

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

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