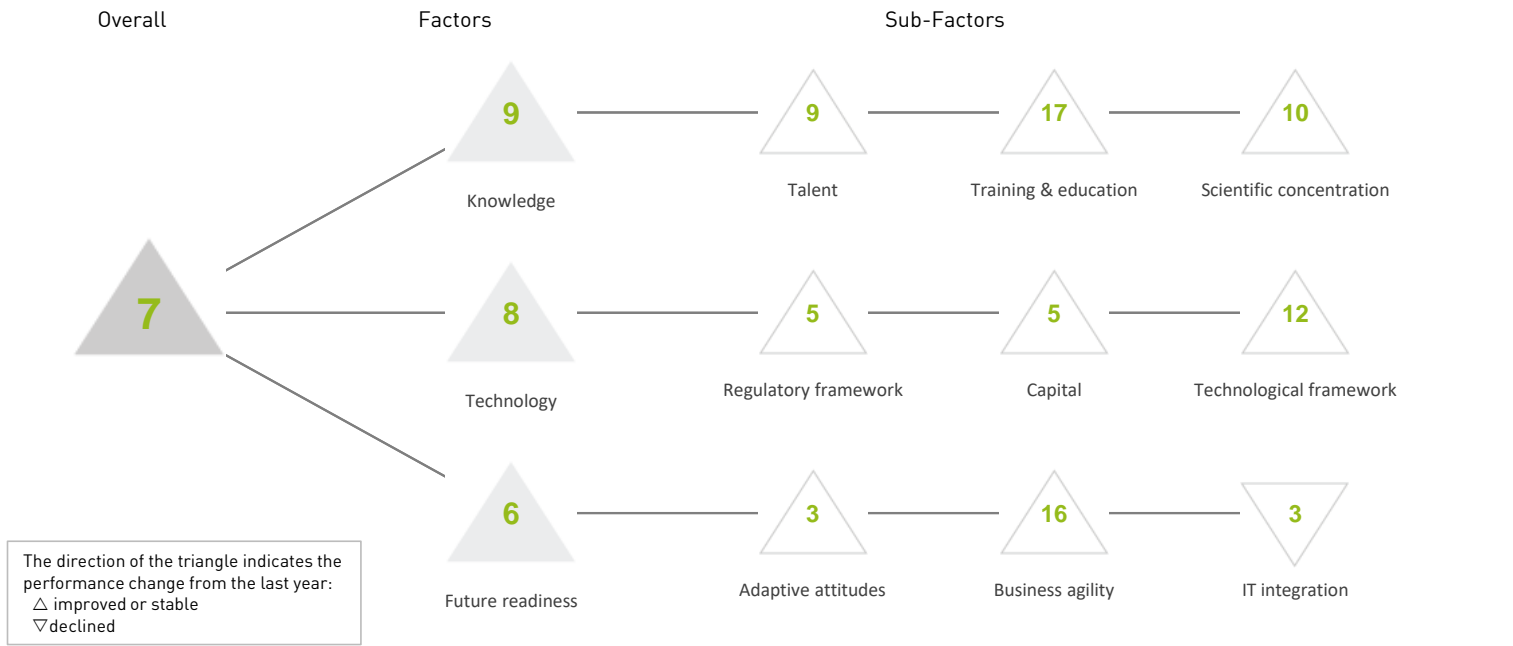


FINLAND

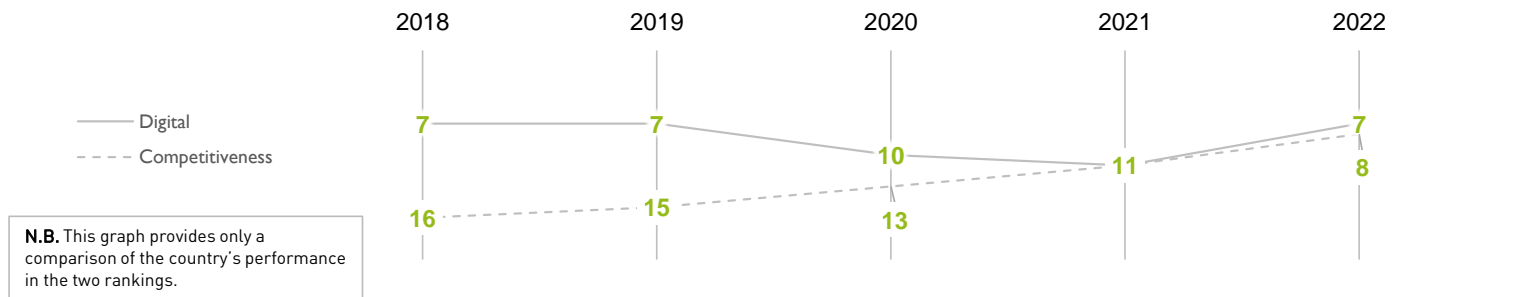
OVERALL PERFORMANCE (63 countries)



OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	07	07	10	11	07
Knowledge	09	09	15	09	09
Technology	04	08	10	12	08
Future readiness	08	07	09	09	06

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)



POPULATIONS < 20 MILLION (36 countries)



FINLAND

▶ Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	13	09	11	10	09
Training & education	09	16	20	19	17
Scientific concentration	09	10	12	10	10

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	15	Employee training	09	Total expenditure on R&D (%)	12
International experience	15	Total public expenditure on education	16	Total R&D personnel per capita	05
▷ Foreign highly-skilled personnel	42	Higher education achievement	29	Female researchers	36
Management of cities	03	▷ Pupil-teacher ratio (tertiary education)	45	▷ R&D productivity by publication	48
Digital/Technological skills	03	Graduates in Sciences	13	Scientific and technical employment	11
Net flow of international students	18	Women with degrees	05	High-tech patent grants	09
				Robots in Education and R&D	22

TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	04	09	13	11	05
Capital	09	11	06	10	05
Technological framework	06	13	10	14	12

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	18	IT & media stock market capitalization	16	▶ Communications technology	01
Enforcing contracts	33	▶ Funding for technological development	01	Mobile Broadband subscribers	12
Immigration laws	30	Banking and financial services	02	Wireless broadband	07
▶ Development & application of tech.	02	Country credit rating	12	Internet users	15
Scientific research legislation	03	Venture capital	02	Internet bandwidth speed	30
▶ Intellectual property rights	01	▷ Investment in Telecommunications	56	▷ High-tech exports (%)	43

FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	06	06	10	07	03
Business agility	22	27	22	21	16
IT integration	01	02	02	02	03

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	14	Opportunities and threats	15	E-Government	04
Internet retailing	13	World robots distribution	33	Public-private partnerships	04
Tablet possession	08	Agility of companies	15	Cyber security	03
Smartphone possession	22	Use of big data and analytics	15	Software piracy	13
▶ Attitudes toward globalization	02	Knowledge transfer	05	Government cyber security capacity	34
		Entrepreneurial fear of failure	24	Privacy protection by law content	14