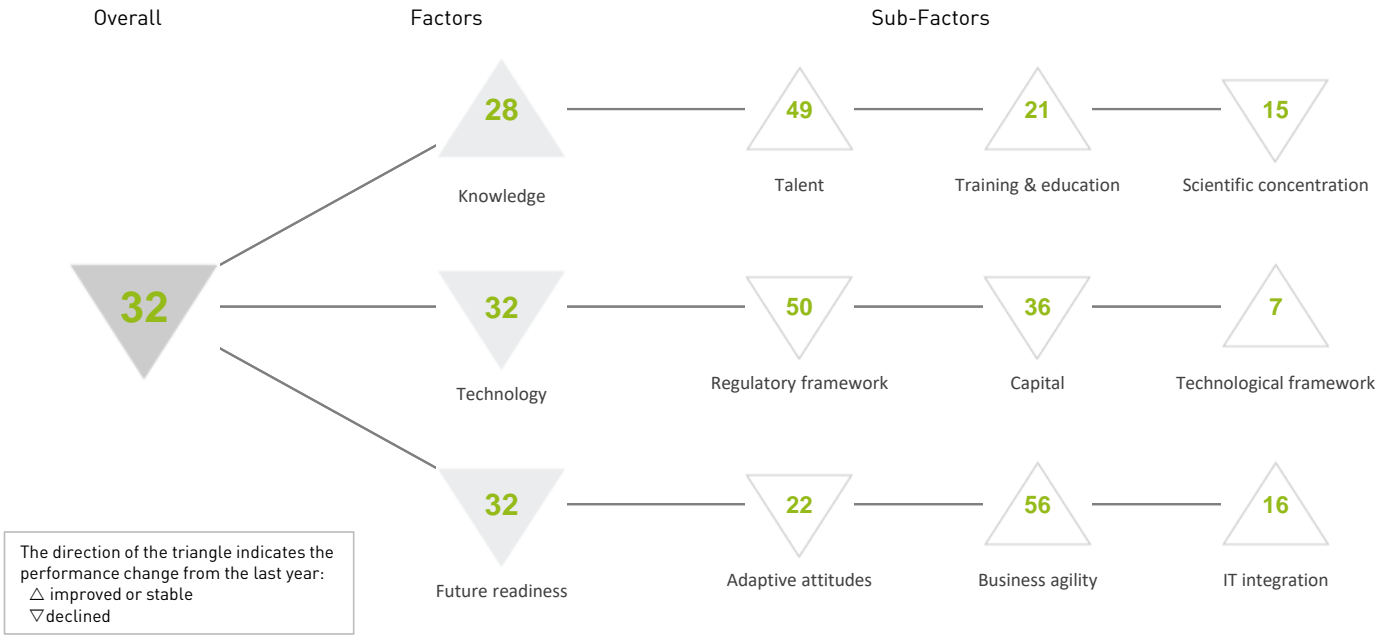


JAPAN

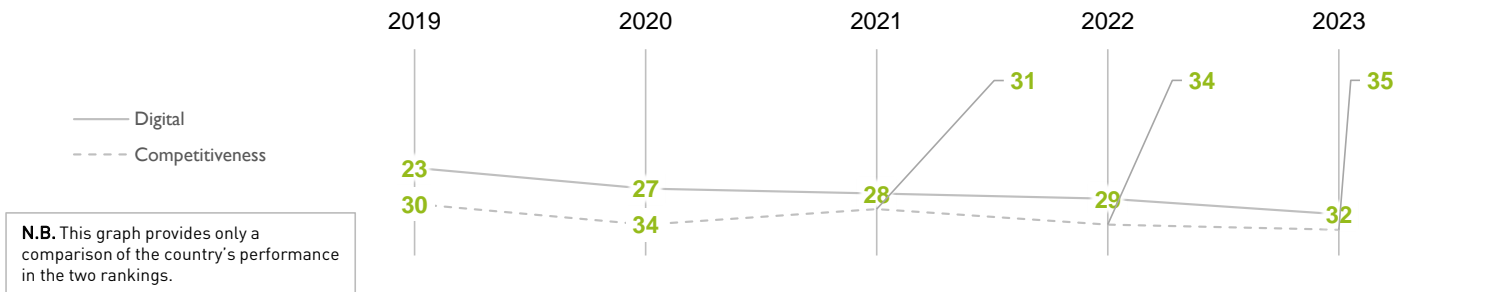
OVERALL PERFORMANCE (64 countries)



OVERALL & FACTORS - 5 years

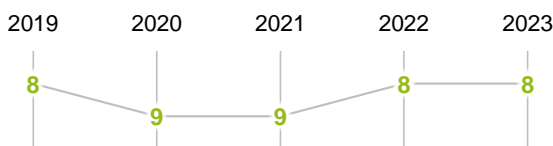
	2019	2020	2021	2022	2023
OVERALL	23	27	28	29	32
Knowledge	25	22	25	28	28
Technology	24	26	30	30	32
Future readiness	24	26	27	28	32

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

ASIA - PACIFIC (14 countries)



POPULATIONS > 20 MILLION (27 countries)



► Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	46	46	47	50	49
Training & education	19	18	21	21	21
Scientific concentration	11	11	13	14	15

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	05	Employee training	35	Total expenditure on R&D (%)	06
▷ International experience	64	Total public expenditure on education	53	Total R&D personnel per capita	20
Foreign highly skilled personnel	54	Higher education achievement	06	Female researchers	57
Management of cities	09	▶ Pupil-teacher ratio (tertiary education)	03	R&D productivity by publication	16
▷ Digital/Technological skills	63	Graduates in Sciences	39	Scientific and technical employment	39
Net flow of international students	27	Women with degrees	06	High-tech patent grants	06
				Robots in Education and R&D	06

TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	42	44	48	47	50
Capital	37	33	37	32	36
Technological framework	02	05	08	08	07

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	44	IT & media stock market capitalization	10	Communications technology	26
Enforcing contracts	35	Funding for technological development	43	Mobile broadband subscribers	19
Immigration laws	62	Banking and financial services	42	▶ Wireless broadband	02
Development & application of tech.	49	Country credit rating	30	Internet users	20
Scientific research legislation	48	Venture capital	39	Internet bandwidth speed	11
Intellectual property rights	34	Investment in Telecommunications	44	High-tech exports (%)	24

FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	15	19	18	20	22
Business agility	41	56	53	62	56
IT integration	18	23	23	18	16

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
▶ E-Participation	01	▷ Opportunities and threats	62	E-Government	14
Internet retailing	17	▶ World robots distribution	02	Public-private partnerships	41
Tablet possession	32	▷ Agility of companies	64	Cyber security	43
Smartphone possession	55	▷ Use of big data and analytics	64	▶ Software piracy	02
Attitudes toward globalization	46	Knowledge transfer	43	Government cyber security capacity	24
		Entrepreneurial fear of failure	36	Privacy protection by law content	11