







GLOBAL INNOVATION INDEX 2018

Energizing the World with Innovation









Introduction to the Global Innovation Index



- 11th year of publication
- Measures innovation across 126 economies
- Goes beyond narrow metrics such as R&D spending and patents
- A 'tool for action' for decision makers
- Complementary ranking of world's top-100 science and technology clusters
- Thematic discussion: energy innovation



INSTITUTIONS

Political environment Regulatory environment

Business environment

HUMAN CAPITAL AND RESEARCH

Education
Tertiarty education

Research & development

INFRASTRUCTURE

ICTs

General infrastructure Ecological sustainability

MARKET SOPHISTICATION

Credit

Investment

Trade, competition, & market scale

BUSINESS SOPHISTICATION

Knowledge workers Innovation linkages Knowledge absorbtion

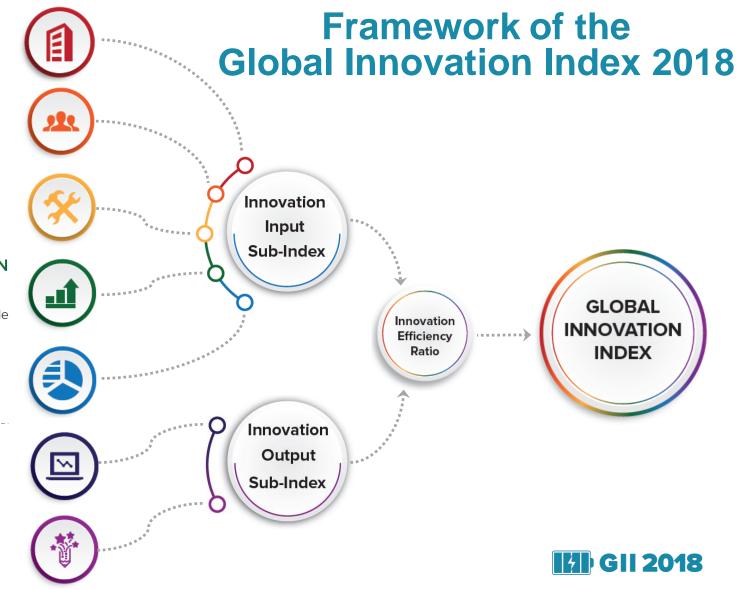
KNOWLEDGE AND TECHNOLOGY OUTPUTS

Knowledge creation Knowledge impact

Knowledge difusion

CREATIVE OUTPUTS

Intangible assets Creative goods and services Online creativity



Global rankings of GII 2018 (top 10)

Input

- 1. Singapore
- 2. Switzerland
- 3. Sweden
- 4. United Kingdom
- 5. Finland
- 6. USA
- 7. Denmark
- 8. Hong Kong (China)
- 9. Netherlands
- 10. Canada

Output

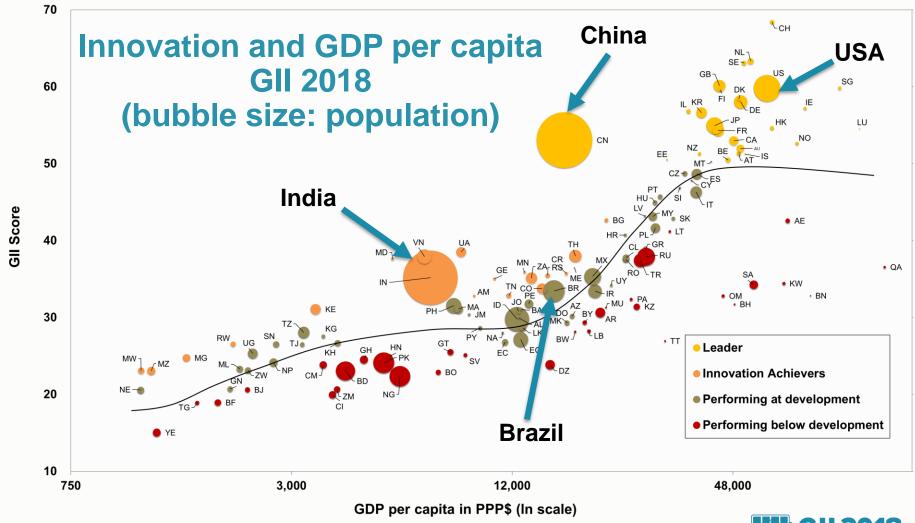
- 1. Switzerland
- 2. Netherlands
- 3. Sweden
- 4. Luxembourg
- 5. Germany
- 6. United Kingdom
- 7. USA
- 8. Finland
- 9. Ireland
- 10. China

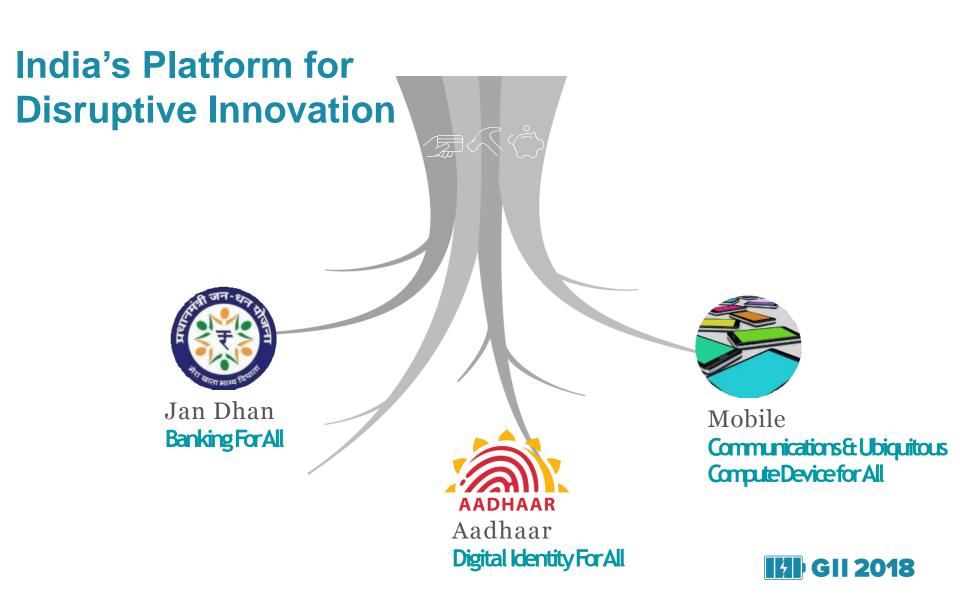
GII

- 1. Switzerland
- 2. Netherlands
- 3. Sweden
- 4. United Kingdom
- 5. Singapore
- 6. USA
- 7. Finland
- 8. Denmark
- 9. Germany
- 10.Ireland

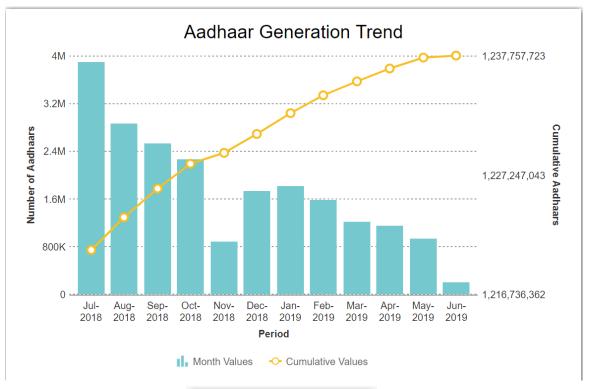
India: 57 Brazil: 64







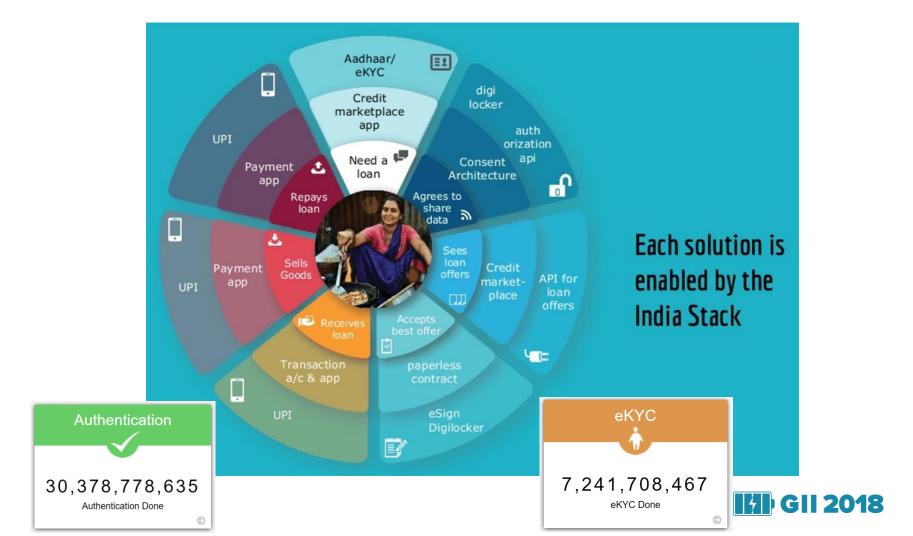
India Innovation Initiative - Aadhar







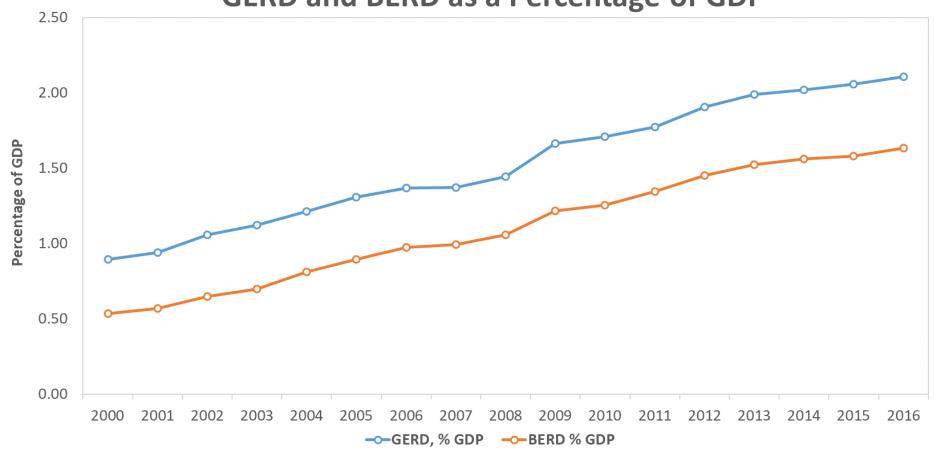
India Innovation Initiative – India Stack



China in Global Innovation Index 2018

China's Ranking over time					
	GII	Input	Output	Efficiency	
2018	17	27	10	3	
2017	22	31	11	3	
2016	25	29	15	7	
2015	29	41	21	6	

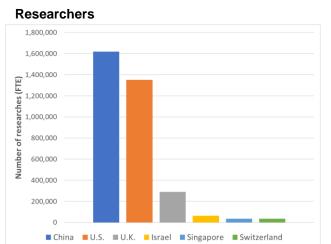
GERD and **BERD** as a Percentage of **GDP**

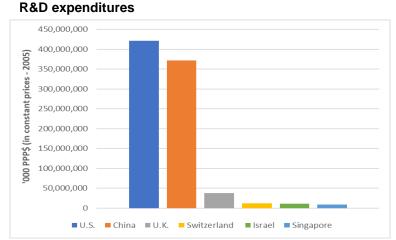


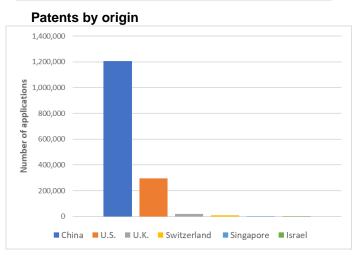


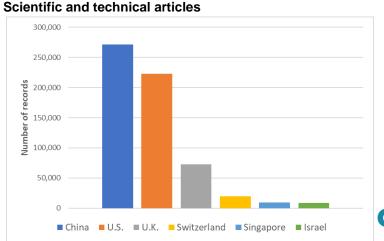
China in the GII – Performance in Absolute Values

China at the top of the Big Asian Movers in absolute terms in key innovation indicators









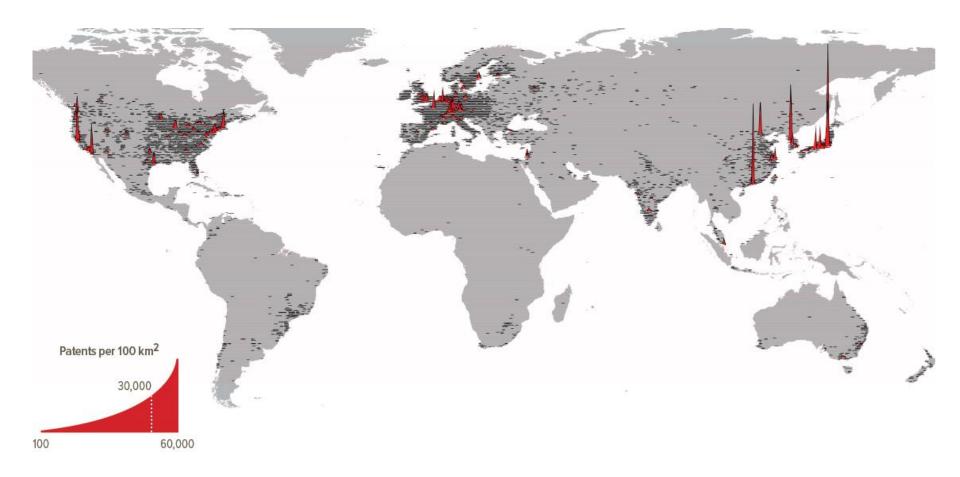


Brazil in the GII: Strengths and Weaknesses

Strengths	Weaknesses	
 Expenditure on education (23rd) 	Business environment (110 th)	
 R&D expenditures (27th) 	 East of starting a business (123rd) 	
 Global R&D by companies (22nd) 	• Credit (104 th)	
 High-tech imports (23rd) 	Applied tariff rate (106 th)	
 Domestic market scale (8th) 	 Gross capital formation (104th) 	
Quality of scientific publications	 Productivity growth (101st) 	
(23 rd)	 New businesses (98th) 	
 Hight-tech exports (35th) 		

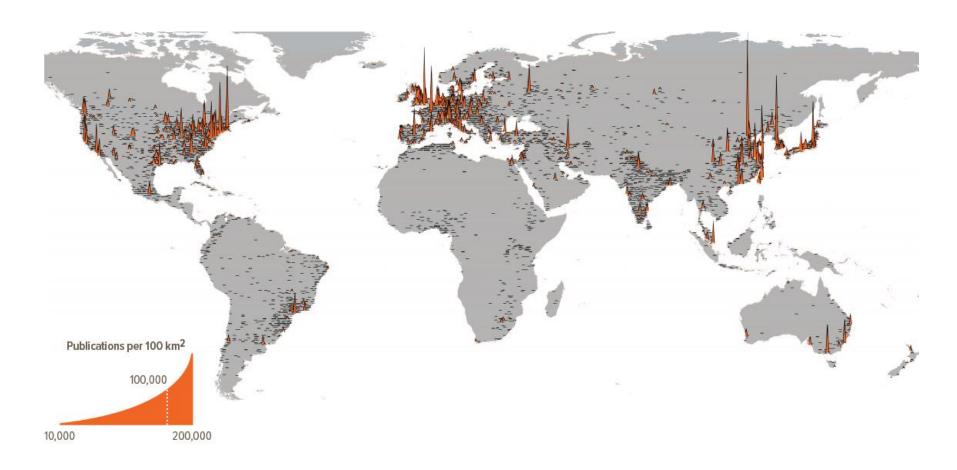


Inventors listed in international patent applications





Authors of scientific journal articles



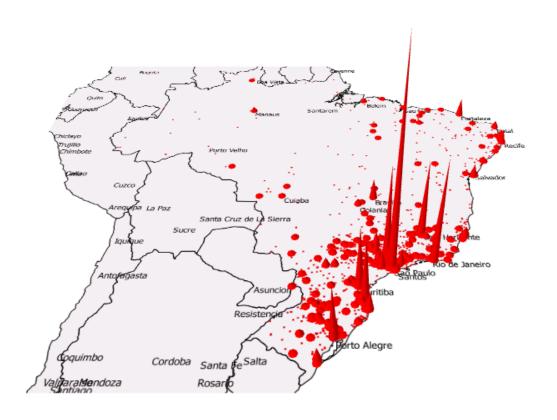


Top science and technology clusters

Overall Rank	Cluster name	Patent rank	Scientific publication rank
1	Tokyo-Yokohama	1	2
2	Shenzhen-Hong Kong (China)	2	1
3	Seoul	3	3
4	San Jose–San Francisco, CA	4	10
5	Beijing	8	1
6	Osaka-Kobe-Kyoto	5	13
7	Boston-Cambridge, MA	9	6
8	New York, NY	11	4
9	Paris	10	9
10	San Diego, CA	7	41

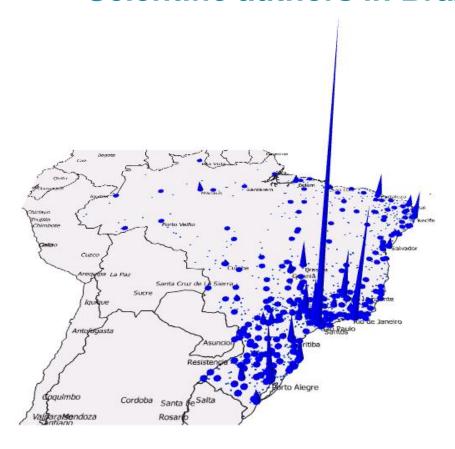


Inventors listed in patents in Brazil





Scientific authors in Brazil





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