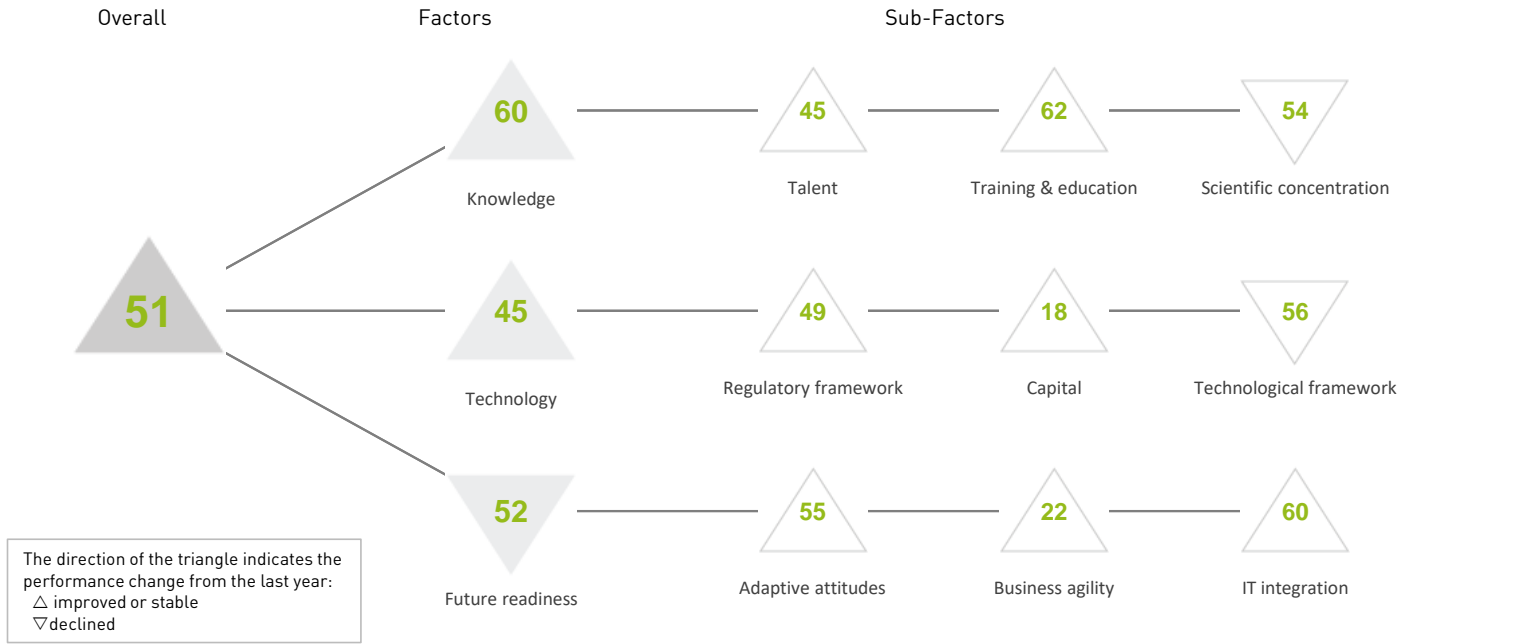


INDONESIA

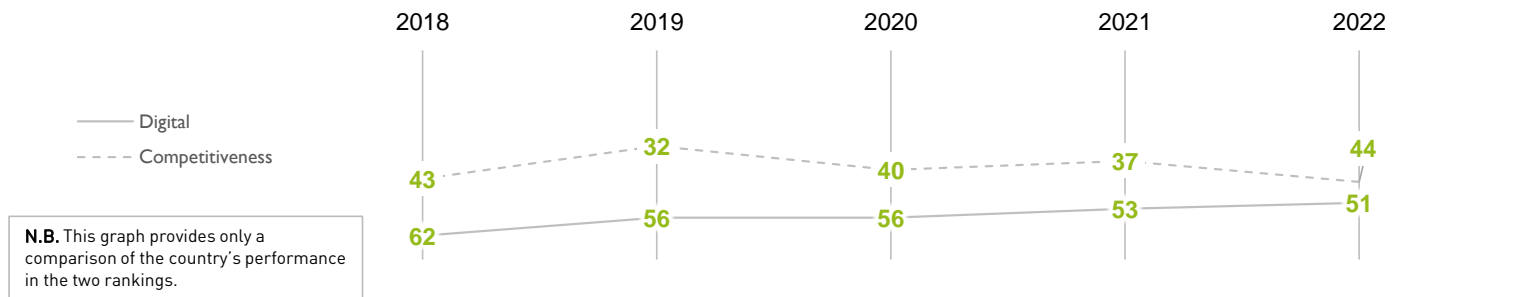
OVERALL PERFORMANCE (63 countries)



OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	62	56	56	53	51
Knowledge	61	56	63	60	60
Technology	59	47	54	49	45
Future readiness	62	58	48	48	52

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

ASIA - PACIFIC (14 countries)



POPULATIONS > 20 MILLION (27 countries)



INDONESIA

► Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	51	42	43	48	45
Training & education	61	61	63	64	62
Scientific concentration	58	52	51	44	54

Talent	Rank
Educational assessment PISA - Math	55
International experience	29
Foreign highly-skilled personnel	19
Management of cities	40
Digital/Technological skills	41
Net flow of international students	41

Training & education	Rank
Employee training	18
Total public expenditure on education	56
Higher education achievement	59
Pupil-teacher ratio (tertiary education)	57
Graduates in Sciences	49
Women with degrees	55

Scientific concentration	Rank
Total expenditure on R&D (%)	57
Total R&D personnel per capita	53
► Female researchers	14
► R&D productivity by publication	04
▷ Scientific and technical employment	60
▷ High-tech patent grants	61
Robots in Education and R&D	42

TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	57	51	51	50	49
Capital	34	26	41	25	18
Technological framework	60	56	55	55	56

Regulatory framework	Rank
Starting a business	59
Enforcing contracts	57
Immigration laws	18
Development & application of tech.	33
Scientific research legislation	48
Intellectual property rights	54

Capital	Rank
► IT & media stock market capitalization	15
Funding for technological development	35
Banking and financial services	17
Country credit rating	45
Venture capital	26
► Investment in Telecommunications	08

Technological framework	Rank
Communications technology	45
Mobile Broadband subscribers	43
Wireless broadband	47
▷ Internet users	59
▷ Internet bandwidth speed	61
High-tech exports (%)	48

FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	61	60	58	57	55
Business agility	46	21	24	26	22
IT integration	60	60	60	60	60

Adaptive attitudes	Rank
E-Participation	44
Internet retailing	51
Tablet possession	58
Smartphone possession	46
Attitudes toward globalization	18

Business agility	Rank
Opportunities and threats	29
World robots distribution	27
Agility of companies	33
Use of big data and analytics	26
Knowledge transfer	39
► Entrepreneurial fear of failure	03

IT integration	Rank
E-Government	56
Public-private partnerships	22
Cyber security	46
▷ Software piracy	61
Government cyber security capacity	58
Privacy protection by law content	57