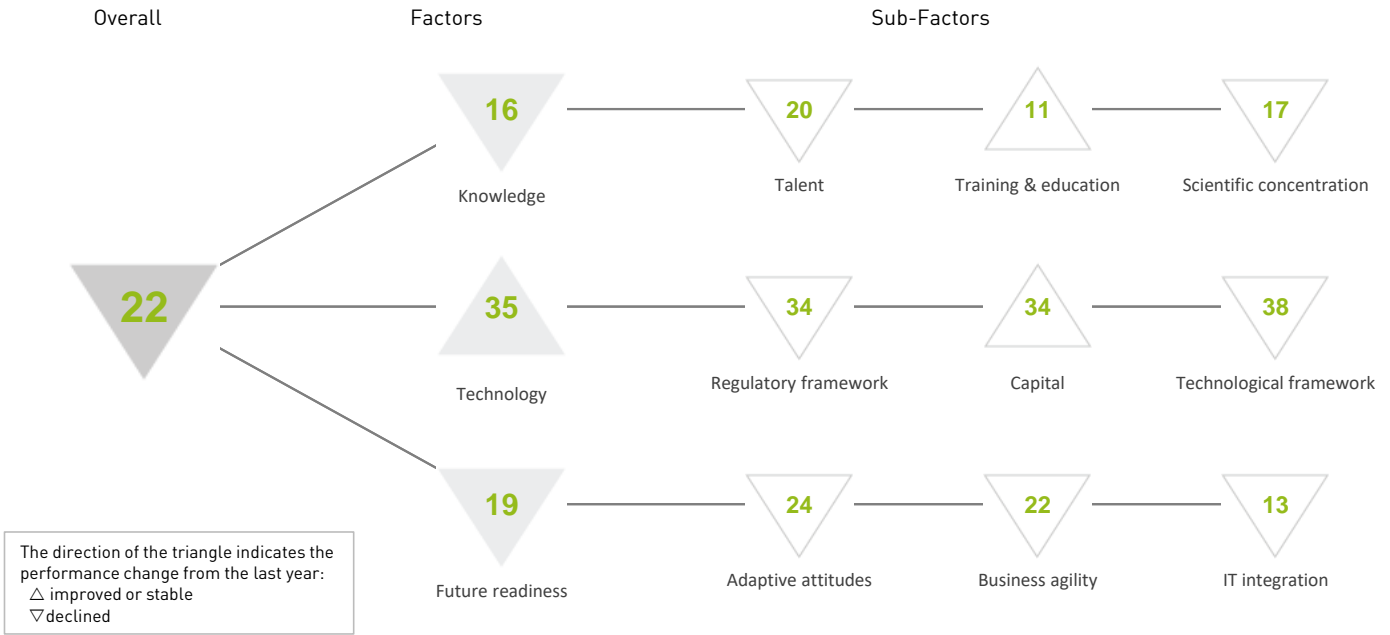


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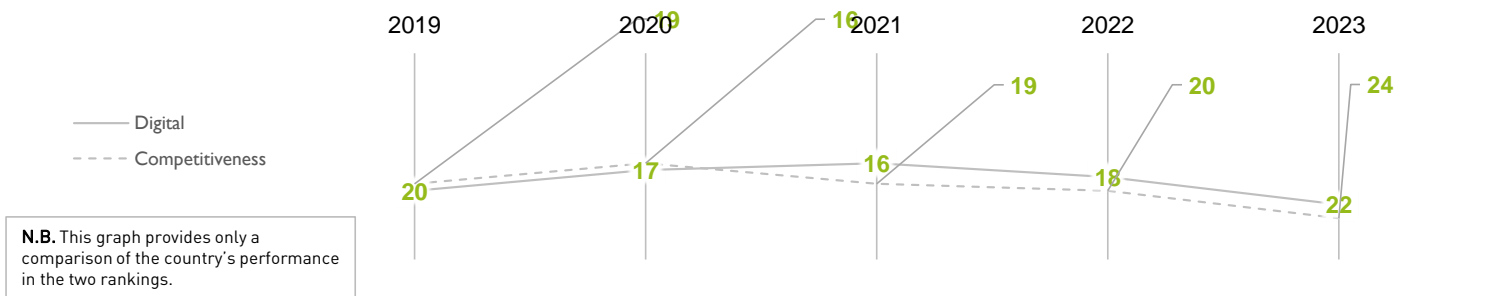
OVERALL PERFORMANCE (64 countries)



OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	20	17	16	18	22
Knowledge	10	11	10	13	16
Technology	32	28	32	36	35
Future readiness	23	16	16	13	19

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (41 countries)



POPULATIONS < 20 MILLION (37 countries)



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▶ Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	12	12	15	16	20
Training & education	08	12	05	12	11
Scientific concentration	14	14	15	15	17

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	22	▶ Employee training	01	Total expenditure on R&D (%)	09
International experience	20	Total public expenditure on education	32	Total R&D personnel per capita	10
Foreign highly skilled personnel	34	Higher education achievement	35	Female researchers	46
Management of cities	15	▶ Pupil-teacher ratio (tertiary education)	02	▷ R&D productivity by publication	47
▷ Digital/Technological skills	50	▶ Graduates in Sciences	08	Scientific and technical employment	19
Net flow of international students	08	Women with degrees	37	High-tech patent grants	22
				Robots in Education and R&D	11

TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	25	24	26	29	34
Capital	34	30	32	36	34
Technological framework	31	33	38	37	38

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
▷ Starting a business	53	IT & media stock market capitalization	47	Communications technology	28
Enforcing contracts	10	Funding for technological development	20	Mobile broadband subscribers	34
▷ Immigration laws	57	Banking and financial services	24	Wireless broadband	32
Development & application of tech.	37	Country credit rating	14	Internet users	31
Scientific research legislation	22	Venture capital	41	Internet bandwidth speed	41
Intellectual property rights	11	Investment in Telecommunications	47	High-tech exports (%)	33

FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	29	21	21	19	24
Business agility	25	21	18	21	22
IT integration	15	09	11	11	13

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	20	Opportunities and threats	18	E-Government	19
Internet retailing	16	World robots distribution	23	Public-private partnerships	45
Tablet possession	27	Agility of companies	12	▶ Cyber security	04
Smartphone possession	17	Use of big data and analytics	43	▶ Software piracy	06
▷ Attitudes toward globalization	54	Knowledge transfer	20	Government cyber security capacity	27
		Entrepreneurial fear of failure	10	Privacy protection by law content	16