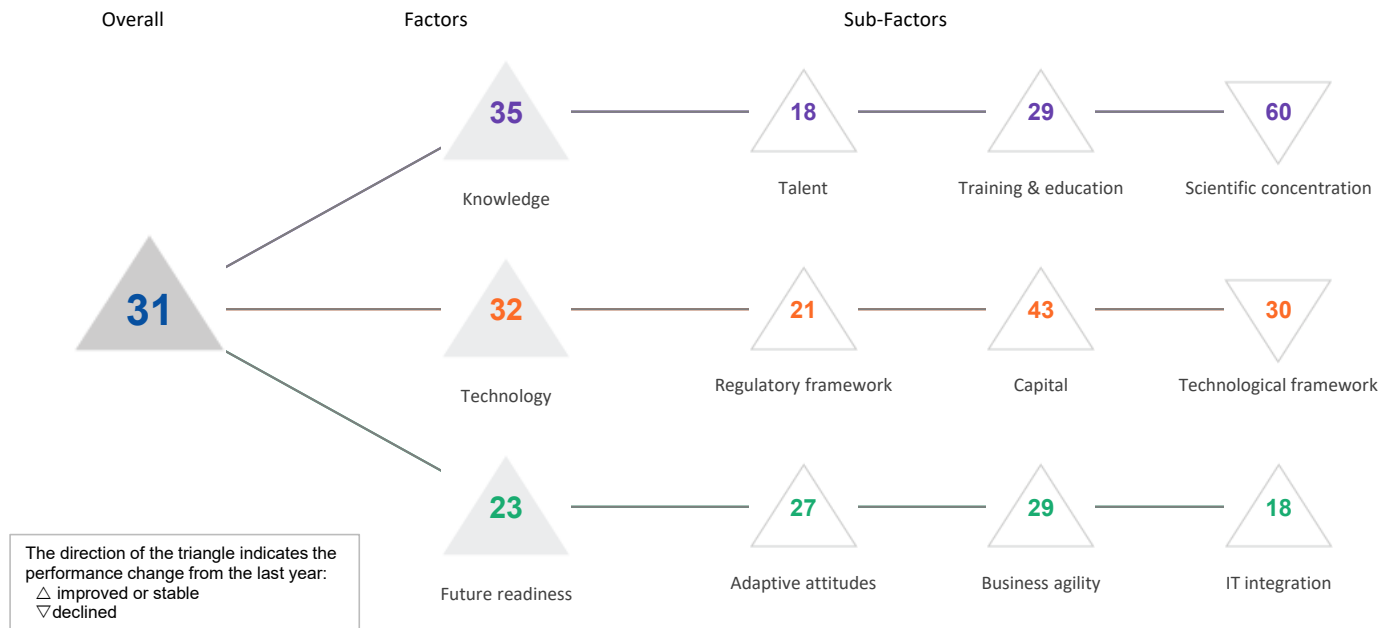


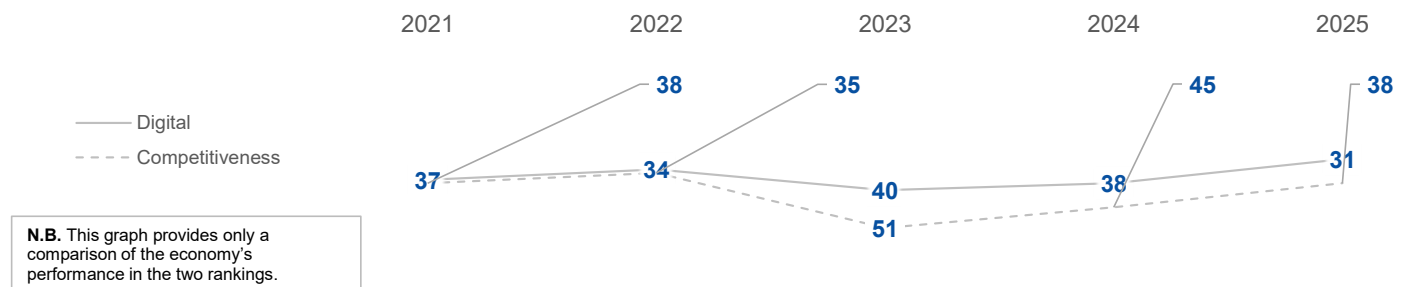
OVERALL PERFORMANCE (69 economies)



OVERALL & FACTORS - 5 years

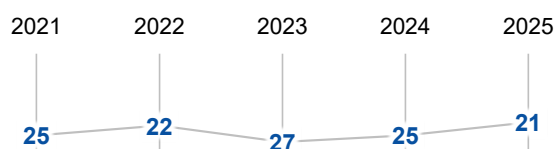
	2021	2022	2023	2024	2025
OVERALL	37	34	40	38	31
Knowledge	34	36	39	38	35
Technology	34	34	43	42	32
Future readiness	42	32	34	34	23

COMPETITIVENESS & DIGITAL RANKINGS

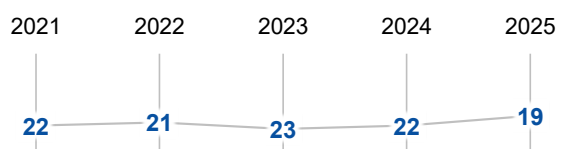


PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (45 economies)



POPULATIONS < 20 MILLION (37 economies)



KNOWLEDGE

Sub-Factors	2021	2022	2023	2024	2025
Talent	24	25	44	32	18
Training & education	30	28	31	33	29
Scientific concentration	51	52	54	51	60

Talent	Rank
Educational assessment PISA - Math	21
International experience	26
Management of cities	21
Digital/Technological skills	16
Foreign highly skilled personnel	44
Net flow of international students	20
► Female researchers	06
Scientific and technical employment	36

Training & education	Rank
Employee training	25
► Total public expenditure on education	09
Higher education achievement	30
Pupil-teacher ratio (tertiary education)	14
Graduates in Sciences	50
Women with degrees	25
Computer science education index	43

Scientific concentration	Rank
Total expenditure on R&D (%)	42
Total R&D personnel per capita	40
▷ R&D productivity by publication	56
High-tech patent grants	43
AI-related patent publications	45
▷ Robots in Education and R&D	50
AI articles	41

TECHNOLOGY

Sub-Factors	2021	2022	2023	2024	2025
Regulatory framework	34	36	43	43	21
Capital	46	39	52	56	43
Technological framework	18	22	27	27	30

Regulatory framework	Rank
Starting a business	15
Enforcing contracts	14
▷ Immigration laws	58
Development & application of tech.	15
Scientific research legislation	26
Intellectual property rights	28
AI policies passed into law	20

Capital	Rank
IT & media stock market capitalization	40
Funding for technological development	22
▷ Banking and financial services	52
Country credit rating	36
Venture capital	30
Investment in Telecommunications	48
AI private investment	-

Technological framework	Rank
► Communications technology	10
Mobile broadband subscribers	30
Wireless broadband	23
Internet users	33
Internet bandwidth speed	38
High-tech exports (%)	24
Secure internet servers	35

FUTURE READINESS

Sub-Factors	2021	2022	2023	2024	2025
Adaptive attitudes	51	44	35	31	27
Business agility	48	31	49	45	29
IT integration	37	23	21	25	18

Adaptive attitudes	Rank
E-Participation	32
Internet retailing	33
Tablet possession	21
Smartphone possession	27
Attitudes toward globalization	25
Flexibility and adaptability	19

Business agility	Rank
Opportunities and threats	30
▷ World robots distribution	51
Agility of companies	22
► Use of big data and analytics	13
Knowledge transfer	29
Entrepreneurial fear of failure	32

IT integration	Rank
E-Government	26
Public-private partnerships	38
Cyber security	15
Software piracy	40
► Government cyber security capacity	08
Privacy protection by law exists	21