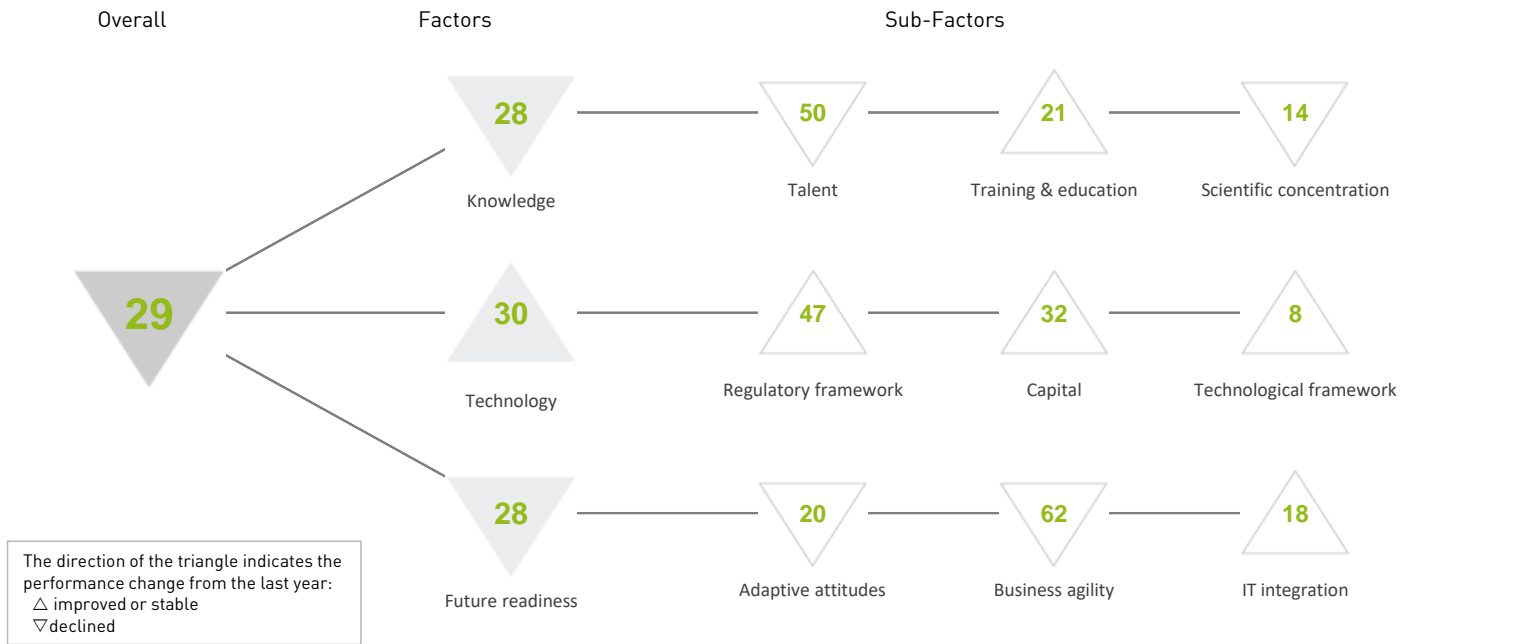


JAPAN

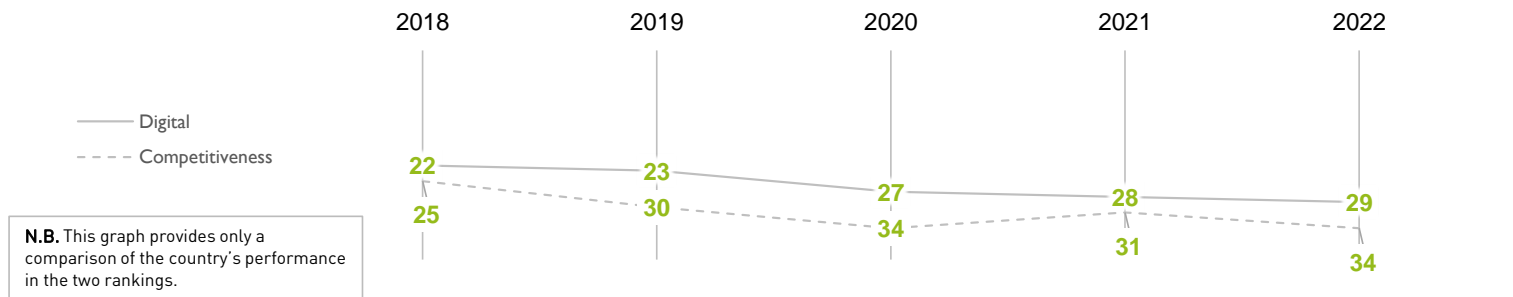
OVERALL PERFORMANCE (63 countries)



OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	22	23	27	28	29
Knowledge	18	25	22	25	28
Technology	23	24	26	30	30
Future readiness	25	24	26	27	28

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

ASIA - PACIFIC (14 countries)



POPULATIONS > 20 MILLION (27 countries)



JAPAN

▶ Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	36	46	46	47	50
Training & education	14	19	18	21	21
Scientific concentration	12	11	11	13	14

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	05	Employee training	30	Total expenditure on R&D (%)	07
▷ International experience	63	Total public expenditure on education	54	Total R&D personnel per capita	18
Foreign highly-skilled personnel	54	Higher education achievement	08	Female researchers	55
Management of cities	16	▶ Pupil-teacher ratio (tertiary education)	01	R&D productivity by publication	16
▷ Digital/Technological skills	62	Graduates in Sciences	42	Scientific and technical employment	39
Net flow of international students	25	Women with degrees	08	High-tech patent grants	06
				▶ Robots in Education and R&D	04

TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	40	42	44	48	47
Capital	33	37	33	37	32
Technological framework	04	02	05	08	08

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	43	IT & media stock market capitalization	10	Communications technology	42
Enforcing contracts	35	Funding for technological development	41	Mobile Broadband subscribers	22
Immigration laws	61	Banking and financial services	35	▶ Wireless broadband	02
Development & application of tech.	41	Country credit rating	28	Internet users	19
Scientific research legislation	49	Venture capital	34	Internet bandwidth speed	19
Intellectual property rights	34	Investment in Telecommunications	32	High-tech exports (%)	24

FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	13	15	19	18	20
Business agility	55	41	56	53	62
IT integration	15	18	23	23	18

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	04	▷ Opportunities and threats	63	E-Government	14
Internet retailing	16	▶ World robots distribution	02	Public-private partnerships	41
Tablet possession	24	▷ Agility of companies	63	Cyber security	45
Smartphone possession	10	▷ Use of big data and analytics	63	▶ Software piracy	02
Attitudes toward globalization	48	Knowledge transfer	49	Government cyber security capacity	23
		Entrepreneurial fear of failure	35	Privacy protection by law content	11