

I INTERNATIONAL MEETING
ON MANAGEMENT AND REGULATION
OF HEALTH WORK

MARCH 26-28, 2018



INTERNATIONAL
COUNCIL FOR OPEN AND
DISTANCE EDUCATION



The International Panorama on Innovation in the Public Sector

1st International meeting on management and regulation of Health Work
26-28 March 2018, Brasilia, Brazil

Gard Titlestad, Secretary General

International Council for Open and Distance Education

Member of the Governing Board



UNESCO Institute
for Information Technologies in Education



Outline

- Innovation
- Innovation consequences
- Brazil
- Innovate and transform

Human Development Report 2016

Human Development for Everyone



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McKinsey&Company

MCKINSEY GLOBAL INSTITUTE

**JOBS LOST, JOBS GAINED:
WORKFORCE TRANSITIONS
IN A TIME OF AUTOMATION**

DECEMBER 2017



WORLD
ECONOMIC
FORUM

COMMITTED TO
IMPROVING THE STATE
OF THE WORLD

The Global Innovation Index 2017

Innovation Feeding the World

TENTH EDITION

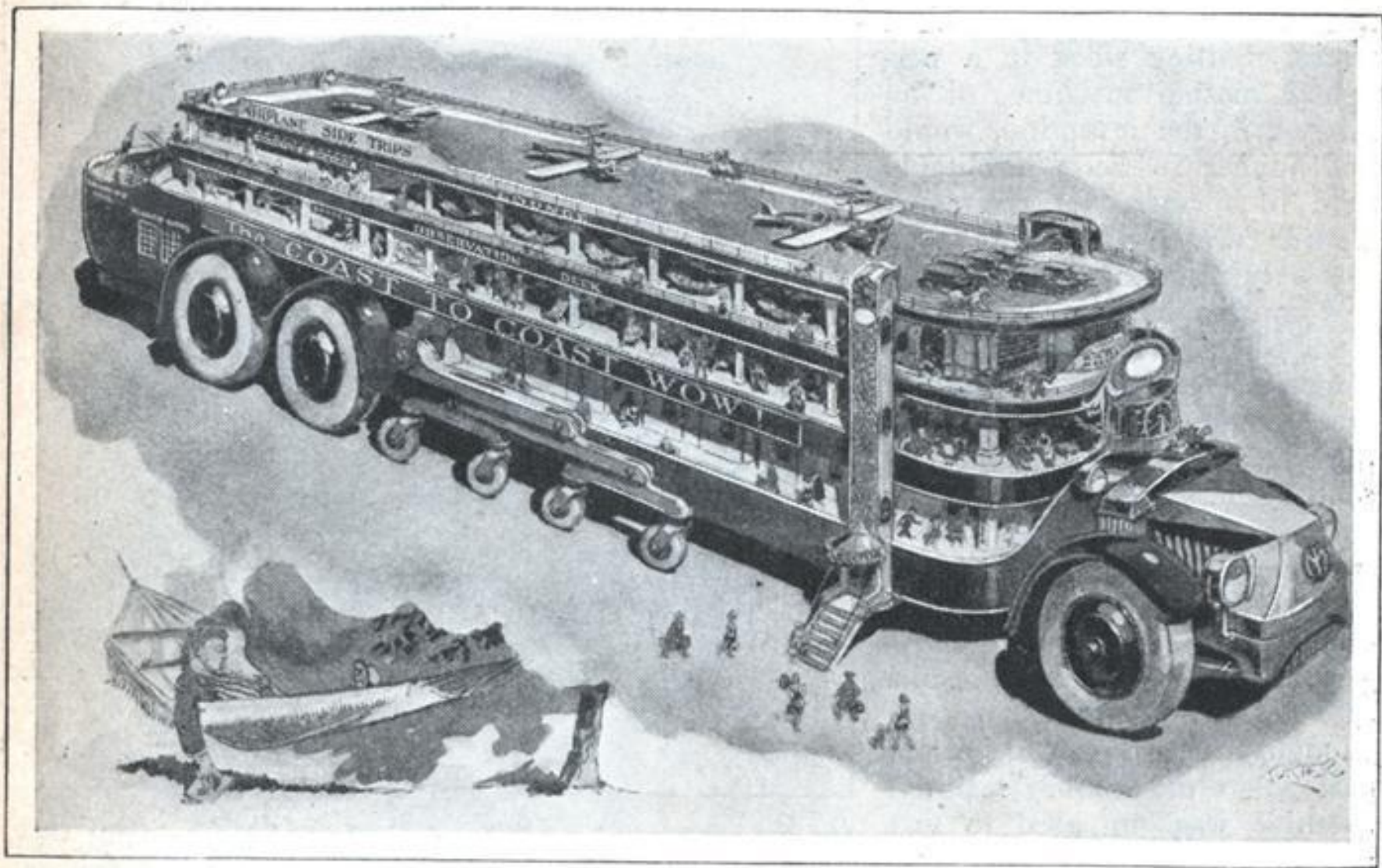


pwc



BETTER POLICIES FOR BETTER LIVES

Unique Bus of Future to Duplicate Speed of Railroads



Although still a dream, the bus with landing fields, swimming pool and hotel services is not far away.

RECENT developments in everything for trips not on the regular schedule. For

ICDE



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SINCE 1938



Support
From
Norway
29 years

UNESCO
Partner
>50 years



Open, Transparent, Accountable and focus on Good Governance



To be the global facilitator for inclusive, flexible, quality learning and teaching in the digital age.



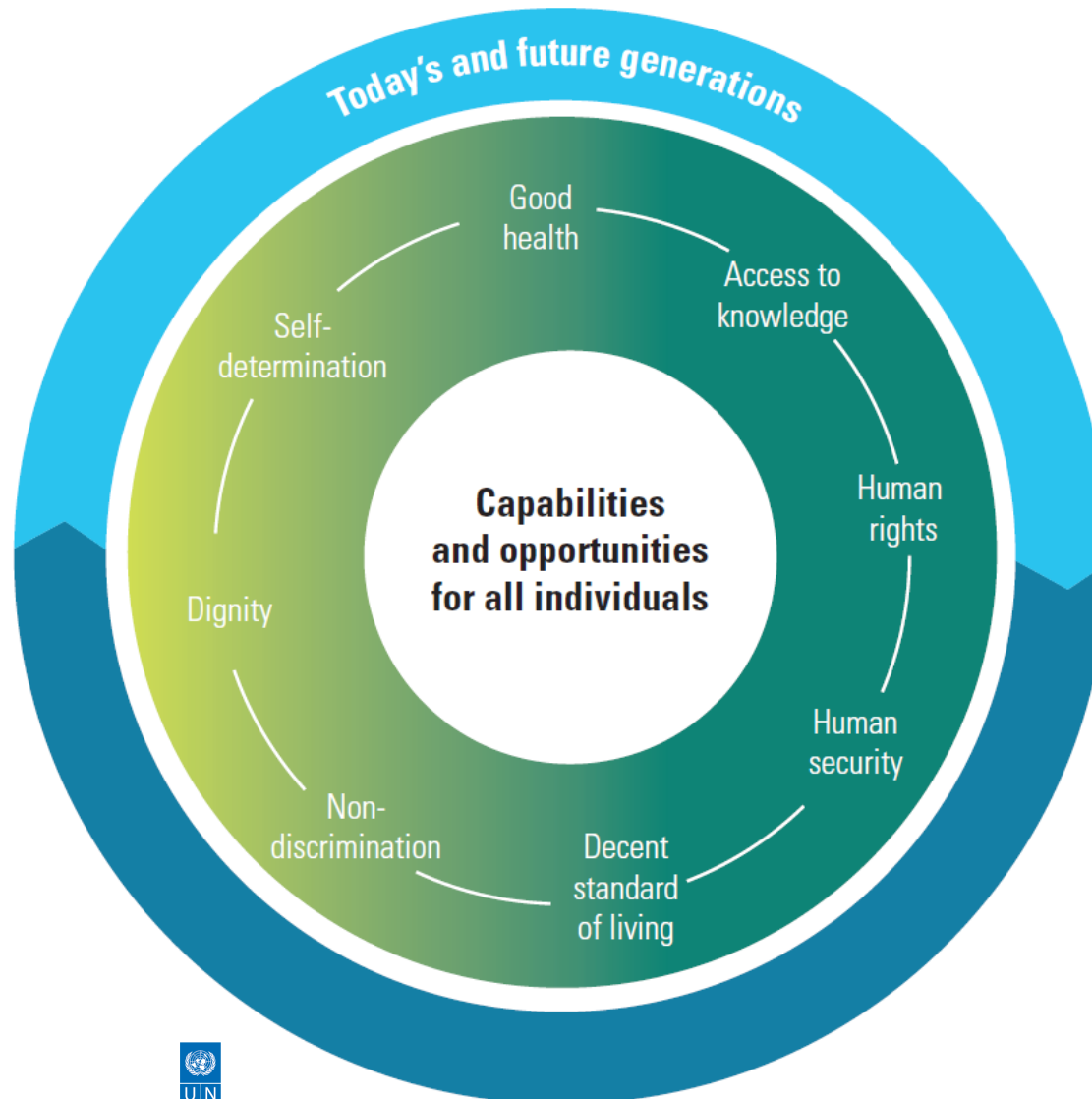
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Innovation

Why?



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**SUSTAINABLE
DEVELOPMENT GOALS**

17 GOALS TO TRANSFORM OUR WORLD

- On 25 September 2015, the United Nations General Assembly formally adopted the universal, integrated and transformative 2030 Agenda for Sustainable Development, along with a set of 17 Sustainable Development Goals and 169 associated targets.



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



INTERNATIONAL COUNCIL FOR OPEN AND DISTANCE EDUCATION

1 NO POVERTY

2 NO HUNGER

3 GOOD HEALTH

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 RENEWABLE ENERGY

8 GOOD JOBS AND ECONOMIC GROWTH

9 INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

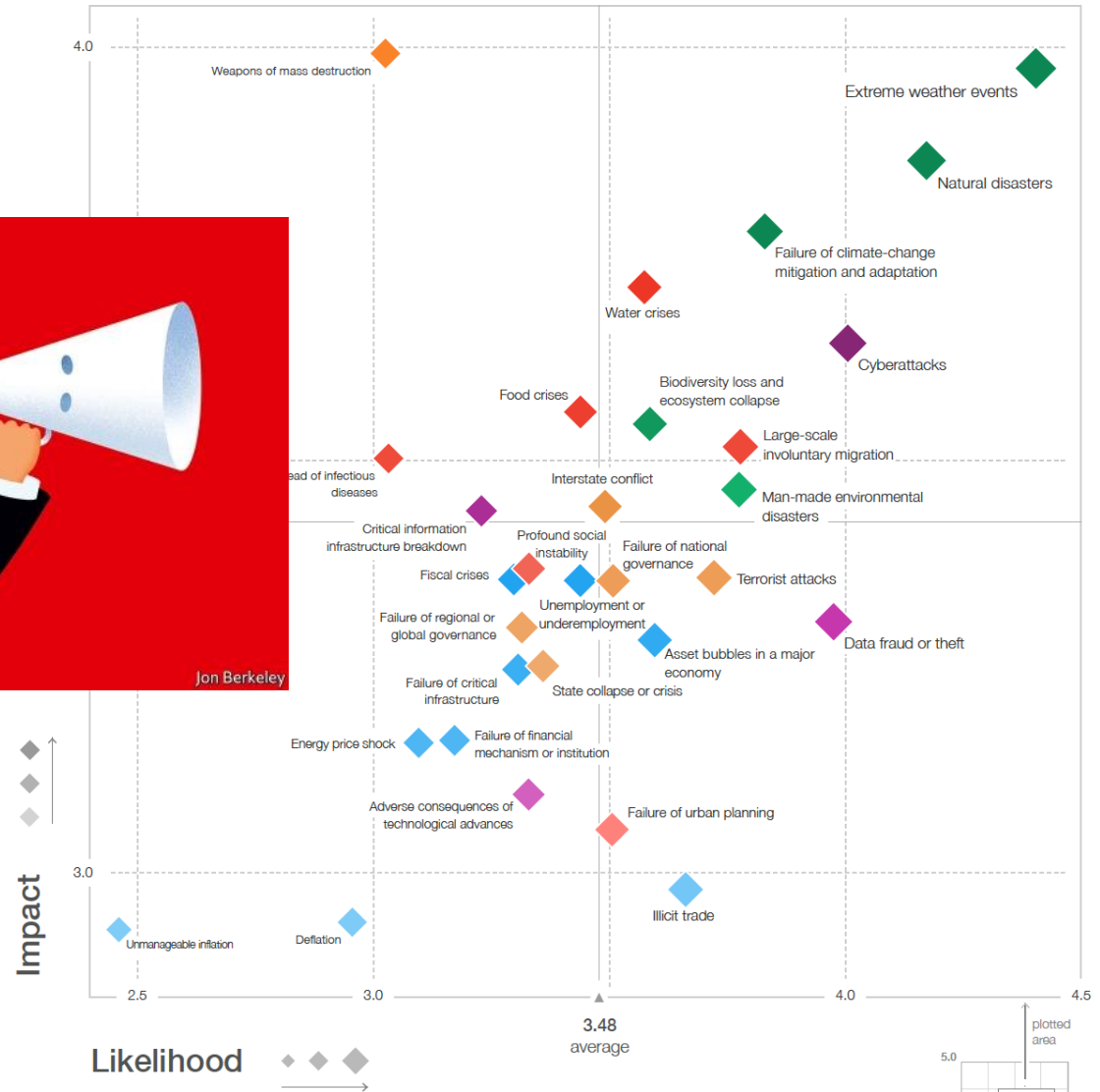
15 LIFE ON LAND

16 PEACE AND JUSTICE

17 PARTNERSHIPS FOR THE GOALS

THE GLOBAL GOALS
For Sustainable Development

Figure I: The Global Risks Landscape 2018





*An **innovation** is the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organisational method in business practices, workplace organisation or external relations.*

Oslo Manual

GUIDELINES FOR COLLECTING
AND INTERPRETING
INNOVATION DATA

2. Innovation

146. An **innovation** is the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organisational method in business practices, workplace organisation or external relations.





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Innovation.....

- Commercial?
- For profit?
- Not for profit?
- Public?
- Private?

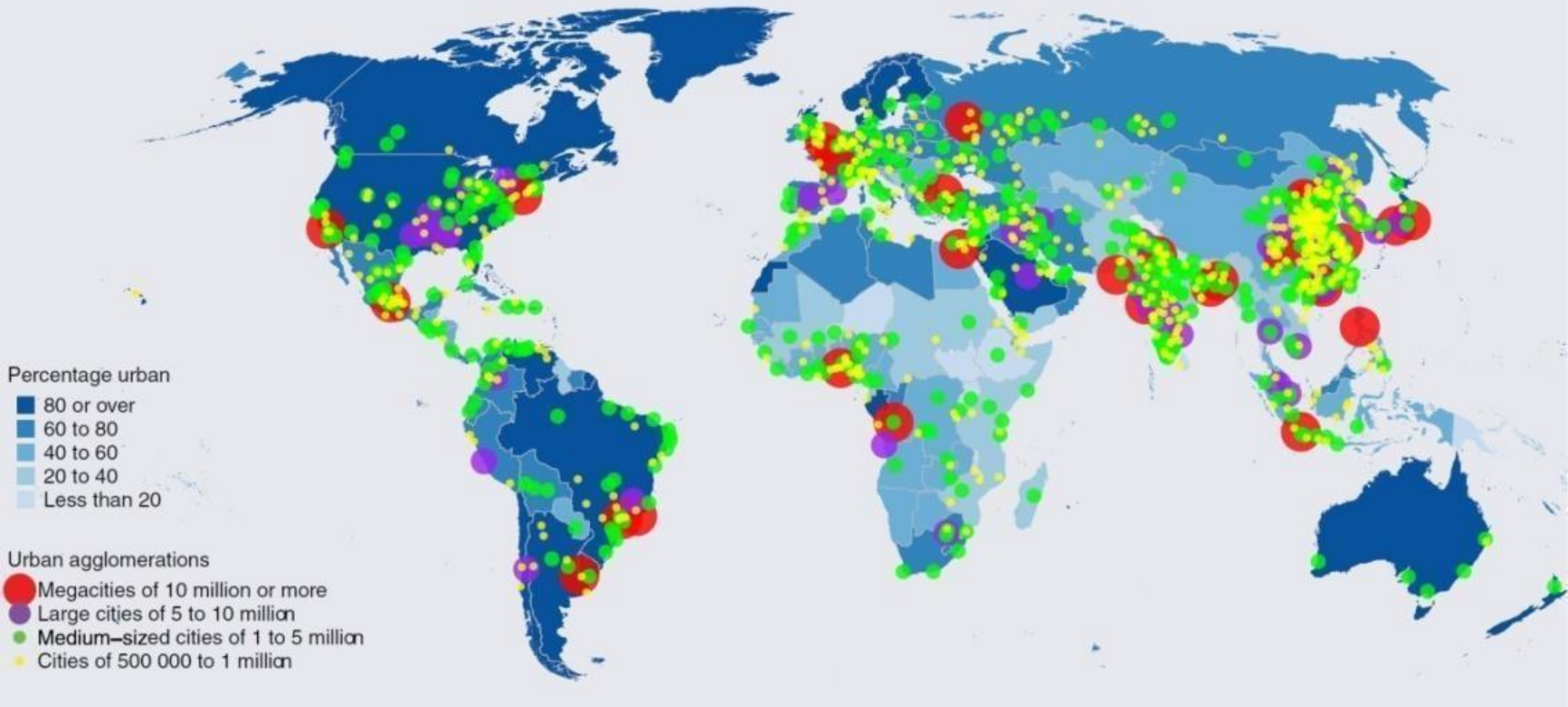
A culture of innovation

Everywhere

– and the cities



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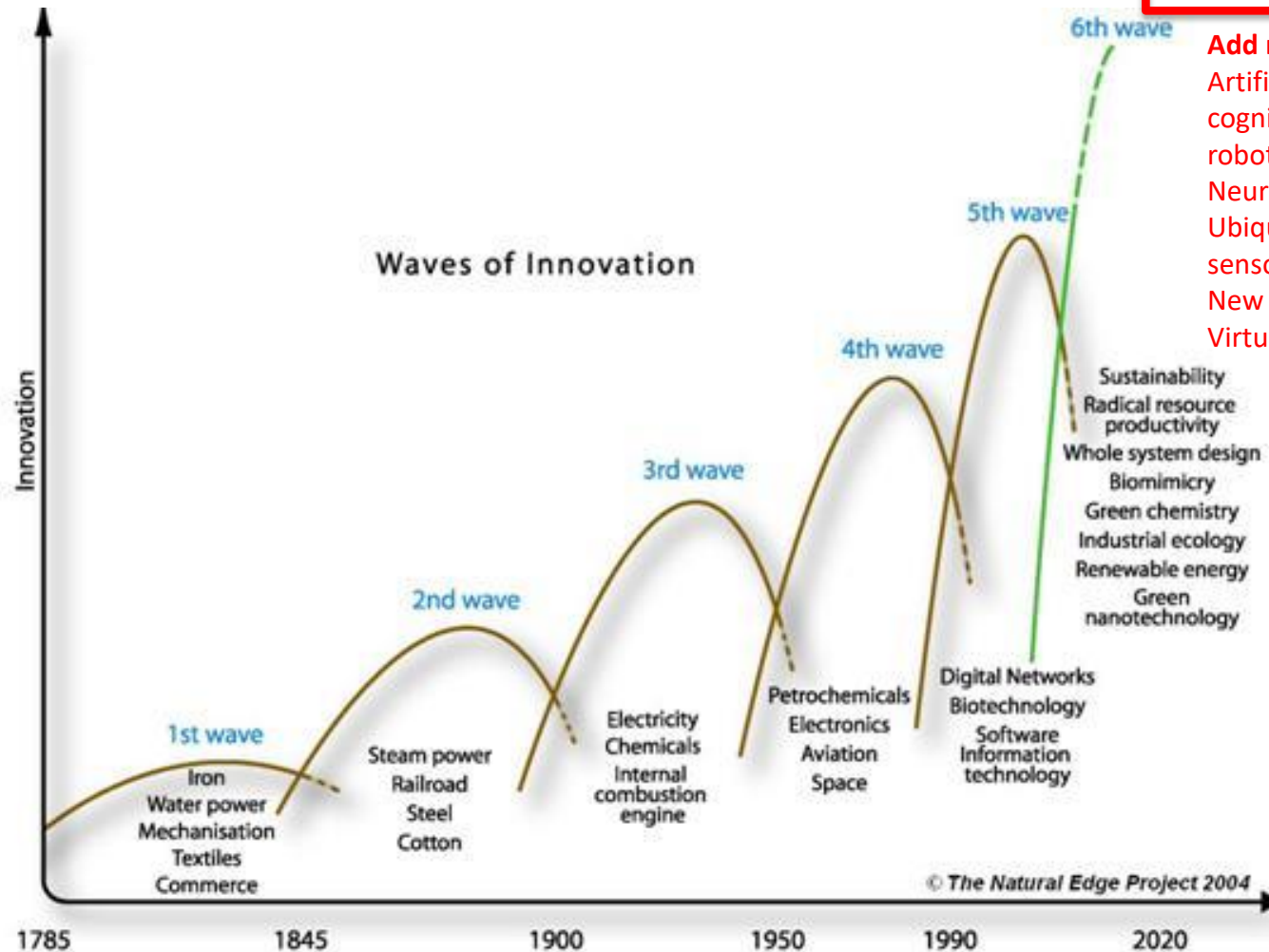
[Rio de Janeiro](#), Brazil, is one of the largest Smart Cities in the world.

International Case Studies of Smart Cities: Rio de Janeiro, Brazil - See more at:

<https://publications.iadb.org/handle/11319/7727#sthash.LTP2yoCx.dpuf>



The Fourth Industrial Revolution



Add now:
Artificial intelligence,
cognitive technologies and
robotics
Neurotechnologies
Ubiquitous presence of linked
sensors
New computing technologies
Virtual and augmented realities

2014





10 Roles For Artificial Intelligence In Education



Artificial Intelligence Becomes More Human

...ence of child learning forming AI

McKinsey&Company

MCKINSEY GLOBAL INSTITUTE

ARTIFICIAL INTELLIGENCE THE NEXT DIGITAL FRONTIER?



DISCUSSION PAPER JUNE 2017

Leveraging the upcoming disruptions from AI and IoT

How Artificial Intelligence will enable the full promise of the Internet-of-Things

Newsweek

The Entire Internet Only Matched the Capacity of the Human Brain in 2010



AI keynotes

International Forum on ICT and Education 2030

Provisional Programme

Seize digital opportunities, lead education transformation

Qingdao People's Republic of China 10-11 July 2017



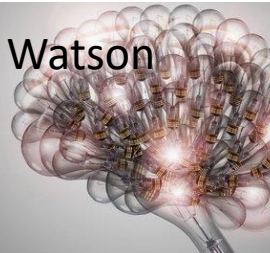
Ask me a question about the College or your studies.

When is the library open?

ASK

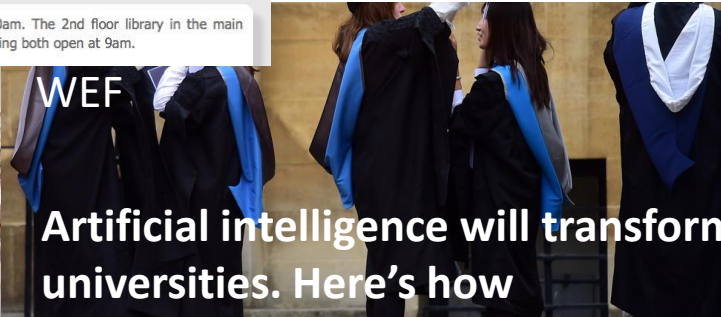
The 1st floor library in the main building opens at 8.30am. The 2nd floor library in the main building and the library in the Construction and Arts building both open at 9am.

IBM Watson



WEF

Artificial intelligence will transform universities. Here's how



Why Education Is the Hardest Sector of the Economy to Automate



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Right now, artificial intelligence is not nearly as smart as people would like it to be.

MARY CUMMINGS

Director, Humans and Autonomy Lab (HAL), Duke University

Workforce of the future

The competing forces shaping 2030

 www.pwc.com/people



Assisted Intelligence

Today
Automating repetitive, standardised or



Augmented Intelligence

Emerging
Fundamental change in the nature of work. Humans and machines collaborate to make decisions.



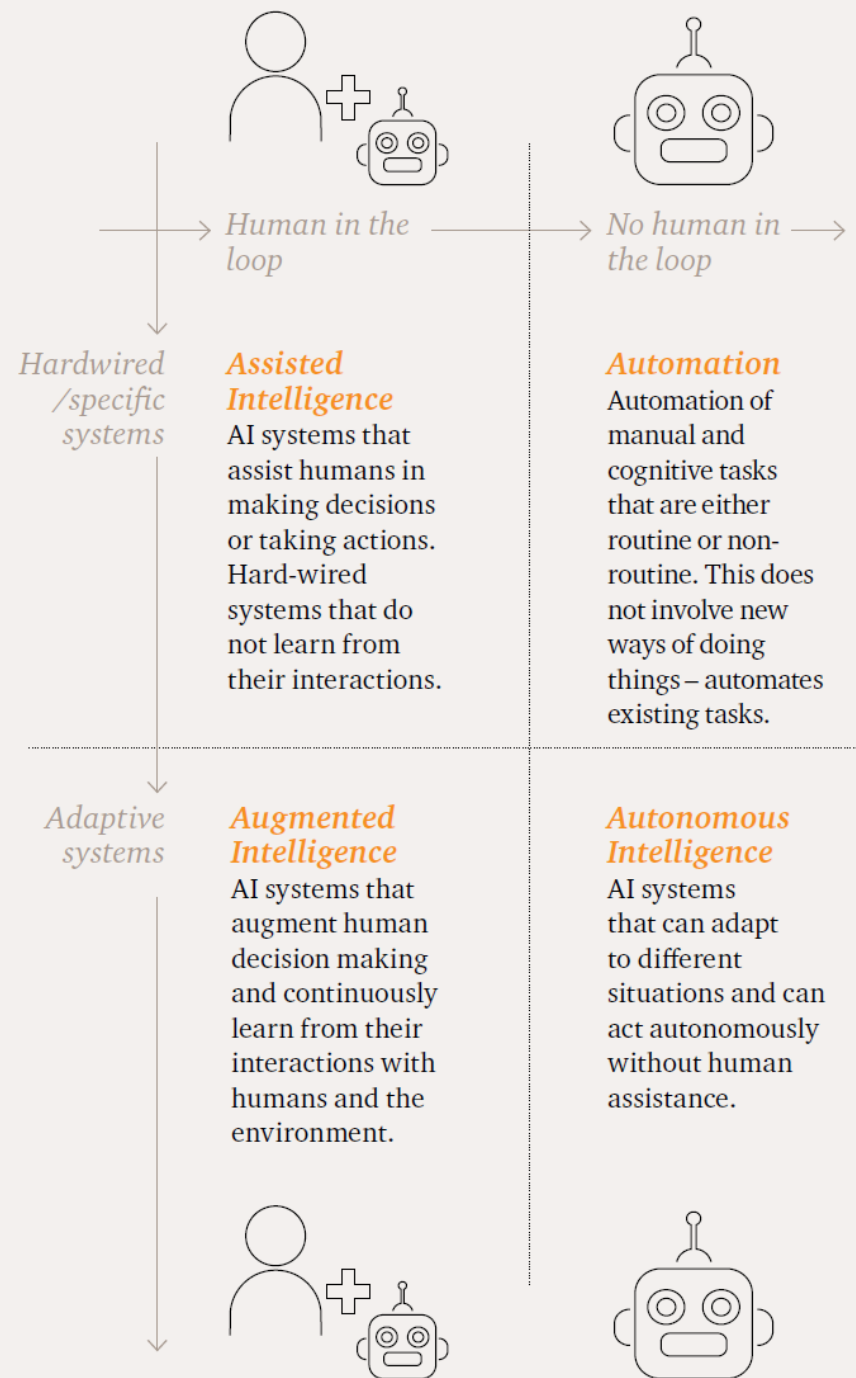
Autonomous Intelligence

Future
Adaptive continuous intelligent systems take over decision-making.
The future of humans at work is questioned.

Build awareness and insight

Establish relevant courses and educational offerings to build competencies

Take part in the debate on the future directions and ethics





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Consequences

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JOBS LOST, JOBS GAINED: WORKFORCE TRANSITIONS IN A TIME OF AUTOMATION

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Throughout history, large-scale sector employment declines have been countered by growth of new sectors that have absorbed workers

Share of total employment by sector
in the United States, 1850–2015
% of jobs

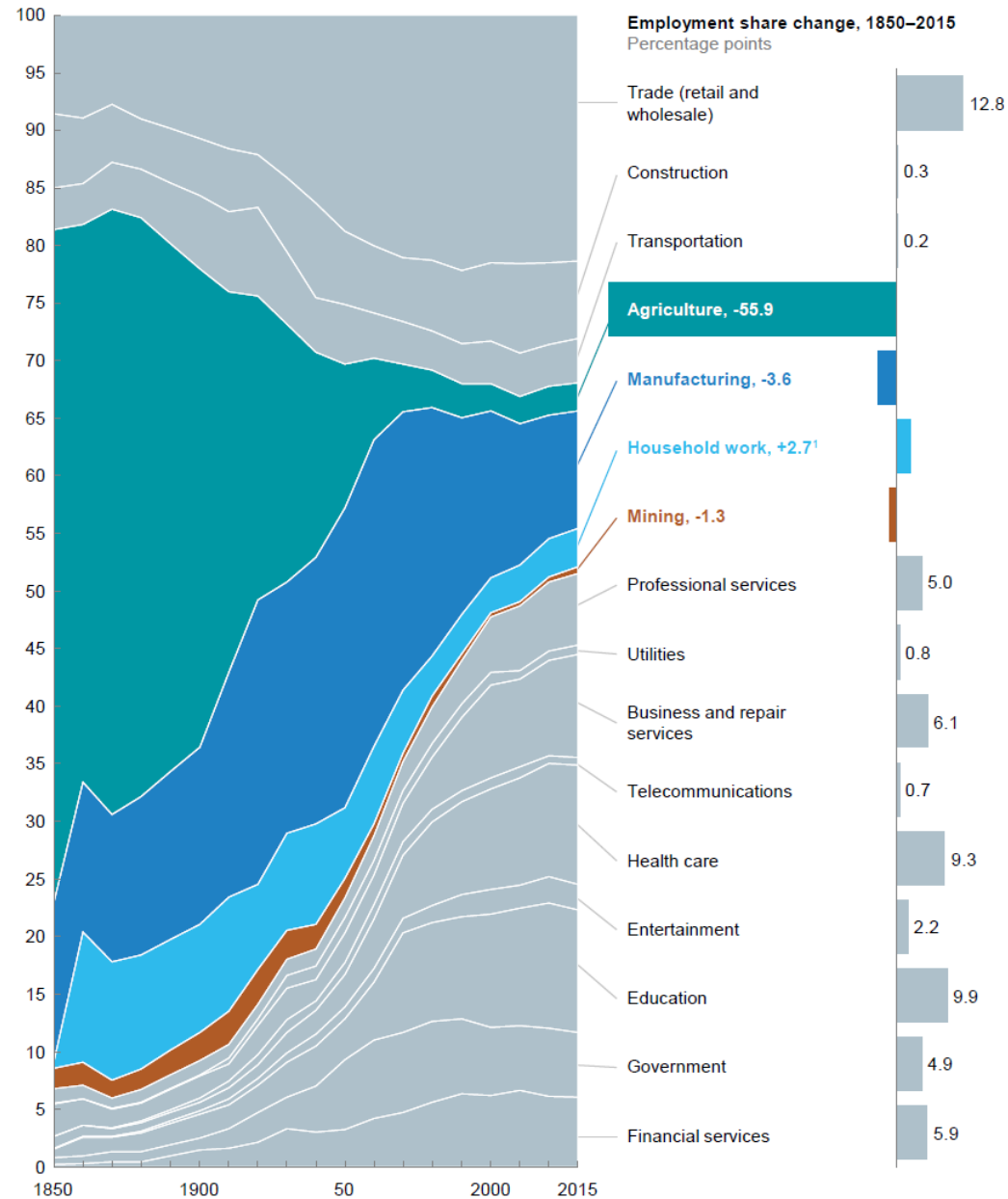
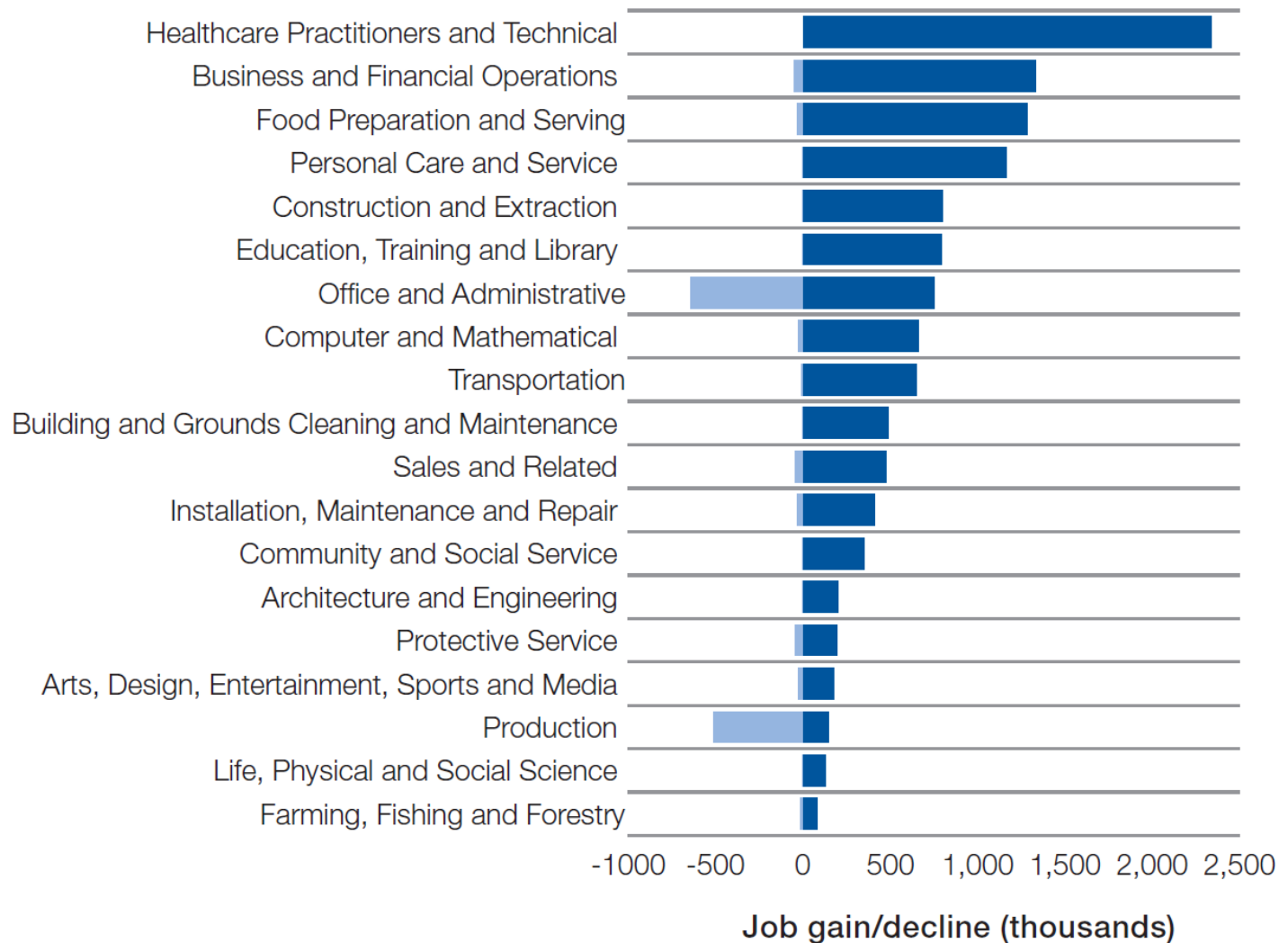


Figure 2: Projected structural changes in the US job market by 2026



Source data: Burning Glass Technologies and US Bureau of Labor Statistics.

The Bureau of Labor Statistics projections predict that, over the period up to 2026, the US labour market will see a structural employment decline of 1.4 million redundant jobs, against structural employment growth of 12.4 million new jobs

JOBS LOST, JOBS GAINED: WORKFORCE TRANSITIONS IN A TIME OF AUTOMATION

DECEMBER 2017

JOBS LOST GAINED CHANGED

Automation will bring big shifts to the world of work, as AI and robotics change or replace some jobs, while others are created. Millions of people worldwide may need to switch occupations and upgrade skills.

Scenarios for automation adoption, 2016–30

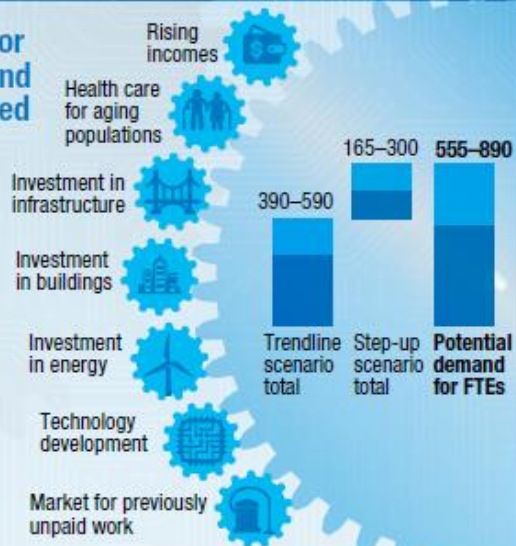
Under midpoint scenario, % of work hours with potential to be automated



Workers displaced under midpoint automation scenario: 400M

Scenarios for labor demand from selected catalysts, 2016–30

Million FTEs, ranged low–high



Jobs of the future: some occupations will grow, others will decline, and new ones we cannot envision will be created



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Impact of automation varies by a country's income level, demographics, and industry structure

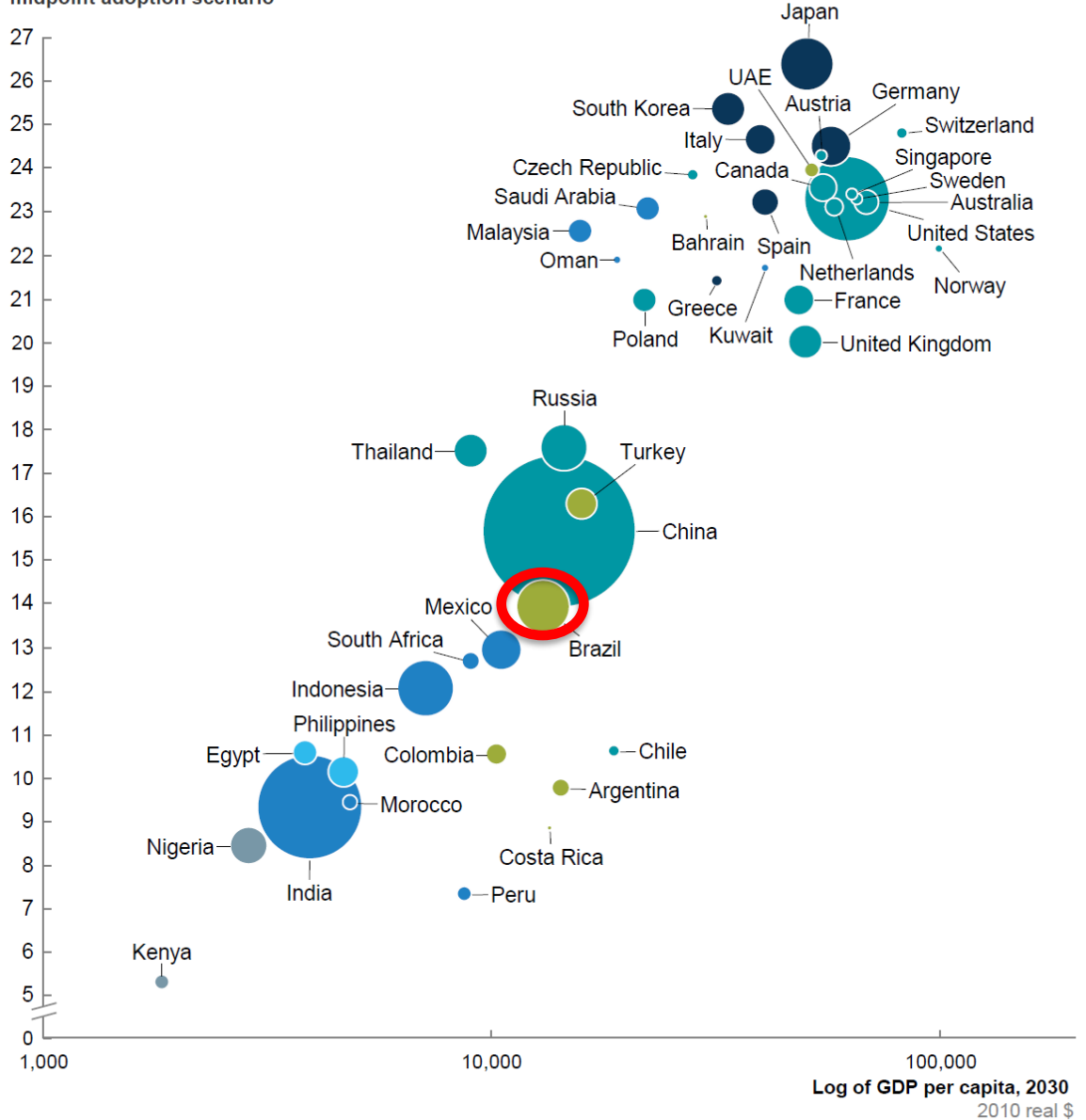
Size = FTEs potentially displaced, 2030 (million)



Color = Average age (projected), 2030



Percentage of current work activities displaced by automation, 2016-30, midpoint adoption scenario



SOURCE: World Bank; Oxford Economics; McKinsey Global Institute analysis

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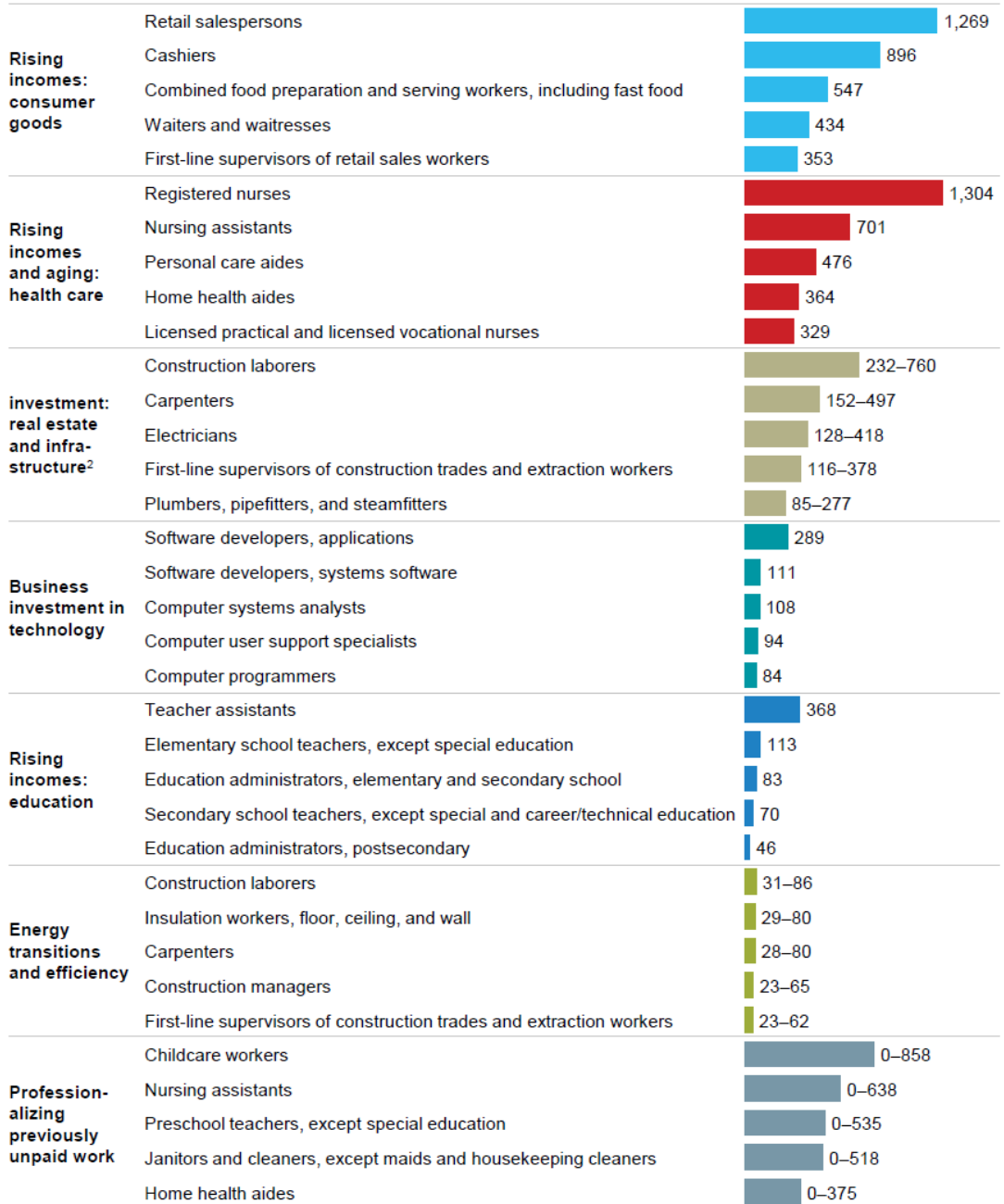
JOBS LOST, JOBS GAINED: WORKFORCE TRANSITIONS IN A TIME OF AUTOMATION

DECEMBER 2017

Each of our labor demand catalysts creates different types of jobs

US top five growing occupations by catalyst, trendline to step-up scenario, 2016–30¹

Thousand





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The Learners



**The
Economist**

JANUARY 14TH-20TH 2017

Trump v the spooks
The stain of Guantánamo
Pop stars and patronage in Congo
Inflation's welcome return

Lifelong learning

**How to survive in the age
of automation**

A SPECIAL REPORT



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Why high on agenda?

Digitalisation and
technological development

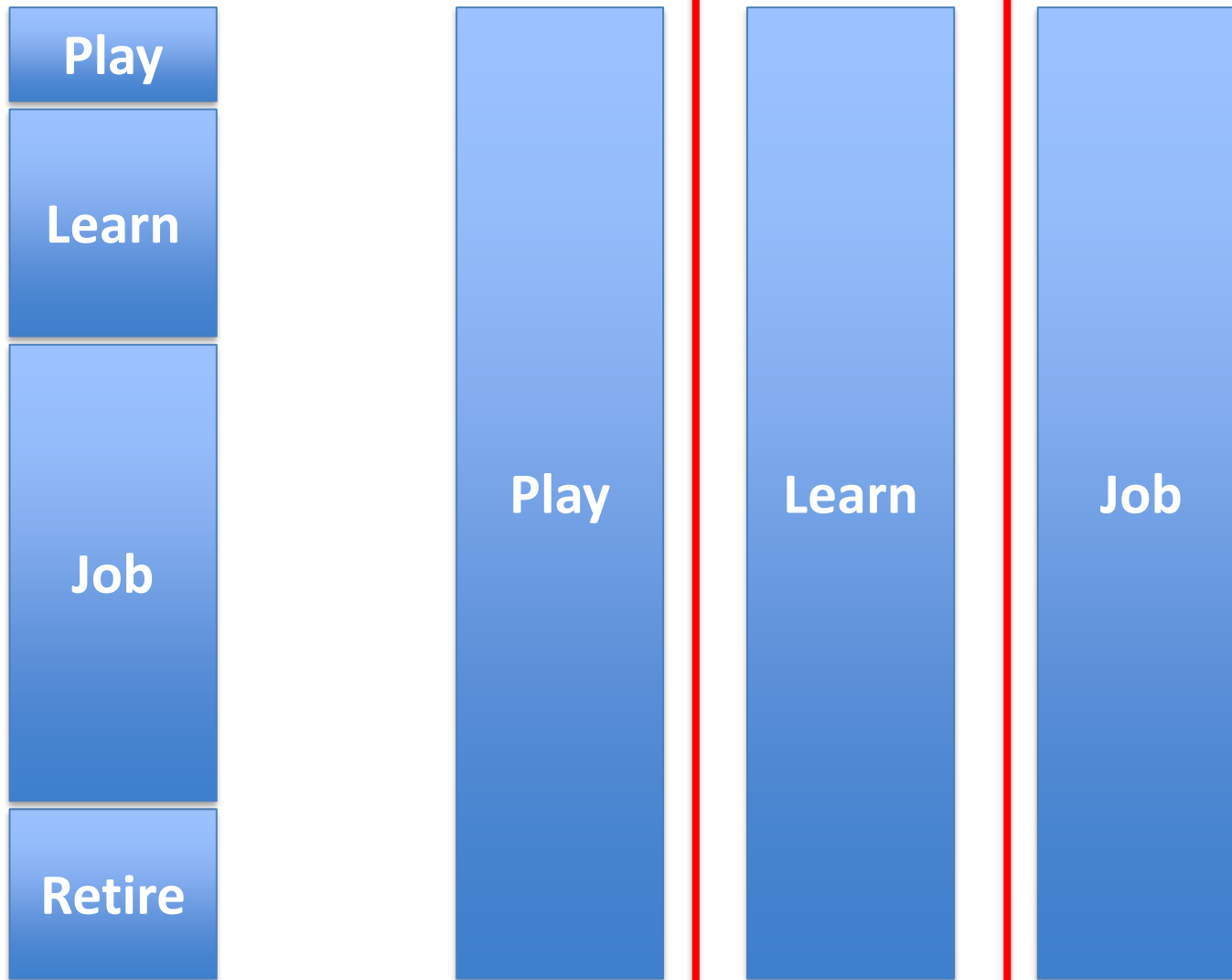
Demographic development

Changing working life as
consequence of
globalisation

The new paradigm of lifelong learning



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Top 10 skills

in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



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Latin America at a crossroads

Nearly two decades into the digital revolution, Latin America finds itself at a crossroads. More and **more traditional jobs** are **disappearing** and the global **economy is increasingly run on knowledge and skills** that require significant **investment in education and digital infrastructure**. At the same time, the Fourth Industrial Revolution offers the prospect of harnessing data and digital technologies to speed up modernization and the opportunity to **strengthen Latin American economies and governments by using data**.



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OF THE WORLD

14 March 2018



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Brazil

State of play
and challenges



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Impressive progress has been made in the past 26 years; with significant human development gains in all regions and major progress among least developed countries. Since 1990, the global Human Development Index (HDI) value has increased by more than 20 percent and that of the least developed countries by more than 45 percent.

Human Development
Report **2016**



Human Development for Everyone

And there are encouraging signs of change in the region that must not be overlooked. For a start, most Ibero-American countries have seen good progress in increasing school enrolment, resulting in improvements of up to 24% in Brazil, Colombia and Mexico between 2003 and 2015. More importantly, countries like Brazil, Colombia and Peru have been able to significantly increase the share of children getting access to secondary education – while still improving overall learning outcomes. Perhaps most intriguingly, in most countries in the region we find educational excellence among some of the most disadvantaged schools.

Amidst progress, poverty and exclusion among some groups persist in Latin America and the Caribbean, Report finds Development gaps for women, indigenous peoples, remote dwellers and other groups set to widen unless deep-rooted development barriers, including violence, discrimination and unequal political participation, are tackled.

Human Development
Report **2016**



Human Development for Everyone

Over the past two decades, strong growth combined with remarkable social progress has made Brazil one of the world's leading economies. However, Brazil remains a highly unequal country, recent corruption allegations have revealed significant challenges in economic governance and the situation of its fiscal accounts is challenging with high and rising public debt (OECD, 2018).

However, Brazil remains one of the most unequal countries in the world. Half of the population receives 10% of total household incomes, while other half holds 90%. Severe inequalities continue to put women, racial minorities and youths at a disadvantage. Male workers are paid 50% more than women, a gap that is 10 percentage points higher than the OECD average. Women are also more likely to have informal employment. Poverty is highest among children and unemployment among youths is more than twice the overall average. These inequalities tend to feed off of each other, considerably limiting the ability of part of the population to fulfil their productive potential and improve their lives. Brazil

Human Development Report 2016

Human Development for Everyone



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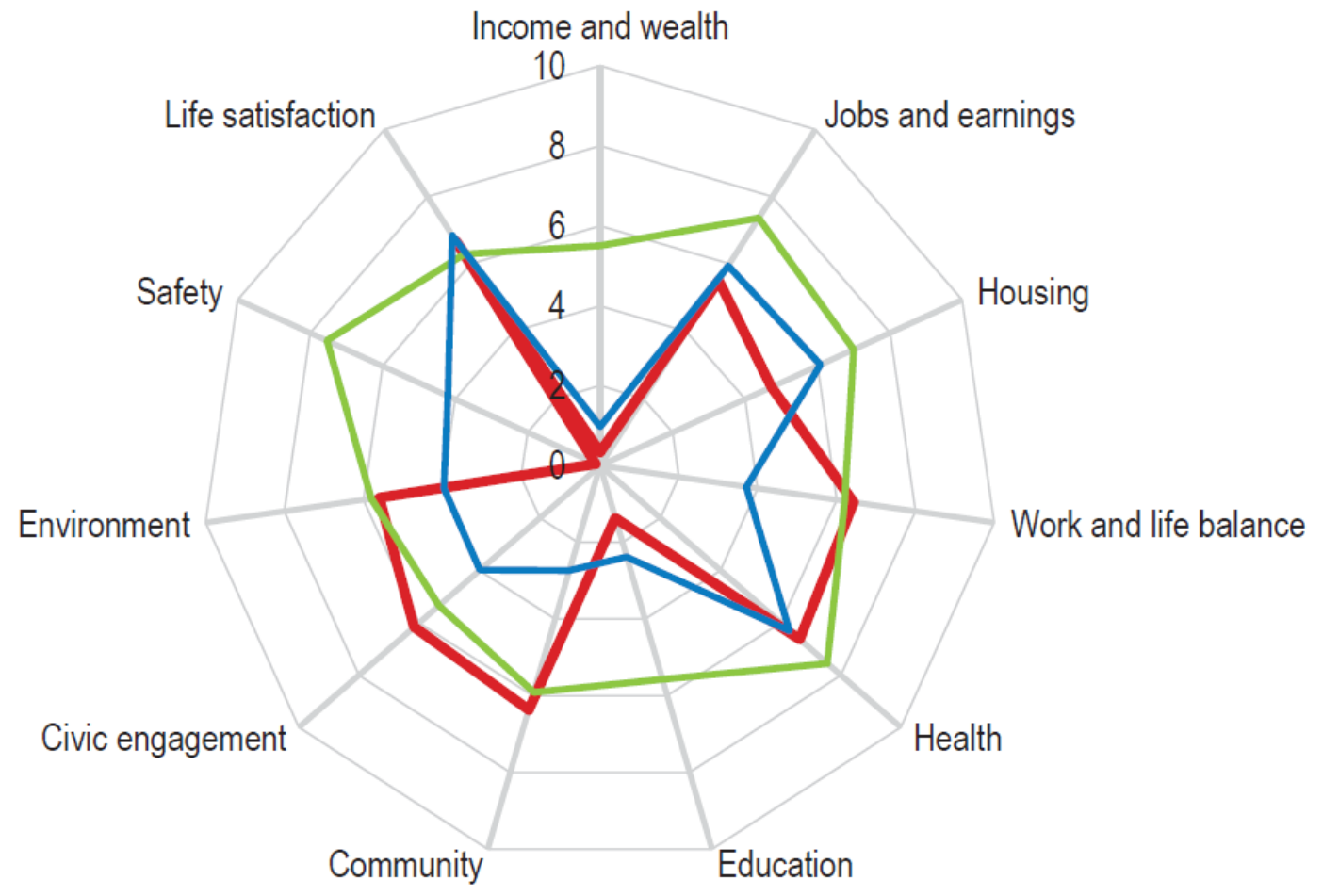
Table 1. Human Development Index and its components

HDI rank	Country	Human Development Index (HDI)	Life expectancy at birth	Expected years of schooling	Mean years of schooling	Gross national income (GNI) per capita	GNI per capita rank minus HDI rank	HDI rank
		Value	(years)	(years)	(years)	(2011 PPP \$)	2015	2014
VERY HIGH HUMAN DEVELOPMENT								
1	Norway	0.949	81.7	17.7	12.7	67,614	5	1
2	Australia	0.939	82.5	20.4	13.2	42,822	19	3
2	Switzerland	0.939	83.1	16.0	13.4	56,364	7	2
4	Germany	0.926	81.1	17.1	13.2	45,000	13	4
5	Denmark	0.925	80.4	19.2	12.7	44,519	13	6
5	Singapore	0.925	83.2	15.4	11.6	78,162	-3	4
HIGH HUMAN DEVELOPMENT								
52	Belarus	0.796	71.5	15.7	12.0	15,629	19	51
52	Oman	0.796	77.0	13.7	8.1	34,402	-21	53
54	Barbados	0.795	75.8	15.3	10.5	14,952	20	54
54	Uruguay	0.795	77.4	15.5	8.6	19,148	8	54
56	Bulgaria	0.794	74.3	15.0	10.8	16,261	13	57
56	Kazakhstan	0.794	69.6	15.0	11.7	22,093	-3	56
77	Mexico	0.762	77.0	13.3	8.6	16,383	-9	77
78	Azerbaijan	0.759	70.9	12.7	11.2	16,413	-12	77
79	Brazil	0.754	74.7	15.2	7.8	14,145	-1	79
79	Grenada	0.754	73.6	15.8	8.6	11,502	13	80
81	Bosnia and Herzegovina	0.750	76.6	14.2	9.0	10,091	22	82
82	The former Yugoslav Republic of Macec	0.748	75.5	12.9	9.4	12,405	5	83
83	Algeria	0.745	75.0	14.4	7.8	13,533	-1	84

Figure 1. Well-being indicators

OECD Better life index

- BRAZIL
- OECD
- Average of Chile and Mexico



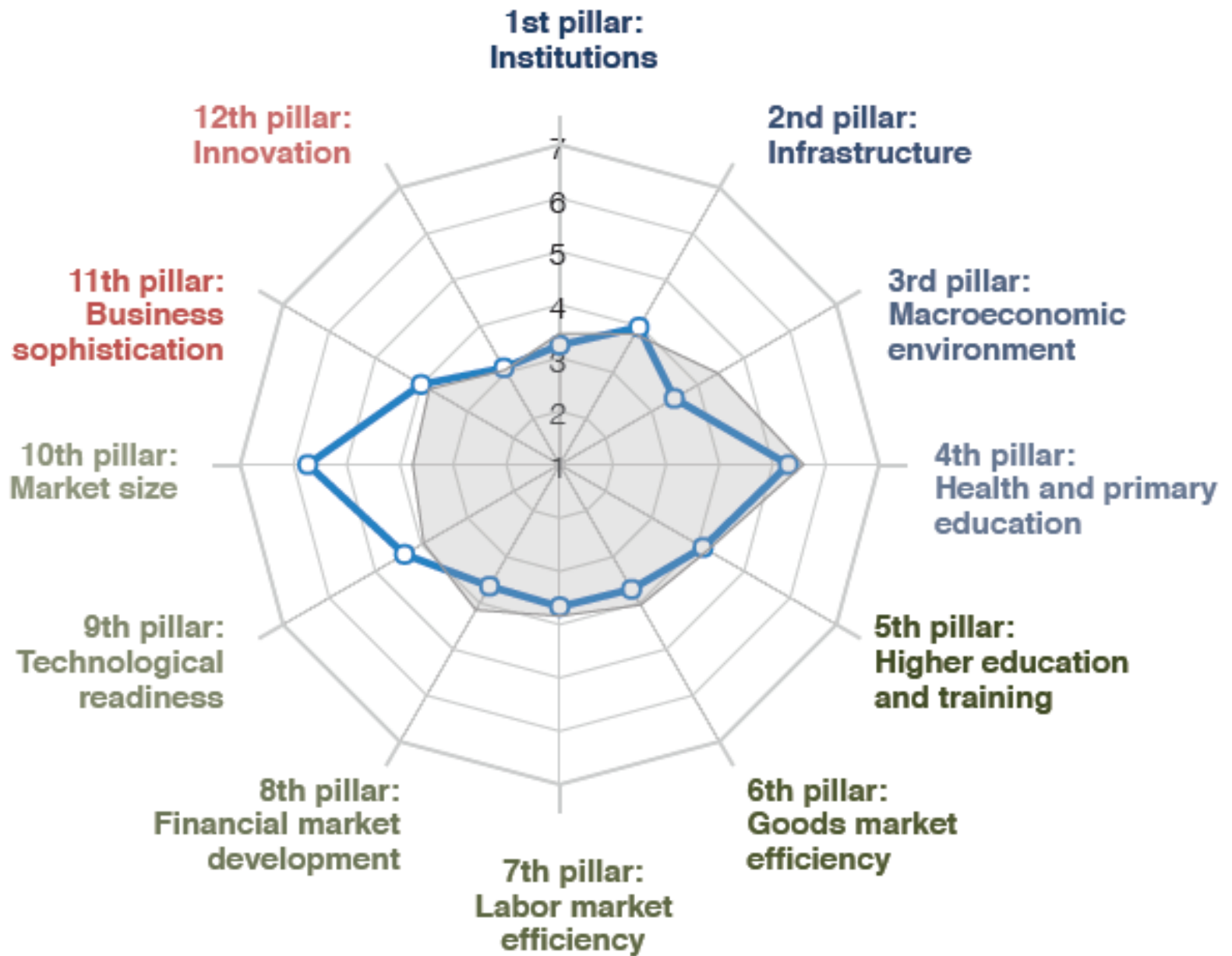


	Economy	Score ¹	Prev. ²	Trend ³
1	Switzerland	5.86	1	
2	United States	5.85	3	
3	Singapore	5.71	2	
4	Netherlands	5.66	4	
5	Germany	5.65	5	
6	Hong Kong SAR	5.53	9	
<hr/>				
78	Serbia	4.14	90	
79	Tajikistan	4.14	77	
80	Brazil	4.14	81	
81	Ukraine	4.11	85	
82	Bhutan	4.10	97	
83	Trinidad and Tobago	4.09	94	

Ranking

The Global
Competitiveness Report
2016–2017

	Economy	Score ¹	Prev. ²	Trend ³
1	Switzerland	5.81	1	
2	Singapore	5.72	2	
3	United States	5.70	3	
4	Netherlands	5.57	5	
5	Germany	5.57	4	
↓ ↓				
79	Armenia	4.07	82	
80	Albania	4.06	93	
81	Brazil	4.06	75	
82	Montenegro	4.05	70	
83	Cyprus	4.04	65	



■ Brazil ■ Latin America and the Caribbean

Insight Report

The Global Competitiveness Report
2016–2017

Brazil

80th / 137

The Global Competitiveness Index 2017-2018 edition



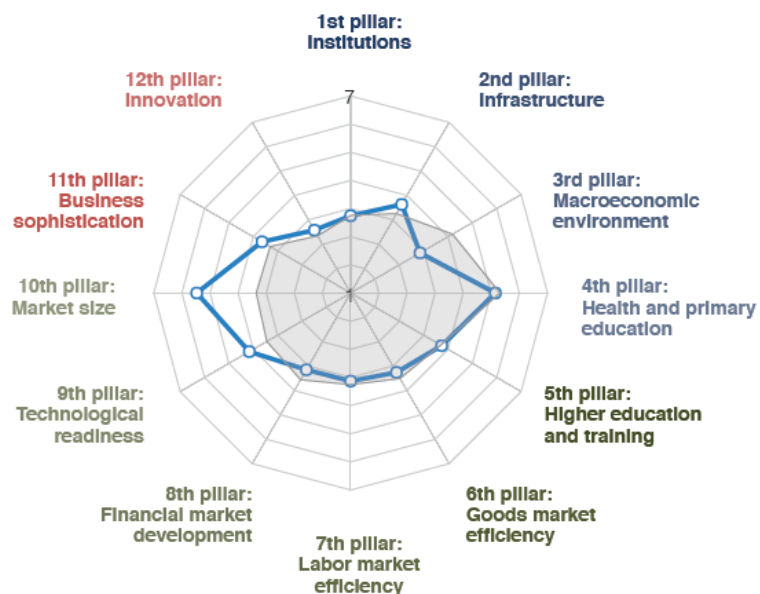
Key indicators, 2016

Source: International Monetary Fund; World Economic Outlook Database (April 2017)

Population millions	206.1	GDP per capita US\$	8,726.9
GDP US\$ billions	1,798.6	GDP (PPP) % world GDP	2.62

Performance overview

Index Component	Rank/137	Score (1-7)	Trend	Distance from best	Edition	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Global Competitiveness Index	80	4.1			Rank	48 / 144	56 / 148	57 / 144	75 / 140	81 / 138	80 / 137
Subindex A: Basic requirements	104	4.1			Score	4.4	4.3	4.3	4.1	4.1	4.1
1st pillar: Institutions	109	3.4									
2nd pillar: Infrastructure	73	4.1									
3rd pillar: Macroeconomic environment	124	3.4									
4th pillar: Health and primary education	96	5.4									
Subindex B: Efficiency enhancers	60	4.3									
5th pillar: Higher education and training	79	4.2									
6th pillar: Goods market efficiency	122	3.8									
7th pillar: Labor market efficiency	114	3.7									
8th pillar: Financial market development	92	3.7									
9th pillar: Technological readiness	55	4.6									
10th pillar: Market size	10	5.7									
Subindex C: Innovation and sophistication factors	65	3.7									
11th pillar: Business sophistication	56	4.1									
12th pillar: Innovation	85	3.2									



■ Brazil ■ Latin America and the Caribbean

Performance overview







































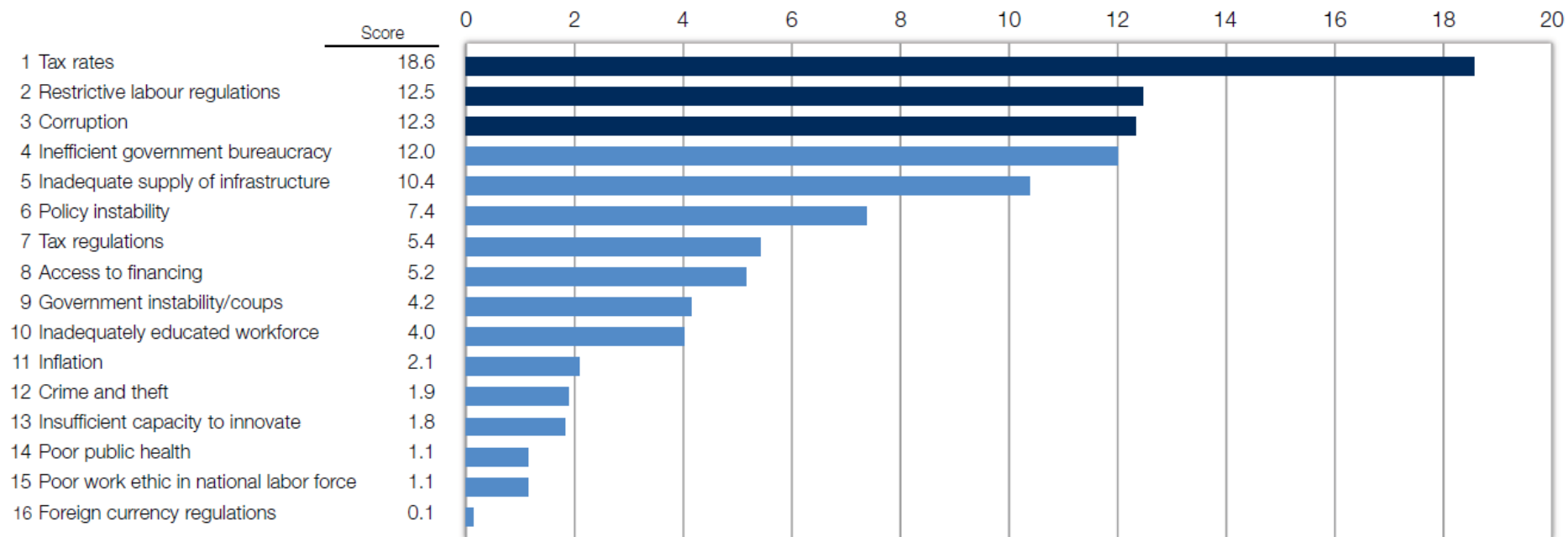
Index Component	Rank/137	Score (1-7)	Trend	Distance from best
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Subindex C: Innovation and sophistication factors	65	3.7		
 11th pillar: Business sophistication	56	4.1		
 12th pillar: Innovation	85	3.2		

Figure 4: Most problematic factors for doing business in Brazil

Source: World Economic Forum, Executive Opinion Survey 2017.



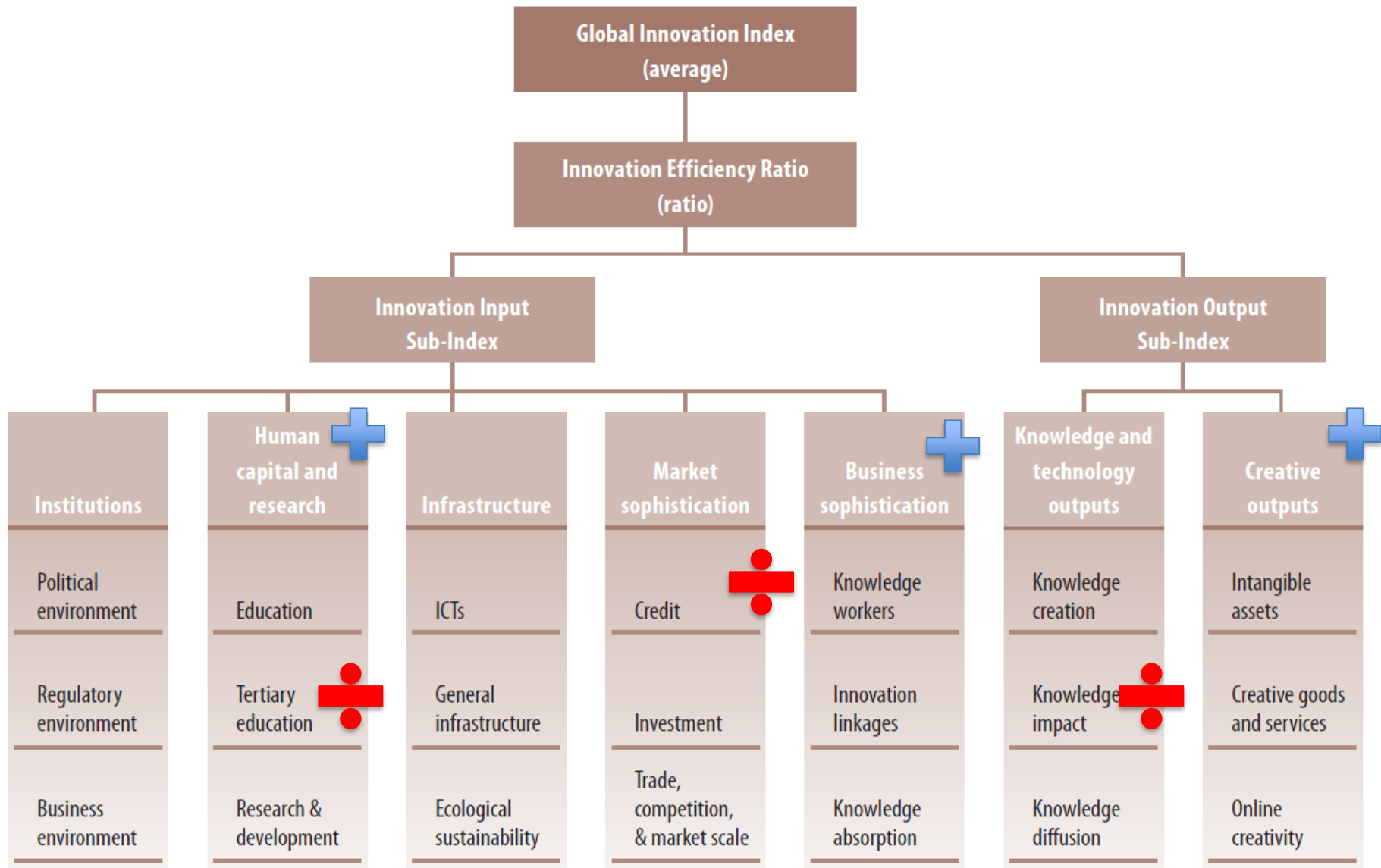
	Score
1 Tax rates	18.6
2 Restrictive labour regulations	12.5
3 Corruption	12.3

Figure 1: Framework of the Global Innovation Index 2017

The Global Innovation Index 2017

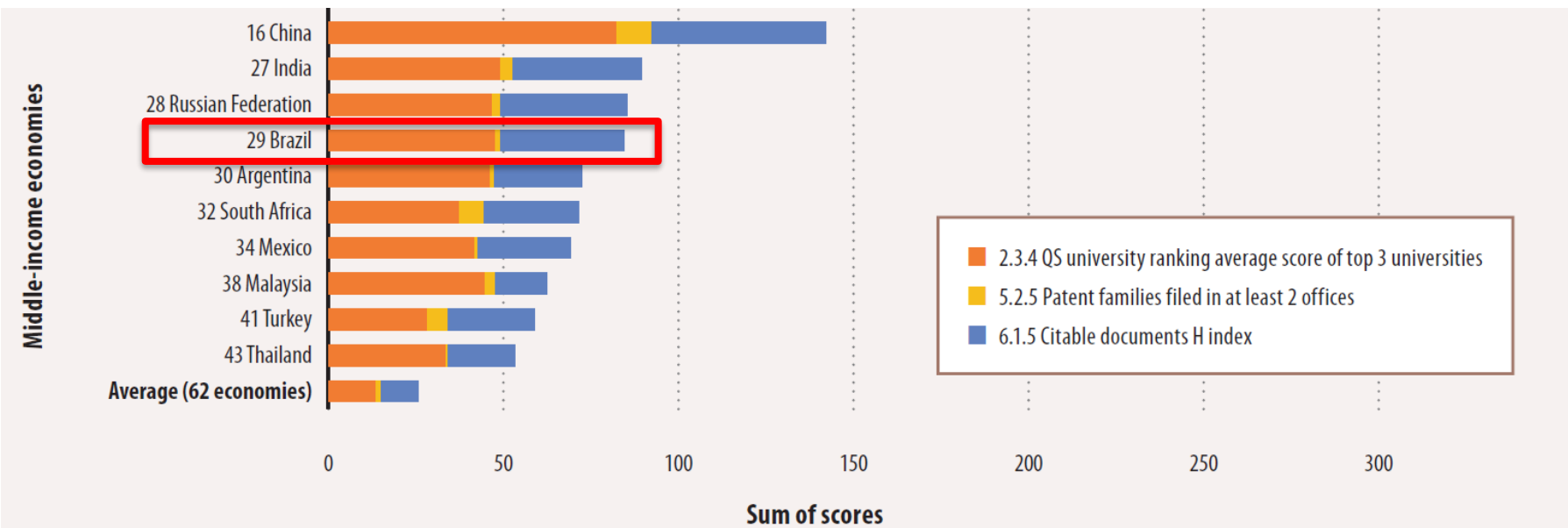
Innovation Feeding the World

TENTH EDITION



Global Innovation Index 2017 rankings

Country/Economy	Score (0–100)	Rank	Income	Rank	Region	Rank	Efficiency Ratio	Rank	Median: 0.62
Switzerland	67.69	1	HI	1	EUR	1	0.95	2	
Sweden	63.82	2	HI	2	EUR	2	0.83	12	
Netherlands	63.36	3	HI	3	EUR	3	0.93	4	
United States of America	61.40	4	HI	4	NAC	1	0.78	21	
United Kingdom	60.89	5	HI	5	EUR	4	0.78	20	
Uruguay	34.53	67	HI	45	LCN	6	0.59	82	
Georgia	34.39	68	IUM	17	NAWA	10	0.63	60	
Brazil	33.10	69	UM	18	LCN	7	0.52	99	
Peru	32.90	70	UM	19	LCN	8	0.49	106	
Brunei Darussalam	32.89	71	HI	46	SEAO	12	0.34	124	
Morocco	32.72	72	LM	7	NAWA	11	0.61	71	
Philippines	32.48	73	LM	8	SEAO	13	0.65	55	



The Global Innovation Index 2017

Innovation Feeding the World

TENTH EDITION

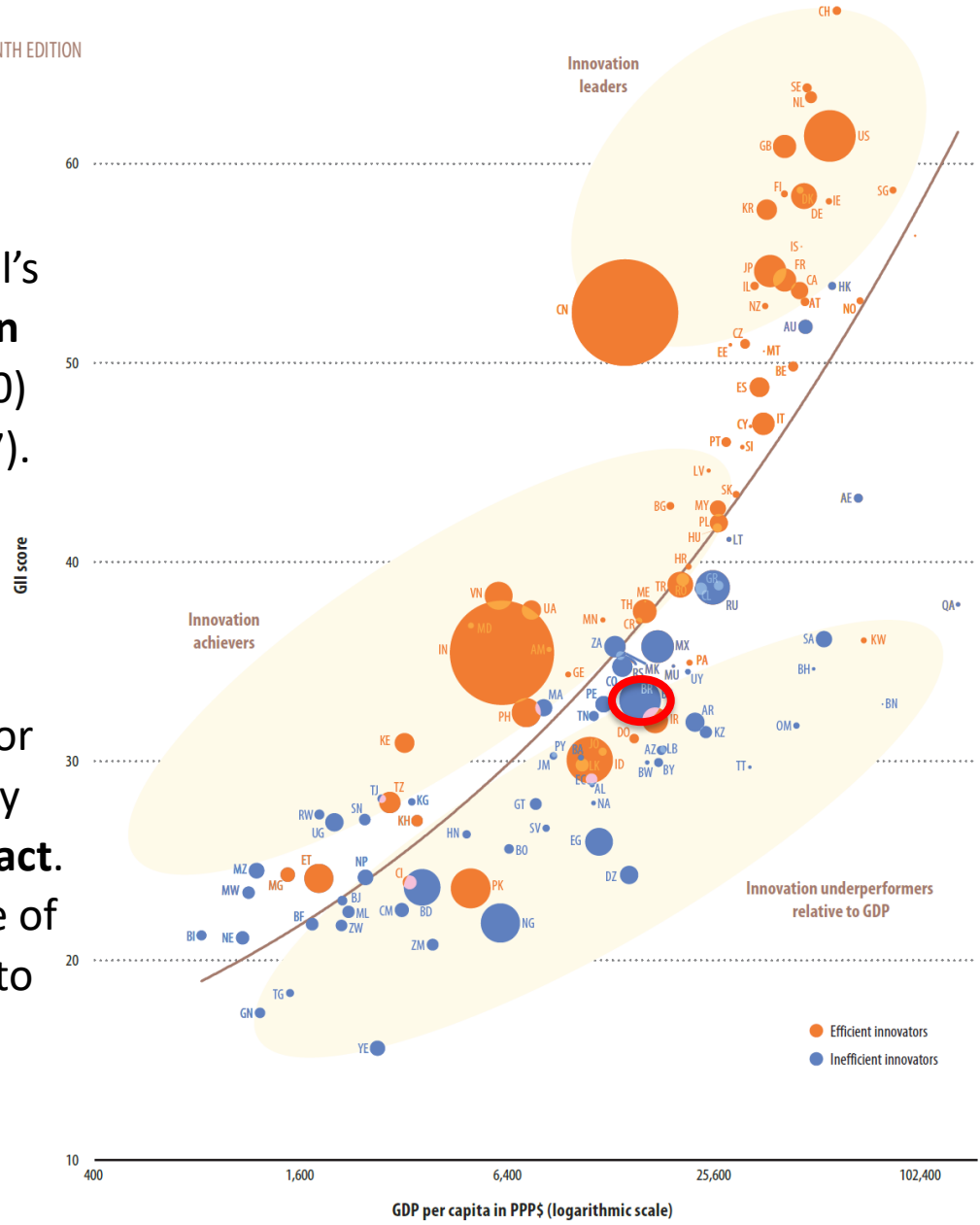


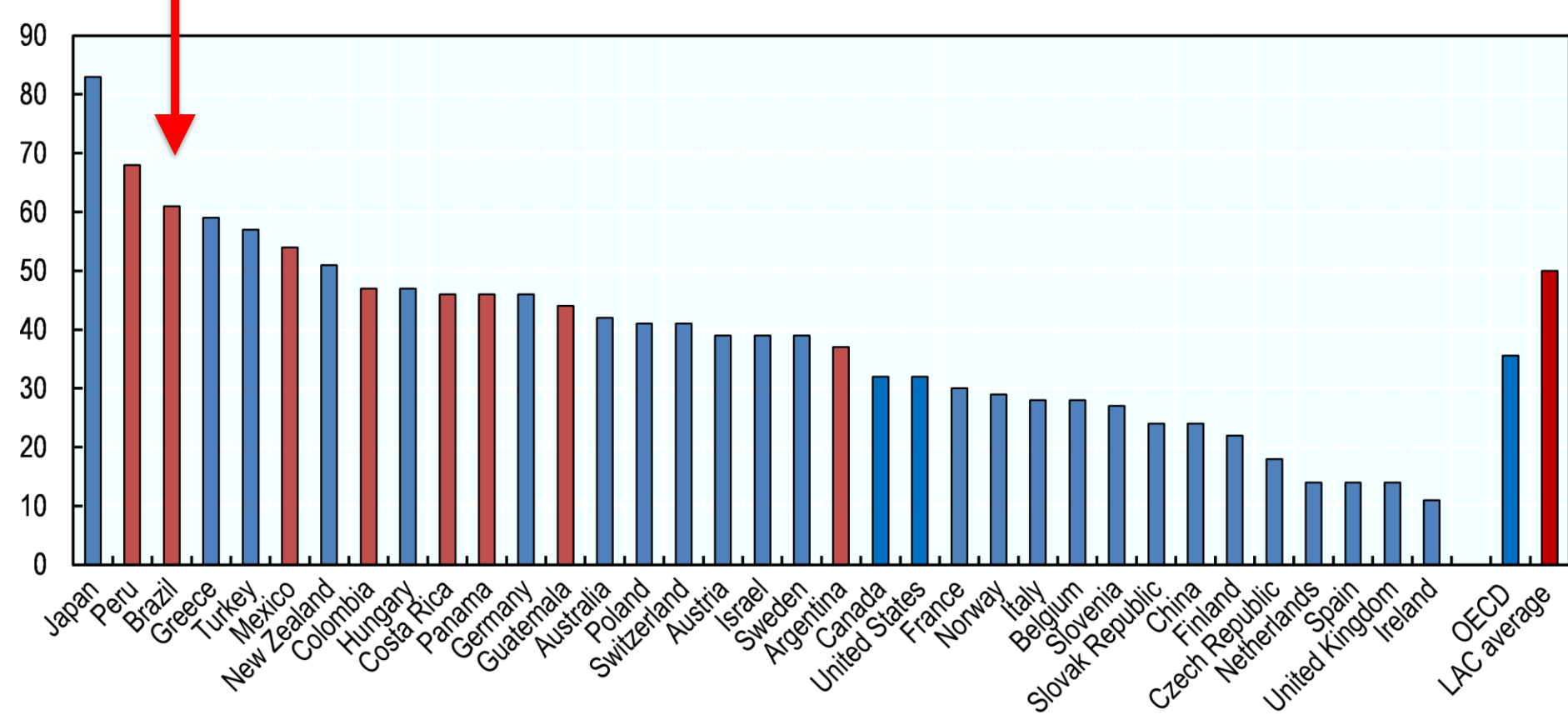
Plus

Brazil's strongest pillar ranking is in **Business sophistication** (43rd). Brazil's biggest improvements are in **Human capital and research** (50th, up by 10) and **Creative outputs** (83rd, up by 7).

Minus

Tertiary education still have room for improvement, Brazil is also relatively weak in **Credit** and **Knowledge impact**. Persistence will be needed in a time of political and economic uncertainty to benefit from the economic uptick.



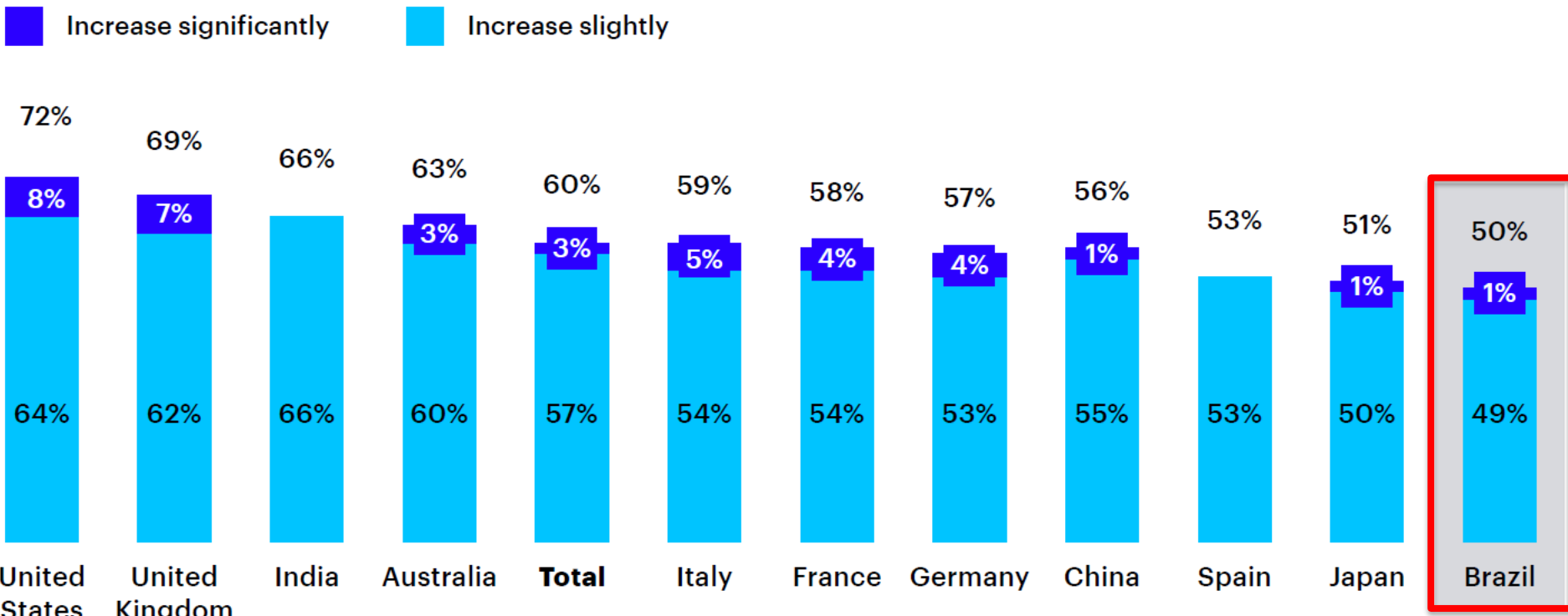


Skills shortage in Latin America and OECD countries (Percentage of formal firms experiencing difficulty filling jobs, 2015)

Image: Manpower Group

CONCERN OVER THE SKILLS GAP IS NOT TRANSLATING INTO INVESTMENTS IN TRAINING

Considering the recent advances in intelligent technologies, how does your organization plan to change the proportion of investment in training and reskilling programs in the next 3 years?



Source: Accenture, 2018. Survey of 1,201 C-level business executives

Figure 3.1. Spending per student from the age of 6 to 15 and science performance



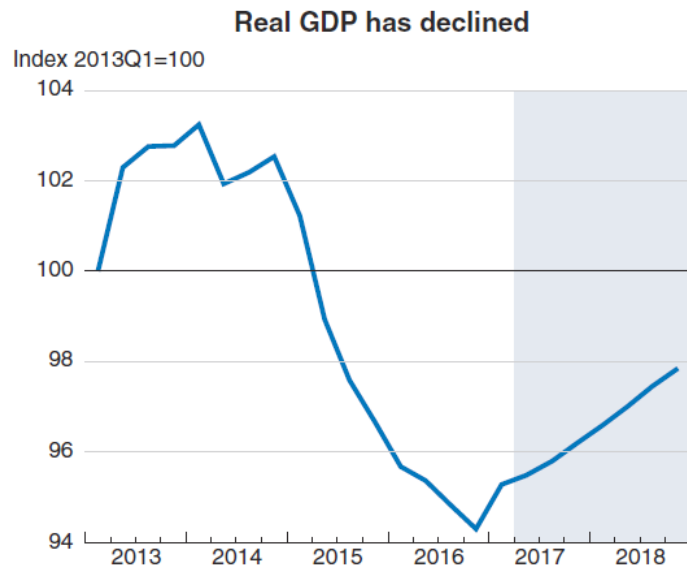
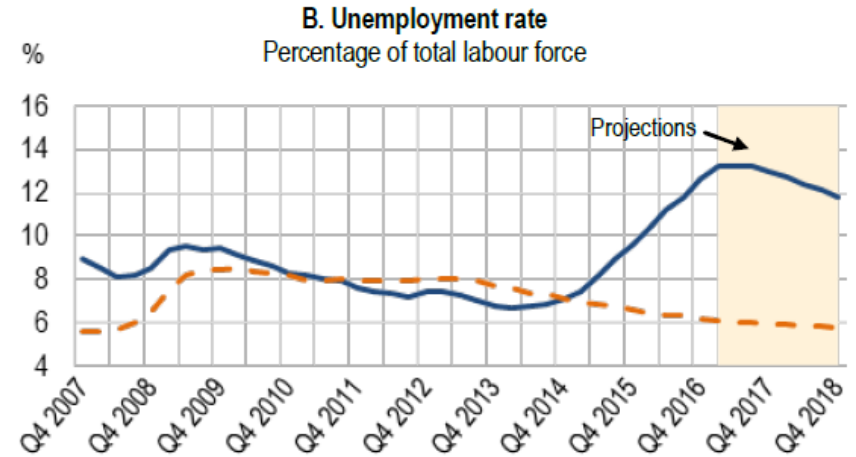
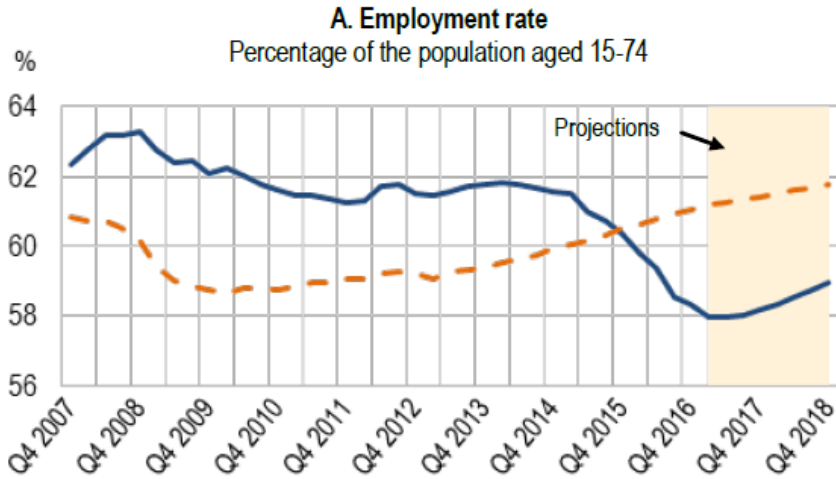
Brazil



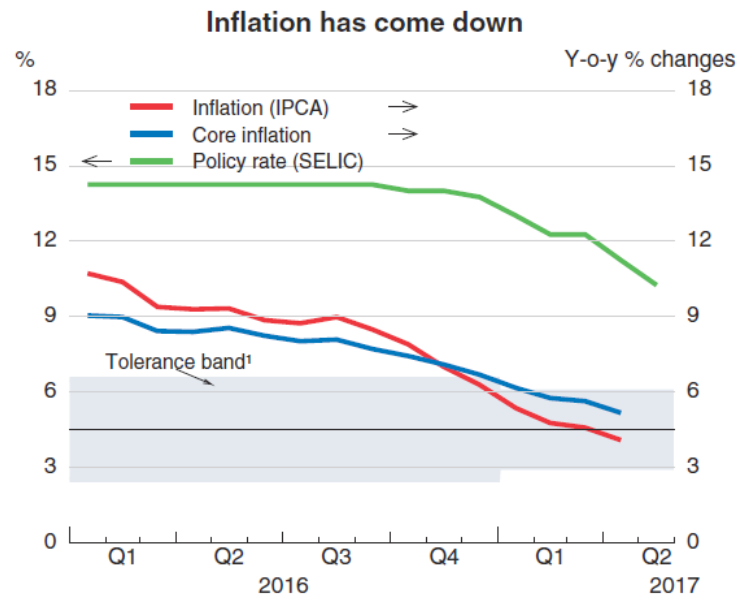
The Global Gender Gap Report 2016

	2016		2006	
	rank	score	rank	score
Global Gender Gap Index	79	0.687	67	0.654
Economic participation and opportunity	91	0.640	63	0.604
<u>Educational attainment</u>	42	0.998	74	0.972
Health and survival	1	0.980	1	0.980
Political empowerment	86	0.132	86	0.061
rank out of	144		115	

— Brazil - - - - - OECD



Brazil





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Brazil and the

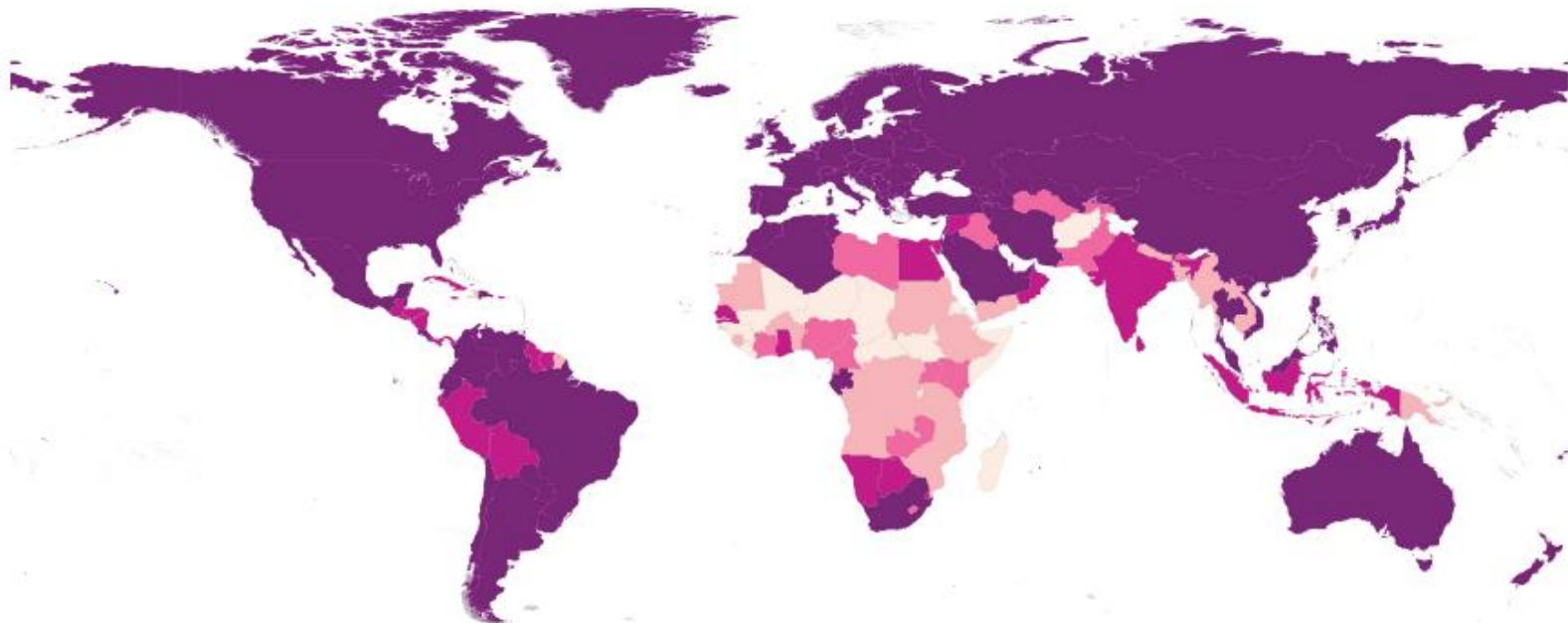
current big

change



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Proportion of youth (15-24) using the Internet, 2017*

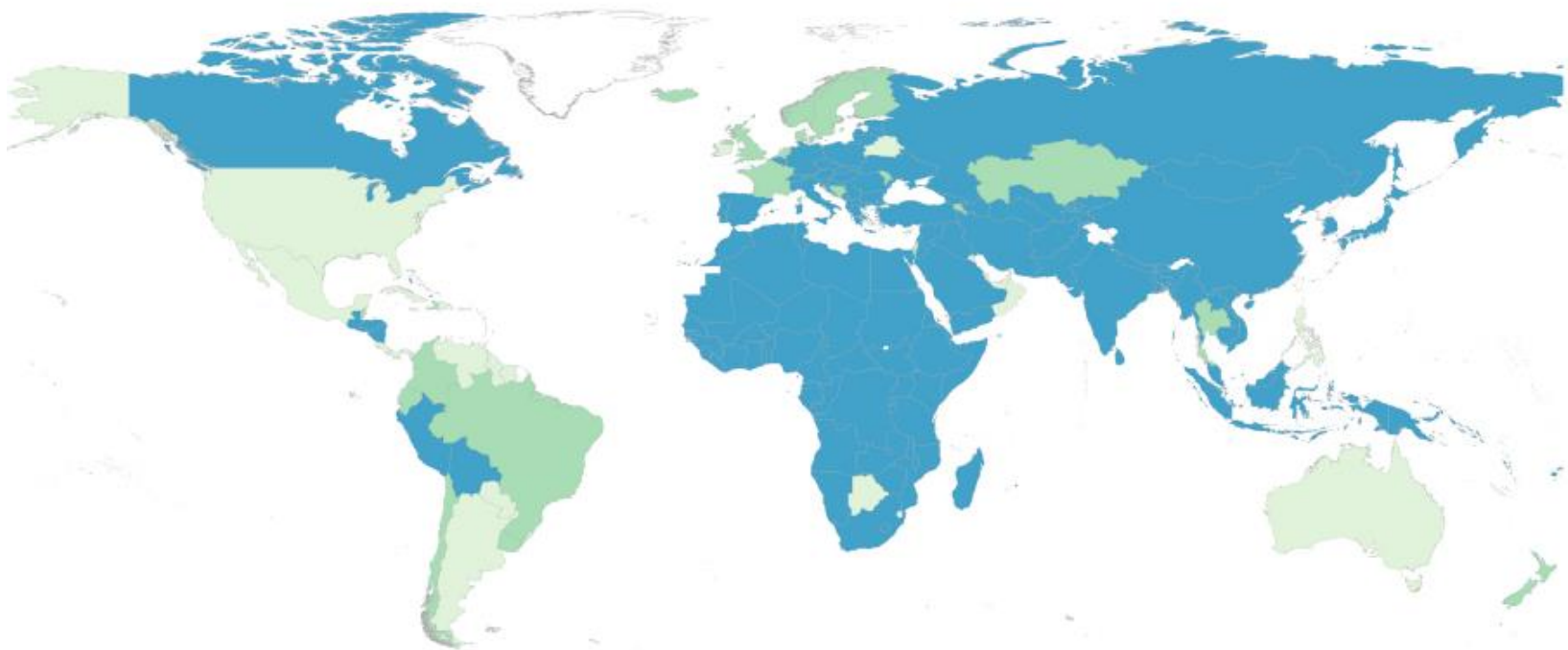


ICT
FACTS AND
FIGURES
2017





Proportion of individuals using the Internet, by gender, 2017*



■ Higher rate males ■ Higher rate females ■ Equal rates

Figure 1.1: Three stages in the evolution towards an information society

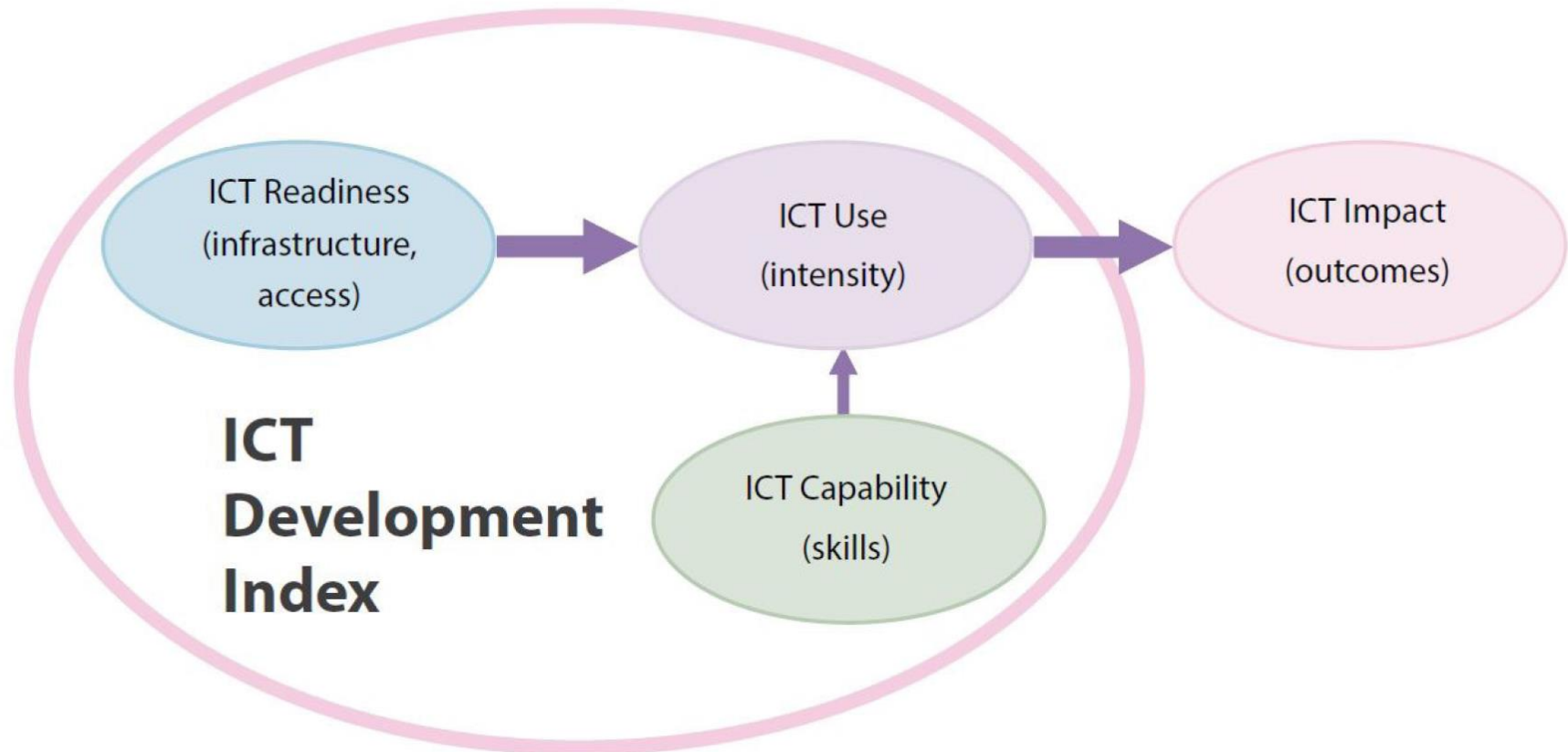
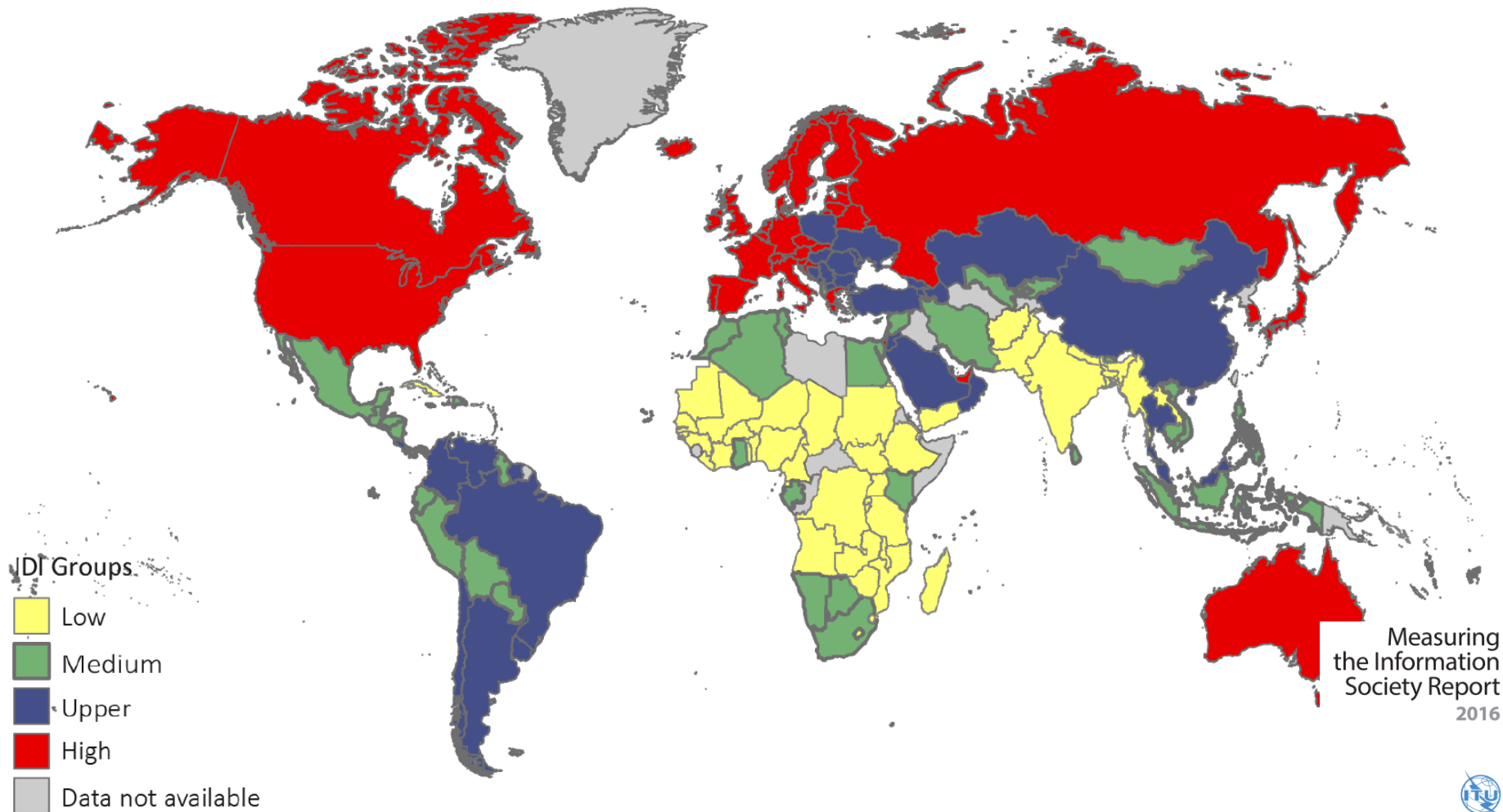


Figure 1.3: Geographical distribution of IDI quartiles, 2016





Population: **203,657,210**
Population density: **24.87**
GNI per capita: **9,850**
Region: **The Americas, Developing**



IDI 2016 Rank

63

IDI 2015 Rank

65

IDI 2016 Value

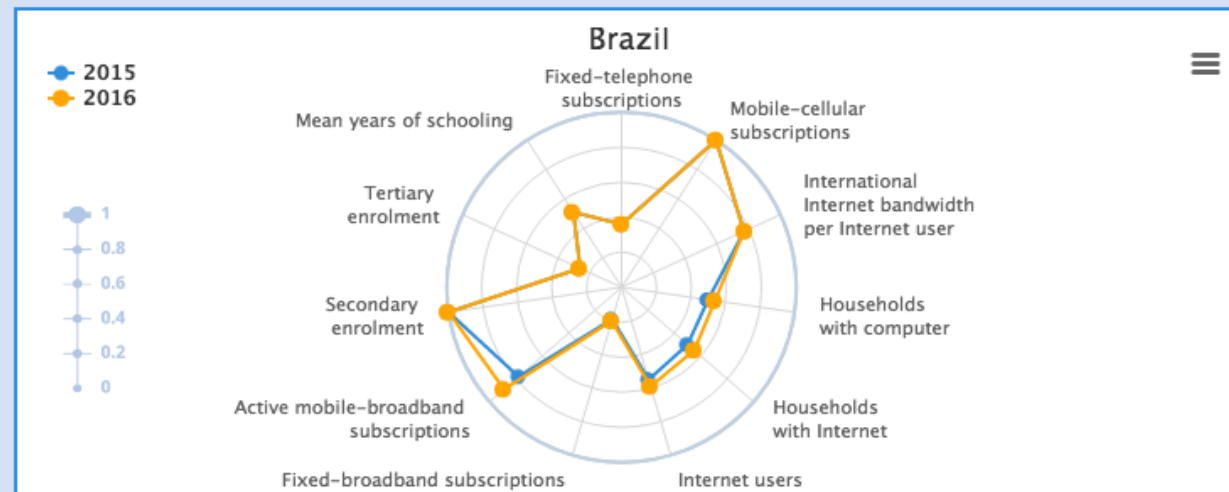
5.99

IDI 2015 Value

5.72

Regional
IDI 2015
Rank

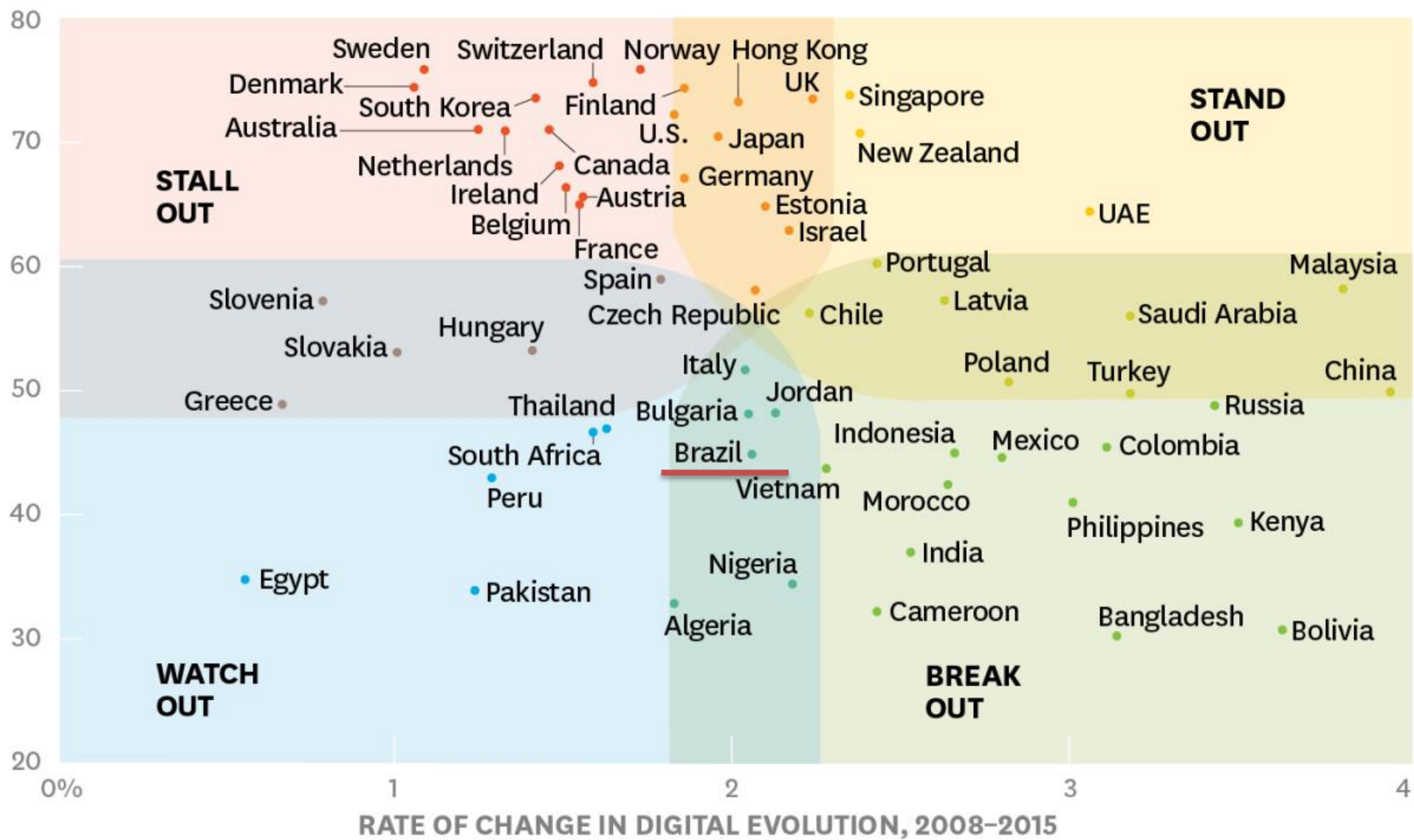
9



Plotting the Digital Evolution Index, 2017

Where the digital economy is moving the fastest, and where it's in trouble.

HOW COUNTRIES SCORED ACROSS FOUR DRIVERS ON THE DIGITAL EVOLUTION INDEX (OUT OF 100)





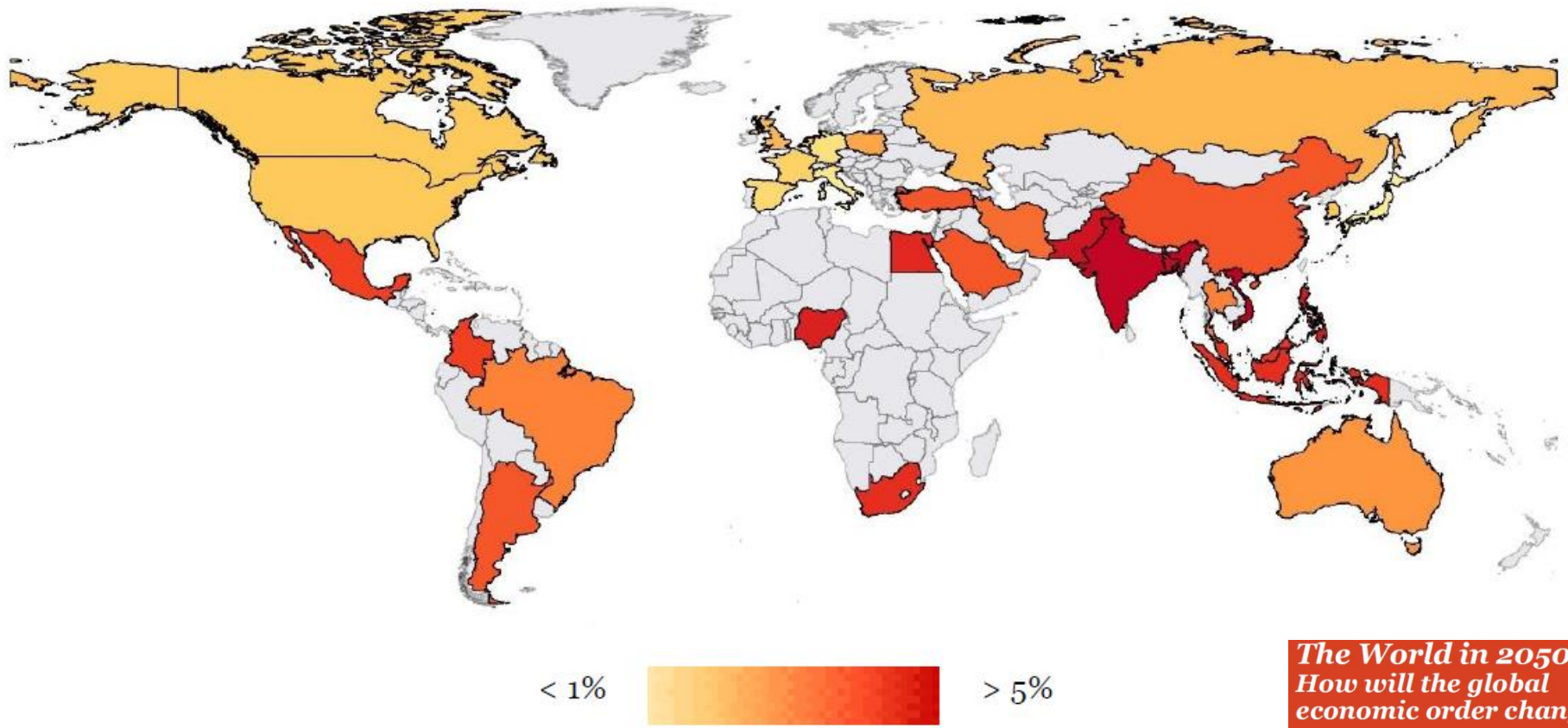
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The future

3.2 Projected real GDP growth

The top 15 fastest growing large economies over the next 34 years are all developing and emerging market economies, with 9 being from South and Southeast Asia, as shown in Map 3. This is in line with established theory of economic convergence that, other things being equal, a low initial level of economic development provides more opportunities for catch-up with higher income countries.

Map 3: Average annual real GDP growth rate, 2016-2050



**The World in 2050:
How will the global
economic order change?**

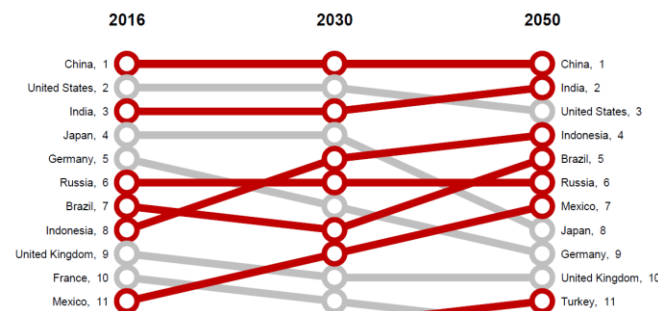
February 2017
www.pwc.com

Source: PwC analysis

Emerging markets will dominate the world's top 10 economies in 2050 (GDP at PPPs)

	2016	2050	
China	1	1	China
US	2	2	India
India	3	3	US
Japan	4	4	Indonesia
Germany	5	5	Brazil
Russia	6	6	Russia
Brazil	7	7	Mexico
Indonesia	8	8	Japan
UK	9	9	Germany
France	10	10	UK

Figure 2: Projected GDP rankings (at PPPs)



The World in 2050:
How will the global economic order change?

February 2017

www.pwc.com



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Innovate

transform learning

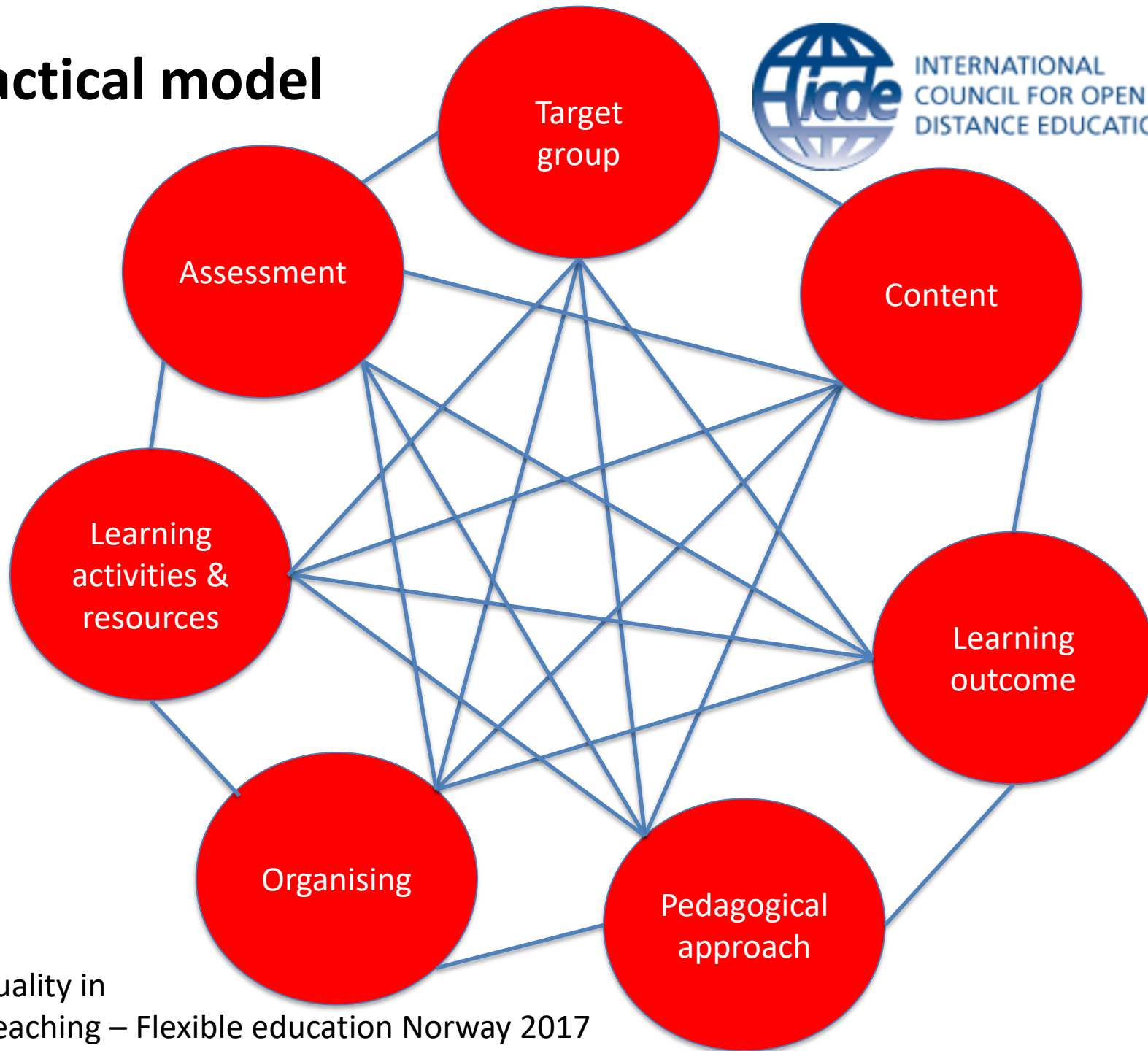
transform society

transform lives

Didactical model



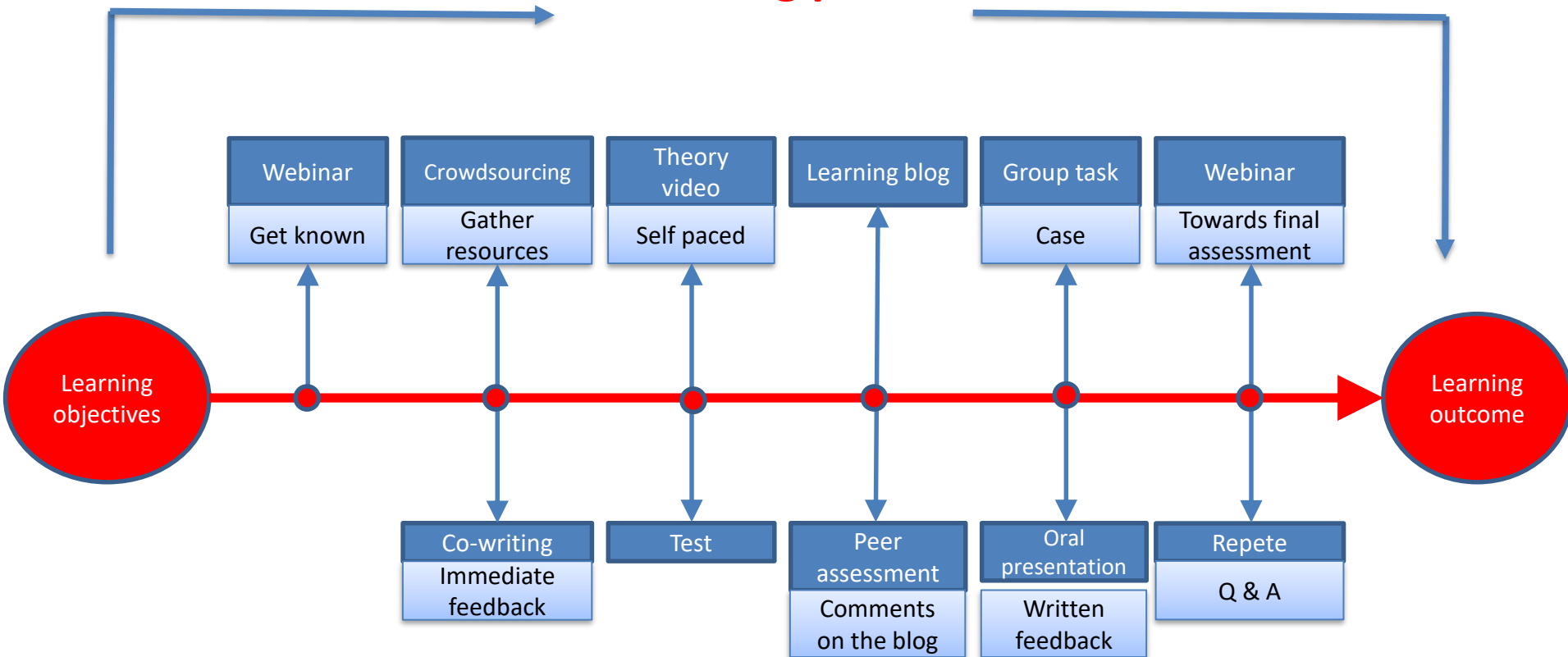
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From: Quality in
Online teaching – Flexible education Norway 2017



Learning process

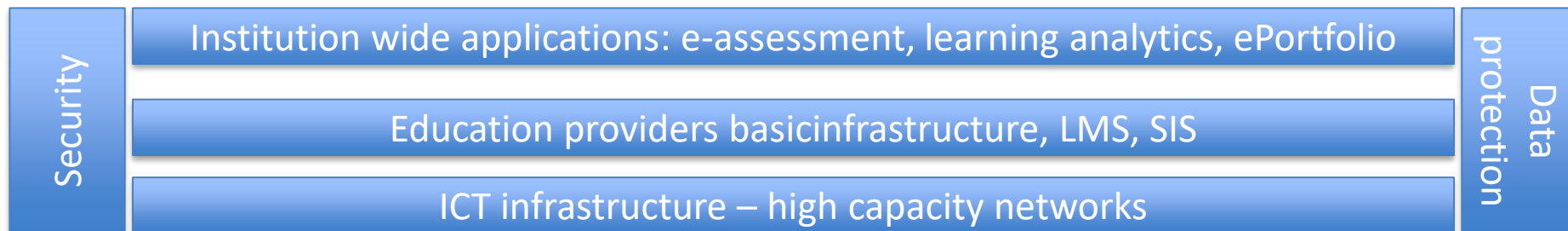
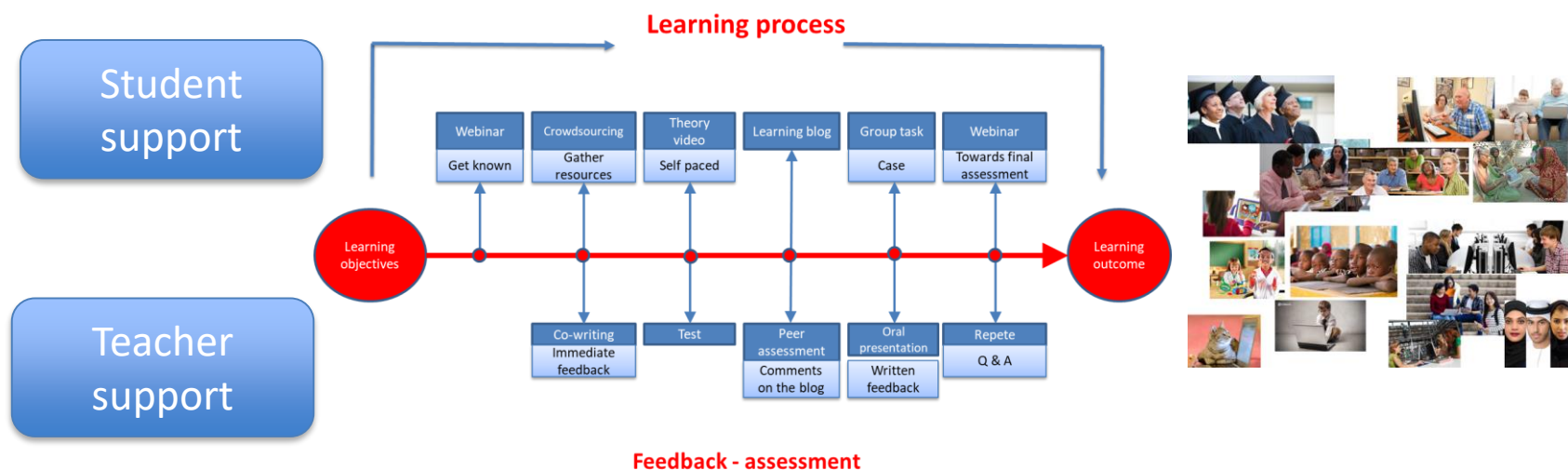
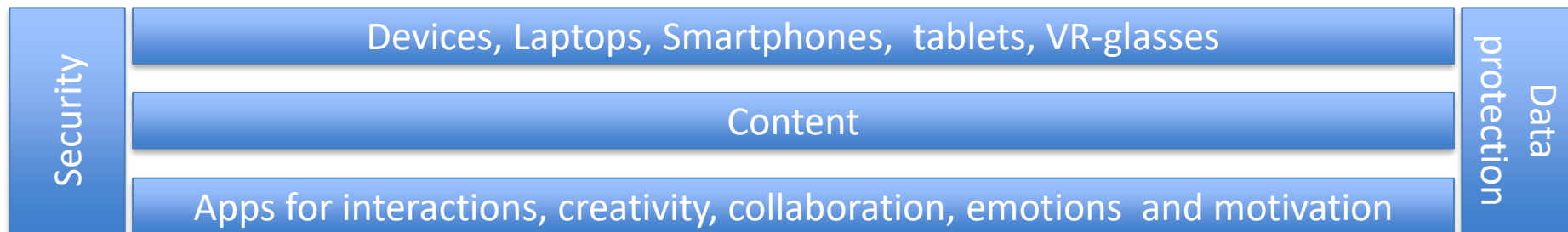


Feedback - assessment

Facilitating innovative pedagogy



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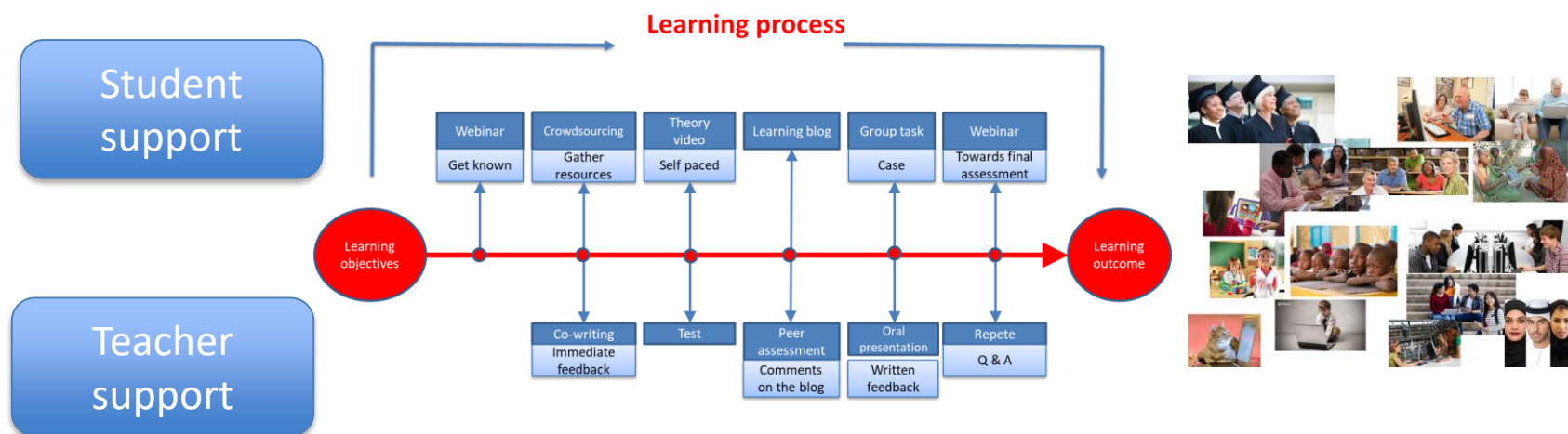


Facilitating innovative pedagogy

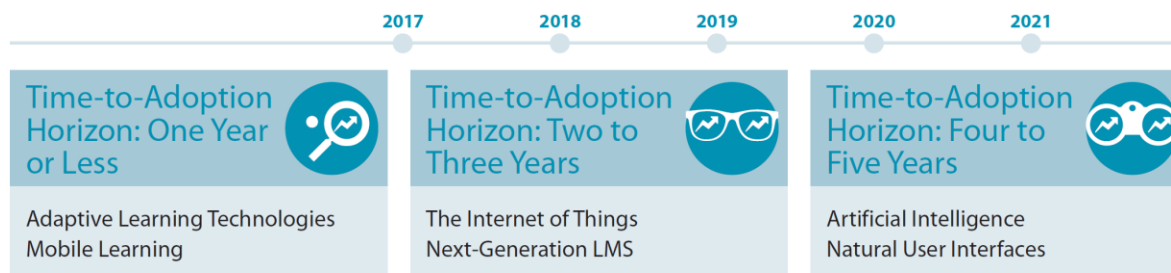


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Time to market →



Important Developments in Technology for Higher Education



Innovate
and
transform

Test



Education 2030



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The **vision** is that for the first time in human history it is possible to achieve **inclusive and equitable quality education and lifelong learning for all.**

(Sustainable Development Goal 4)

Enabled by Open and Digitalisation





United Nations
Educational, Scientific and
Cultural Organization



Sustainable
Development
Goals

Technology Transformation for Pedagogy Innovation



Prof. Dae Joon Hwang, Sungkyunkwan University, Seoul, Korea, djwang@skku.edu
UNESCO IITE Governing Board Member, Moscow

What is our ultimate goal?



The 2017 Dujiangyan International Forum: Ensuring the Quality of Education and Lifelong Learning through ICT, 13-14
July 2017, Chengdu, China

I INTERNATIONAL MEETING
ON MANAGEMENT AND REGULATION
OF HEALTH WORK

MARCH 26-28, 2018



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THANK YOU!

titlestad@icde.org

www.icde.org

Sustainable Development Goal 4: **Education 2030**

**“TOWARDS INCLUSIVE AND EQUITABLE
QUALITY EDUCATION AND LIFELONG
LEARNING FOR ALL”**