







# GLOBAL INNOVATION INDEX 2018

Energizing the World with Innovation









## WIPO and the Sustainable Development Goals

- The mission of the World Intellectual Property Organization (WIPO) is to promote an effective and balanced intellectual property system that stimulates innovation and creativity
- As innovation is at the core of WIPO's mission, SDG 9 is the most central to WIPO's mandate SDG 9: Build resilient infrastructure, promote sustainable industrialization and foster innovation
- The achievement of many other SDGs on education, health, energy and others depends on innovative technologies and their diffusion to where they are needed
- WIPO's activities span from providing a neutral forum for developing global IP rules to providing a large range of services and knowledge products for a range for stakeholders



### **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

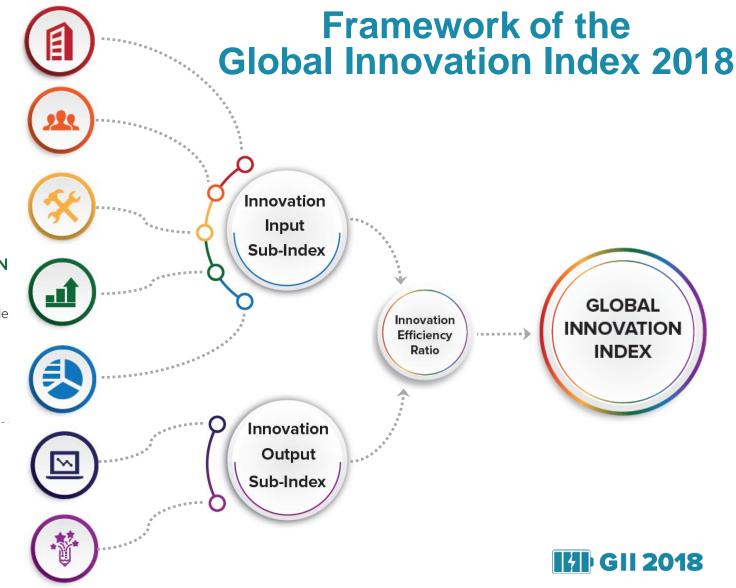
# KNOWLEDGE AND TECHNOLOGY OUTPUTS

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

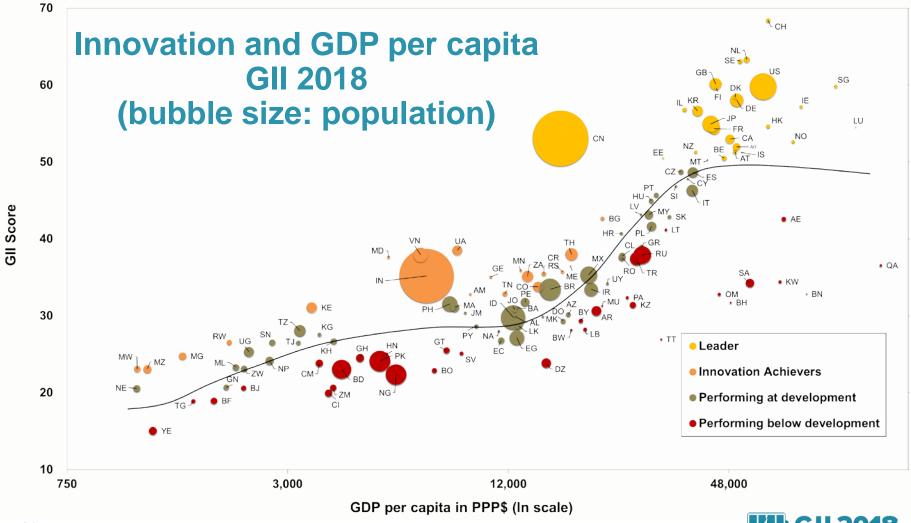
- 1. Switzerland
- 2. Netherlands
- 3. Sweden
- 4. Luxembourg
- 5. Germany
- 6. United Kingdom
- 7. USA
- 8. Finland
- 9. Ireland
- 10. China

### GII

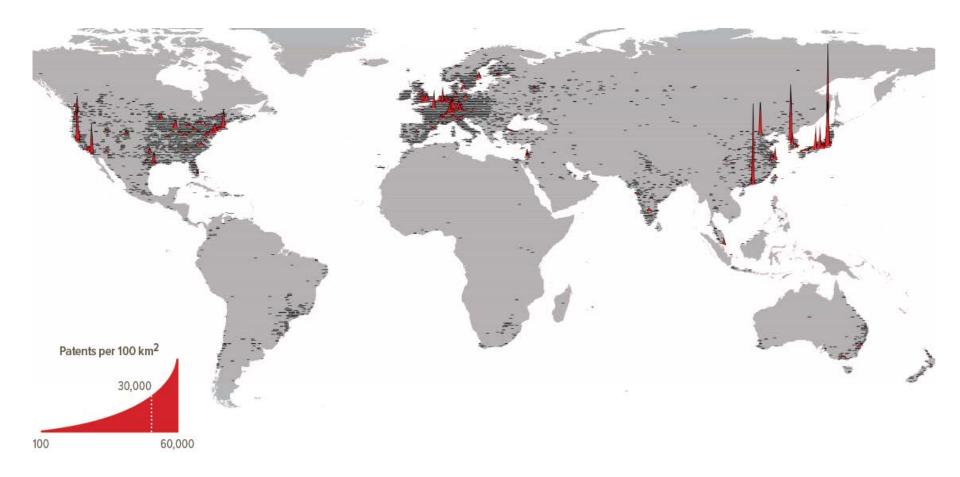
- 1. Switzerland
- 2. Netherlands
- 3. Sweden
- 4. United Kingdom
- 5. Singapore
- 6. USA
- 7. Finland
- 8. Denmark
- 9. Germany
- 10.Ireland





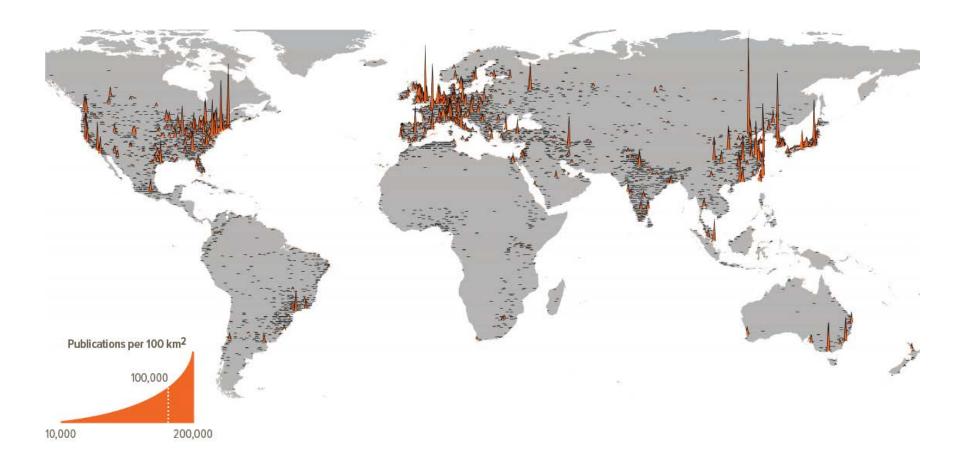


# Inventors listed in international patent applications





# **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



### Energizing the World with Innovation – GII 2018

- Technological progress has dramatically changed the way energy is supplied, distributed and consumed
- Costs of renewable energy have decreased at a remarkable pace
- Further innovation including the dissemination of new technologies is needed to meet future energy needs in a sustainable way
- Public policy matters: funding, mitigating investment risks, setting regulatory incentives that promote innovation and adoption

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