Big Data & Big Trends

#chainpoint18

@wolfgangfengler

Yerevan, November 14, 2018
A DATA REVOLUTION FOR THE SDGS
Already today, there is more data than grains of sand

The Emergence of Big Data: from zero to 100 sextillion in five years

Source: IBM
THE NEED FOR A DATA REFINERY
Big Shifts
Number of people in the world

7,6b
Population growth is slowing down rapidly

![Graph showing the increase in the world's population from 1900 to 2100. The graph indicates a significant peak in 1968 and a decline starting in 2018.]
2000-2100: WHY IS THERE HIGH POPULATION GROWTH?

World population by age group 2000-2100

- Total
- Adults: 15+
- Children: 0-14

Graph showing population growth from 2000 to 2100.
Despite the recent UN projections, we may not reach 10 billion ...
... because education reduces fertility

Source: IASA calculations based on DHS
Shift 1. From Young to Old

- **15-64 yo**
- **0-14 yo**
- **65+ yo**

Proportion (%) vs. Year (1960-2050)
Shift 2. From rural to urban

Example: Kenya
Shift 3. From Europe to Africa

% of global population

- Africa
- Americas
- Asia
- Europe

1950 1975 2000 2025 2050
Shift 4. From low to high education
Shift 5. From poor to Middle Class

![Graph showing population changes from 2015 to 2030 across different income levels:]

- Extreme Poor
- Near poor
- Middle class
- Upper class

*Source: Projections by World Data Lab*
Real-time data models
Modelling income in real-time
IS THE WORLD ON TRACK TO END POVERTY BY 2030 (SDG 1)?

**WORLD POVERTY CLOCK**

The World Poverty Clock provides real-time poverty estimates until 2030 for almost every country in the world. It monitors progress against Ending Extreme Poverty, which is the UN’s first Sustainable Development Goal (SDG1). The escape rate calculates the current rate of poverty reduction in the world. Read more

**630,087,840** people live in extreme poverty, 8% of the world population.

- **112,303** escaped poverty today.
- **22,420** fell into poverty today.

**OFF TRACK**

41,159,373 people are off track behind SDG1.

**INDIA**

**TARGET**

1.6

**CURRENT**

1.1

**TARGET ESCAPE RATE**

people/sec

**CURRENT ESCAPE RATE**

people/sec

**UPDATED ON: JUNE 2018**
How many people are entering the global Middle Class each second?
OCTOBER 2018
HALF THE WORLD WILL LIVE ABOVE 11$/DAY

3.8 BN = 3.8 BN
In 2030, the four largest markets will be of similar size.

Middle and Upper Class Spending Power

Expenditure in Trillions

2028
Thank you

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