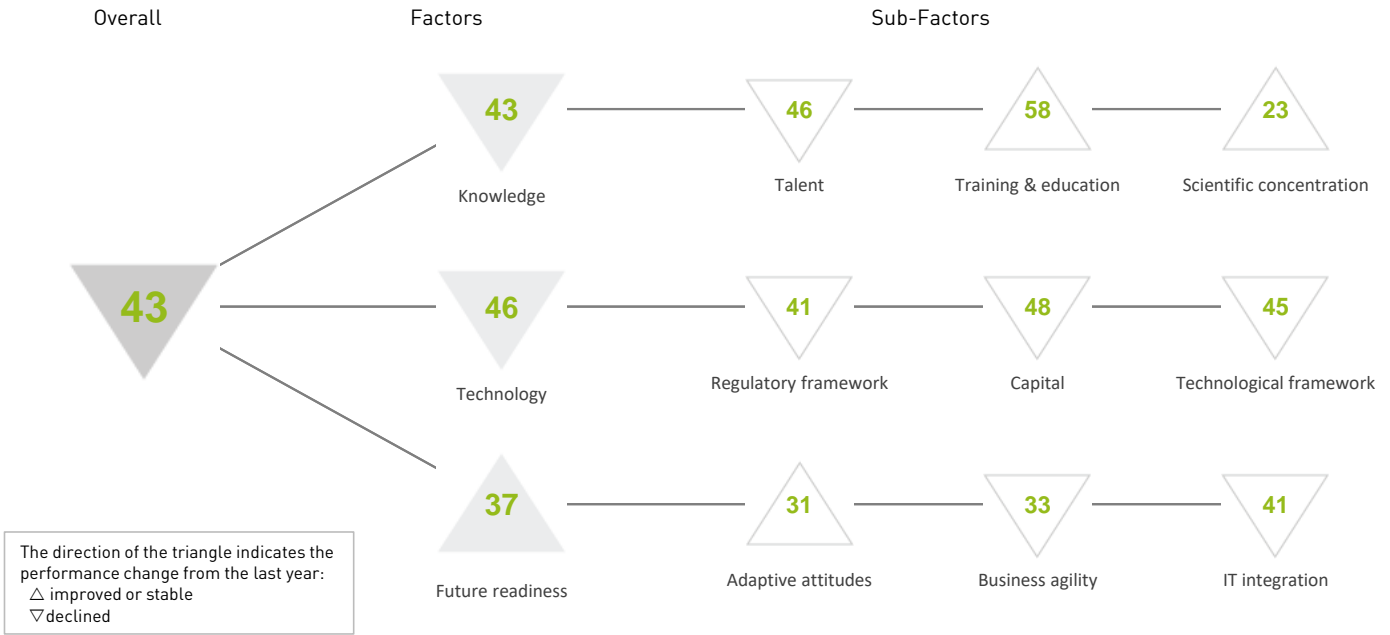


# ITALY

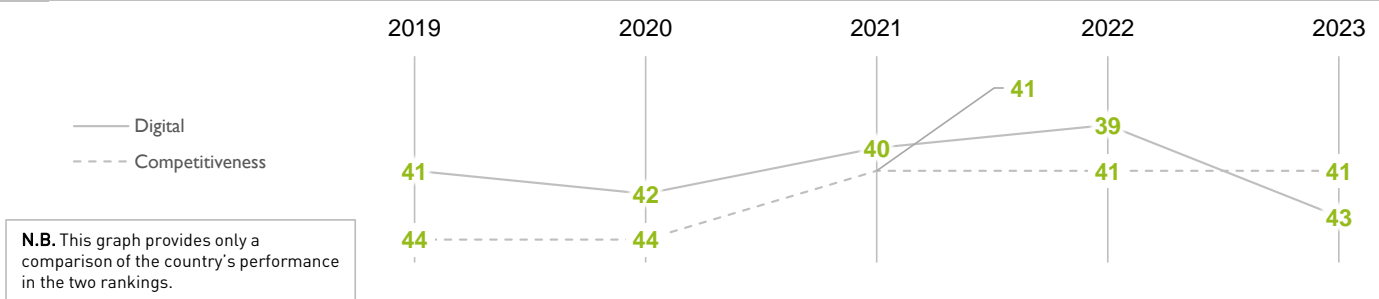
## OVERALL PERFORMANCE (64 countries)



## OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	41	42	40	39	43
Knowledge	41	42	40	41	43
Technology	46	46	42	44	46
Future readiness	31	38	30	38	37

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS

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



### POPULATIONS > 20 MILLION (27 countries)



► Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	44	42	40	43	46
Training & education	57	58	60	58	58
Scientific concentration	23	22	25	23	23

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	29	▷ Employee training	52	Total expenditure on R&D (%)	28
▷ International experience	57	Total public expenditure on education	45	Total R&D personnel per capita	28
Foreign highly skilled personnel	52	Higher education achievement	50	Female researchers	36
Management of cities	44	Pupil-teacher ratio (tertiary education)	49	▶ R&D productivity by publication	06
Digital/Technological skills	42	Graduates in Sciences	36	▶ Scientific and technical employment	14
Net flow of international students	46	Women with degrees	51	High-tech patent grants	46
				▶ Robots in Education and R&D	12

## TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	44	48	42	38	41
Capital	53	54	48	41	48
Technological framework	46	43	44	44	45

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	42	IT & media stock market capitalization	40	Communications technology	45
▷ Enforcing contracts	56	Funding for technological development	40	Mobile broadband subscribers	44
▶ Immigration laws	17	Banking and financial services	49	Wireless broadband	21
Development & application of tech.	45	Country credit rating	50	Internet users	44
Scientific research legislation	42	▷ Venture capital	57	Internet bandwidth speed	43
Intellectual property rights	25	Investment in Telecommunications	18	High-tech exports (%)	48

## FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	35	42	36	32	31
Business agility	31	23	19	30	33
IT integration	34	39	38	40	41

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	29	Opportunities and threats	26	E-Government	34
Internet retailing	31	▶ World robots distribution	06	Public-private partnerships	46
Tablet possession	40	Agility of companies	39	Cyber security	42
Smartphone possession	27	▷ Use of big data and analytics	56	Software piracy	33
Attitudes toward globalization	43	Knowledge transfer	39	Government cyber security capacity	48
		Entrepreneurial fear of failure	28	Privacy protection by law content	34