

**TABLE 36:8. [Global Innovation Index](#) 2018 Metrics and Sources**

A total of 57 variables are hard data; 18 are composite indicators from international agencies, and 5 are survey questions from the World Economic Forum’s Executive Opinion Survey (EOS), (Appendix III, pg. 351)

NOTE: See Appendix 36.A for definitions of the different patents.

| PILLARS - INNOVATION INPUT Sub-Index   | SUB-PILLARS (most sub-pillars have additional indicators)   | SOURCES and NOTES  |
|--|---|--|
| 1. INSTITUTIONS                        | 1.1 Political environment<br>1.2 Regulatory environment<br>1.3 Business environment                         | Sources: World Bank, <a href="#">Worldwide Governance Indicators, 2017 update</a> .<br>World Bank, <a href="#">Ease of Doing Business Index 2018: Reforming to Create Jobs</a> )                       |
| <b>2. HUMAN CAPITAL &amp; RESEARCH</b> | <b>2.1 Education</b><br><b>2.2 Tertiary education</b><br><b>2.3 Research &amp; development</b>              | 2.1 includes OECD PISA scores<br>2.2.3 Inbound mobility used in university rankings for internationalism. Data from <a href="#">UNESCO</a><br>2.3.4 QS rankings average of top three university scores |
| 3. INFRASTRUCTURE                      | 3.1 Information & communication technologies<br>3.2 General Infrastructure<br>3.3 Ecological sustainability | See page 355 for a variety of indexes used   |
| 4. MARKET SOPHISTICATION               | 4.1 Credit<br>4.2 Investment<br>4.3 Trade, competition & market scale                                       | World Bank, IMF and other indexes from pages 356-357   |
| <b>5. BUSINESS SOPHISTICATION</b>      | 5.1 Knowledge workers<br><b>5.2 Innovation linkages</b>   | 5.2.1 Industry / University research collaboration -survey data See <a href="#">CWTS/Leiden</a> Collaboration Ranking<br>5.2.5 Patent families filed in two offices <a href="#">WIPO Statistics</a>    |

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|--|--|---|
| INNOVATION OUTPUT<br>Sub-Index               |  |   |
| <b>6. KNOWLEDGE &amp; TECHNOLOGY OUTPUTS</b> | <p>6.1 Knowledge creation</p> <p>6.2 Knowledge impact</p> <p>6.3 Knowledge diffusion</p>           | <p>6.1.1 Patent applications by origin</p> <p>6.1.2.PCT patents by origin</p> <p>6.1.3 Utility model applications by origin</p> <p>6.1.4 Scientific &amp; technical articles in selected fields from SCI and SSCI. Each institution and country receive a full count</p> <p>All reported in bn PPP\$ GDP -patent / data from <a href="#">WIPO Statistics</a>; Economic data from IMF</p> <p>6.1.5 Citable documents H Index for the country using Scimago Journal and Country <a href="#">Rank</a></p> <p>For 6.2. and 6.3 see pages 361-362 for variety of metrics and sources</p> |
| 7. CREATIVE OUTPUTS                          | <p>7.1 Intangible assets</p> <p>7.2 Creative goods &amp; services</p> <p>7.3 Online creativity</p> | See pages 362-365   |