</td>
</tr>
<tr>
<td>Moldova</td>
<td>88</td>
</tr>
<tr>
<td>Mozambique</td>
<td>89</td>
</tr>
<tr>
<td>Myanmar</td>
<td>90</td>
</tr>
<tr>
<td>Namibia</td>
<td>91</td>
</tr>
<tr>
<td>Niger</td>
<td>92</td>
</tr>
<tr>
<td>Paraguay</td>
<td>93</td>
</tr>
<tr>
<td>Peru</td>
<td>94</td>
</tr>
<tr>
<td>Senegal</td>
<td>95</td>
</tr>
<tr>
<td>Tajikistan</td>
<td>96</td>
</tr>
<tr>
<td>Tanzania</td>
<td>97</td>
</tr>
<tr>
<td>Togo</td>
<td>98</td>
</tr>
<tr>
<td>Turkey</td>
<td>99</td>
</tr>
<tr>
<td>Uganda</td>
<td>100</td>
</tr>
<tr>
<td>Vietnam</td>
<td>101</td>
</tr>
<tr>
<td>West Bank and Gaza</td>
<td>102</td>
</tr>
<tr>
<td>Zambia</td>
<td>103</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>104</td>
</tr>
</tbody>
</table>
Disaggregating the Human Capital Index for Policy Insights
At the 2018 Annual Meetings, the World Bank Group launched the Human Capital Project (HCP), an unprecedented global effort to support countries’ human capital development as a core element of their overall strategies for increased productivity and growth. The main objective of the HCP is rapid progress toward a world in which all children can achieve their full potential. For that to happen, children need to reach school well-nourished and ready to learn, attain real learning in the classroom, and enter the job market as healthy, skilled, and productive adults.

Central to this effort has been the Human Capital Index (HCI), a cross-country metric measuring the human capital that a child born today can expect to attain by her 18th birthday, given the risks of poor health and poor education prevailing in her country.\(^1\) The HCI brings together measures of different dimensions of human capital: health (child survival, stunting, and adult survival rates) and quantity and quality of schooling (expected years of school and international test scores). Using estimates of the economic returns to education and health, the components are combined into an index that captures the expected productivity of a child born today as a future worker, relative to a benchmark of complete education and full health. By benchmarking shortfalls in future worker productivity due to gaps in human capital across countries, the HCI has underscored the urgency of improving human capital outcomes. This is particularly pressing in the context of the rapidly changing nature of work, which is associated with an increasing demand for higher-order skills.\(^2\)

The global HCI is calculated for 157 countries, using national averages of its component data. While the cross-country comparison of human capital outcomes is important, national averages mask significant differences along dimensions such as gender, ethnicity, socioeconomic status, and geographic location, which are likely associated with gaps in productivity.

In this report, we quantify some of these human capital inequalities, with a special focus on socioeconomic and subnational spatial differences. The socioeconomic analysis covers 50 low- and middle-income countries where the data permit comparable disaggregation. The spatial analysis covers 11 low- and middle-income countries where the global HCI release sparked demand for analysis at the subnational level. As a result, rather than describing comprehensive trends, this booklet highlights the potential of detailed disaggregation for the design of well-targeted policies.

Disaggregation of the HCI complements poverty and other metrics to inform evidence-based reforms.

---

1. The HCI was introduced in World Bank (2018a,b), and the methodology of the HCI is detailed in Kraay (2019).
Insights from Disaggregating the Human Capital Index

The association between a family’s socioeconomic status and investments in children is well-documented, especially for high- and middle-income countries. This literature indicates that skills formed early in life matter significantly and explain a substantial part of lifetime inequalities. For example, evidence shows that half of the inequality in lifetime earnings in the United States is established by age 18. In a process where skills beget skills, closing human capital differences early in life is one of the most cost-effective strategies to reduce income gaps.

Disaggregating the HCI by different socioeconomic levels can help countries quantify these early inequalities and identify policy priorities for the most disadvantaged. The disaggregation of the HCI components can also provide useful insights, since the benefits and costs of different types of human capital investments vary by socioeconomic status. For instance, in contexts where differences in malnutrition between the rich and the poor are limited, while differences in learning outcomes are large, early childhood interventions might prioritize cognitive and socioemotional stimulation over nutrition.

Job polarization is also linked to inequality, contributing to the widening earnings gap between high- and low-skilled individuals. Urbanization has possibly exacerbated this inequality. Highly skilled workers tend to concentrate in densely populated urban areas. Young and educated women and men prefer to be surrounded by peers with similar characteristics and many firms, especially the most innovative ones, locate where young and skilled workers are. This sorting process fuels further economic divergences between urban communities, with high levels of human capital and vibrant labor markets, and rural areas with low levels of human capital and stagnant economies.

Low-skilled individuals who grow up in rural areas have limited opportunities to improve their prospects, even when they decide to migrate. Again, the evidence shows that investing early has the greatest results. Children born in disadvantaged households can reduce the gap with more affluent children, both in terms of future education and labor market outcomes, when they move to areas with high quality schools and health facilities.

In the United States, it is estimated that moving early in life to a high-opportunity area reduces the persistence of income across generations by 25 percent.

Improving the quality of human capital in disadvantaged regions can have potentially long-lasting effects. Yet, identifying areas where the returns to human capital investment are higher is not always simple, since measures of current monetary poverty might not fully signal these returns. Disaggregating the HCI spatially can help governments prioritize social sector spending, complementing not only poverty maps but also spending data and measures of quality of services, such as those collected by the Service Delivery Indicators (SDI) initiative. It might also improve the efficiency of other types of government spending. For instance, regions where levels of human capital are low might not be the most suitable to receive incentives for research and development, as people in these regions are not properly prepared to maximize the potential of these opportunities.

---

9. See https://www.sdindicators.org/
BOX 1.1 The Human Capital Index (HCI)

The Human Capital Index (HCI) measures the amount of human capital that a child born today can expect to attain by age 18, given the risks of poor health and poor education that prevail in the country where she lives. The HCI consists of three components:

- **Component 1: Child Survival.** This component reflects the fact that not all children born today will survive until age 5, when the process of human capital accumulation through formal education begins.

- **Component 2: Expected Learning-Adjusted Years of School.** This component combines information on the quantity and quality of education. The quantity of education is measured as the expected number of years of school that a child can expect to obtain by age 18. The quality of education draws on work at the World Bank to harmonize test scores from major international student achievement testing programs into a common yardstick of learning.

- **Component 3: Health.** Two proxies for the overall health environment are used to inform this component: (i) adult survival rates, defined as the fraction of 15-year-olds that survive until age 60 and (ii) the rate of stunting for children under age 5. Adult survival rates can also be interpreted as a proxy for the range of non-fatal health outcomes that a child born today would experience as an adult. Children are defined as stunted if their height-for-age is more than two standard deviations below the World Health Organization Child Growth Standards median. Stunting is broadly accepted as a proxy for the prenatal, infant, and early childhood health environment.

The HCI formulation has its theoretical underpinnings in the development accounting literature. Specifically, it uses micro-econometric estimates of the returns to education and health to measure these components’ contributions to the productivity of a child born today as a future worker.

The index ranges between 0 and 1, where the index takes the value 1 only if the average worker in the country will achieve both full health (defined as the absence of stunting and an adult survival rate of 100 percent) and full education potential (14 years of high-quality school by age 18). Therefore, if a country scores 0.70 in the HCI, it indicates that the productivity of the average worker is 30 percent below what she could have achieved with complete education and full health.

Thanks to its structure, the index can be directly linked to scenarios for future income. If a country has a score of 0.50, then GDP per worker could be twice as high if the country reached the benchmark of complete education and full health. This is because human capital leads workers to become more productive and earn more, and in turn save more, providing the economy with more physical capital.

The global HCI reports country averages as well as their scores disaggregated by gender. This booklet presents analytical work to further disaggregate the index by socioeconomic groups and at the subnational level for selected countries where the required data are available.

*Source: World Bank (2108a,b); Kraay (2019).*
BOX 1.2 Unlocking the Potential of Human Capital investments Through Gender Equality

Achieving gender equality is essential for countries to realize their economic and social potential and meet the challenges of the changing nature of work.

Losses from gender inequality due to differences in lifetime labor earnings are large. Human capital provides opportunities and underpins economic empowerment; gender equity is a prerequisite to this. However, countries also need to galvanize in removing barriers for women and girls to utilize their human capital to fully capture the productivity gains.

Much progress has been made in closing gender gaps at the global and regional level, but some challenges remain. Sex disaggregation—available for 126 out of the 157 countries in the global HCI—shows that scores are slightly higher among girls than boys in most countries with available data. Indeed, an emerging trend shows that girls are not merely catching up to but outperforming boys in expected years of school and learning outcomes in some regions. In Tunisia, girls are expected to complete one additional year of schooling as compared to boys. In Saudi Arabia, the average learning outcomes for girls is 57 points higher than for boys.

Yet, in 40 percent of low-income countries with sex-disaggregated data, boys outperform girls in expected years of school. Within countries, disaggregation of outcomes shows further nuance. In Romania, girls have higher expected years of school in 35 of 41 counties and the average advantage for girls is considerably larger than the average advantage for boys. Conversely, in Angola, scores for girls and students in rural areas are lower on average in almost all provinces.

Even when the HCI shows that girls do as well or slightly better than boys, girls continue to face unique challenges in accumulating human capital that are not captured in the HCI, such as child marriage, early childbearing, and gender-based violence—not only in general but also in school specifically. Often, these are exacerbated by additional challenges within their own countries. In Vietnam, for example, roughly three times as many adolescent girls in ethnic minorities are married compared to the national average and almost five times as many have children before 19 years as the Kinh ethnic majority.

These observations come with two important caveats. First, we can only observe gender gaps when we have the data. One in five countries in the 2018 global HCI ranking are missing sex-disaggregated HCI data, driven by gaps in data for expected years of school and learning outcomes. Second, while gender gaps in human capital are closing in terms of the flow (youths), gaps are quite wide in the stock (adults). Globally, males born between 1961 and 1970 were on average 9.4 percentage points more likely to be literate than females. This gap drops to 3.1 percentage points among cohorts born between 1991 and 2000.

Despite improvement in the human capital of girls, women continue to face unique barriers in converting their human capital into economic opportunities. Adult female labor force participation worldwide is 27 percentage points lower than men. Globally, only one in five firms have female top managers. Women are paid less, more likely to work in the informal sector, and less likely to move up the career ladder.

Turning human capital investments into economic potential means addressing the barriers to women’s economic empowerment such as occupational sex-segregation, disadvantageous social norms on household and market roles, lack of childcare, inadequate parental leave policies, sexual harassment and unsafe transportation, differential constraints in access to finance and markets, and legal and regulatory barriers to work and to start and grow firms.

2 Socioeconomic Disaggregation
A large body of evidence, especially from high- and middle-income countries, shows that children from poor families have worse human capital outcomes compared to those from rich families.14

Several factors, which often reinforce one another, can contribute to these rich-poor gaps in human capital. The lack of monetary resources, combined with the reduced ability to borrow, prevents the poor from accessing health and education services.15 In the absence of insurance, external shocks, such as those caused by weather, may force children from poor households to drop out of school or adversely impact their learning outcomes. Evidence from Uganda shows that girls are likely to be the most affected.16 Households may lack information about the returns to human capital or face significant opportunity costs in acquiring human capital.17 And social norms about women’s roles, which can be harder for the poor to challenge, shape many critical decisions related to human capital such as fertility, breastfeeding, or schooling.18

These early inequalities in human capital are amplified over the life cycle and investments to remediate them become costlier the older children get. Moreover, their effects are often inherited by subsequent generations.19 Even in well-off and progressive Sweden, one additional year of education of the great-grand parent is associated with 0.15 years more of education of the child.20

The size of the human capital gap between rich and poor households varies considerably across countries, and underlying drivers can also differ depending on the context. In many upper-middle-income countries, children from different socioeconomic groups display differences in cognitive abilities but not in their nutritional outcomes. This is not the case in low-income countries where socioeconomic differences are often dramatic for both health and education outcomes.21

Governments have a vital role to play in building human capital—financing and delivering, or regulating private delivery of social services while ensuring equitable access to opportunities. A socioeconomic disaggregation of the HCI can shed light on inequalities within countries and allow policymakers to better formulate and target interventions to the most disadvantaged.

While the global HCI cannot readily be disaggregated by socioeconomic groups, comparable data from Demographic and Health Surveys (DHS) and Multiple Indicator Cluster Surveys (MICS) allow the measurement of child survival, school enrollment, and stunting rates at the individual

---

14 This section is largely based on D’Souza, Gatti and Kraay (2019).
18. La Ferrara et al. (2012); Jayachandran and Kuziemko (2011); Kahn and Ginther (2017).
and household levels, as well as by socioeconomic quintile. The harmonized student test scores underlying the global HCI can also be organized by socioeconomic quintile.\textsuperscript{22} Using the HCI methodology to translate these data into their contribution to productivity, a socioeconomically disaggregated HCI (SES-HCI) can be constructed for a set of 50 mostly low- and middle-income countries,\textsuperscript{23} just under one-third of the 157 covered by the global HCI.

\section*{BOX 2.1 Constructing a Socioeconomically Disaggregated HCI (SES-HCI)}

The SES-HCI sheds light on inequalities in human capital accumulation across socioeconomic groups. It is computed using the same methodology as the global HCI, described in Kraay (2019), but relies on different data sources to allow for a disaggregation by socioeconomic status (SES). Mortality and stunting rates among children under age 5 and school enrollment rates for ages 6 to 17 come from nationally-representative DHS and MICS. These are drawn from two existing compilations of SES-disaggregated DHS/MICS data—the Health Equity and Financial Protection Indicators (HEFPI) database, described in Wagstaff, Eozenou, Neelsen and Smitz (2019), and the household wealth and educational attainment dataset, first described in Filmer and Pritchett (1998). SES-disaggregated harmonized test scores are obtained from Abdul-Hamid and Iqbal (2019), who in turn draw on the same database of student-level harmonized test scores used in the 2018 HCI, as described in Patrinos and Angrist (2018).

The DHS and MICS contain information on household characteristics and asset ownership that can be used to create a wealth index. Similarly, Abdul-Hamid and Iqbal (2019) develop proxies for the SES of the households in which each student resides, based on data collected by the testing program on students’ home possessions, as well as parental education and occupation. In the DHS/MICS context, these indexes are usually referred to as “wealth” or “asset” indexes. International testing program databases construct conceptually similar indexes but use terms such as “economic, social, and cultural status”. For terminological convenience, all these measures are referred to here as SES indexes.

To create the sample of countries for the SES-HCI, data from DHS/MICS surveys are aligned with test score data to account for the fact that students’ positions in the SES distribution on the test score data covers only the households of children who are attending school (since the HLOs use school-based tests), while the DHS/MICS data covers all households, including those whose children do not attend school. Consider for example a country where the test scores are taken from Programme for International Student Assessment (PISA), which is administered to 15-year-olds. Enrollment rates for 15-year-olds by SES quintile in DHS/MICS are used to calculate the fraction of students attending school associated with each SES quintile in the DHS/MICS. For example, if students in the bottom SES quintile are more likely to drop out of school, then students in the bottom quintile might, for example, represent only

\textsuperscript{22} Data sources for the SES-HCI are detailed in Appendix 2.

\textsuperscript{23} The SES-HCI has a more limited country coverage than the global HCI (50 vs 157 countries) because it requires a DHS/MICS survey to be available, as well as student-level data on harmonized learning outcomes taken from a test carried out reasonably close in time to the DHS/MICS.
15 percent of test takers even though they account for 20 percent of households. In this case, the average HLO score for the poorest 15 percent of test takers (according to the SES-HCI in the test score data) is assigned to the households in the poorest quintile in the DHS/MICS. A similar approach is applied for each quintile to arrive at average HLO scores for each DHS/MICS quintile. This process creates a single cross-section of 50 countries, using the most recently-available DHS/MICS and testing data available.

Although the SES-HCI uses the same methodology as the global HCI, it differs in several key respects. First, the SES-HCI uses household survey-based measures of school attendance, which can differ considerably from the administrative data used in the global index. Second, due to data limitations, the SES-HCI measures expected years of school between ages 6 and 17, while the global HCI relies on administrative data covering the 4 to 17 age range. Third, since household survey data do not provide estimates of adult mortality, the health component of the SES-HCI is based only on stunting rates, unlike the global HCI which uses stunting rates and adult survival rates. Taken together, these differences imply that the SES-HCI data at the quintile level, and averaged to the national level, are not fully comparable or consistent with the global HCI, and countries’ scores and relative positions can differ between the SES-HCI and the global index. However, the SES-HCI can still prove informative about gaps in human capital outcomes across quintiles. Appendix 1 provides a more detailed description of these differences.


UNDERSTANDING SOCIOECONOMIC GAPS IN HUMAN CAPITAL

The SES-HCI varies considerably, ranging between 0.3 to 0.4 in the lowest-performing countries, such as Chad, Mali, and Niger, to around 0.7 in the best-performing countries, such as Vietnam and Armenia.

Across countries, as with the global HCI, the SES-HCI increases with per capita income. And within countries, rich households have better outcomes than poor ones. These rich-poor gaps are apparent across the whole income spectrum. For example, in Madagascar, the SES-HCI ranges from 0.40 in the poorest quintile to 0.58 in the richest quintile, while in much richer Vietnam the gap ranges from 0.58 to 0.85. In the latter, the within-country difference between the top and bottom quintile is roughly half the size of the cross-country difference between the highest and lowest country-average SES-HCI values. These gaps are illustrated in Figure 2.1, where quintiles of the SES-HCI are plotted for each country relative to per capita GDP and against the background of the global HCI (light grey dots).

Socioeconomic gaps in human capital outcomes within countries are large and account for nearly one third of the total variation in the SES-HCI.

The differences in human capital between rich and poor people contribute substantially to overall differences in human capital around the world. Nearly one-third of the total variation in human capital consists of within-country differences across socioeconomic quintiles. Differences in child survival and test scores across quintiles within countries account for a relatively small
share of the overall variation in these outcomes: 21 percent and 23 percent, respectively. Instead, within-country rich-poor gaps in expected years of school and stunting account for a considerably larger share of the overall variation in these outcomes, at 31 percent and 33 percent, respectively.

As countries get richer, the rich-poor gap in the SES-HCI decreases, albeit slightly. This is captured in Figure 2.1 by the length of the vertical bars and in Figure 2.2, which plots the difference in outcomes between the top and bottom socioeconomic quintiles against per capita GDP.

The rich-poor gap decreases as countries get richer in all but one component of the SES-HCI: learning outcomes. For child survival, the cross-country convergence in rich-poor gaps reflects the benefits of improved access to healthcare for pregnant women, newborns, and young children as well as better nutrition and sanitation. This is partly attributable to the increased coverage of several key interventions over the last two decades that particularly benefitted children from the most disadvantaged backgrounds, including antenatal care visits with skilled health personnel, facility-based labor and childbirth care, vitamin A supplementation, immunization, and safe drinking water.24

Despite these gains, poor countries and poor households continue to bear a disproportionate burden of child mortality. For example, a child from the poorest households in Burundi has an 84 percent chance of surviving to age 5, compared to

24. Chao et al. (2018); Liu et al. (2016).
FIGURE 2.2 Rich-Poor Gaps in Human Capital Across Countries


Notes: This graph plots gaps in human capital outcomes between the top and bottom quintiles (on the vertical axis) against log GDP per capita (on the horizontal axis), for the most recent cross-section of 50 countries in the SES-HCI dataset. The Q5-Q1 gaps are defined as (a) the difference between the top and bottom quintiles (for expected years of school, harmonized test scores, quality-adjusted years of school, and the not-stunted rate), and (b) the log-difference between the top and bottom quintiles for child survival, and for the overall HCI.
92 percent in the most affluent families. In contrast, in Armenia, children from both poor and rich families can hope to reach age 5 with near certainty. This is in tandem with a global trend where coverage of key interventions among the richest far exceeds that among the poor. Infectious diseases, like pneumonia and diarrhea, affect children from poor households more compared to their rich counterparts as they continue to lack access to effective treatments, appropriate nutrition, safe water, and sanitation facilities. Likewise, the burden of newborn deaths, a key contributor to poor child survival, is disproportionately high amongst the poor. Moreover, the poor in poorer countries continue to fare worse than the poor in richer countries.

**In countries with the largest socioeconomic gaps, young children from the poorest families still face a significant risk of not making it to their 5th birthday.**

Nevertheless, countries such as Malawi, Tanzania, and Uganda have succeeded in improving child survival significantly, while narrowing the differences between the rich and the poor. These models of success indicate that supporting improved coverage and quality of key reproductive, maternal, newborn, and child health interventions, with a focused attention to the socioeconomically disadvantaged groups, is critical in addressing these disparities.²⁵

The benefits brought about by higher income are also evident in other markers of child well-being. Globally, stunting rates decline with increasing per capita income and stunting prevalence fell from 40 percent to 22 percent between 1990 and 2017.²⁶ However, this progress materialized in an uneven way across and within countries. Consider Madagascar and Guatemala. Notwithstanding a significant difference in per capita income, both countries have among the highest stunting rates in the world, with nearly half of all children stunted. In Madagascar, stunting is uniformly high across all socioeconomic groups, while in Guatemala, a child from the bottom socioeconomic group is more than three times as likely to be stunted than a child in the top quintile.

**Unlike other HCI components, stunting does not necessarily decrease among wealthier households**

Moreover, in many countries, stunting does not decrease in lock step with income.²⁷ Figure 2.3 reports the fraction of children not stunted for a selection of countries where the gap between the poorest households (the 1st quintile) and the 4th quintile is smaller than the gap between the 4th quintile and the richest households (the 5th quintile). This likely reflects the complexity of the basic and underlying determinants of undernutrition, including environmental, economic, and cultural factors. The need to respond with multi-sectoral programs that simultaneously address these multiple drivers has been recognized internationally.²⁸

Over the last 50 years, schooling has expanded dramatically in most low- and middle-income countries. In some countries, this expansion has been at historically unprecedented rates, both in primary and secondary education.²⁹ Unfortunately, children from marginalized groups continue to face significant barriers in accessing and completing primary education and in transitioning to

---

²⁶. Galasso and Wagstaff (2017); de Onis and Branca (2016) for 1990 data; World Bank (2019a) for 2017 data.
²⁷. de Onis and Branca (2016).
²⁹. World Bank (2018c).
higher grades, all of which translates to a persistent association between schooling and socioeconomic status.

Figure 2.4, which is drawn from the World Bank education and attainment database, depicts these patterns and their heterogeneity clearly.\(^3\)\(\)\(^0\)\(^a\) It details grade survival trajectories by socioeconomic quintiles (here captured by an estimate of wealth\(^3\)\(^1\)) across a selection of countries. The Y-axis shows the proportion of the population aged 10 to 19 that has succeeded (i.e. “survived”) to each grade (grades 1 to 9).\(^3\)\(^2\) There are striking differences in the grade survival patterns across and within countries comparing children from the richest 20 percent (represented by the red continuous line in the graphs) to those from the poorest 20 percent (represented by the blue continuous line).

---

\(^{30}\) See http://iresearch.worldbank.org/edattain/.

\(^{31}\) Wealth status is captured by a proxy based on the assets owned by members of the household.

\(^{32}\) To accommodate for the fact that the full school trajectory until grade 9 is not observed for younger children, the probability of completing future grades is estimated using a hazard function.
Especially in the poorest countries and for poorer households, a large portion of children never start school or fail to stay in school as they get older.

In Chad—the country that scored the lowest in the global HCI—as of 2015, only 60 percent of children aged 10 to 19 from the bottom four socioeconomic groups completed first grade and barely 30 percent completed 9th grade. This is in sharp contrast with the 80 percent of 10 to 19-year-olds in the top quintile who were enrolled in first grade and significantly more likely to stay in school until grade 9.

In Pakistan, moving from a low to higher socioeconomic quintile is associated with a progressive improvement in both access to school and grade survival. In 2012, only 44 percent of children from the lowest wealth quintile were enrolled in grade 1 and only 20 percent of them graduated to grade 9. In other countries, gaps emerge only later in the school system, as, for example, in Thailand, where the wealth gap becomes evident only in grades 6 and 7, when children transition to secondary school.

Furthermore, being in school does not necessarily translate into learning. International and national student assessments have been instrumental in benchmarking progress and quantifying learning gaps across socioeconomic groups. The evidence shows that better learning continues to be associated with higher socioeconomic status across and within countries, signaling differences in access to quality education.

In the SES-HCI sample of low- and middle-income countries, learning inequality increases as countries get richer. This can be due to many factors and more research is needed to fully disentangle them. Yet, emerging evidence suggests that this pattern disappears above a certain income level. This is consistent with the experience of high-income countries, such as Germany and Poland, that have been able to increase their overall performance in student assessments by improving learning for children at low levels of achievement, often those from more marginalized backgrounds.

For example, following the unexpectedly low results in the 2000 Programme for International Student Assessment (PISA), the German government implemented a series of reforms (including reduced tracking and segregation, standardization of curricula, expansion and strengthening of the educational content of pre-primary schools) that effectively reduced the gap between children from advantaged and disadvantaged educational backgrounds and improved the country’s overall performance in subsequent PISA assessments.

---

34. Martins and Veiga (2010).
35. On the one hand, this pattern could be due to underlying factors like the fact that tests in the poorer countries in this sample tend to focus on primary school, while tests in richer countries are more likely to cover secondary school-aged children. If individual differences in learning ability accumulate over time, this could contribute to the observed regularity of greater dispersion in test scores in rich countries. It could also reflect selection, if the children in school in poorer countries come from a more homogenous background than the children in school in richer countries. On the other hand, this pattern is also to some extent a consequence of the test score harmonization methodology. Tests are harmonized by (a) first rescaling testing data from individual testing programs to have mean 500 and standard deviation 100 across all students taking that test in all countries, and (b) developing a multiplicative “exchange rate” between testing programs that reflects the ratio of average performance of students in countries participating in two testing programs. This ratio is smaller than one for the testing programs in poorer countries. For example, for Early Grade Reading Assessment test (EGRA) the scaling factor is 0.73 relative to the benchmark. This multiplicative adjustment factor reduces both the mean and the dispersion in harmonized test scores in EGRA relative to the benchmark. This in turn contributes to the pattern of lower dispersion in harmonized test scores in poorer countries relative to richer countries in the sample.
36. There is ample debate on what policies can be effective to improve education outcomes. See for example Glewwe and Muralidharan (2016).
FIGURE 2.4 Proportion of 10-19-Year-Old Children Who Attained Each Grade, by Wealth Quintile

Source: Education Attainment and Enrollment around the World: An International Database (Filmer 2018).

Notes: Figures for all country/years are available at: http://iresearch.worldbank.org/edattain/. 
HUMAN CAPITAL OUTCOMES AND INCOME WITHIN AND ACROSS COUNTRIES

Countries differ greatly both by the level of human capital acquired by the poorest and by how fast it increases when one moves from households in the bottom income quintile to those at the top. Figure 2.5 shows the relationship between SES-HCI and log income across quintiles for different regional grouping. This human capital-income gradient is depicted as an upward sloping line for each country, with the five data points corresponding to the five socioeconomic quintiles.

In countries with steeper slopes (illustrated in red), the income distribution is relatively more compressed than the distribution of human capital. In these countries, a small increase in income is associated with significant increases in human capital. Green lines highlight countries where the distribution of human capital is relatively egalitarian, which results in flatter slopes.

For example, in the top-left panel, the fairly flat green line for Haiti shows that it has relatively small differences in human capital outcomes across socioeconomic quintiles despite quite large income differences across quintiles. Conversely, the steep red line for Guatemala highlights its large differences in human capital outcomes across quintiles given its income inequality.

These relationships reflect both the historical distribution of income within countries and the cumulative effectiveness of policies that redistributed human capital across different socioeconomic groups. Regression results show that, on average, the rate at which human capital improves with income within countries is similar to the rate at which human capital improves with income between countries.38 This suggests that, on average, governments have not been more successful in reducing inequalities in human capital than the effect that getting richer has across countries.

National governments have the ability, and often the mandate, to reduce inequalities in health and education outcomes across income groups. The analysis in this section reveals an unfinished agenda, with low average human capital outcomes and considerable gaps between the rich and poor. The extent of these gaps varies across human capital dimensions and country income level.

On the whole, rich-poor gaps in the SES-HCI tend to decrease slightly as countries get richer, and government redistributive policies do not seem to do a better job of reducing human capital inequality than the effect of increased national income. At the same time, the heterogeneity of the slopes in Figure 2.5 indicates that individual countries have different degrees of success in decoupling human capital outcomes for children from the income differences among their families.

Addressing these rich-poor gaps in human capital must remain a priority for governments since, in many cases, returns to investing in the human capital of disadvantaged groups, especially early in life, are the highest.

---

38. Pooling the quintile level data on the SES-HCI and log income per capita for all countries allows estimating a “between” and a “within” regression of the former on the latter and thus answer the question of how the within-country relationships between human capital outcomes and income levels compare with the corresponding pattern across countries. Both for the SES-HCI and for all but one of its components, the slope of the relationship between countries is similar to the within-country slope. The one exception to this pattern is child survival rates, where the within-country gradient with income is consistently smaller than the between-country gradient with income. Results are described in detail in D’Souza, Gatti and Kraay (2019).
FIGURE 2.5 Unlocking the Potential of Human Capital investments Through Gender Equality


Notes: This graph reports the within-country relationship across quintiles between the SES-HCI and log per capita income. Per capita income in each quintile is approximated using the quintile share in income or consumption as reported in the PovcalNet database for the survey nearest to the SES-HCI data, together with GDP per capita as the mean. The upward sloping lines in each panel trace the five quintile values for each country. The heavy solid green line (heavy dashed red line) shows the country in each group with the flattest (steepest) within-country gradient between the SES-HCI and log income per capita.
3 Spatial DISAGGREGATION
While inequality between countries has decreased in the past decades, increased inequality within countries, and especially the urban-rural disconnect, are growing concerns for many.39 This phenomenon reflects important—and interrelated—global trends such as urbanization and technological change.

Across countries, a 1 percentage point increase in the share of urban population is associated with a 3.8 percent increase in GDP per capita.40 This figure exemplifies a trend that is common to many countries around the world: urban regions are growing much faster than rural ones.

Spatial inequalities are increasing, reflecting urbanization and the skill-biased nature of technological change.

Technological change and automation exacerbate this rural-urban divide. Skill-based technological change—innovation that is complementary to higher-order skills—has contributed to the increase in monetary and non-monetary returns for highly skilled individuals who opt to live in urban areas vis-à-vis those who are either less educated or live in rural areas. Moreover, because of agglomeration externalities, well-educated workers become more productive when surrounded by peers with similar characteristics and attract the most dynamic and innovative firms. As a result, disparities between urban and rural areas reflect, now more than ever, differences in human capital. However, migrating from rural to urban areas does not always level the playing field for unskilled workers. Evidence from the United States shows that non-college educated workers who live in urban areas are employed in occupations that require lower skills and pay lower real wages than in the past.41 Irrespective of a country's income level, these trends are likely to increase the importance of the quality of schools and health facilities of the places where individuals grow up.

There is growing consensus among economists that "place-based" policies should be tailored around the skills of the people who live in those areas. The benefits that a community will obtain from major infrastructure, vis-à-vis a targeted welfare program or research and development incentives, depend on the skills of their residents.42 Geographically disaggregated measures of human capital can provide a useful lens to identify areas where governments can target their resources most effectively to invest in the human capital of the young.

**SUBNATIONAL INEQUALITY IS SUBSTANTIAL**

The HCI offers a natural starting point to help policymakers identify policies that can reduce within-country disparities. The evidence that follows reflects the ongoing work of country teams at the World Bank and showcases findings from 11 countries: Angola, Burkina Faso, Chad, Indonesia, Mali,

42. Austin, Glaeser and Summers (2018); Hendrickson, Muro and Galston (2018).
BOX 3.1 Spatial Disaggregation Conducted by World Bank Country Teams

The 11 disaggregations of the HCI (GEO-HCI) featured in this section were computed by World Bank country teams. The level of disaggregation varies by country: the GEO-HCI for Angola, Burkina Faso, Indonesia, Sierra Leone, and Sri Lanka is disaggregated by region; for Chad, Mali, Niger, and Peru by province; and for Romania at the county-level. In addition, data for Vietnam are disaggregated by ethnic group. The GEO-HCI illustrates disparities in human capital outcomes within countries. The differences in levels of disaggregation preclude cross-country comparisons of these gaps. For example, the range between best and worst performers is likely to be larger in countries that disaggregate at a lower subnational unit.

Like the SES-HCI, the GEO-HCI uses the same methodology as the global HCI but different data sources to calculate disaggregated HCI scores at the subnational level. Some country teams also modify the complete education benchmark of 14 years used in the global HCI to better reflect the duration of the country’s education system. As a result, the GEO-HCI data at the subnational level, and averaged to the national level, are not fully comparable or consistent with the global HCI, and countries’ scores and relative positions can differ between the GEO-HCI and the HCI. Accordingly, comparisons between the two should be made recognizing these differences.

Since the analysis of these 11 countries reflects country interest and demand to understand regional inequality, this is not a representative nor a purposefully selected sample and patterns should be interpreted with caution. This grouping, however, covers each global region and is split between low, lower middle, and upper middle-income brackets, including two fragile state according to World Bank classification. Still, because of the sample limitations, the analysis is not conducive to generalizations and is more akin to a case study approach, which highlights the potentiality of the methodology.

Niger, Peru, Romania, Sierra Leone, Sri Lanka, and Vietnam.43

Overall, in this sample, richer regions within countries have better human capital outcomes, mirroring the similar pattern across countries. Figure 3.1 shows the GEO-HCI and per capita income levels for eight countries where subnational GDP per capita data were available.

In the 11 countries studied here, within-country differences in GEO-HCI between the best and worst performing regions are significant, but they are especially large in middle-income countries such as Indonesia and Peru. Capital regions are typically the top performers (Figure 3.1), a trend that is particularly pronounced in the low-income countries. However, the relationship between the GEO-HCI and per capita income is not always linear. For example, in Sri Lanka, the best and worst performers are neither the richest region nor the country’s poorest and conflict-affected region, respectively.

43. Data sources for the GEO-HCI are detailed in Appendix 3.
FIGURE 3.1 The Relationship Between Income and the GEO-HCI Varies with Country income

Source: Authors’ calculations based on GEO-HCI and GDP data provided by World Bank Country Teams. Please see Appendix 3 for details.

Notes: Prices adjusted at 2011 PPP. To calculate subnational GDP per capita for Burkina Faso, Chad, Indonesia, Mali and Niger, national GDP per capita is multiplied by the ratio of subnational per capita consumption to mean per capita consumption.
No matter the income level of the country, human capital within regions can differ along many dimensions, such as rural-urban status and ethnicity. For example, the urban-rural divide in learning outcomes in Romania is significant. In the Vaslui county, there are urban areas that score as high as Ukraine, while there are rural areas that rank as low as Senegal (Figure 3.2).

Within regions, belonging to a minority group also correlates with differences in human capital outcomes. In the global HCI, Vietnam ranks close to the high-income country average and well above the average for lower middle-income countries (its own income group). However, disaggregation of 2014 data shows that ethnic minorities score 0.62 in the GEO-HCI as compared to 0.75 for the ethnic-majority Kinh. At 32 percent, stunting rates for ethnic minorities are twice as large as for the Kinh majority. Ethnic minorities’ school enrollment also lags behind that of their Kinh peers by 30 percentage points. In Peru, indigenous populations underperform their peers, whether in rural or urban areas. The stunting rate of children under five years old is three times higher for urban indigenous children than for non-indigenous urban children, and 10 points higher between rural indigenous and rural non-indigenous.  

**WHAT DIMENSIONS OF HUMAN CAPITAL DRIVE THESE INEQUALITIES?**

Like the global HCI, where both the quality and quantity of schooling constitute an important driver of the variation across countries, education outcomes are clear drivers of regional inequality in the GEO-HCI. Romania, Peru, and Sri Lanka—middle-income countries with relatively higher HCI scores—show large variations in learning outcomes but little differences in expected years of schooling (EYS). Conversely, countries with lower overall HCI scores show little variations in learning outcomes, but relatively large variations in EYS.

Within the small group of countries analyzed here, the variation in learning outcomes versus

---

44. Marini, Gallaghar and Rokx (2017).
years of schooling seems to suggest that access to schooling does not necessarily translate into realized learning (Figure 3.3). In middle-income countries, the systematic improvements in enrollment and completion rates, especially in regions that started from low levels, may have led to an inflow of students with different levels of school readiness. This is likely to account, in part, for the large variation in learning observed in these countries despite high enrollment. In low-income countries, with more limited access to school, it is possible that the group of test takers is more homogenous in terms of school readiness, although at lower levels. This can explain why Angola, Mali, and Niger display relatively high within-country variation in EYS and little differentiation in terms of learning outcomes.  

45. As discussed in Section 2, some of the differences in the patterns of learning dispersion between rich and poor countries are related to the statistical process of the harmonization test scores from different student assessments.
In the countries with lower human capital, regional differences in stunting are high and play a key role in explaining within-country variations in the overall score. For example, Figure 3.4 shows that in Niger, stunting ranges from 18 percent to 43 percent across regions. Similarly, in Angola, stunting is more than twice as high in some regions as others, ranging from less than 25 percent to roughly 50 percent. In Mali, the spread is also substantial—24 percent to 41 percent.

Some of these outcomes are stubbornly hard to move, particularly for typically marginalized groups. Despite Peru reducing its rate of stunting by more than half between 2008 and 2016, stunting remains high at nearly 26 percent in rural areas. By contrast, even with high levels of poverty in large cities like Lima, urban stunting is only 8 percent. In Vietnam, the prevalence of stunting in ethnic minority groups compared to the majority Kinh group is widening. Between 2010 and 2015, stunting among ethnic minorities dropped by 5 percent to 31 percent, affecting nearly one-third of all minority group children. By contrast, the rate of stunting among Kinh children is only 15 percent and dropped by 7 percent over the same period.

LOOKING WITHIN THE HCI

Resource-constrained countries might need to prioritize not only across different regions, but also across different types of interventions. The degree of regional variation of the health and education components of the HCI can provide guidance for policy action. Reducing class sizes might be less urgent than nutrition interventions in those areas where there are very high rates of stunting—particularly since addressing nutrition is likely to have important repercussions on school readiness. This might be the case in a country like Chad, which, with a score of .29, ranks at the bottom of the global HCI. The GEO-HCI shows minimal variation within the country. However, within regions, index components vary quite substantially and, in some cases, in ways that are negatively correlated to each other. For example, regions with more schooling have relatively lower learning outcomes. Understanding how different factors drive poor human capital outcomes in different regions of a country can help determine priority areas for intervention.

FIGURE 3.4 Range of Stunting Outcomes by Region in Select Low-Income Countries

Looking within the HCI outcomes can help tailor locally relevant policies.

HOW ARE THESE FINDINGS INFORMING ACTION?

In the absence of adequate policy responses, high levels of poverty, when combined with low levels of human capital, can compromise the

46. Section 4 discusses the current reforms in Peru.
47. Mbuya et al. (2019).
hopes of many generations. The challenges of poverty, the urban-rural disconnect, and poor human capital outcomes can be mutually—and negatively—reinforcing.

**Measuring different outcomes—both in the HCI overall and its component parts—across regions can help target those most in need.**

Emerging evidence shows that targeting using multiple methodologies, such as poverty, geographic, and community approaches, appears most effective in reaching the vulnerable and typically marginalized. Combining the GEO-HCI with measures of monetary poverty can also help governments achieve better equity-efficiency trade-offs implied by alternative policy options. For instance, in two equally poor regions, the government might differentiate the types of firms that benefit from tax benefits and grant programs according to the average level of human capital in the region. Further disaggregation over additional dimensions highlights the need for further nuances. The evidence in Romania shows that rural populations, even within one region, are disadvantaged as compared to urban ones. In Vietnam, the HCI disaggregation shows that ethnic minorities fare worse than the Kinh majority even when living in the same areas.

The GEO-HCI also complements other available data and, through triangulation, can deepen the picture of what is constraining human capital accumulation. Vietnam’s interest in further disaggregation of outcomes for ethnic minorities has prompted a change in methodology for national surveys. The Peruvian government uses different human capital indicators at the subnational level to monitor policy implementation and inform its results-based budgeting.

Matching GEO-HCI data with the SDI Initiative, which tracks the variation in skills and effort of providers within health and education systems, can provide insights into capacity delivery. In Angola, regions found to have higher teacher absenteeism and fewer textbooks in schools through the SDI Initiative also had worse human capital outcomes in the GEO-HCI data. Moreover, like in the GEO-HCI, urban/rural divides in SDI data reveal significant differences in health provider’s diagnostic accuracy and adherence to clinic guidelines. For example, health providers in Sierra Leone were significantly more likely to be absent in urban facilities.

The GEO-HCI helps build an evidence base that governments can use to design, target, and monitor better responses to address the needs of those falling farthest behind.

---

REALIZING CHANGE:
A Whole-of-Government Approach
With large shortfalls in human capital and persistent inequality, empowering disadvantaged populations is an urgent priority. The experiences of countries such as Bangladesh, India, and Peru show that it is possible to bring about change through concerted government action to deliver not only marked improvement in national outcomes linked to human capital but also convergence in terms of equity.

The success stories in this section span a wide array of critical issues. Peru halved its rate of stunting in less than a decade, with faster progress among the poorest households. At the beginning of the 20th century, India committed to universal primary education and, in 2015, achieved 99 percent gross net enrollment, with a focus on gender parity and access for typically marginalized groups. Since its independence, Bangladesh has seen one of the most dramatic reductions in fertility globally, from nearly seven to approximately two births per woman.

A common theme across these country examples is a whole-of-government approach that combines sustained political commitment, coordination across sectors, and the use of evidence-based policies.49

**Countries that have seen the most dramatic gains have achieved continuity of reforms across political cycles.**

In India, the government’s drive for universal primary education began with a flagship program, Sarva Shiksha Abhiyan (SSA), that was launched in 2001, codified into law in 2009, and has remained a priority thereafter. SSA sought to universalize quality education for children ages 6 to 14 years old. By 2007, the number of out-of-school children fell from 32 million to 13.5 million, with significantly better access for girls and typically marginalized groups. Recognizing the need for ongoing attention to this critical area, the government continued to prioritize funding the flagship SSA and further signaled its commitment to universal primary education by adopting the 2009 Right to Free and Compulsory Education Act (RTE), which became effective in April 2010. In 2015, gross enrollment rates reached 99 percent. As a result of the government’s commitment to equality of outcomes, in the 2016-2017 school year, the share of girls, scheduled caste, scheduled tribe, and Muslim children enrolled in primary school was greater than their respective share of the overall population.50 The progress in access and eventual reduction in inequality in schooling years is represented in Figure 4.1.

49. The whole-of-government concept is explored further in a series of notes published by the World Bank in 2019.
In Bangladesh, a commitment to pro-equity development policies began at independence in 1971 and has continued into the present.\(^{51}\) In successive national plans, the government identified clear priorities linked to women’s empowerment, from family planning to maternal health to women’s education. In Peru, stunting featured as a priority issue in all presidential election campaigns from 2006 to 2016. Four successive governments maintained the continuity of the effective public policies put in place by their predecessors, but with each administration setting its own new and ambitious targets.\(^{52}\)

**WORKING TOGETHER: COORDINATION ACROSS AND BEYOND GOVERNMENT**

Peru’s national strategy for early childhood development, *Crecer*, created a holistic framework that helped reduce the rate of chronic malnutrition from 28 percent in 2005 to 13 percent in 2016 and saw an even pace of change amongst rural and urban children. As illustrated in Figure 4.2, the change in stunting rates also has seen convergence in outcomes across socioeconomic status. While stunting remains correlated to household socioeconomic status, the gap between the poorest and...
richest households nearly halved, from 48 percentage points to 26 percentage points between 2000 and 2016.

Launched in 2007, Crecer coordinated across diverse actors to deliver diverse services targeted to 1 million children under the age of five. It focused first on the poorest areas of the country. The national strategy acknowledged that nutrition alone could not reduce stunting and therefore involved various sectors including water, sanitation, access to health services, education, and the empowerment of women in poor, remote, and rural communities. To implement this vision, Crecer allied national, regional, and municipal governments alongside the private sector, international development agencies, and grassroots organizations. The government coordinated horizontally across ministries and public bodies as well as vertically between national, regional, and municipal authorities. Moreover, Peru has relied on a strong commitment to measurement, fielding DHS surveys on a continuous basis since 2000 rather than at the typical five-year intervals.

Realizing change requires coordination across government, as well as crowding-in the private sector, development partners, and civil society.
The government also adopted an effective conditional cash transfer program and a comprehensive public insurance scheme that increased health coverage among Peru’s poor and vulnerable population from 32 percent to 75 percent in just under a decade.

Similarly, the Government of Bangladesh worked across a range of stakeholders to achieve its ‘reproductive revolution’ and wide-ranging successes in health and education outcomes since independence. Government (national and local) entities, the private sector (formal and informal), NGOs (private and non-profit), and donors engaged to improve services and the uptake of services, particularly in poor areas. On this latter piece, religious and community leaders played a key role in supporting behavior change.

**USING EVIDENCE: SETTING REFORMS AND ALLOCATING RESOURCES BASED ON DATA**

Setting policies and allocating resources based on evidence of a country’s human capital challenges can help drive higher returns to investment. It also can help countries identify and reach those segments of its population that are most in need.

In the early 1970s, Bangladesh had a high population density, high poverty, and low food production. A total fertility rate (TFR) of over six children per woman only compounded these challenges and the government set an ambitious target of reducing this number by two-thirds by 1985. While this was not achieved as quickly as hoped, the government maintained a commitment to its goal and in 2017, the TFR in Bangladesh was 2.1. Figure 4.3 shows that, in realizing this goal, it was the regions that began with the highest TFRs that registered the most significant changes.53

As part of its comprehensive strategy, the government’s Family Planning Program (FPP) built on concrete evidence of how community health workers could help realize changes in household family planning and maternal and child health. Launched in 1977, the Family Planning and Maternal Child Health program in Bangladesh’s Matlab district began with biweekly household visits focused on contraception options and expanded to include information on related health services. By 1982, census data showed a 15 percent decrease in fertility compared to neighboring districts. Building from this evidence, the government launched the national Family Planning Program (FPP) to provide multi-dimensional maternal and child health services at the household level. At its peak, the FPP employed 28,000 married women across the country as Family Welfare Assistants.54

Evidence can help countries identify and reach those segments of its population that are most in need.

Similarly, a non-governmental organization, Bangladesh Association for Community Education, started the Secondary School Stipend Program in six districts in Bangladesh in 1982 and witnessed positive outcomes. While still low overall, the pilot areas saw an increase in female secondary enrolment on average from under 8 percent to 14 percent. In 1994, the government launched the program nationally and, from 1999 to 2005, an average of nearly 3.5 million girls received stipends each year. This contributed to a jump in female secondary school enrollment from 1.1 million in 1991 to 3.9 million in 2005.55

53. acknowledged
54. Schultz and Joshi (2007) and see https://www.dgfpbd.org/.
For Peru, the adoption of results-based budgeting (RBB)—tying financing allocations to needs and performance—was a ‘watershed’ reform for its drive to improve child health. Adopted in 2008, RBB changed the way that resources were allocated to local government. Rather than determinations based on previous levels of spending, the RBB approach determined the cost to administer ‘children with full package of immunizations’ and then calculated the budget based on the number of children that a health clinic planned to vaccinate. This helped shift resources to regions with greater need. Regions could also increase their budget allocation by 50 percent if they met specified targets in related areas, such as malnutrition, sanitation, and water. The government’s commitment to regular monitoring was instrumental to the success of the RBB. Regular surveys that accurately measured malnutrition at the department level provided timely feedback and allowed for the evidence-based allocation of resources.

WHAT NEXT? AN ONGOING COMMITMENT

The data are unambiguous—despite progress, much work remains to improve human capital globally and ensure that these improvements benefit those most in need.

But there are important signs of commitment to transformational change. Together, Indonesia, Pakistan, and Nigeria account for nearly a tenth of the world’s population. Recognizing the challenge they face in preparing their populations to achieve their full potential, each has signaled concrete actions going forward.
In March 2019, Pakistan launched a flagship program, *Ehsaas*, focused on investing in people, reducing inequality, and lifting lagging districts, with an emphasis on modern data and technology to deliver results. *Ehsaas* adopts a whole-of-government response to four central pillars: addressing elite capture and making the government system work to create equality; safety nets for disadvantaged segments of the population; jobs and livelihoods; and human capital development.

In Indonesia, among its many programs and initiatives, the government is using fiscal policy to promote equity of outcomes in human capital. The proposed budget for 2020 highlights significant human capital expenditures—with a planned increase of 3 percent and 10 percent in real terms from the 2019 education and health budgets, respectively. Notable new policies include targeting nearly 2 million current workers or job seekers to access vocational training; increasing the benefit size of and eligible food items under a food assistance program; and doubling the number of government scholarships available specifically for poor and talented students.

In Nigeria, the government has set an ambitious objective to halve its under-5 mortality rate in a decade. Toward this end, it is adopting reforms that aim to improve the utilization of immunization, malaria, maternal, and neonatal services, beginning in selected states. The program has a strong evidence-based agenda and specifically notes that activities in the later phases will apply lessons-learned from earlier phases to states that continue to lag behind.
5 USING DATA to Design Responsive Policies
The powerful economic message from the global HCI first published in October 2018—and the response of the 65 countries that have joined the HCP as of October 2019—underscores the urgency to accelerate progress on human capital and to provide governments with additional data and analysis to help address barriers to human capital development in their countries.

Effecting change in human capital outcomes depends on the unique context of a given country. In some low-income contexts, spending more and strengthening governance and institutions represent necessary first steps to improve human capital. Niger and Sierra Leone, included in the spatial analysis here, are examples of countries with weak resources and implementation capacity in the face of urgent needs.56

In other contexts, spending more does not necessarily translate to better outcomes and the challenge centers much more on the efficiency and effectiveness of spending. For instance, research in Indonesia, where social sector expenditures are substantial, found that an unconditional doubling in teacher pay did not improve teacher effort or learning outcomes.57

For governments facing budget constraints, understanding who within a country is falling farthest behind and targeting these marginalized groups is one option for realizing efficiency gains. IMF analysis suggests that increasing health spending by 10 percent in the least efficient countries would only raise life expectancy by two months, but improving outcomes of the poorest performers could raise life expectancy in those countries by about five years.58

With its launch last year, the global HCI drew attention to the scale of opportunities lost to poor human capital outcomes. Now, its disaggregation provides insights that can inform government policies and reforms to respond to the challenge ahead.

Section 2 of this report reveals substantial differences in the human capital outcomes of children from rich and poor households within the same country, with gaps that can be as large as those between countries. About a third of the total variation in the SES-HCI is driven by these large within-country gaps. Governments have an important role to play in implementing redistributive policies and programs that address these large inequalities and improve the outcomes of the most disadvantaged.

The spatial disaggregation of the HCI in Section 3 showcases the insights to be gained from complementing monetary measures of poverty and inequality. While lower income or wealth are associated with worse human capital accumulation, there are certain aspects of human capital, stunting foremost among them, that are not strictly correlated with wealth. Geography, rural and urban divides, and ethnicity can also play a role in determining human capital formation.

While revealing stark within-country inequalities, this analysis does offer a positive message. As

57. De Ree et al. (2017).
governments work to improve the outcomes of the most disadvantaged, they can look to ‘high performers’, particularly better performing regions, and the systems and institutions within the country that contribute to higher levels of human capital. These ‘home-grown’ solutions can potentially be replicated in other parts of the country.

In designing reforms to improve human capital outcomes, governments can also draw inspiration from other countries’ experiences. Bangladesh, India, and Peru have realized major progress in diverse human capital outcomes and reduced inequality of these outcomes as a key part of national reforms. While implementing a whole-of-government approach, these countries adopted long-term, wide-ranging, evidence-based policies. They took concrete steps to tailor programming to the needs of marginalized groups—the ‘last mile’ of service delivery. Separate toilet facilities for girls, gender-sensitive staffing, and household-based outreach, among others, can all promote uptake of health and education services by groups often left behind.

Targeting populations with weak human capital outcomes is a fundamental step toward fairer distributional impacts and is essential for progressively achieving universal coverage of social services. The Universal Declaration for Human Rights established in 1948 included free elementary education. It also outlined the right to an adequate standard of living for health and well-being. More concretely, since the 2000s, many countries have started on a path toward universal health care (UHC). And now, universal basic income is gaining momentum in response to new and changing norms in work.

The realities of constrained government resources require strategic reforms toward such goals. Efforts to realize UHC highlight the role of progressive universalism—prioritizing poor and underperforming populations in expanding basic services and protections. Not only does this respond to budget constraints, it can help realize the benefits of shared prosperity by narrowing the human capital gap in a country.

Effectively targeting the most disadvantaged is a daunting task. While in high-income countries, civil registries, social insurance, income tax, and social assistance databases cover nearly all people, they cover less than half of people in low-income countries. In these contexts, targeting based on imprecise measures of poverty, such as proxy means testing, can miss those most in need. Geographic targeting provides an alternative method to identify areas for intervention but has its own limitations.

The HCI disaggregation is a way for low and middle-income countries to use existing household data to complement these other approaches to targeting. It can provide insights into poverty-associated deprivations in human capital. It can also nuance geographic targeting, particularly highlighting uniformly poor outcomes in some low-income countries or helping identify ‘last mile’ populations who underperform relatively good national averages despite living side-by-side with majority groups.

Changes in policies take time to translate into better human capital outcomes. Acting quickly to understand where human capital deficits are greatest and where returns to policy interventions are likely to be the highest will have profound implications for countries’ future income and wellbeing, national economic growth and competitiveness, and overall poverty reduction.

---

59. Packard et al. (2019).
60. Ibid.
References


APPENDIX 1

Differences between the SES-HCI and HCI
Although the SES-HCI uses the same methodology as the global HCI, it differs in several key respects. First, the SES-HCI uses household survey-based measures of school attendance to measure the quantity of schooling, while the global HCI primarily uses administrative data on enrollment rates. As is well known, these two measures of school participation can differ considerably. Second, due to data limitations, the SES-HCI measures expected years of school between ages 6 and 17, while the HCI relies on administrative data on pre-primary through upper-secondary enrollment, covering the 4 to 17 age range. Third, the household survey data used does not provide estimates of adult mortality and therefore does not allow calculation of adult survival rates by SES quintile. This means that the health component of the SES-HCI is based only on stunting rates, unlike the global HCI which uses stunting rates and adult survival rates. Fourth, there are minor discrepancies between the SES-HCI and HCI data on child survival, stunting, and test scores. Taken together, these differences imply that the SES-HCI data at the quintile level, and averaged to the national level, are not fully comparable or consistent with the global HCI, and countries’ scores and relative positions can differ between the SES-HCI and the HCI. Accordingly, comparisons between the two should be made cautiously and recognizing these differences.

The divergences between the global HCI and national averages of the SES-HCI are briefly summarized in Figure A1.1. The national average of the SES-HCI is calculated using the national averages of its four components. The national average SES-HCI is plotted (on the vertical axis) against the global HCI (on the horizontal axis). To isolate the first source of difference between the two, the global HCI on the horizontal axis is calculated using only stunting as the proxy for health, as is the case for the SES-HCI. As discussed previously, national averages of child survival, stunting, and test scores used in the SES-HCI are very similar to their counterparts in the global HCI. This means that the differences between the SES-HCI and the global HCI displayed in Figure A1.1 are primarily due to differences in expected years of school as calculated from survey data (as in the SES-HCI) as opposed to administrative data (as in the global HCI). These differences are manifested in two different ways in Figure A1.1. First, although the correlation across countries between the SES-HCI and the global HCI is high at 0.93, it is not perfect. This reflects the less-than-perfect correlation between expected years of school based on survey versus administrative data. Second, since the SES-HCI calculates

---

61. See for example Urquiola and Calderon (2006).
62. Note that the human capital index is a convex function of its components. As a result, the SES-HCI evaluated at the national averages of its component data will differ slightly from the average of the SES-HCI across quintiles due to Jensen’s inequality.
63. For a detailed discussion on differences between global HCI and SES-HCI component data, please see Section 3 of D’Souza, Gatti and Kraay (2019).
expected years of school over a shorter 12-year age range (age 6-17), while the HCI considers a 14-year age range (age 4 to 17), the dispersion in expected years of school across countries is smaller in the SES-HCI because it does not capture cross-country differences in pre-primary school participation. Since the index values reflect gaps in human capital relative to the benchmarks of complete education and full health, these gaps also are smaller in the SES-HCI where the education benchmark is 12 learning-adjusted years of school compared to 14 in the global HCI. This in turn means that the values of the SES-HCI are on average larger than in the global HCI, as can be seen from the fact that nearly all countries are above the 45-degree line in Figure A1.1.

**FIGURE A1.1 Comparing the SES-HCI and the Global HCI**

![Graph comparing SES-HCI and Global HCI](image)

*Source: D’Souza, Gatti and Kraay (2019).*

**Notes:**
This graph compares the overall HCI disaggregated by quintiles of socioeconomic status (on the vertical axis) with the global HCI (on the horizontal axis) for the 42 countries in the most recent cross-section of countries in the SES-HCI dataset for which the SES-HCI data refer to 2010 or later. The dashed line is the 45-degree line.

*For comparison purposes, the global HCI is calculated excluding adult survival rates (ASR) as a proxy for health to be more consistent with the SES-HCI which does not include ASR.*
APPENDIX 2

Data Sources for the SES-HCI
<table>
<thead>
<tr>
<th>Country</th>
<th>Year in S-HCI Dataset</th>
<th>Child Survival</th>
<th>Stunting</th>
<th>Expected Years of School</th>
<th>Harmonized Test Scores</th>
<th>PovcalNet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dominican Republic</td>
<td>2013</td>
<td>2013 DHS</td>
<td>2013</td>
<td>2013 DHS</td>
<td>2015 PISA</td>
<td>2013</td>
</tr>
<tr>
<td>Gabon</td>
<td>2012</td>
<td>2012 DHS</td>
<td>2012</td>
<td>2012 DHS</td>
<td>2006 PASEC</td>
<td>2017</td>
</tr>
<tr>
<td>Jordan</td>
<td>2012</td>
<td>2012 DHS</td>
<td>2012</td>
<td>2012 DHS</td>
<td>2012 PISA</td>
<td>2010</td>
</tr>
<tr>
<td>Country</td>
<td>Year in S-HCI Dataset</td>
<td>Child Survival Year</td>
<td>Source</td>
<td>Stunting Year</td>
<td>Source</td>
<td>Expected Years of School Year</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------</td>
<td>---------------------</td>
<td>--------</td>
<td>---------------</td>
<td>--------</td>
<td>-------------------------------</td>
</tr>
</tbody>
</table>

Note: The SES-HCI analysis in this booklet draws on D’Souza, Gatti and Kraay (2019). The analysis uses a sample of 50 countries, drawing data from the latest available DHS/MICS surveys in the past two decades. Data presented in section 2 of this booklet come from the surveys and years detailed in this table.
APPENDIX 3
Data Sources for the GEO-HCI
### Data Sources for the GEO-HCI

<table>
<thead>
<tr>
<th>Country</th>
<th>Child Survival</th>
<th>Stunting</th>
<th>Adult Survival</th>
<th>Expected Years of School</th>
<th>Harmonized Test Scores</th>
<th>GDP Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angola</td>
<td>2015/16 DHS</td>
<td>2015/16 DHS</td>
<td>n/a</td>
<td>2017/18 EMIS</td>
<td>2011 EGRA n/a n/a</td>
<td>n/a n/a</td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>2010 DHS</td>
<td>2010 DHS</td>
<td>n/a</td>
<td>2014 LSMS</td>
<td>2014 PASEC 2014</td>
<td>LSMS-ISA*</td>
</tr>
<tr>
<td>Chad</td>
<td>2014/15 DHS</td>
<td>2014/15 DHS</td>
<td>n/a</td>
<td>2011 LSMS</td>
<td>2014 PASEC 2011</td>
<td>Chad Household Consumption and Informal Sector Survey (ECOST 3)*</td>
</tr>
<tr>
<td>Mali</td>
<td>2012 DHS</td>
<td>2012 DHS</td>
<td>n/a</td>
<td>2014 LSMS</td>
<td>2014 PASEC 2014</td>
<td>LSMS-ISA*</td>
</tr>
<tr>
<td>Niger</td>
<td>2012 DHS</td>
<td>2012 DHS</td>
<td>n/a</td>
<td>2014 LSMS</td>
<td>2014 PASEC 2014</td>
<td>LSMS-ISA*</td>
</tr>
<tr>
<td>Peru</td>
<td>2016/17 Instituto Nacional de Estadistica E Informatica</td>
<td>2018 Instituto Nacional de Estadistica E Informatica</td>
<td>n/a</td>
<td>2016 Estadistica de la Calidad Educativa (ESCALE)</td>
<td>2015 PISA 2014</td>
<td>OECD Regional Database</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>2016 DHS</td>
<td>2016 DHS</td>
<td>2016 Sri Lanka Department of Census and Statistics</td>
<td>16 HIES</td>
<td>16 SL-TIMSS (National assessment linked to TIMSS)</td>
<td>n/a n/a</td>
</tr>
<tr>
<td>Vietnam</td>
<td>2013/14 MICS</td>
<td>2013/14 MICS</td>
<td>2013/14 MICS</td>
<td>2013/14 MICS</td>
<td>2015 PISA n/a n/a</td>
<td>n/a n/a</td>
</tr>
</tbody>
</table>

**Note:** Data sources provide per capita consumption data. To calculate GDP per capita for each subnational unit, national GDP per capita is multiplied by the ratio of subnational per capita consumption to mean per capita consumption. For some countries with large divergences between household income and consumption, variations in per capita consumption may imperfectly reflect variations in income.
APPENDIX 4

SES-HCI
Country Profiles
Albania

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Albania was ranked 56 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

How Do Human Capital Outcomes Differ by Socioeconomic Status?

- SES-Disaggregated Human Capital Index (SES-HCI). In Albania, the productivity as a future worker of a child born today in the richest 20 percent of households is 64 percent while it is 50 percent for a child born in the poorest 20 percent, a gap of 14 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (15 percentage points).

- Probability of Survival to Age 5. In Albania, the probability of survival of a child born today in the richest 20 percent of households is 99 percent while it is 97 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- Expected Years of School. In Albania, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 8.7 years of school, a gap of 1.6 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- Harmonized Test Scores. Students from the richest 20 percent of households in Albania score 437 while those from the poorest 20 percent score 356, a gap of 81 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- Healthy Growth (Not Stunted Rate). In Albania, the percentage of children in the top 20 percent of households who are not stunted is 87 percent while it is 73 percent among the poorest 20 percent, a gap of 13 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Armenia

*Insights from Disaggregating the Human Capital Index*

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Armenia was ranked 78 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Armenia, the productivity as a future worker of a child born today in the richest 20 percent of households is 77 percent while it is 66 percent for a child born in the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Armenia, the probability of survival of a child born today in the richest 20 percent of households is 100 percent while it is 99 percent for a child born in the poorest 20 percent, a gap of 1 percentage point. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Armenia, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.7 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 11.3 years of school, a gap of .5 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Armenia score 483 while those from the poorest 20 percent score 417, a gap of 67 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Armenia, the percentage of children in the top 20 percent of households who are not stunted is 94 percent while it is 88 percent among the poorest 20 percent, a gap of 6 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

* #investinPeople
Azerbaijan

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Azerbaijan was ranked 69 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

• **SES-Disaggregated Human Capital Index (SES-HCI).** In Azerbaijan, the productivity as a future worker of a child born today in the richest 20 percent of households is 65 percent while it is 54 percent for a child born in the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

• **Probability of Survival to Age 5.** In Azerbaijan, the probability of survival of a child born today in the richest 20 percent of households is 96 percent while it is 94 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

• **Expected Years of School.** In Azerbaijan, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 10.1 years of school, a gap of 1 year of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

• **Harmonized Test Scores.** Students from the richest 20 percent of households in Azerbaijan score 441 while those from the poorest 20 percent score 410, a gap of 31 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

• **Healthy Growth (Not Stunted Rate).** In Azerbaijan, the percentage of children in the top 20 percent of households who are not stunted is 84 percent while it is 67 percent among the poorest 20 percent, a gap of 17 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
INSIGHTS FROM DISAGGREGATING THE HUMAN CAPITAL INDEX

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Benin was ranked 127 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Benin, the productivity as a future worker of a child born today in the richest 20 percent of households is 59 percent while it is 37 percent for a child born in the poorest 20 percent, a gap of 22 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Benin, the probability of survival of a child born today in the richest 20 percent of households is 93 percent while it is 86 percent for a child born in the poorest 20 percent, a gap of 7 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Benin, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.6 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 5.6 years of school, a gap of 4.9 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Benin score 423 while those from the poorest 20 percent score 365, a gap of 59 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is about the same as the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Benin, the percentage of children in the top 20 percent of households who are not stunted is 82 percent while it is 54 percent among the poorest 20 percent, a gap of 28 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)
Burkina Faso

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Burkina Faso was ranked 144 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Burkina Faso, the productivity as a future worker of a child born today in the richest 20 percent of households is 52 percent while it is 32 percent for a child born in the poorest 20 percent, a gap of 20 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Burkina Faso, the probability of survival of a child born today in the richest 20 percent of households is 90 percent while it is 83 percent for a child born in the poorest 20 percent, a gap of 8 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Burkina Faso, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 8.5 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 2.9 years of school, a gap of 5.6 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Burkina Faso score 421 while those from the poorest 20 percent score 390, a gap of 30 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (35 points).

- **Healthy Growth (Not Stunted Rate).** In Burkina Faso, the percentage of children in the top 20 percent of households who are not stunted is 82 percent while it is 58 percent among the poorest 20 percent, a gap of 25 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Burundi was ranked 138 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- SES-Disaggregated Human Capital Index (SES-HCI). In Burundi, the productivity as a future worker of a child born today in the richest 20 percent of households is 51 percent while it is 37 percent for a child born in the poorest 20 percent, a gap of 14 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- Probability of Survival to Age 5. In Burundi, the probability of survival of a child born today in the richest 20 percent of households is 92 percent while it is 85 percent for a child born in the poorest 20 percent, a gap of 7 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- Expected Years of School. In Burundi, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 7.1 years of school, a gap of 2.3 years of school. This gap is about the same as the typical gap across the 50 countries (2.4 years).

- Harmonized Test Scores. Students from the richest 20 percent of households in Burundi score 430 while those from the poorest 20 percent score 422, a gap of 8 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- Healthy Growth (Not Stunted Rate). In Burundi, the percentage of children in the top 20 percent of households who are not stunted is 59 percent while it is 31 percent among the poorest 20 percent, a gap of 28 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Cameroon

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Cameroon was ranked 132 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

• **SES-Disaggregated Human Capital Index (SES-HCI).** In Cameroon, the productivity as a future worker of a child born today in the richest 20 percent of households is **63 percent** while it is **38 percent** for a child born in the poorest 20 percent, a gap of **26 percentage points**. This gap is larger than the typical gap across the 50 countries (15 percentage points).

• **Probability of Survival to Age 5.** In Cameroon, the probability of survival of a child born today in the richest 20 percent of households is **94 percent** while it is **83 percent** for a child born in the poorest 20 percent, a gap of **12 percentage points**. This gap is larger than the typical gap across the 50 countries (4 percentage points).

• **Expected Years of School.** In Cameroon, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.4 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **7.4 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

• **Harmonized Test Scores.** Students from the richest 20 percent of households in Cameroon score **418** while those from the poorest 20 percent score **336**, a gap of **82 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

• **Healthy Growth (Not Stunted Rate).** In Cameroon, the percentage of children in the top 20 percent of households who are not stunted is **86 percent** while it is **58 percent** among the poorest 20 percent, a gap of **27 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject
Chad

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Chad was ranked 157 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Chad, the productivity as a future worker of a child born today in the richest 20 percent of households is **45 percent** while it is **35 percent** for a child born in the poorest 20 percent, a gap of **11 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Chad, the probability of survival of a child born today in the richest 20 percent of households is **86 percent** while it is **84 percent** for a child born in the poorest 20 percent, a gap of **2 percentage points**. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Chad, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **9.4 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **5.4 years** of school, a gap of **4 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Chad score **357** while those from the poorest 20 percent score **322**, a gap of **35 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Chad, the percentage of children in the top 20 percent of households who are not stunted is **68 percent** while it is **59 percent** among the poorest 20 percent, a gap of **9 percentage points**. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Colombia

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Colombia was ranked 70 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

### How Do Human Capital Outcomes Differ by Socioeconomic Status?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Colombia, the productivity as a future worker of a child born today in the richest 20 percent of households is 69 percent while it is 53 percent for a child born in the poorest 20 percent, a gap of 16 percentage points. This gap is slightly larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Colombia, the probability of survival of a child born today in the richest 20 percent of households is 99 percent while it is 97 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Colombia, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.5 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9 years of school, a gap of 1.5 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Colombia score 464 while those from the poorest 20 percent score 366, a gap of 98 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Colombia, the percentage of children in the top 20 percent of households who are not stunted is 98 percent while it is 80 percent among the poorest 20 percent, a gap of 18 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)
Comoros

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Comoros was ranked 123 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

How do human capital outcomes differ by socioeconomic status?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the Comoros, the productivity as a future worker of a child born today in the richest 20 percent of households is 49 percent while it is 35 percent for a child born in the poorest 20 percent, a gap of 14 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the Comoros, the probability of survival of a child born today in the richest 20 percent of households is 91 percent while it is 87 percent for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is slightly larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the Comoros, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 4.6 years of school, a gap of 4.4 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the Comoros score 408 while those from the poorest 20 percent score 376, a gap of 33 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In the Comoros, the percentage of children in the top 20 percent of households who are not stunted is 61 percent while it is 50 percent among the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
The Democratic Republic of Congo

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. The Democratic Republic of Congo was ranked 146 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the Democratic Republic of Congo, the productivity of a future worker of a child born today in the richest 20 percent of households is **52 percent** while it is **40 percent** for a child born in the poorest 20 percent, a gap of **12 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the Democratic Republic of Congo, the probability of survival of a child born today in the richest 20 percent of households is **92 percent** while it is **88 percent** for a child born in the poorest 20 percent, a gap of **4 percentage points**. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the Democratic Republic of Congo, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.8 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **8.9 years** of school, a gap of **1.9 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the Democratic Republic of Congo score **326** while those from the poorest 20 percent score **311**, a gap of **16 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In the Democratic Republic of Congo, the percentage of children in the top 20 percent of households who are not stunted is **79 percent** while it is **50 percent** among the poorest 20 percent, a gap of **30 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The Republic of Congo

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. The Republic of Congo was ranked 120 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the Republic of Congo, the productivity as a future worker of a child born today in the richest 20 percent of households is **65 percent** while it is **49 percent** for a child born in the poorest 20 percent, a gap of 16 percentage points. This gap is about the same as the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the Republic of Congo, the probability of survival of a child born today in the richest 20 percent of households is **97 percent** while it is **92 percent** for a child born in the poorest 20 percent, a gap of 5 percentage points. This gap is slightly larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the Republic of Congo, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.7 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **10.1 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the Republic of Congo score **410** while those from the poorest 20 percent score **343**, a gap of **67 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (35 points).

- **Healthy Growth (Not Stunted Rate).** In the Republic of Congo, the percentage of children in the top 20 percent of households who are not stunted is **86 percent** while it is **70 percent** among the poorest 20 percent, a gap of 16 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Côte d’Ivoire

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Côte d’Ivoire was ranked 149 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Côte d’Ivoire, the productivity as a future worker of a child born today in the richest 20 percent of households is 58 percent while it is 40 percent for a child born in the poorest 20 percent, a gap of 18 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Côte d’Ivoire, the probability of survival of a child born today in the richest 20 percent of households is 93 percent while it is 88 percent for a child born in the poorest 20 percent, a gap of 5 percentage points. This gap is slightly larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Côte d’Ivoire, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 6.2 years of school, a gap of 3.8 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Côte d’Ivoire score 400 while those from the poorest 20 percent score 350, a gap of 50 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Côte d’Ivoire, the percentage of children in the top 20 percent of households who are not stunted is 91 percent while it is 70 percent among the poorest 20 percent, a gap of 21 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Dominican Republic

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Dominican Republic was ranked 101 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Dominican Republic, the productivity as a future worker of a child born today in the richest 20 percent of households is 66 percent while it is 53 percent for a child born in the poorest 20 percent, a gap of 13 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Dominican Republic, the probability of survival of a child born today in the richest 20 percent of households is 98 percent while it is 96 percent for a child born in the poorest 20 percent, a gap of 3 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Dominican Republic, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.9 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Dominican Republic score 398 while those from the poorest 20 percent score 322, a gap of 75 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (35 points).

- **Healthy Growth (Not Stunted Rate).** In Dominican Republic, the percentage of children in the top 20 percent of households who are not stunted is 96 percent while it is 89 percent among the poorest 20 percent, a gap of 7 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject) #investinPeople
The Arabic Republic of Egypt
Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. The Arabic Republic of Egypt was ranked 104 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the Arabic Republic of Egypt, the productivity as a future worker of a child born today in the richest 20 percent of households is **63 percent** while it is **50 percent** for a child born in the poorest 20 percent, a gap of **13 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the Arabic Republic of Egypt, the probability of survival of a child born today in the richest 20 percent of households is **98 percent** while it is **96 percent** for a child born in the poorest 20 percent, a gap of **2 percentage points**. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the Arabic Republic of Egypt, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.2 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **10 years** of school, a gap of **1.2 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the Arabic Republic of Egypt score **417** while those from the poorest 20 percent score **301**, a gap of **116 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In the Arabic Republic of Egypt, the percentage of children in the top 20 percent of households who are not stunted is **77 percent** while it is **76 percent** among the poorest 20 percent, a gap of 1 percentage point. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. El Salvador was ranked 97 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

**El Salvador**

*Insights from Disaggregating the Human Capital Index*

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople

---

**El Salvador**

*Insights from Disaggregating the Human Capital Index*

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. El Salvador was ranked 97 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In El Salvador, the productivity as a future worker of a child born today in the richest 20 percent of households is **64 percent** while it is **50 percent** for a child born in the poorest 20 percent, a gap of **14 percentage points.** This gap is slightly smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In El Salvador, the probability of survival of a child born today in the richest 20 percent of households is **99 percent** while it is **97 percent** for a child born in the poorest 20 percent, a gap of **2 percentage points.** This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In El Salvador, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.7 years** by her 18th birthday while a child from the poorest 20 percent can expect to complete **8.7 years** of school, a gap of **1.9 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in El Salvador score **403** while those from the poorest 20 percent score **344**, a gap of **59 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is about the same as the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In El Salvador, the percentage of children in the top 20 percent of households who are not stunted is **95 percent** while it is **76 percent** among the poorest 20 percent, a gap of **18 percentage points.** This gap is slightly smaller than the typical gap across the 50 countries (19 percentage points).
Eswatini

**Insights from Disaggregating the Human Capital Index**

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Eswatini was ranked 124 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Eswatini, the productivity as a future worker of a child born today in the richest 20 percent of households is **66 percent** while it is **55 percent** for a child born in the poorest 20 percent, a gap of 11 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Eswatini, the probability of survival of a child born today in the richest 20 percent of households is **95 percent** while it is **90 percent** for a child born in the poorest 20 percent, a gap of 5 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Eswatini, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.2 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **11 years** of school, a gap of 0.2 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Eswatini score **436** while those from the poorest 20 percent score **408**, a gap of **28 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Eswatini, the percentage of children in the top 20 percent of households who are not stunted is **91 percent** while it is **70 percent** among the poorest 20 percent, a gap of 21 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Ethiopia

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Ethiopia was ranked 135 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Ethiopia, the productivity as a future worker of a child born today in the richest 20 percent of households is 52 percent while it is 39 percent for a child born in the poorest 20 percent, a gap of 13 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Ethiopia, the probability of survival of a child born today in the richest 20 percent of households is 93 percent while it is 91 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Ethiopia, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.3 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 5.9 years of school, a gap of 3.4 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Ethiopia score 388 while those from the poorest 20 percent score 347, a gap of 41 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (35 points).

- **Healthy Growth (Not Stunted Rate).** In Ethiopia, the percentage of children in the top 20 percent of households who are not stunted is 73 percent while it is 55 percent among the poorest 20 percent, a gap of 20 percentage points. This gap is slightly larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Gabon

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Gabon was ranked 110 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Gabon, the productivity as a future worker of a child born today in the richest 20 percent of households is **71 percent** while it is **57 percent** for a child born in the poorest 20 percent, a gap of **14 percentage points**. This gap is slightly smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Gabon, the probability of survival of a child born today in the richest 20 percent of households is **95 percent** while it is **92 percent** for a child born in the poorest 20 percent, a gap of **3 percentage points**. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Gabon, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.3 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **10.4 years** of school, a gap of **1 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Gabon score **474** while those from the poorest 20 percent score **434**, a gap of **40 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Gabon, the percentage of children in the top 20 percent of households who are not stunted is **95 percent** while it is **70 percent** among the poorest 20 percent, a gap of **24 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. The Gambia was ranked 130 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see _A Socioeconomic Disaggregation of the World Bank Human Capital Index_, by D’Souza, Gatti and Kraay (2019).

**How do human capital outcomes differ by socioeconomic status?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the Gambia, the productivity as a future worker of a child born today in the richest 20 percent of households is **56 percent** while it is **42 percent** for a child born in the poorest 20 percent, a gap of **14 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the Gambia, the probability of survival of a child born today in the richest 20 percent of households is **97 percent** while it is **93 percent** for a child born in the poorest 20 percent, a gap of **4 percentage points**. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the Gambia, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **9 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **6.3 years** of school, a gap of **2.7 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the Gambia score **402** while those from the poorest 20 percent score **332**, a gap of **71 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In the Gambia, the percentage of children in the top 20 percent of households who are not stunted is **85 percent** while it is **72 percent** among the poorest 20 percent, a gap of **13 percentage points**. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Ghana was ranked 116 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

### HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Ghana, the productivity as a future worker of a child born today in the richest 20 percent of households is **50 percent** while it is **43 percent** for a child born in the poorest 20 percent, a gap of 7 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Ghana, the probability of survival of a child born today in the richest 20 percent of households is **94 percent** while it is **91 percent** for a child born in the poorest 20 percent, a gap of 3 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Ghana, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **8.7 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **7.4 years** of school, a gap of **1.3 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Ghana score **317** while those from the poorest 20 percent score **307**, a gap of **9 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Ghana, the percentage of children in the top 20 percent of households who are not stunted is **92 percent** while it is **75 percent** among the poorest 20 percent, a gap of 17 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Guatemala

*Insights from Disaggregating the Human Capital Index*

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Guatemala was ranked 109 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**How do human capital outcomes differ by socioeconomic status?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Guatemala, the productivity as a future worker of a child born today in the richest 20 percent of households is 62 percent while it is 40 percent for a child born in the poorest 20 percent, a gap of 22 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Guatemala, the probability of survival of a child born today in the richest 20 percent of households is 98 percent while it is 94 percent for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Guatemala, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.8 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 6.8 years of school, a gap of 3 years. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Guatemala score 449 while those from the poorest 20 percent score 377, a gap of 72 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Guatemala, the percentage of children in the top 20 percent of households who are not stunted is 82 percent while it is 34 percent among the poorest 20 percent, a gap of 48 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Haiti was ranked 112 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Haiti, the productivity as a future worker of a child born today in the richest 20 percent of households is 58 percent while it is 45 percent for a child born in the poorest 20 percent, a gap of 13 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Haiti, the probability of survival of a child born today in the richest 20 percent of households is 94 percent while it is 90 percent for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Haiti, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.1 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9 years of school, a gap of 2.1 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Haiti score 351 while those from the poorest 20 percent score 331, a gap of 20 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Haiti, the percentage of children in the top 20 percent of households who are not stunted is 94 percent while it is 70 percent among the poorest 20 percent, a gap of 24 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Honduras
Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Honduras was ranked 103 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Honduras, the productivity as a future worker of a child born today in the richest 20 percent of households is **64 percent** while it is **44 percent** for a child born in the poorest 20 percent, a gap of **20 percentage points**. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Honduras, the probability of survival of a child born today in the richest 20 percent of households is **98 percent** while it is **96 percent** for a child born in the poorest 20 percent, a gap of **2 percentage points**. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Honduras, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.3 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **6.8 years of school**, a gap of **3.5 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Honduras score **430** while those from the poorest 20 percent score **374**, a gap of **56 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is about the same as the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Honduras, the percentage of children in the top 20 percent of households who are not stunted is **93 percent** while it is **58 percent** among the poorest 20 percent, a gap of **35 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. India was ranked 115 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In India, the productivity as a future worker of a child born today in the richest 20 percent of households is **61 percent** while it is **44 percent** for a child born in the poorest 20 percent, a gap of 17 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In India, the probability of survival of a child born today in the richest 20 percent of households is **98 percent** while it is **92 percent** for a child born in the poorest 20 percent, a gap of 5 percentage points. This gap is slightly larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In India, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.7 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **9.3 years** of school, a gap of **2.4 years** of school. This gap is about the same as the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in India score **383** while those from the poorest 20 percent score **335**, a gap of **48 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In India, the percentage of children in the top 20 percent of households who are not stunted is **78 percent** while it is **49 percent** among the poorest 20 percent, a gap of **29 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Jordan was ranked 79 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Jordan, the productivity as a future worker of a child born today in the richest 20 percent of households is 74 percent while it is 60 percent for a child born in the poorest 20 percent, a gap of 14 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Jordan, the probability of survival of a child born today in the richest 20 percent of households is 99 percent while it is 97 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Jordan, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.7 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 10.7 years of school, a gap of 1 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Jordan score 448 while those from the poorest 20 percent score 384, a gap of 64 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Jordan, the percentage of children in the top 20 percent of households who are not stunted is 98 percent while it is 86 percent among the poorest 20 percent, a gap of 12 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Kazakhstan

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Kazakhstan was ranked 31 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

• SES-Disaggregated Human Capital Index (SES-HCI). In Kazakhstan, the productivity as a future worker of a child born today in the richest 20 percent of households is **64 percent** while it is **53 percent** for a child born in the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

• Probability of Survival to Age 5. In Kazakhstan, the probability of survival of a child born today in the richest 20 percent of households is **96 percent** while it is **92 percent** for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

• Expected Years of School. In Kazakhstan, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.4 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **10 years** of school, a gap of 0.4 years. This gap is smaller than the typical gap across the 50 countries (2.4 years).

• Harmonized Test Scores. Students from the richest 20 percent of households in Kazakhstan score **452** while those from the poorest 20 percent score **371**, a gap of **81 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

• Healthy Growth (Not Stunted Rate). In Kazakhstan, the percentage of children in the top 20 percent of households who are not stunted is **90 percent** while it is **81 percent** among the poorest 20 percent, a gap of 9 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Insights from Disaggregating the Human Capital Index

Kenya

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Kenya was ranked 94 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Kenya, the productivity as a future worker of a child born today in the richest 20 percent of households is 66 percent while it is 50 percent for a child born in the poorest 20 percent, a gap of 16 percentage points. This gap is slightly larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Kenya, the probability of survival of a child born today in the richest 20 percent of households is 95 percent while it is 94 percent for a child born in the poorest 20 percent, a gap of 1 percentage point. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Kenya, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.7 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 8.5 years of school, a gap of 2.2 years of school. This gap is about the same as the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Kenya score 467 while those from the poorest 20 percent score 404, a gap of 62 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Kenya, the percentage of children in the top 20 percent of households who are not stunted is 86 percent while it is 64 percent among the poorest 20 percent, a gap of 22 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Kyrgyz Republic

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Kyrgyz Republic was ranked 76 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

### HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the Kyrgyz Republic, the productivity as a future worker of a child born today in the richest 20 percent of households is **62 percent** while it is **52 percent** for a child born in the poorest 20 percent, a gap of **10 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the Kyrgyz Republic, the probability of survival of a child born today in the richest 20 percent of households is **99 percent** while it is **96 percent** for a child born in the poorest 20 percent, a gap of **3 percentage points**. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the Kyrgyz Republic, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.6 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **10.7 years** of school, a gap of **0 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the Kyrgyz Republic score **390** while those from the poorest 20 percent score **296**, a gap of **94 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (35 points).

- **Healthy Growth (Not Stunted Rate).** In the Kyrgyz Republic, the percentage of children in the top 20 percent of households who are not stunted is **89 percent** while it is **82 percent** among the poorest 20 percent, a gap of **7 percentage points**. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Lesotho

*Insights from Disaggregating the Human Capital Index*

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Lesotho was ranked 143 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Lesotho, the productivity as a future worker of a child born today in the richest 20 percent of households is 59 percent while it is 46 percent for a child born in the poorest 20 percent, a gap of 13 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Lesotho, the probability of survival of a child born today in the richest 20 percent of households is 93 percent while it is 92 percent for a child born in the poorest 20 percent, a gap of 1 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Lesotho, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.2 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.5 years of school, a gap of 1.7 years across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Lesotho score 384 while those from the poorest 20 percent score 348, a gap of 37 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Lesotho, the percentage of children in the top 20 percent of households who are not stunted is 87 percent while it is 56 percent among the poorest 20 percent, a gap of 31 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
INSIGHTS FROM DISAGREGATING THE HUMAN CAPITAL INDEX

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Madagascar was ranked 140 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Madagascar, the productivity as a future worker of a child born today in the richest 20 percent of households is 58 percent while it is 41 percent for a child born in the poorest 20 percent, a gap of 18 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Madagascar, the probability of survival of a child born today in the richest 20 percent of households is 95 percent while it is 89 percent for a child born in the poorest 20 percent, a gap of 6 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Madagascar, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 6.2 years of school, a gap of 4.2 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Madagascar score 467 while those from the poorest 20 percent score 427, a gap of 41 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Madagascar, the percentage of children in the top 20 percent of households who are not stunted is 56 percent while it is 52 percent among the poorest 20 percent, a gap of 4 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Malawi

*Insights from Disaggregating the Human Capital Index*

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Malawi was ranked 125 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Krany (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Malawi, the productivity as a future worker of a child born today in the richest 20 percent of households is 54 percent while it is 45 percent for a child born in the poorest 20 percent, a gap of 9 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Malawi, the probability of survival of a child born today in the richest 20 percent of households is 94 percent while it is 92 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Malawi, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.2 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.7 years of school, a gap of 1.5 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Malawi score 338 while those from the poorest 20 percent score 325, a gap of 13 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (53 points).

- **Healthy Growth (Not Stunted Rate).** In Malawi, the percentage of children in the top 20 percent of households who are not stunted is 77 percent while it is 55 percent among the poorest 20 percent, a gap of 22 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Mali

*Insights from Disaggregating the Human Capital Index*

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Mali was ranked 154 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Mali, the productivity as a future worker of a child born today in the richest 20 percent of households is 50 percent while it is 32 percent for a child born in the poorest 20 percent, a gap of 18 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Mali, the probability of survival of a child born today in the richest 20 percent of households is 95 percent while it is 88 percent for a child born in the poorest 20 percent, a gap of 6 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Mali, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 2.6 years of school, a gap of 6.8 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Mali score 313 while those from the poorest 20 percent score 309, a gap of 3 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Mali, the percentage of children in the top 20 percent of households who are not stunted is 85 percent while it is 60 percent among the poorest 20 percent, a gap of 25 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Moldova was ranked 75 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

### HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Moldova, the productivity as a future worker of a child born today in the richest 20 percent of households is **74 percent** while it is **61 percent** for a child born in the poorest 20 percent, a gap of **13 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Moldova, the probability of survival of a child born today in the richest 20 percent of households is **98 percent** while it is **97 percent** for a child born in the poorest 20 percent, a gap of 1 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Moldova, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.4 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **9 years** of school, a gap of **1.3 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Moldova score **530** while those from the poorest 20 percent score **472**, a gap of **58 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is about the same as the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Moldova, the percentage of children in the top 20 percent of households who are not stunted is **93 percent** while it is **85 percent** among the poorest 20 percent, a gap of **8 percentage points**. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)
Mozambique

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Mozambique was ranked 148 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

### How Do Human Capital Outcomes Differ by Socioeconomic Status?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Mozambique, the productivity as a future worker of a child born today in the richest 20 percent of households is **55 percent** while it is **37 percent** for a child born in the poorest 20 percent, a gap of **18 percentage points**. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Mozambique, the probability of survival of a child born today in the richest 20 percent of households is **91 percent** while it is **87 percent** for a child born in the poorest 20 percent, a gap of **4 percentage points**. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Mozambique, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.9 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **6.6 years** of school, a gap of **4.3 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Mozambique score **395** while those from the poorest 20 percent score **350**, a gap of **45 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Mozambique, the percentage of children in the top 20 percent of households who are not stunted is **76 percent** while it is **49 percent** among the poorest 20 percent, a gap of **27 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Myanmar

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Myanmar was ranked 107 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Myanmar, the productivity as a future worker of a child born today in the richest 20 percent of households is **62 percent** while it is **43 percent** for a child born in the poorest 20 percent, a gap of **20 percentage points**. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Myanmar, the probability of survival of a child born today in the richest 20 percent of households is **97 percent** while it is **90 percent** for a child born in the poorest 20 percent, a gap of **7 percentage points**. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Myanmar, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.1 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **6.7 years** of school, a gap of **3.4 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Myanmar score **438** while those from the poorest 20 percent score **396**, a gap of **42 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Myanmar, the percentage of children in the top 20 percent of households who are not stunted is **85 percent** while it is **63 percent** among the poorest 20 percent, a gap of **22 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Namibia

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Namibia was ranked 117 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’ Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Namibia, the productivity as a future worker of a child born today in the richest 20 percent of households is 65 percent while it is 49 percent for a child born in the poorest 20 percent, a gap of 16 percentage points. This gap is about the same as the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Namibia, the probability of survival of a child born today in the richest 20 percent of households is 97 percent while it is 93 percent for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Namibia, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.8 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.4 years of school, a gap of 1.4 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Namibia score 427 while those from the poorest 20 percent score 346, a gap of 81 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Namibia, the percentage of children in the top 20 percent of households who are not stunted is 90 percent while it is 71 percent among the poorest 20 percent, a gap of 20 percentage points. This gap is slightly larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Niger

**Insights from Disaggregating the Human Capital Index**

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Niger was ranked 153 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**How do human capital outcomes differ by socioeconomic status?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Niger, the productivity as a future worker of a child born today in the richest 20 percent of households is **41 percent** while it is **31 percent** for a child born in the poorest 20 percent, a gap of **11 percentage points**. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Niger, the probability of survival of a child born today in the richest 20 percent of households is **89 percent** while it is **86 percent** for a child born in the poorest 20 percent, a gap of **3 percentage points**. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Niger, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **7.5 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **2.6 years** of school, a gap of **5 years** of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Niger score **321** while those from the poorest 20 percent score **281**, a gap of **40 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Niger, the percentage of children in the top 20 percent of households who are not stunted is **66 percent** while it is **54 percent** among the poorest 20 percent, a gap of **12 percentage points**. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Paraguay was ranked 90 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Paraguay, the productivity as a future worker of a child born today in the richest 20 percent of households is 71 percent while it is 56 percent for a child born in the poorest 20 percent, a gap of 16 percentage points. This gap is about the same as the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Paraguay, the probability of survival of a child born today in the richest 20 percent of households is 100 percent while it is 97 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Paraguay, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.8 years of school, a gap of 1.7 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Paraguay score 429 while those from the poorest 20 percent score 359, a gap of 69 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (35 points).

- **Healthy Growth (Not Stunted Rate).** In Paraguay, the percentage of children in the top 20 percent of households who are not stunted is 99 percent while it is 87 percent among the poorest 20 percent, a gap of 12 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Peru was ranked 72 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

### HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Peru, the productivity as a future worker of a child born today in the richest 20 percent of households is 68 percent while it is 48 percent for a child born in the poorest 20 percent, a gap of 20 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Peru, the probability of survival of a child born today in the richest 20 percent of households is 96 percent while it is 92 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Peru, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.3 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.2 years of school, a gap of 1.1 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Peru score 464 while those from the poorest 20 percent score 348, a gap of 116 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Peru, the percentage of children in the top 20 percent of households who are not stunted is 96 percent while it is 61 percent among the poorest 20 percent, a gap of 35 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).
Senegal

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Senegal was ranked 121 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**How do human capital outcomes differ by socioeconomic status?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Senegal, the productivity as a future worker of a child born today in the richest 20 percent of households is 62 percent while it is 41 percent for a child born in the poorest 20 percent, a gap of 22 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Senegal, the probability of survival of a child born today in the richest 20 percent of households is 97 percent while it is 91 percent for a child born in the poorest 20 percent, a gap of 6 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Senegal, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.6 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 5.4 years of school, a gap of 4.3 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Senegal score 440 while those from the poorest 20 percent score 370, a gap of 71 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Senegal, the percentage of children in the top 20 percent of households who are not stunted is 91 percent while it is 72 percent among the poorest 20 percent, a gap of 20 percentage points. This gap is slightly larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Tajikistan

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Tajikistan was ranked 89 out of 157 countries in the global HCI. Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Tajikistan, the productivity as a future worker of a child born today in the richest 20 percent of households is 61 percent while it is 55 percent for a child born in the poorest 20 percent, a gap of 6 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Tajikistan, the probability of survival of a child born today in the richest 20 percent of households is 96 percent while it is 94 percent for a child born in the poorest 20 percent, a gap of 2 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Tajikistan, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.1 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9.7 years of school, a gap of 4 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Tajikistan score 449 while those from the poorest 20 percent score 428, a gap of 22 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Tajikistan, the percentage of children in the top 20 percent of households who are not stunted is 79 percent while it is 68 percent among the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Tanzania was ranked 128 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Tanzania, the productivity as a future worker of a child born today in the richest 20 percent of households is 54 percent while it is 39 percent for a child born in the poorest 20 percent, a gap of 15 percentage points. This gap is about the same as the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Tanzania, the probability of survival of a child born today in the richest 20 percent of households is 93 percent while it is 92 percent for a child born in the poorest 20 percent, a gap of 0 percentage points. This gap is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Tanzania, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.4 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 5.4 years of school, a gap of 3.9 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Tanzania score 407 while those from the poorest 20 percent score 331, a gap of 76 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Tanzania, the percentage of children in the top 20 percent of households who are not stunted is 81 percent while it is 61 percent among the poorest 20 percent, a gap of 20 percentage points. This gap is slightly larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Togo was ranked 122 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

### HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Togo, the productivity as a future worker of a child born today in the richest 20 percent of households is **63 percent** while it is **45 percent** for a child born in the poorest 20 percent, a gap of **18 percentage points**. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Togo, the probability of survival of a child born today in the richest 20 percent of households is **95 percent** while it is **88 percent** for a child born in the poorest 20 percent, a gap of **7 percentage points**. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Togo, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **10.6 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **8.9 years** of school, a gap of **1.8 years** of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Togo score **425** while those from the poorest 20 percent score **356**, a gap of **69 points** on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Togo, the percentage of children in the top 20 percent of households who are not stunted is **90 percent** while it is **67 percent** among the poorest 20 percent, a gap of **23 percentage points**. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Turkey

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Turkey was ranked 53 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Turkey, the productivity as a future worker of a child born today in the richest 20 percent of households is 77 percent while it is 49 percent for a child born in the poorest 20 percent, a gap of 29 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Turkey, the probability of survival of a child born today in the richest 20 percent of households is 98 percent while it is 92 percent for a child born in the poorest 20 percent, a gap of 6 percentage points. This gap is larger than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Turkey, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.1 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 7.9 years of school, a gap of 3.2 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Turkey score 521 while those from the poorest 20 percent score 426, a gap of 94 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Turkey, the percentage of children in the top 20 percent of households who are not stunted is 96 percent while it is 69 percent among the poorest 20 percent, a gap of 27 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Uganda was ranked 137 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Uganda, the productivity as a future worker of a child born today in the richest 20 percent of households is 55 percent while it is 45 percent for a child born in the poorest 20 percent, a gap of 10 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Uganda, the probability of survival of a child born today in the richest 20 percent of households is 95 percent while it is 91 percent for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Uganda, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 9.5 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 8.3 years of school, a gap of 1.2 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Uganda score 399 while those from the poorest 20 percent score 355, a gap of 44 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Uganda, the percentage of children in the top 20 percent of households who are not stunted is 83 percent while it is 67 percent among the poorest 20 percent, a gap of 16 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
Vietnam

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Vietnam was ranked 48 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see *A Socioeconomic Disaggregation of the World Bank Human Capital Index*, by D’Souza, Gatti and Kraay (2019).

**HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?**

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Vietnam, the productivity as a future worker of a child born today in the richest 20 percent of households is **85 percent** while it is **58 percent** for a child born in the poorest 20 percent, a gap of 27 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Vietnam, the probability of survival of a child born today in the richest 20 percent of households is **99 percent** while it is **96 percent** for a child born in the poorest 20 percent, a gap of 3 percentage points. This gap is slightly smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Vietnam, a child in the richest 20 percent of households who starts school at age 6 can expect to complete **11.6 years** of school by her 18th birthday while a child from the poorest 20 percent can expect to complete **9.6 years** of school, a gap of 2.1 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Vietnam score **560** while those from the poorest 20 percent score **487**, a gap of 73 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Vietnam, the percentage of children in the top 20 percent of households who are not stunted is **94 percent** while it is **59 percent** among the poorest 20 percent, a gap of 35 percentage points. This gap is larger than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit [www.worldbank.org/humancapitalproject](http://www.worldbank.org/humancapitalproject)

#investinPeople
West Bank and Gaza

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. West Bank and Gaza was ranked 82 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In the West Bank and Gaza, the productivity as a future worker of a child born today in the richest 20 percent of households is 72 percent while it is 61 percent for a child born in the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In the West Bank and Gaza, the probability of survival of a child born today in the richest 20 percent of households is 98 percent while it is 92 percent for a child born in the poorest 20 percent, a gap of 6 percentage points. This is smaller than the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In the West Bank and Gaza, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11.5 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 10.9 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in the West Bank and Gaza score 458 while those from the poorest 20 percent score 372, a gap of 86 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In the West Bank and Gaza, the percentage of children in the top 20 percent of households who are not stunted is 98 percent while it is 93 percent among the poorest 20 percent, a gap of 5 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people. For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Zambia

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Zambia was ranked 131 out of 157 countries in the global HCI. Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

- **SES-Disaggregated Human Capital Index (SES-HCI).** In Zambia, the productivity as a future worker of a child born today in the richest 20 percent of households is 50 percent while it is 39 percent for a child born in the poorest 20 percent, a gap of 11 percentage points. This gap is smaller than the typical gap across the 50 countries (15 percentage points).

- **Probability of Survival to Age 5.** In Zambia, the probability of survival of a child born today in the richest 20 percent of households is 94 percent while it is 90 percent for a child born in the poorest 20 percent, a gap of 4 percentage points. This gap is about the same as the typical gap across the 50 countries (4 percentage points).

- **Expected Years of School.** In Zambia, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 10.7 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 7.4 years of school. This gap is larger than the typical gap across the 50 countries (2.4 years).

- **Harmonized Test Scores.** Students from the richest 20 percent of households in Zambia score 313 while those from the poorest 20 percent score 310, a gap of 3 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is smaller than the typical gap across the 50 countries (55 points).

- **Healthy Growth (Not Stunted Rate).** In Zambia, the percentage of children in the top 20 percent of households who are not stunted is 71 percent while it is 53 percent among the poorest 20 percent, a gap of 19 percentage points. This gap is about the same as the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople
Zimbabwe

Insights from Disaggregating the Human Capital Index

The launch of the World Bank Human Capital Index (HCI) in October 2018 highlighted large gaps in human capital outcomes across 157 countries around the world. The global HCI shows how shortfalls in health and education among children today will reduce the productivity of the next generation of workers. Zimbabwe was ranked 114 out of 157 countries in the global HCI.

Gaps in human capital outcomes within countries across socioeconomic groups are large as well. This country profile documents these within-country gaps using a newly-developed version of the HCI disaggregated by socioeconomic status (SES-HCI). It presents data on key indicators of human capital outcomes among children (child survival, expected years of school, harmonized test scores, and the fraction of children under 5 who are not stunted), together with a version of the SES-HCI, for 50 low- and middle-income countries where data are available.

This version of the SES-HCI relies on the same general methodology as the global HCI, but uses different data sources in order to allow for this disaggregation, and so is not directly comparable with the global HCI. For details on the data and methodology of the SES-HCI, see A Socioeconomic Disaggregation of the World Bank Human Capital Index, by D’Souza, Gatti and Kraay (2019).

HOW DO HUMAN CAPITAL OUTCOMES DIFFER BY SOCIOECONOMIC STATUS?

• SES-Disaggregated Human Capital Index (SES-HCI). In Zimbabwe, the productivity as a future worker of a child born today in the richest 20 percent of households is 66 percent while it is 47 percent for a child born in the poorest 20 percent, a gap of 19 percentage points. This gap is larger than the typical gap across the 50 countries (15 percentage points).

• Probability of Survival to Age 5. In Zimbabwe, the probability of survival of a child born today in the richest 20 percent of households is 95 percent while it is 90 percent for a child born in the poorest 20 percent, a gap of 5 percentage points. This gap is slightly larger than the typical gap across the 50 countries (4 percentage points).

• Expected Years of School. In Zimbabwe, a child in the richest 20 percent of households who starts school at age 6 can expect to complete 11 years of school by her 18th birthday while a child from the poorest 20 percent can expect to complete 9 years of school, a gap of 1.9 years of school. This gap is smaller than the typical gap across the 50 countries (2.4 years).

• Harmonized Test Scores. Students from the richest 20 percent of households in Zimbabwe score 462 while those from the poorest 20 percent score 369, a gap of 94 points on a scale that ranges from 300 (minimal attainment) to 625 (high attainment). This gap is larger than the typical gap across the 50 countries (55 points).

• Healthy Growth (Not Stunted). In Zimbabwe, the percentage of children in the top 20 percent of households who are not stunted is 85 percent while it is 68 percent among the poorest 20 percent, a gap of 17 percentage points. This gap is smaller than the typical gap across the 50 countries (19 percentage points).

The Human Capital Project is a global effort to accelerate the amount and quality of investments in people.

For more information on the Human Capital Project, please visit www.worldbank.org/humancapitalproject

#investinPeople