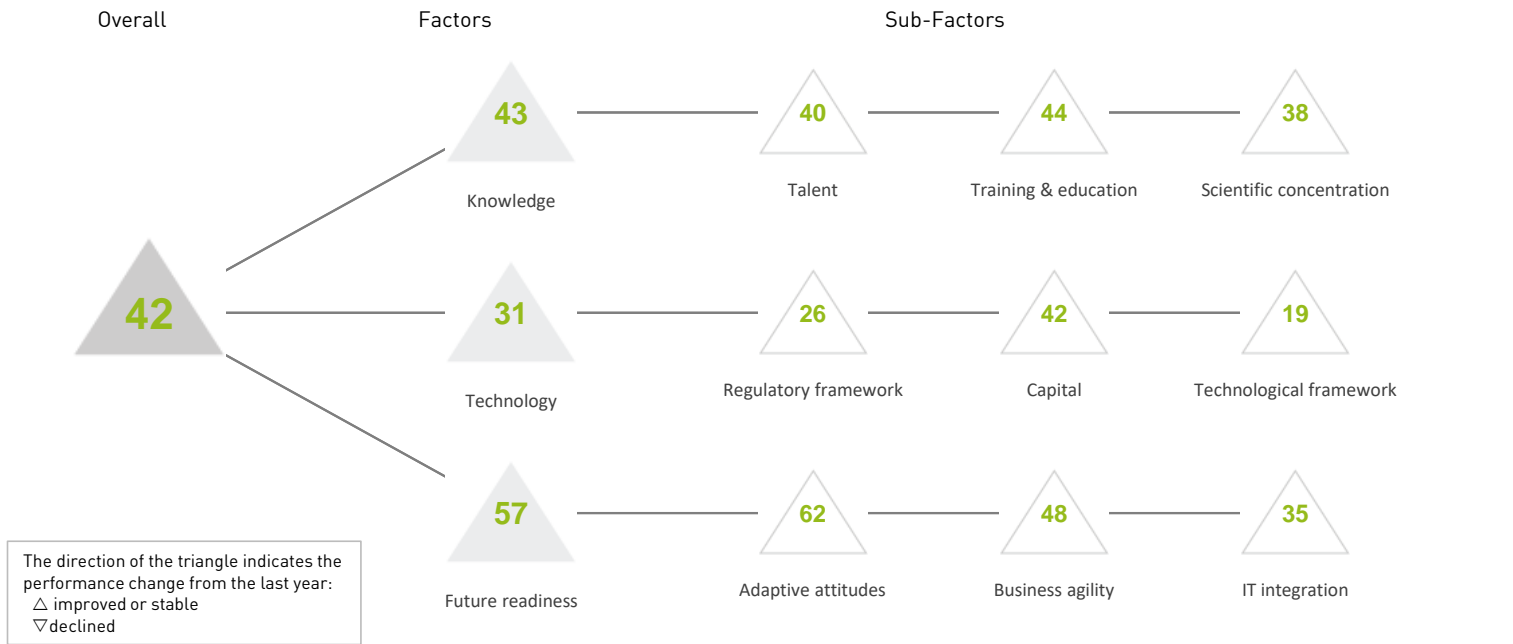


HUNGARY

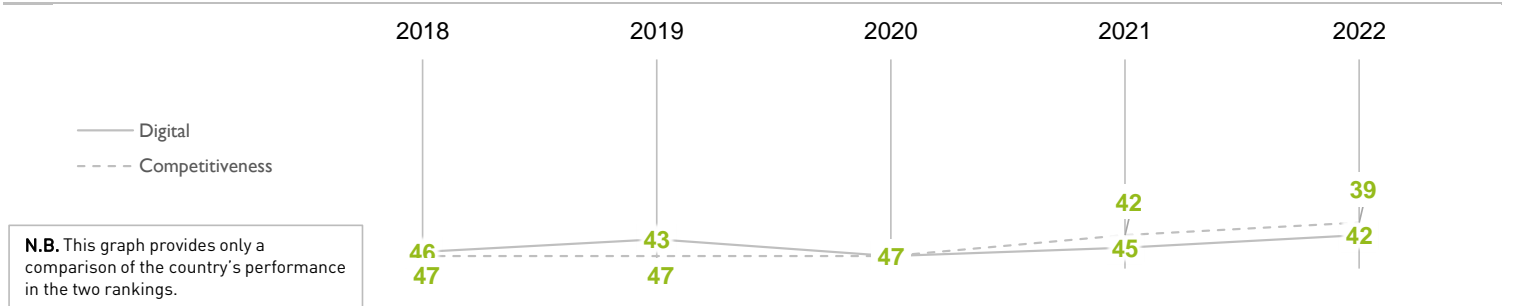
OVERALL PERFORMANCE (63 countries)



OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	46	43	47	45	42
Knowledge	48	44	44	43	43
Technology	40	36	39	36	31
Future readiness	58	57	60	61	57

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)



POPULATIONS < 20 MILLION (36 countries)



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▶ Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	46	47	44	43	40
Training & education	48	43	45	47	44
Scientific concentration	51	45	44	42	38

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	34	Employee training	52	Total expenditure on R&D (%)	26
International experience	41	Total public expenditure on education	34	Total R&D personnel per capita	24
Foreign highly-skilled personnel	50	Higher education achievement	49	Female researchers	44
Management of cities	36	▶ Pupil-teacher ratio (tertiary education)	16	R&D productivity by publication	46
Digital/Technological skills	54	Graduates in Sciences	33	Scientific and technical employment	31
Net flow of international students	17	Women with degrees	41	High-tech patent grants	39
				Robots in Education and R&D	28

TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	35	35	39	36	26
Capital	51	46	46	45	42
Technological framework	46	19	24	21	19

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	37	IT & media stock market capitalization	39	Communications technology	29
Enforcing contracts	21	Funding for technological development	34	▶ Mobile Broadband subscribers	10
▶ Immigration laws	16	Banking and financial services	44	Wireless broadband	51
Development & application of tech.	30	Country credit rating	44	Internet users	34
Scientific research legislation	29	Venture capital	41	▶ Internet bandwidth speed	04
Intellectual property rights	28	Investment in Telecommunications	31	High-tech exports (%)	25

FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	62	62	62	62	62
Business agility	56	53	59	62	48
IT integration	36	37	41	42	35

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	54	▷ Opportunities and threats	58	E-Government	44
Internet retailing	38	World robots distribution	26	Public-private partnerships	36
Tablet possession	50	▷ Agility of companies	55	Cyber security	47
▷ Smartphone possession	58	▷ Use of big data and analytics	57	Software piracy	27
▷ Attitudes toward globalization	62	Knowledge transfer	38	Government cyber security capacity	24
		▶ Entrepreneurial fear of failure	09	Privacy protection by law content	28