

Knowledge for Sustainable Development

College of Business and Finance





"Knowledge is a cornerstone of development, and its importance is increasing in an age of accelerating technological change and globalization. It is a public good that underpins economies, polities and societies, permeating all aspects of human activity."

(AHDR 2002, P. 6)



Knowledge is like light. Weightless and intangible, it can easily travel the world, enlightening the lives of people everywhere. Yet billions of people still live in the darkness of poverty—unnecessarily.

World Bank 1998/99

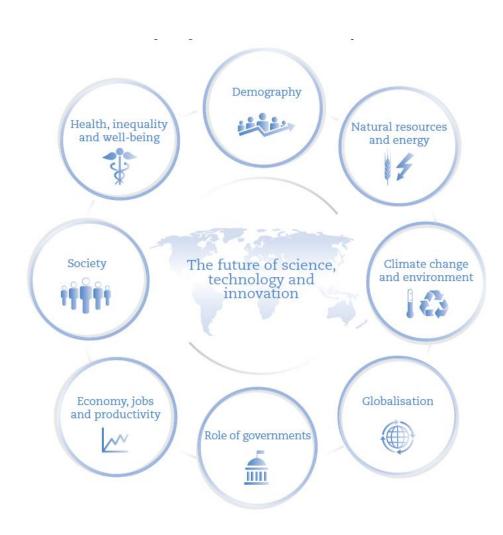
Importance of Knowledge



- Empower people
- Increase productivity
- Promote innovation
- Reduce gender inequalities
- Increase competitiveness
- Improve people well beings
- Create wealth
- Enhance equity
- Eradicate poverty
- Sustain development



Megatrends shaping our future (OECD)





SUSTAINABLE GEALS DEVELOPMENT





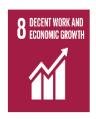
































Goals and Targets: The Millennium Development Goals 2030



- People end of poverty and hunger
- Planet protect the planet from degradation
- Prosperity Ensure that all human beings can enjoy prosperous and fulfilling lives
- Peace to foster peaceful, just and inclusive societies
- Partnership global partnership for sustainable development

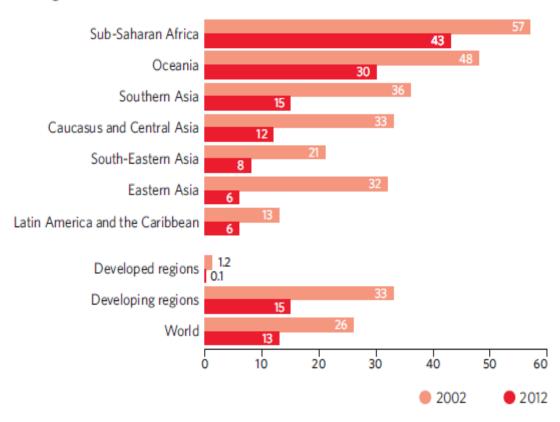


Poverty Focus: MDG

- Eradicate extreme poverty and hunger
- Achieve universal primary education
- Promote gender equality and empower women
- Reduce child mortality
- Improve maternal health
- Combat HIV/AIDS and other diseases
- Ensure environmental sustainability
- Global partnership for development

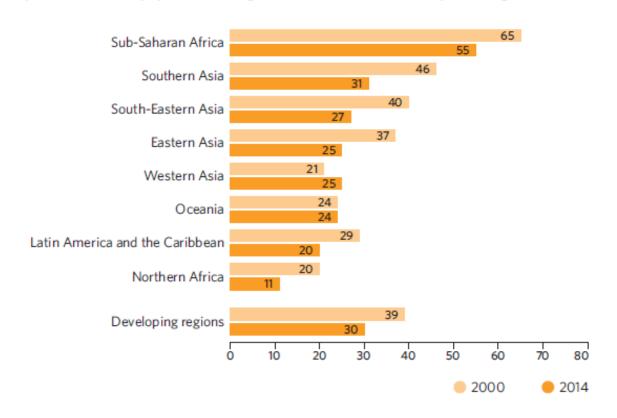


Proportion of the population living below 1.90 US dollars a day, 2002 and 2012 (percentage)

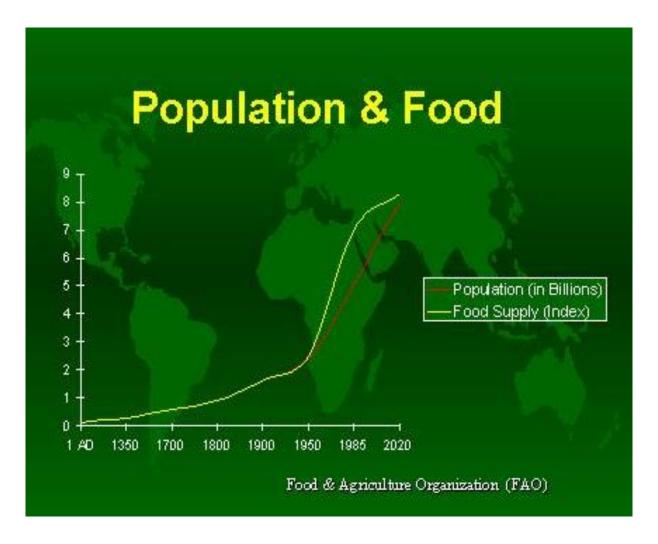




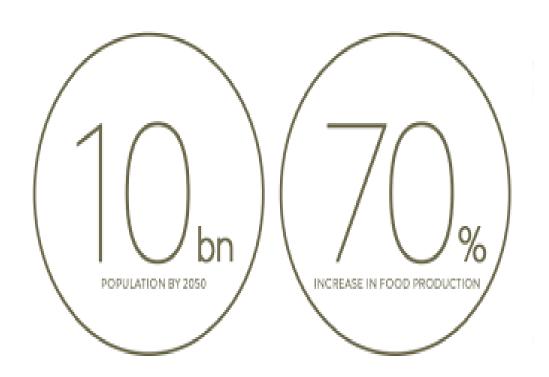
Proportion of urban population living in slums, 2000 and 2014 (percentage)



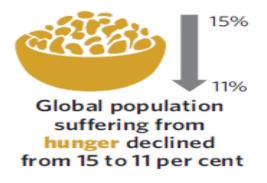


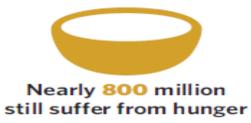




















59 million children of primary school age were out of school in 2013



757 million adults were unable to read and write in 2013, two-thirds were women





663 million still use unimproved water sources



2.4 billion are without improved sanitation



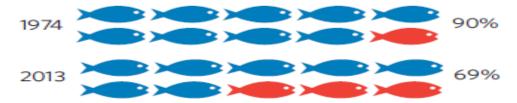
2 billion worldwide affected by water stress

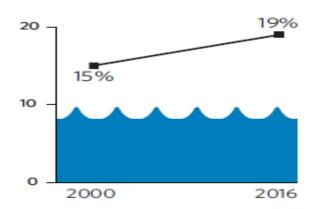


Integrated Water Resources Management plans in every region of the world



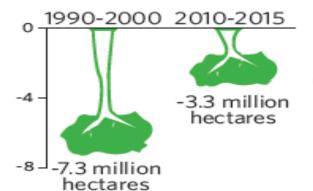
Proportion of fish stocks within biologically sustainable levels





Proportion of marine key biodiversity areas under protection worldwide





Global annual net forest loss



Over 23,000 species face extinction across the globe

Narrowing the Knowledge Gap



- Acquiring knowledge
- Absorbing knowledge
- Communicating knowledge

Acquiring knowledge



- Access to global knowledge
- Producing knowledge at home

Absorbing Knowledge



- Education as a lifelong process
- Building capacity for knowledge-based economy
- Government policy towards education
- Helping poor people pay for education
- Upgrading education new curricula, more active role of universities

Access to Global Knowledge



- International Trade
- FDI
- Technology transfer
- Travel and migration
- National knowledge policy

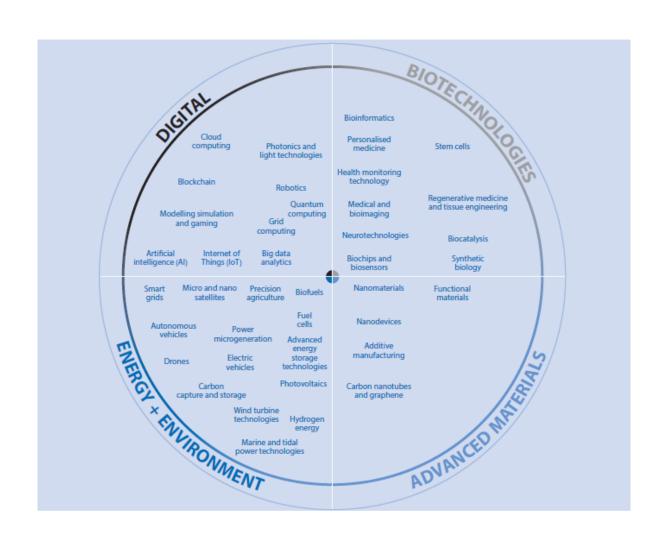
Production knowledge at home



- Government funded R&D
- Private R&D
- Indigenous knowledge and local demand



Key technologies for the future (OECD)



Education Matters



- Knowledge and education
- Knowledge infrastructure
- Investment in people
- Creation of new knowledge
- Global knowledge with local knowledge

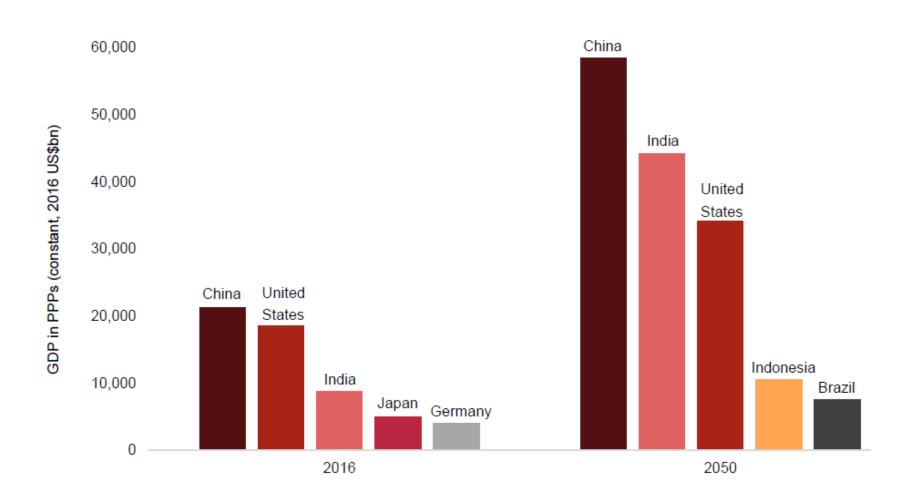


"Many universities throughout the developing world were established on the Western model during the colonial period rather than being developed indigenously in the cultures in which they were located."

(Jean L. Pyle)



The world in 2050





Share of Total Global R&D Spending

	2014	2015	2016
North America	29.1%	28.5%	28.4%
U.S.	26.9%	26.4%	26.4%
Caribbean	0.1%	0.1%	0.1%
All North America	29.2%	28.5%	28.5%
Asia	40.2%	41.2%	41.8%
China	19.1%	19.8%	20.4%
Europe	21.5%	21.3%	21.0%
Russia/CIS	3.1%	2.9%	2.8%
South America	2.8%	2.6%	2.6%
Middle East	2.2%	2.3%	2.3%
Africa	1.0%	1.1%	1.1%
Total	100.0%	100.0%	100.0%



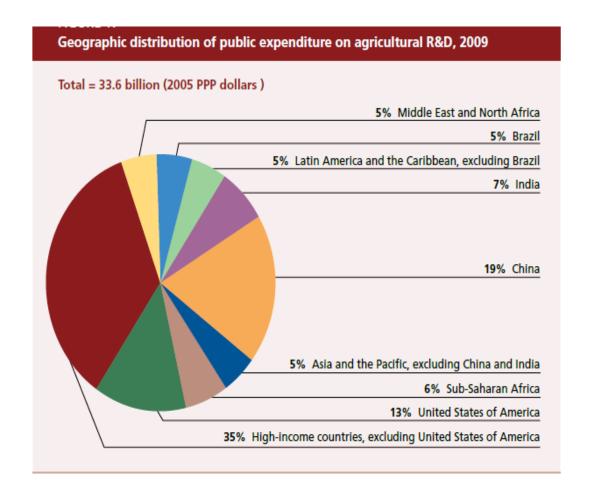
What is GREEN REVOLUTION?

GREEN REVOLUTION: refers to a large



increase in crop production by using modern agricultural techniques.





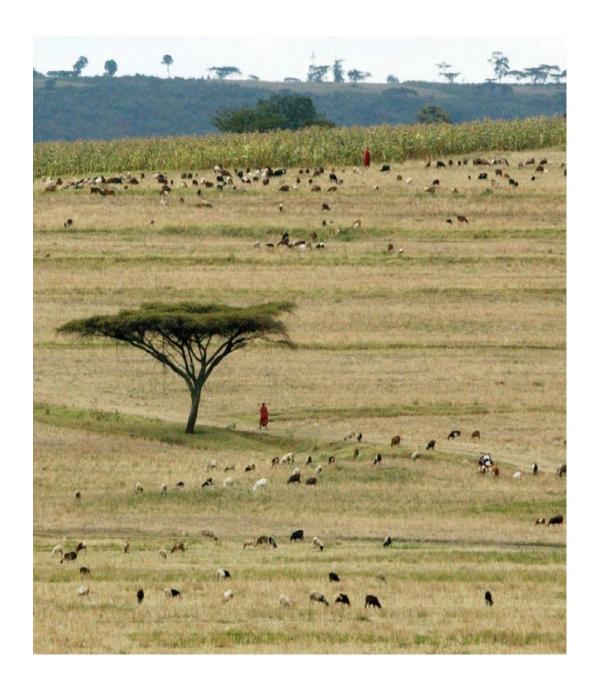


















Empowering women to end hunger and poverty

Rural women: a driving force against hunger, malnutrition and poverty

















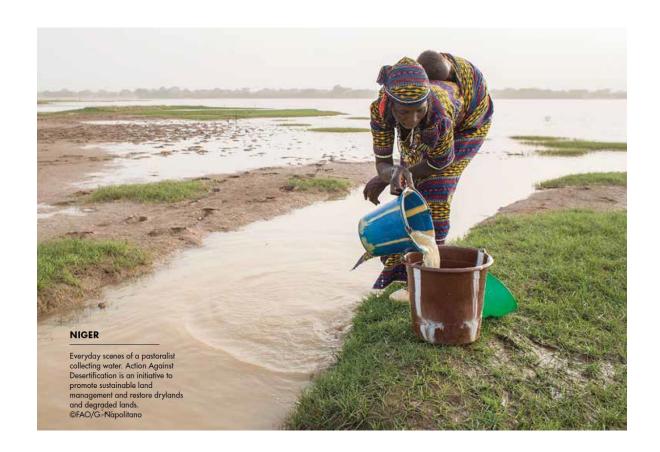




FIGURE 2.2 Where Are the Global Poor Living? The Global Poor, by Region, 2013

Share of global poor by region (%)

