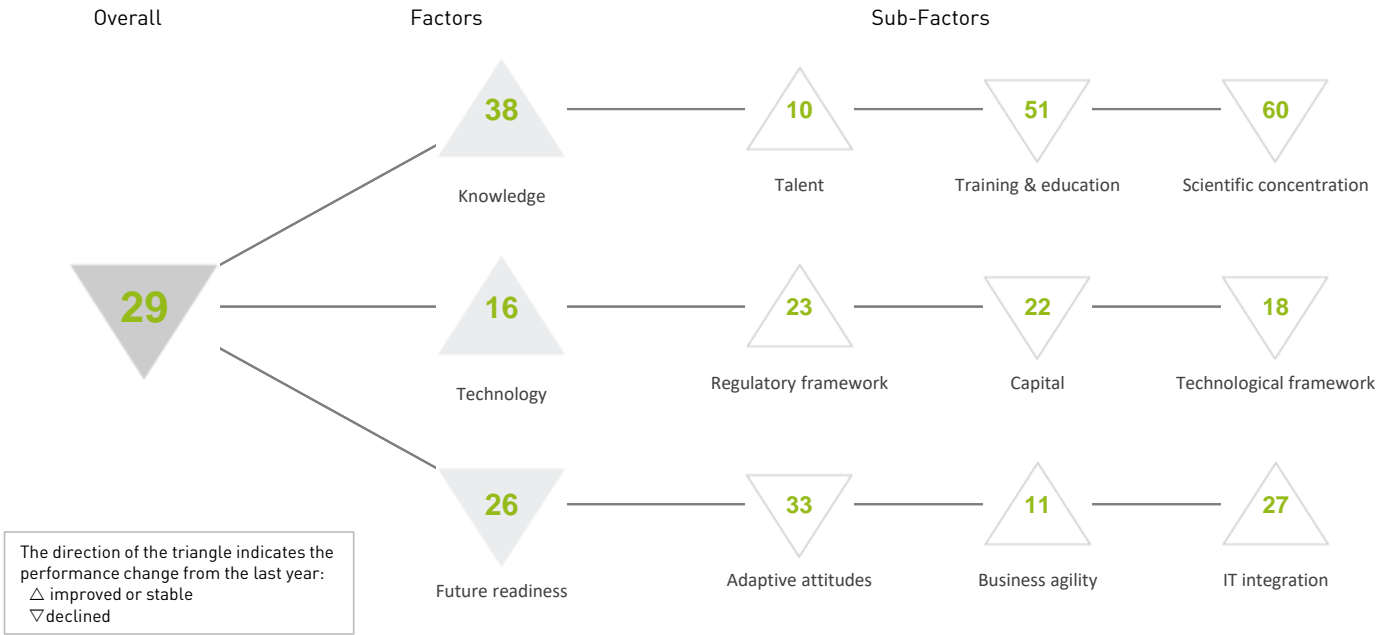


# QATAR

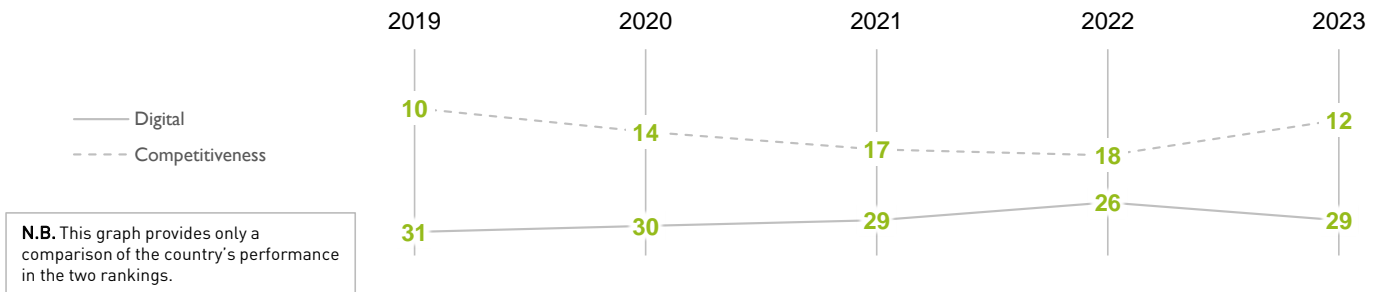
## OVERALL PERFORMANCE (64 countries)



## OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	31	30	29	26	29
Knowledge	45	45	44	38	38
Technology	33	25	19	17	16
Future readiness	22	24	23	23	26

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS

### EUROPE - MIDDLE EAST - AFRICA (41 countries)



### POPULATIONS < 20 MILLION (37 countries)



► Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	15	15	19	11	10
Training & education	48	53	54	45	51
Scientific concentration	61	60	59	59	60

Talent	Rank
Educational assessment PISA - Math	48
International experience	06
Foreign highly skilled personnel	05
Management of cities	05
Digital/Technological skills	07
Net flow of international students	22

Training & education	Rank
Employee training	22
▷ Total public expenditure on education	61
Higher education achievement	51
Pupil-teacher ratio (tertiary education)	34
Graduates in Sciences	42
Women with degrees	-

Scientific concentration	Rank
Total expenditure on R&D (%)	46
Total R&D personnel per capita	48
Female researchers	37
R&D productivity by publication	51
Scientific and technical employment	51
High-tech patent grants	10
Robots in Education and R&D	52

## TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	28	29	27	27	23
Capital	23	19	24	21	22
Technological framework	38	31	16	15	18

Regulatory framework	Rank
Starting a business	46
▷ Enforcing contracts	55
Immigration laws	08
Development & application of tech.	05
Scientific research legislation	15
Intellectual property rights	19

Capital	Rank
IT & media stock market capitalization	37
Funding for technological development	06
Banking and financial services	03
Country credit rating	22
Venture capital	13
Investment in Telecommunications	52

Technological framework	Rank
Communications technology	09
▷ Mobile broadband subscribers	03
Wireless broadband	08
▷ Internet users	02
Internet bandwidth speed	39
▷ High-tech exports (%)	59

## FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	18	27	26	29	33
Business agility	12	17	17	14	11
IT integration	27	28	28	28	27

Adaptive attitudes	Rank
▷ E-Participation	60
Internet retailing	53
Tablet possession	05
Smartphone possession	04
Attitudes toward globalization	18

Business agility	Rank
Opportunities and threats	11
World robots distribution	55
Agility of companies	15
▷ Use of big data and analytics	03
Knowledge transfer	06
Entrepreneurial fear of failure	14

IT integration	Rank
▷ E-Government	57
▷ Public-private partnerships	02
▷ Cyber security	01
Software piracy	38
Government cyber security capacity	13
Privacy protection by law content	47