

# Sustainability, infrastructure and resilience in the era of the SDGs



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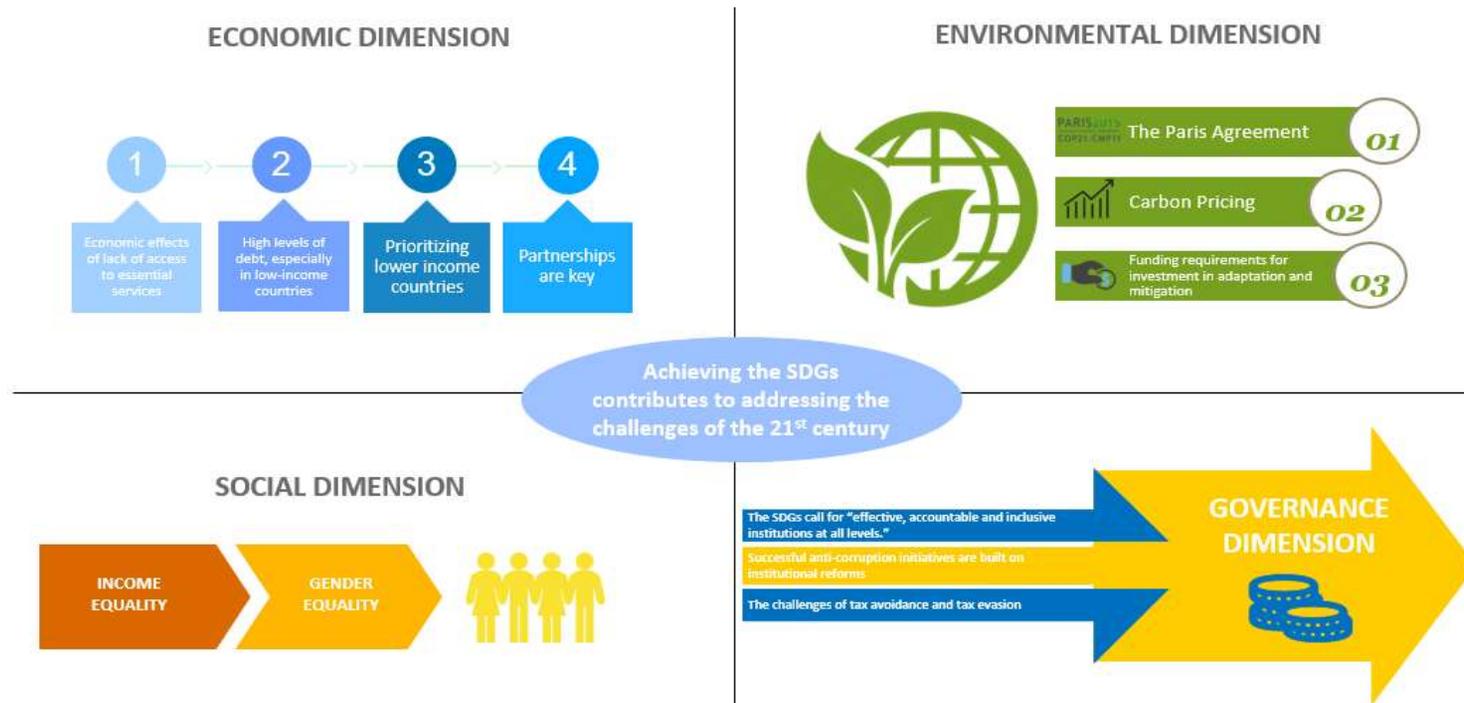


# The global development agenda: The MDGs to the SDGs



|                | MDGs (2000-2015)     | SDGs (2016-2030)                          |
|----------------|----------------------|---|
| Goals          | 8                    | 17  |
| Targets        | 21                   | 169                                       |
| Indicators     | 60                   | ~230                                      |
| Priority Areas | Human Development    | Holistic: Economic, Social, Environmental |
| Scope          | Developing Countries | Universal                                 |

# The Sustainable Development Goals



Source: International Monetary Fund, 2018

# The evolution of sustainability

Charity

Obligations

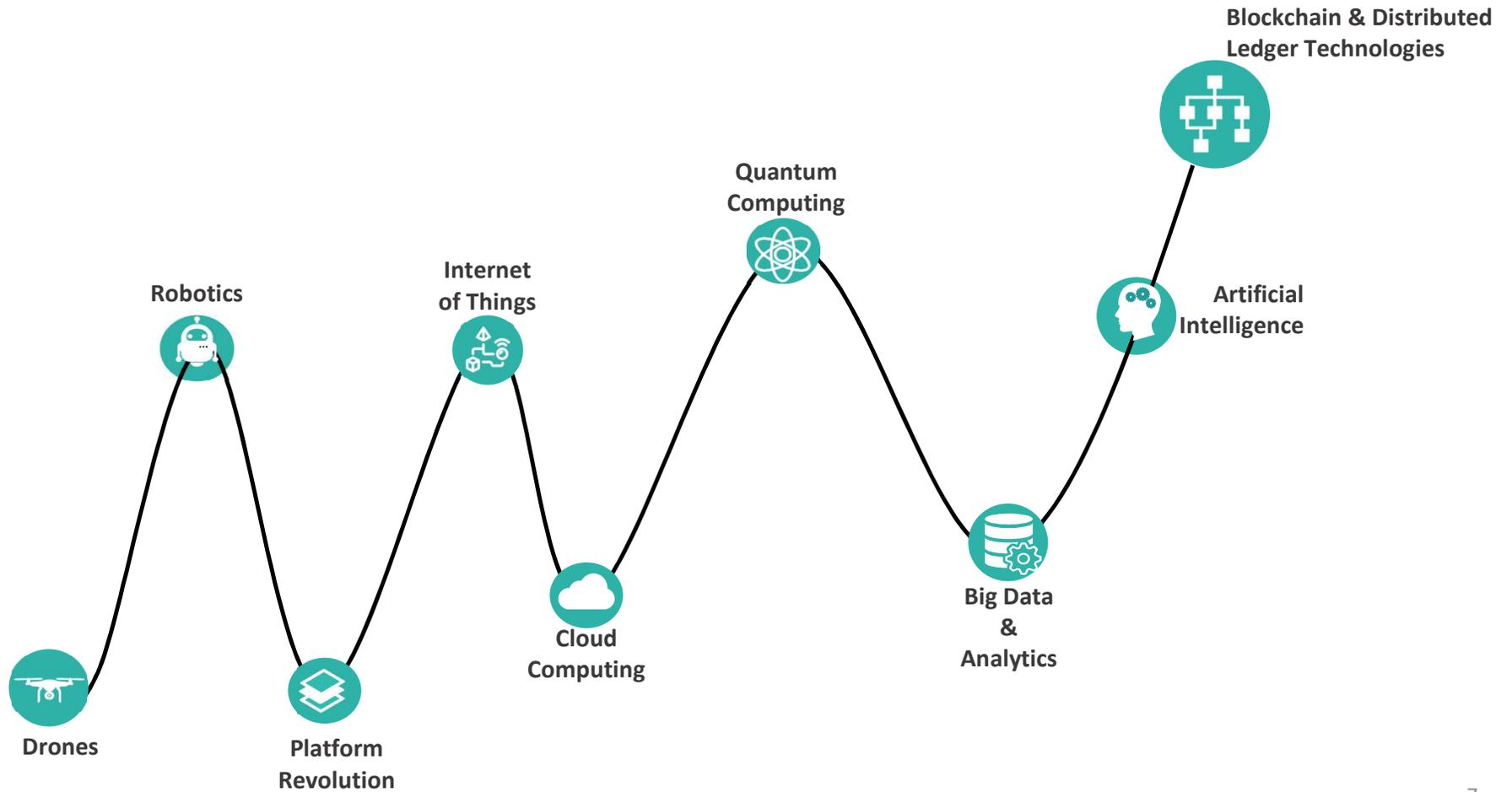
Corporate Social Responsibility (CSR)

Sustainability

# Global megatrends



# Disruptive technology



# Big Data: opportunities and risks



Gain real-time insights into people's well-being and target development interventions to vulnerable groups



Enable more agile, efficient and evidence-based decision making that is inclusive and fair



Shed light on disparities in society that were previously hidden

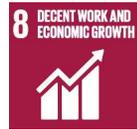


May impede data sovereignty and individual rights without sufficient data protection measures



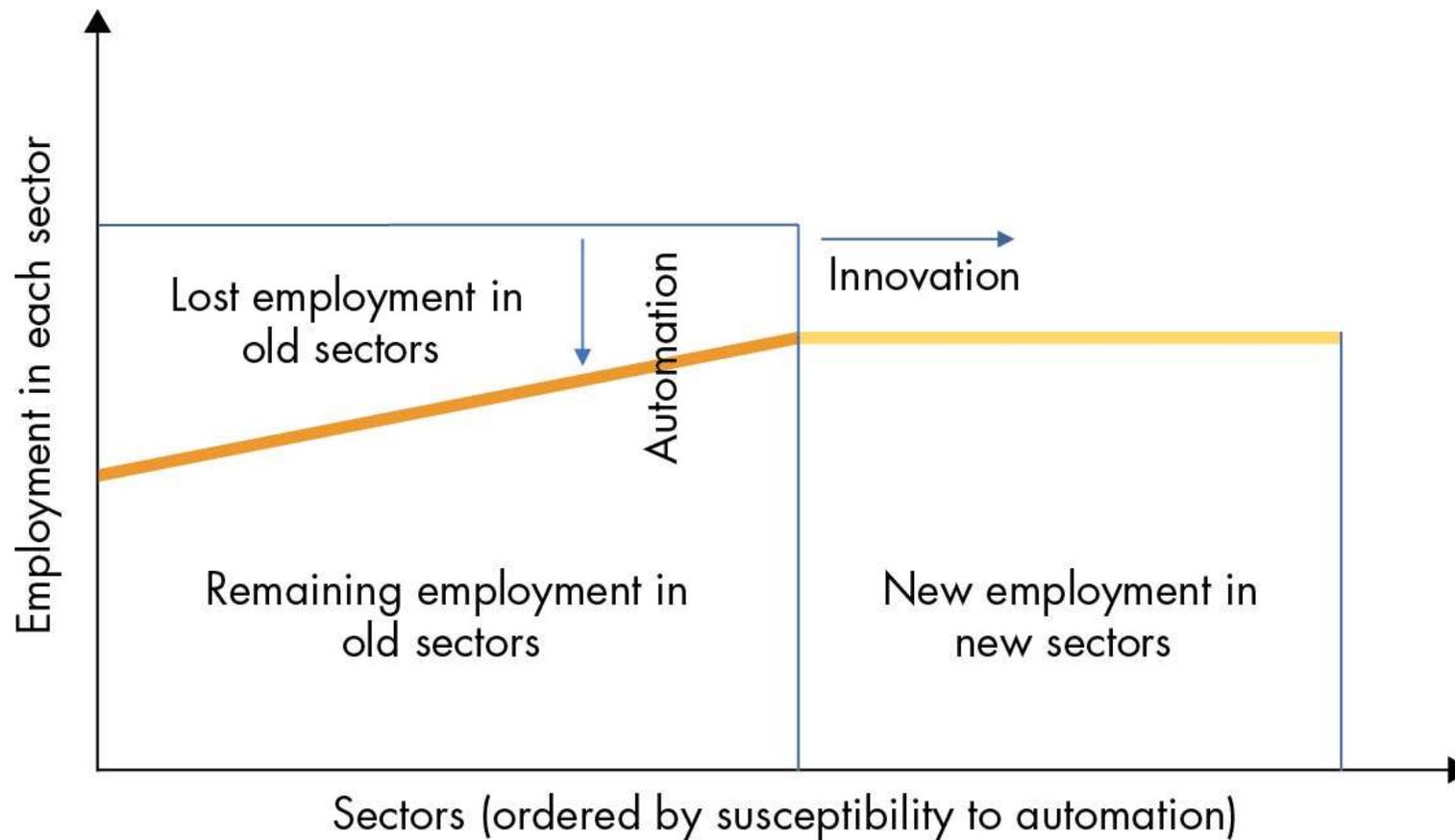
Possible increases in inequality between the data 'haves' and 'have nots'

# Using Big Data to track the SDGs

|  |  |   |   |   |   |
|--|--|---|---|---|---|
|    | <p>Spending patterns on mobile phone services can provide proxy indicators of income levels</p>                                      |    | <p>Smart metering allows utility companies to increase or restrict the flow of electricity, gas or water to reduce waste and ensure adequate supply at peak periods</p> |    | <p>Combining satellite imagery, crowd-sourced witness accounts and open data can help track deforestation</p>   |
|    | <p>Crowdsourcing or tracking of food prices listed online can help monitor food security in near real-time</p>                       |    | <p>Patterns in global postal traffic can provide indicators such as economic growth, remittances, trade and GDP</p>   |    | <p>Maritime vessel tracking data can reveal illegal, unregulated and unreported fishing activities</p>  |
|    | <p>Mapping the movement of mobile phone users can help predict the spread of infectious diseases</p>                                 |    | <p>Data from GPS devices can be used for traffic control and to improve public transport</p>  |    | <p>Social media monitoring can support disaster management with real-time information on victim location, effects and strength of forest fires or haze</p>            |
|    | <p>Citizen reporting can reveal reasons for student drop-out rates</p>   |    | <p>Speech-to-text analytics on local radio content can reveal discrimination concerns and support policy response</p>   |   | <p>Sentiment analysis of social media can reveal public opinion on effective governance, public service delivery or human rights</p>                                  |
|   | <p>Analysis of financial transactions can reveal the spending patterns and different impacts of economic shocks on men and women</p> |   | <p>Satellite remote sensing can track encroachment on public land or spaces such as parks and forests</p>   |  | <p>Partnerships to enable the combining of statistics, mobile and internet data can provide a better and real-time understanding of today's hyper-connected world</p> |
|  | <p>Sensors connected to water pumps can track access to clean water</p>  |  | <p>Online search patterns or e-commerce transactions can reveal the pace of transition to energy efficient products</p>   |   |   |

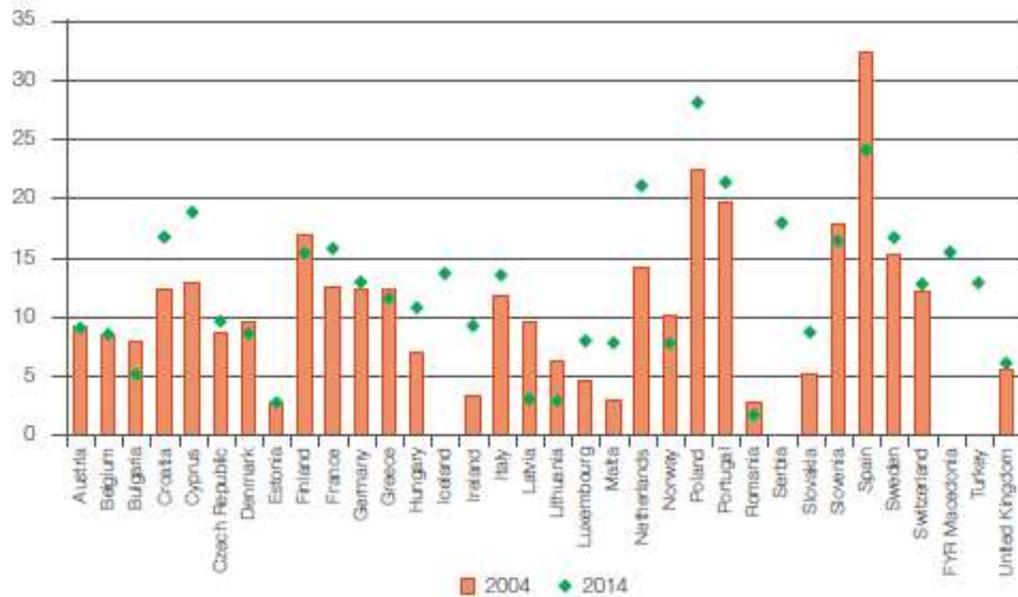
# The changing nature of work

Job creation as a result of competing forces in technology



# The changing nature of work

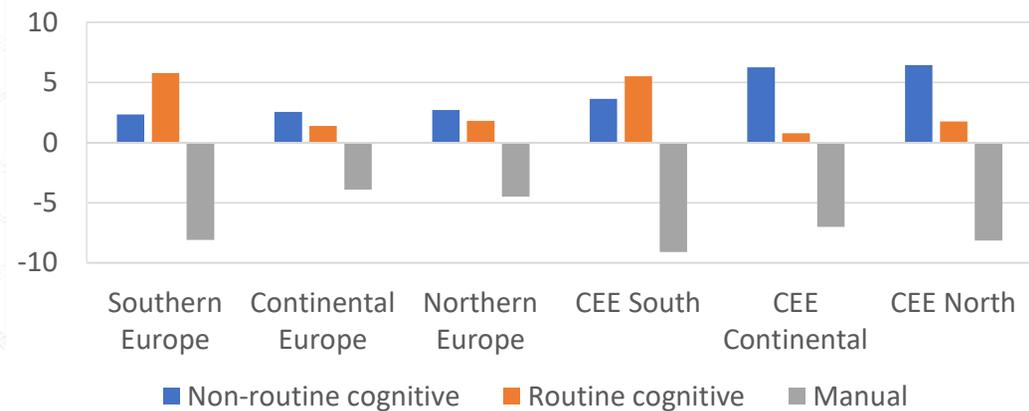
**What is changing?  
Diversification of jobs**



Source: OECD, 2018

**What is changing?  
Skills demand**

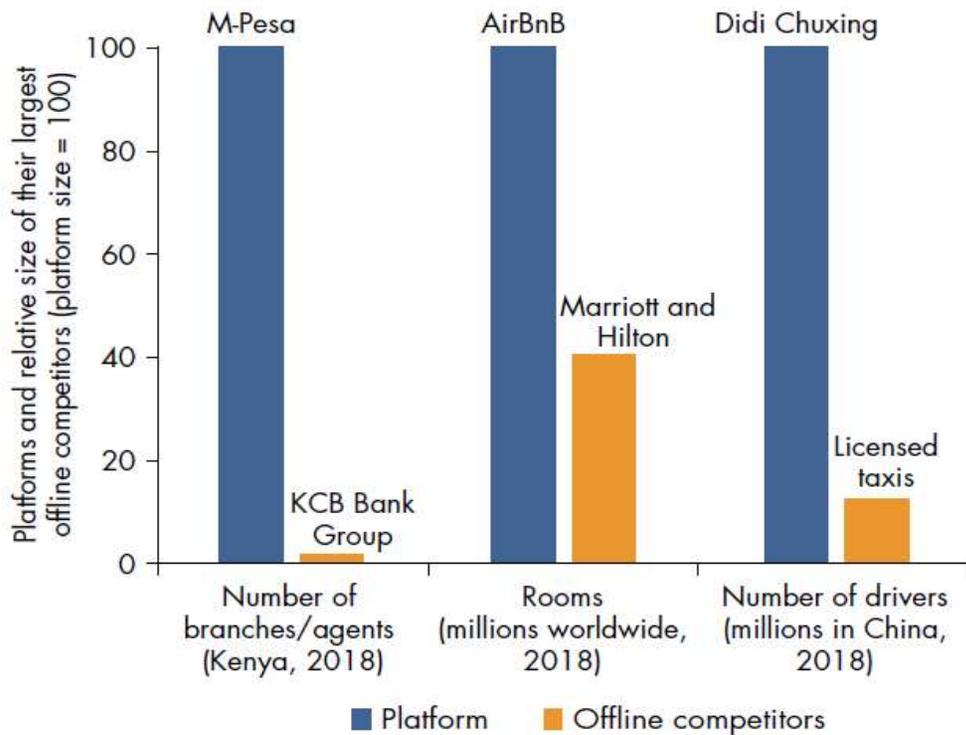
**Percentage point changes in share of workers in each job type, 1998-2014**



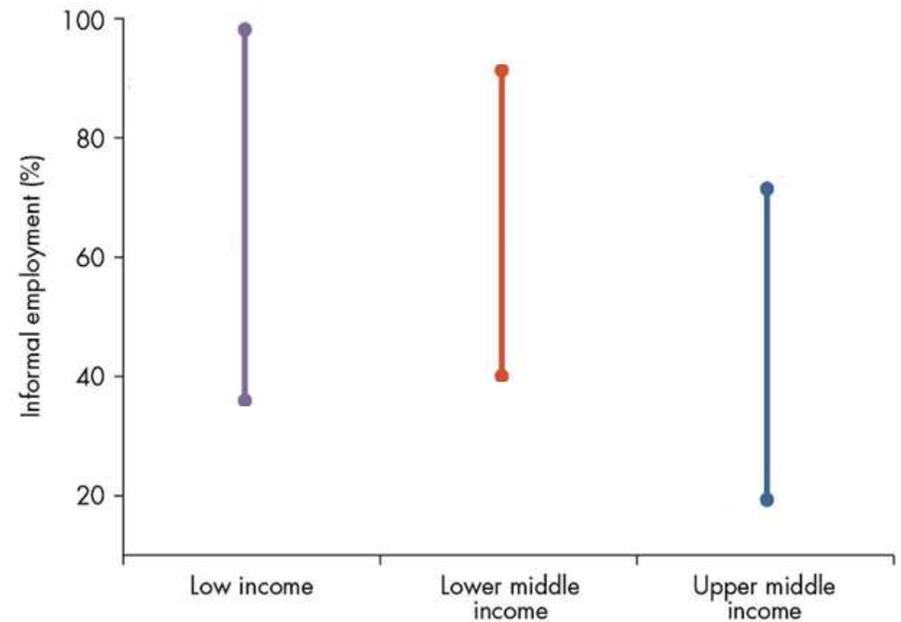
Source: Ridao-Cano and Bodewig, 2018

# The changing nature of work

What is changing? Scale without mass



What is NOT changing? Informality

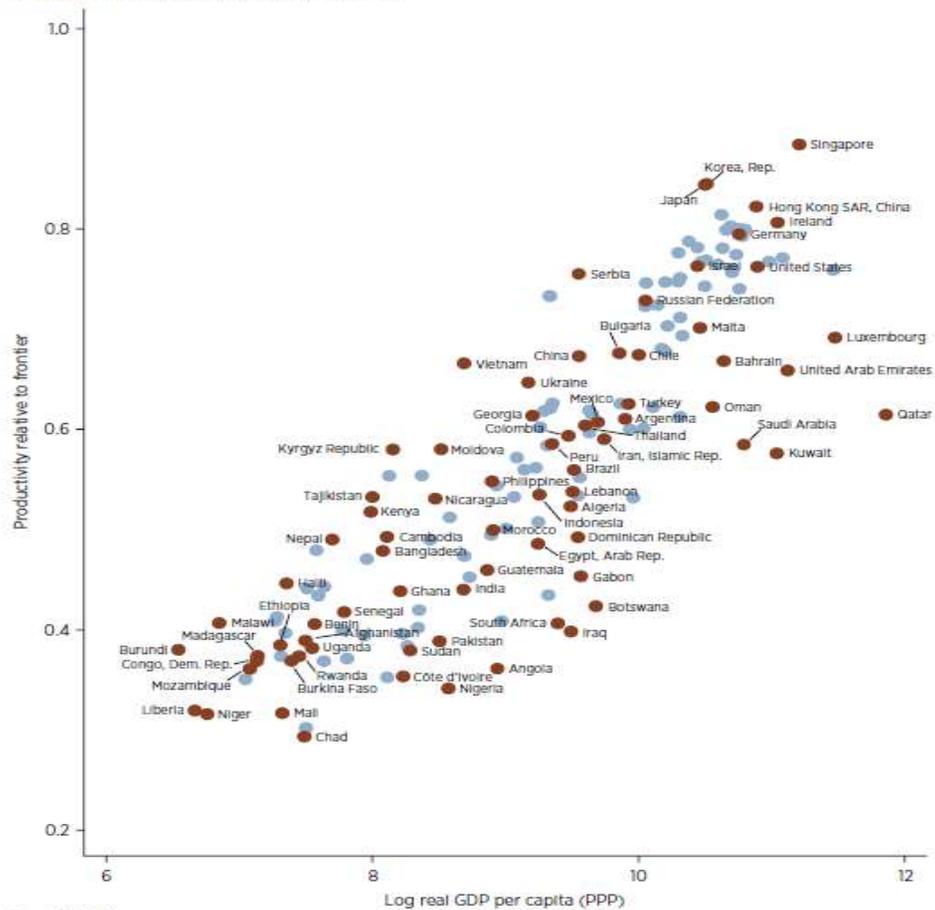


**64.7%**

average rate of informality

Source: World Bank, 2018

# Invest in human capital

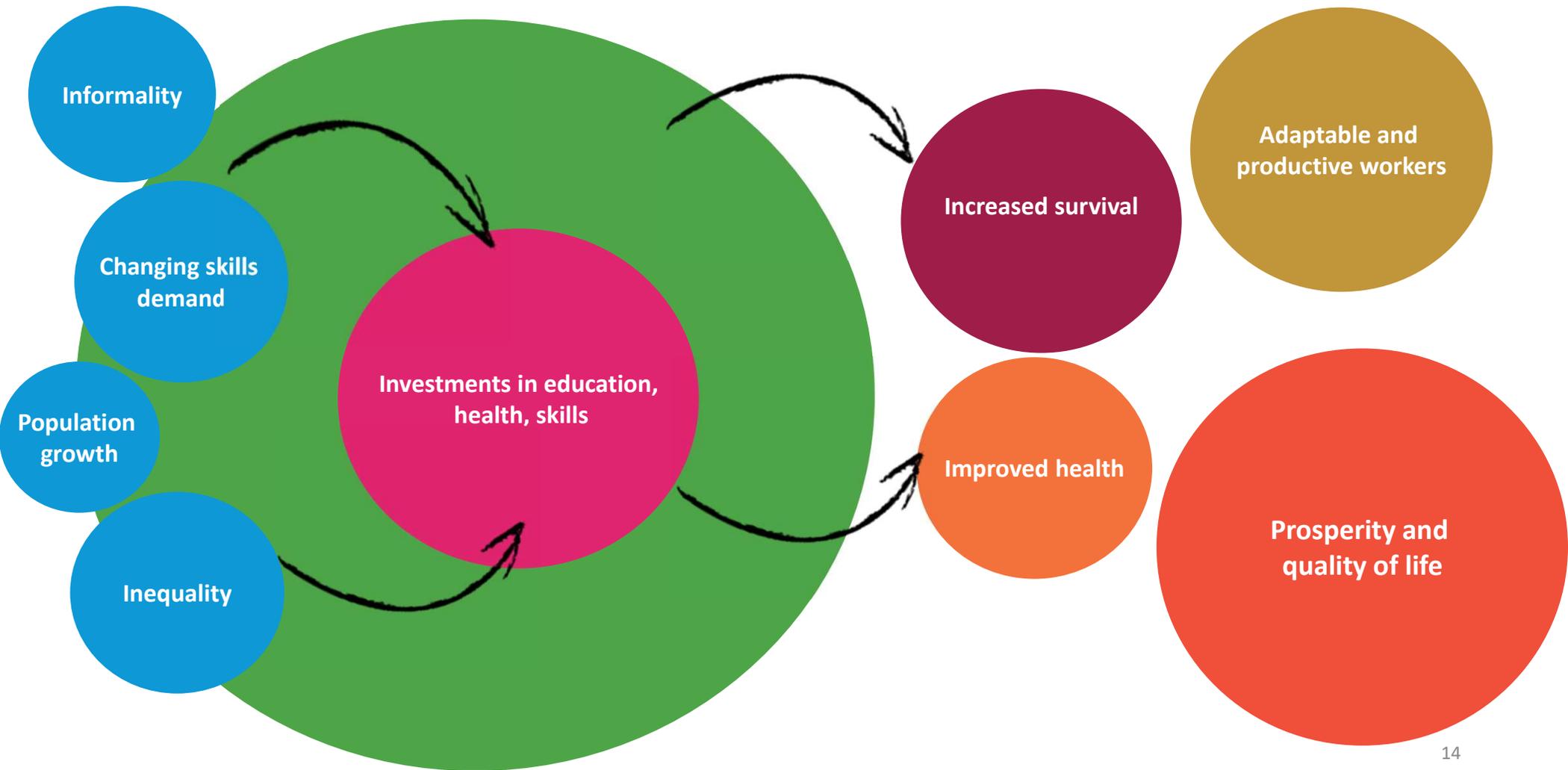


Source: WDR 2019 team.

Note: The Human Capital Index ranges between 0 and 1. The index is measured in terms of the productivity of the next generation of workers relative to the benchmark of complete education and full health. An economy in which the average worker achieves both full health and full education potential will score a value of 1 on the index. GDP = gross domestic product; PPP = purchasing power parity.

- The World Bank Group's Human Capital Project is a global effort to accelerate more and better investments in people for greater equity and economic growth.
- The cost of inaction on human capital development is going up.
- HCP is expected to help create the political space for national leaders to prioritize transformational human capital investments.

# Invest in human capital



# Invest in resilience



Ability to manage the wide range of shocks and stresses which may occur:

- natural
- technological, or
- socioeconomic

Examples of investments include:

- Expansion of social protection coverage while giving priority to the poorest people
- Strengthening of all aspects of climate and disaster resilient development, including coordinating institutions, risk identification and reduction, preparedness and resilient reconstruction

# Invest in digital infrastructure: Three B's of Technology



## Build

- Develop the foundational building blocks for sustainable, technology-led economies (for example, the Digital Economy for Africa Initiative, and Identification for Development).



## Boost

- Expand the capacity of people and institutions to thrive in a resilient society in the face of disruption (for example, ongoing citizen engagement).

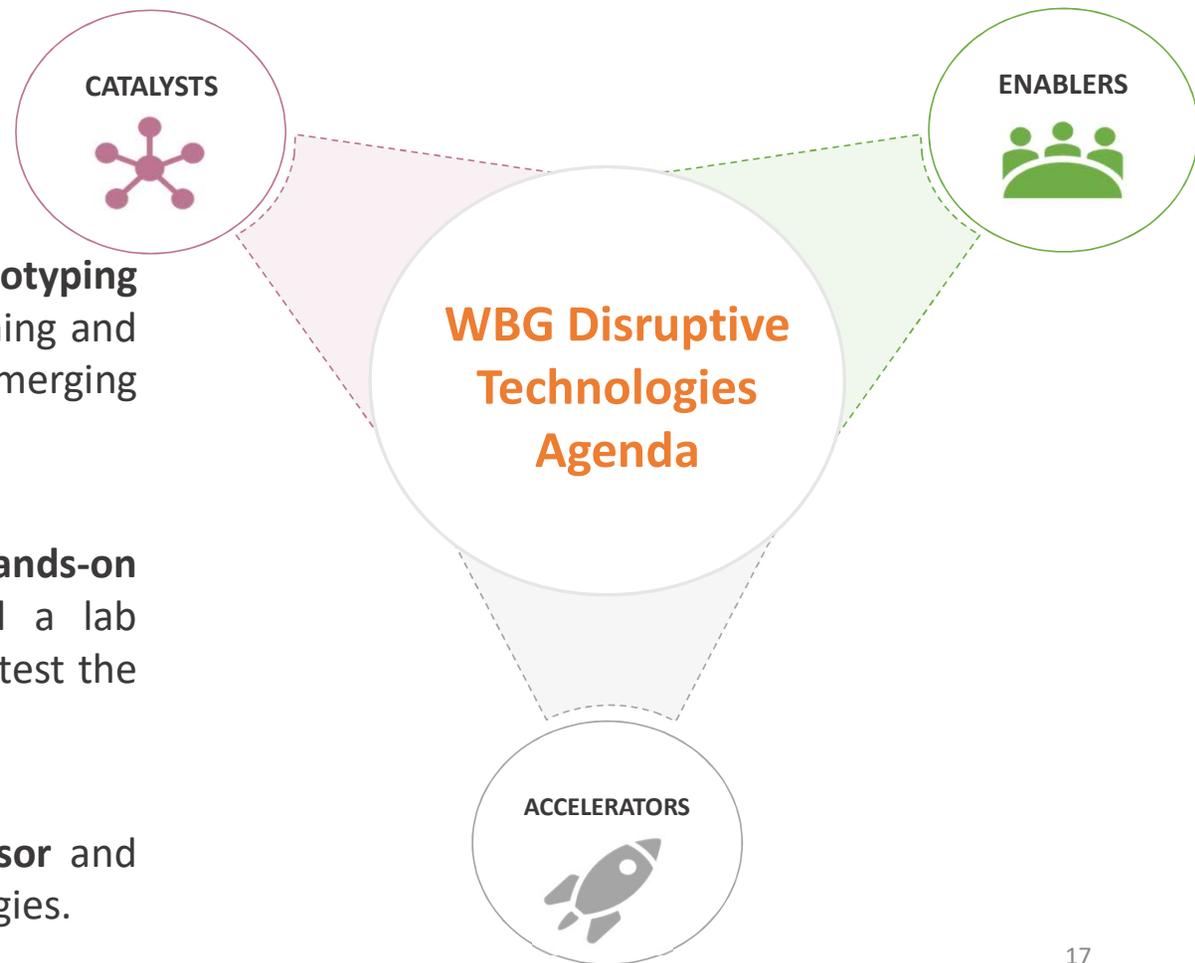


## Broker

- Harness disruptive technology, data, and expertise to solve development challenges and manage risks through collaborations (for example, with partners including Airbnb, Amazon and LinkedIn).

# Invest in technology

- We conduct rapid **proof of values** and **prototyping** to test new capabilities and expedite learning and understanding of the applicability of emerging technologies.
- We provide **technology advice**, **hands-on experience** and **learning by doing**, and a lab environment for the WBG stakeholders to test the potential of emerging technologies.
- We serve as an **internal technology advisor** and **knowledge hub** around emerging technologies.



# Invest in technology

## WBG example: Blockchain for land management

### THE CHALLENGE:

- 70% of the world's population does not have access to affordable land administration services. Corruption, fraud, inconsistencies in land rights and ownership, fragmented, costly and labor-intensive administration are common challenges in the land administration sector.

### THE OBJECTIVE:

- Explore and test ways to ensure immutability of land title records, increase transparency across records and processes, and provide resiliency of records by using blockchain technology.

### THE BENEFIT:

- The blockchain solution will increase transaction transparency and auditability while reducing corruption, improve trust and disintermediation, promote multi-party transactions (supporting women & other vulnerable groups), and introduce digitized asset for trade.



## Invest in sustainable finance: bond-i

The world's first bond to be created, allocated, transferred and managed through its life cycle using distributed ledger technology



Two-year bond raised A\$110 million, marking the first time that investors have supported the World Bank's development activities in a transaction that is fully managed using the blockchain technology.

Source: <https://www.worldbank.org/en/news/press-release/2018/08/23/world-bank-prices-first-global-blockchain-bond-raising-a110-million>

# Implementation: WBG's technology programs



## Identification for Development (ID4D)

Works closely with countries and partners to enable all people to exercise their rights and to access services, including to provide identification to the estimated 1 billion people currently without one.

## Digital Economy for Africa (DE4A)

A partnership with the African Union, governments, and the private sector, including the Gates Foundation, to ensure that every African individual, business and government is Digitally Enabled by 2030.

## Famine Action Mechanism

Explores innovative technologies, such as Artificial Intelligence, to guide earlier interventions in famine situations to where they are needed the most.



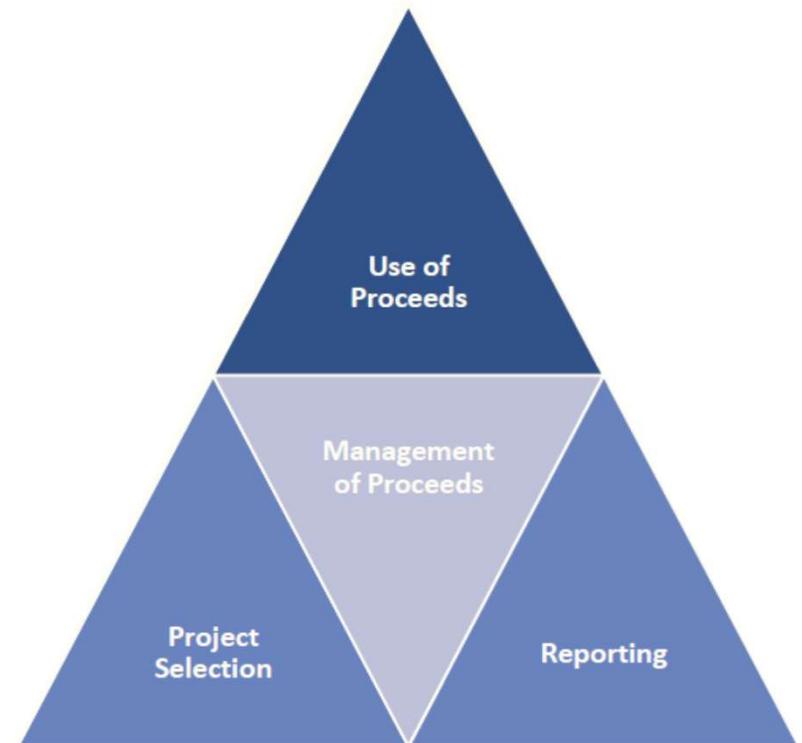
# Invest in sustainable finance: IFC Social Bond

Projects will generally involve support for low-income populations, in the areas of:

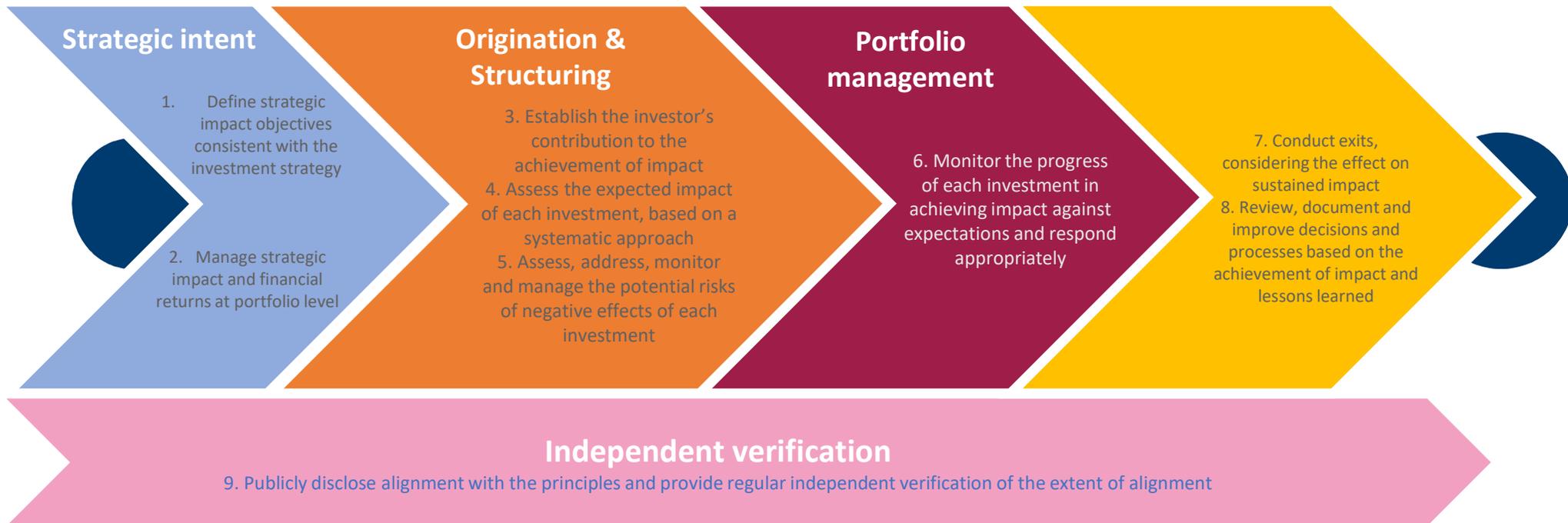
-  Smallholder farming **01**
-  More affordable health, education, utilities or housing services **02**
-  Goods and services **03**
-  Access to telecommunication and payment platforms **04**
-  Lending to financial intermediaries; proceeds of which must be on-lent to women-owned enterprises **05**

Source: IFC Social Bond Program Presentation, 2017

## Bond structure

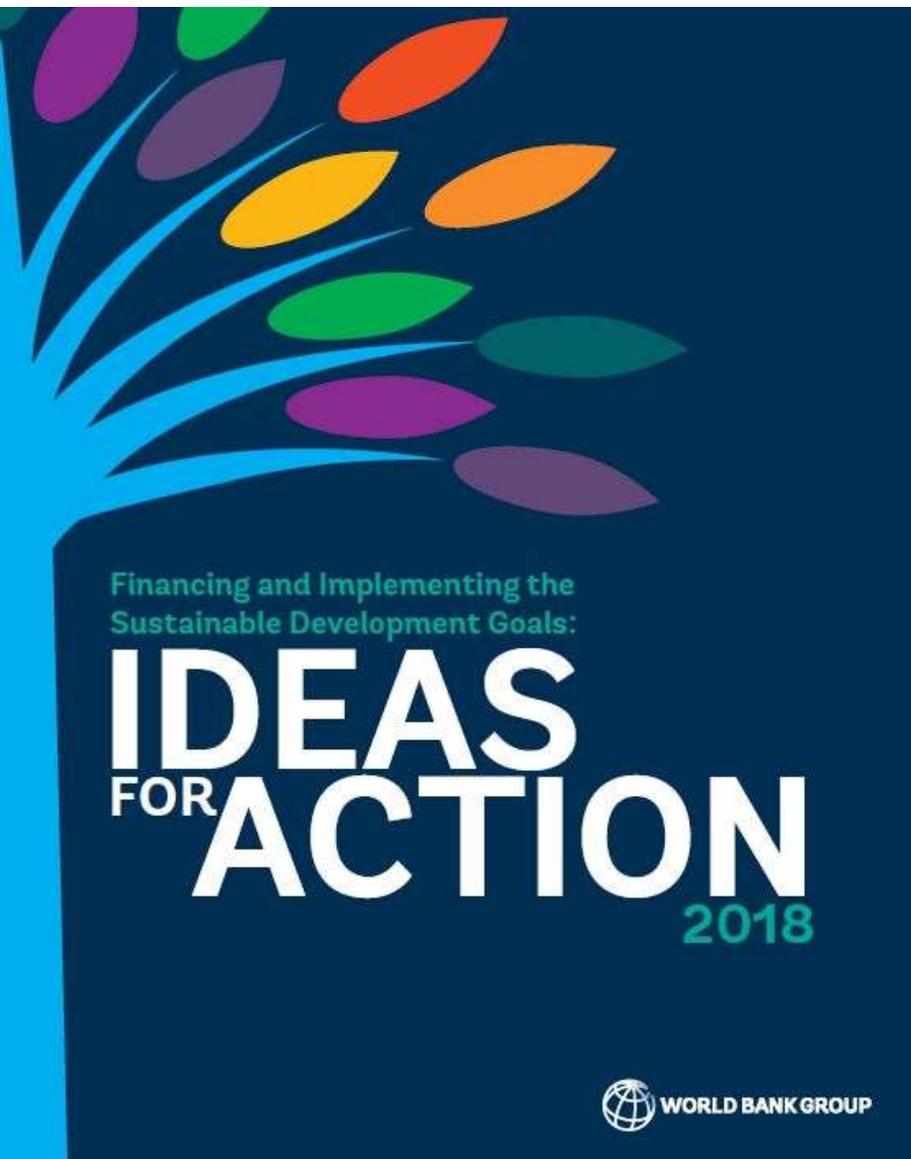


## Invest in sustainable finance: WBG's investing for impact principles



# Implementation: WBG's localization of the SDGs





- A partnership between the World Bank Group and the Wharton Business School, among others
- Encourages youth to put forth their innovative ideas on how to finance the SDGs
- Top 10 winners will be published in a book, top 3 winners will participate in the WBG-IMF Annual Meetings
- Next round of submissions opens in August 2019

[ideas4action.org](http://ideas4action.org)

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Organization of American States



Young Americas Business Trust  
www.yabt.net

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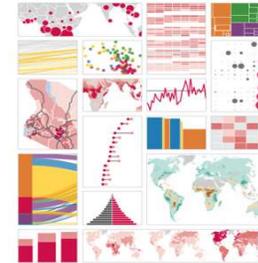
[worldbank.org/sdgs](http://worldbank.org/sdgs)



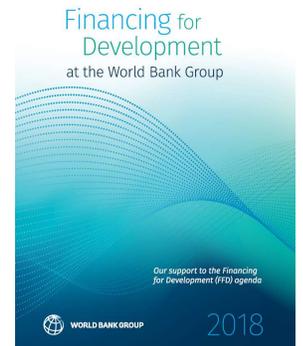
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Atlas of Sustainable Development Goals  
2018 From World Development Indicators



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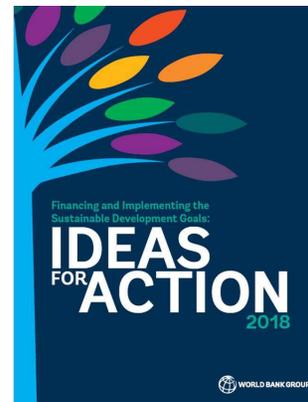


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2018



Financing and Implementing the  
Sustainable Development Goals:

IDEAS  
FOR ACTION  
2018

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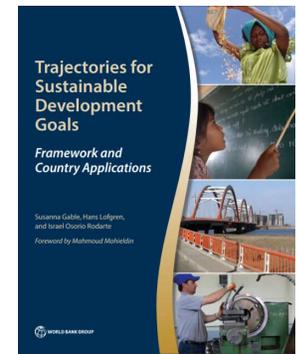


Implementing the

2030

AGENDA  
2018 UPDATE

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Trajectories for  
Sustainable  
Development  
Goals

Framework and  
Country Applications

Suzanna Gabbe, Hans Lofgren,  
and Isabel Osorio Rodarte  
Foreword by Mahmoud Mohieldin

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