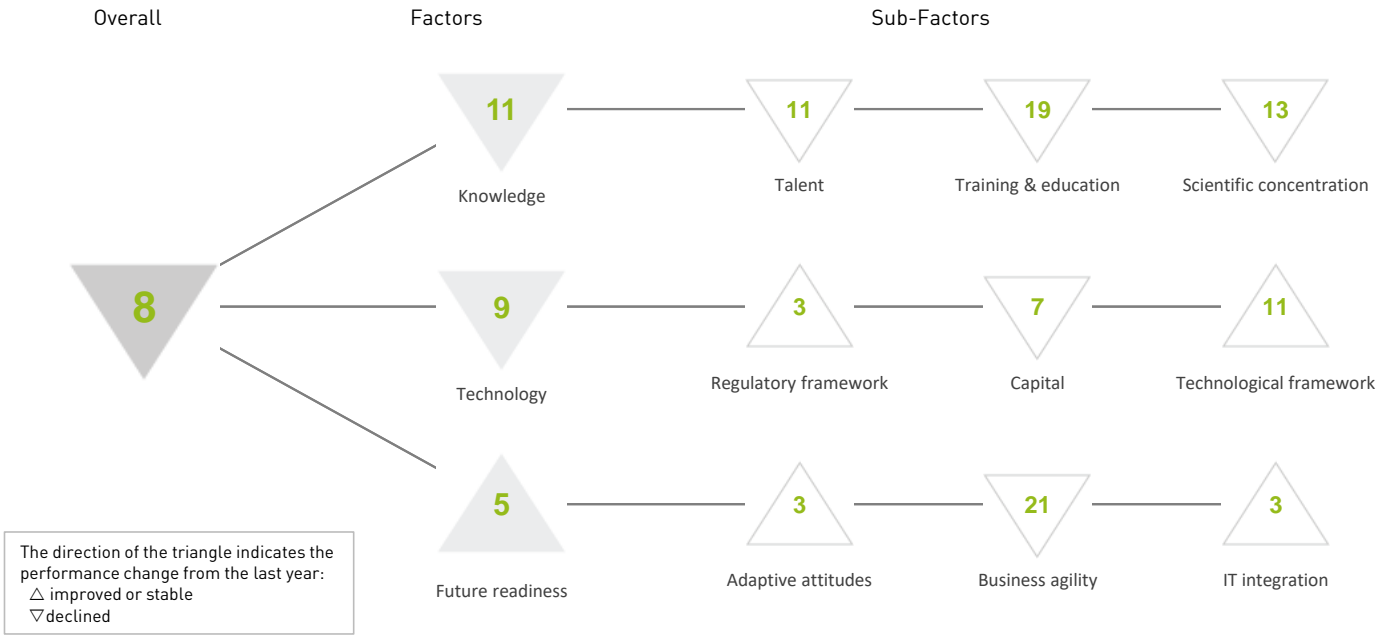


FINLAND

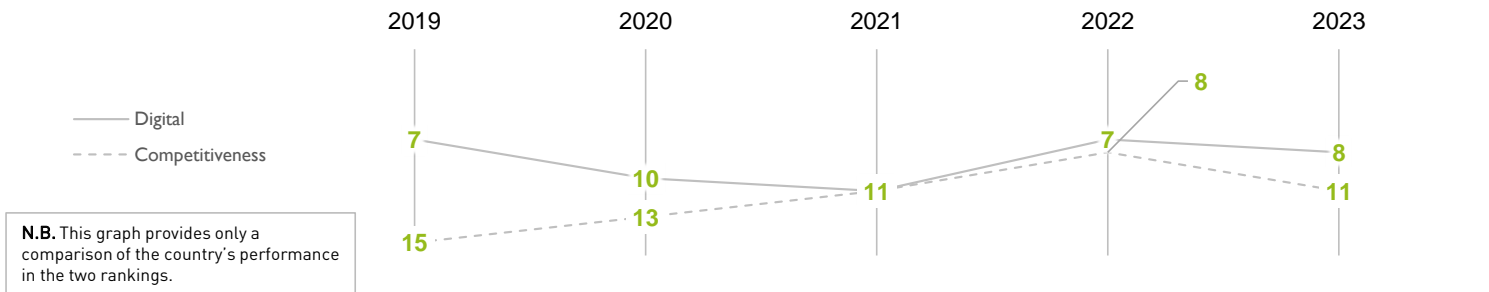
OVERALL PERFORMANCE (64 countries)



OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	07	10	11	07	08
Knowledge	09	15	09	09	11
Technology	08	10	12	08	09
Future readiness	07	09	09	06	05

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (41 countries)



POPULATIONS < 20 MILLION (37 countries)



FINLAND

► Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	09	11	10	09	11
Training & education	16	20	19	17	19
Scientific concentration	10	12	10	10	13

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	15	Employee training	05	Total expenditure on R&D (%)	11
International experience	22	Total public expenditure on education	13	Total R&D personnel per capita	07
Foreign highly skilled personnel	38	▷ Higher education achievement	40	▷ Female researchers	40
Management of cities	04	▷ Pupil-teacher ratio (tertiary education)	44	▷ R&D productivity by publication	48
► Digital/Technological skills	02	Graduates in Sciences	15	Scientific and technical employment	11
Net flow of international students	19	Women with degrees	20	High-tech patent grants	09
				Robots in Education and R&D	25

TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	09	13	11	05	03
Capital	11	06	10	05	07
Technological framework	13	10	14	12	11

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	18	IT & media stock market capitalization	15	Communications technology	03
Enforcing contracts	33	Funding for technological development	03	Mobile broadband subscribers	15
Immigration laws	37	► Banking and financial services	02	Wireless broadband	07
► Development & application of tech.	01	Country credit rating	12	Internet users	16
Scientific research legislation	03	Venture capital	08	Internet bandwidth speed	32
Intellectual property rights	03	▷ Investment in Telecommunications	56	High-tech exports (%)	38

FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	06	10	07	03	03
Business agility	27	22	21	16	21
IT integration	02	02	02	03	03

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	06	Opportunities and threats	27	► E-Government	02
Internet retailing	13	World robots distribution	34	Public-private partnerships	03
Tablet possession	05	Agility of companies	23	► Cyber security	03
Smartphone possession	21	Use of big data and analytics	18	Software piracy	13
Attitudes toward globalization	04	Knowledge transfer	07	Government cyber security capacity	35
		Entrepreneurial fear of failure	24	Privacy protection by law content	14