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 of 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
Framework of the Global Innovation Index 2018

INSTITUTIONS
Political environment
Regulatory environment
Business environment

HUMAN CAPITAL AND RESEARCH
Education
Tertiary 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 diffusion

CREATIVE OUTPUTS
Intangible assets
Creative goods and services
Online creativity

GLOBAL INNOVATION INDEX
Innovation Input Sub-Index

Innovation Efficiency Ratio

Innovation Output Sub-Index
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
Innovation and GDP per capita
GII 2018
(bubble size: population)
Inventors listed in international patent applications
Authors of scientific journal articles
# Top science and technology clusters

<table>
<thead>
<tr>
<th>Overall Rank</th>
<th>Cluster name</th>
<th>Patent rank</th>
<th>Scientific publication rank</th>
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<tr>
<td>1</td>
<td>Tokyo–Yokohama</td>
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<td>2</td>
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<td>2</td>
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<td>3</td>
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<td>San Diego, CA</td>
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- 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