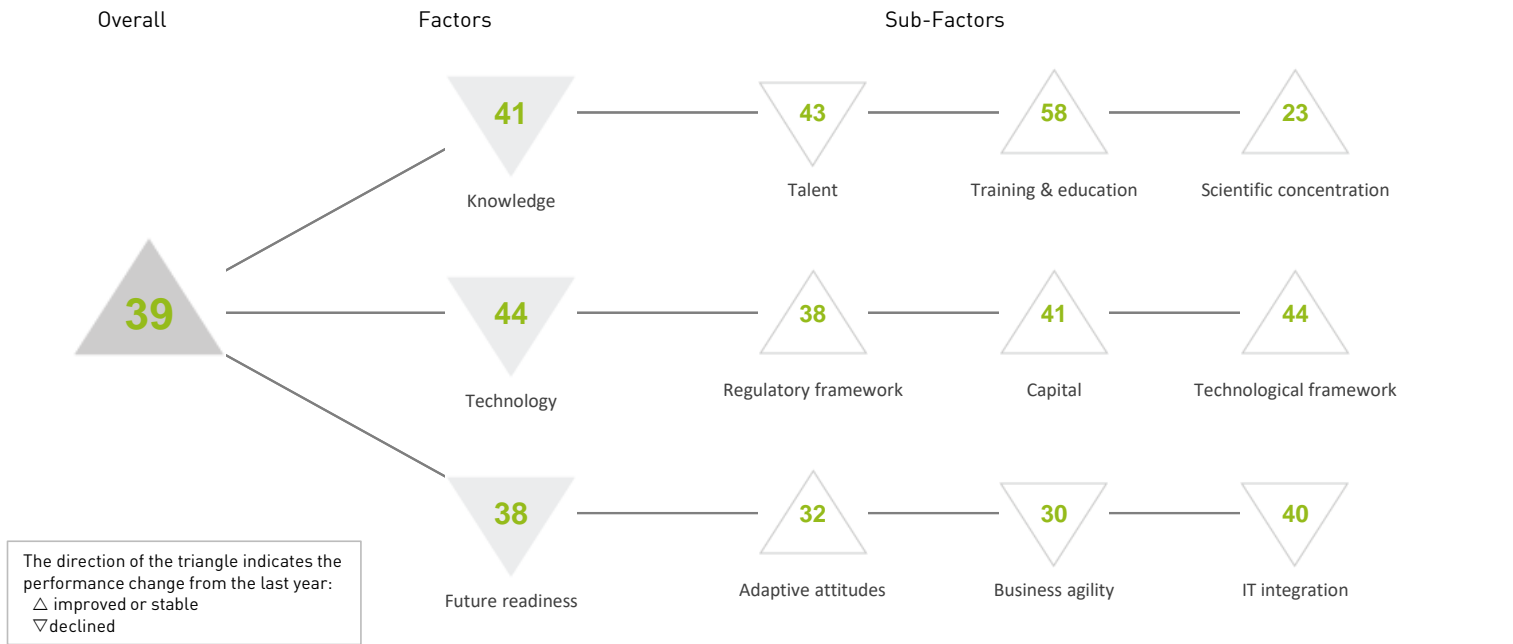


# ITALY

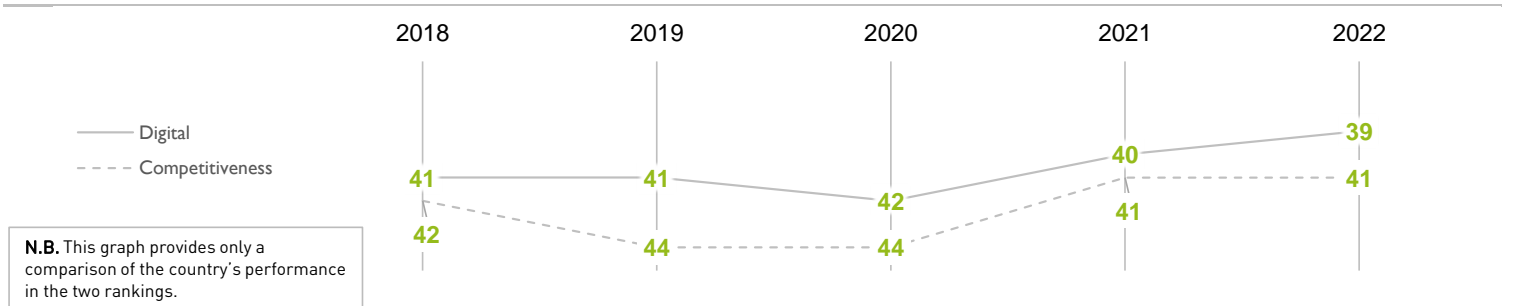
## OVERALL PERFORMANCE (63 countries)



## OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	41	41	42	40	39
Knowledge	42	41	42	40	41
Technology	41	46	46	42	44
Future readiness	36	31	38	30	38

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS

### EUROPE - MIDDLE EAST - AFRICA (40 countries)



### POPULATIONS > 20 MILLION (27 countries)



▶ Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	41	44	42	40	43
Training & education	56	57	58	60	58
Scientific concentration	28	23	22	25	23

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	29	Employee training	48	Total expenditure on R&D (%)	27
▷ International experience	50	Total public expenditure on education	46	Total R&D personnel per capita	25
Foreign highly-skilled personnel	46	▷ Higher education achievement	52	Female researchers	34
Management of cities	39	Pupil-teacher ratio (tertiary education)	47	▶ R&D productivity by publication	07
▷ Digital/Technological skills	49	Graduates in Sciences	31	Scientific and technical employment	16
Net flow of international students	35	▷ Women with degrees	50	High-tech patent grants	48
				▶ Robots in Education and R&D	11

## TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	41	44	48	42	38
Capital	49	53	54	48	41
Technological framework	44	46	43	44	44

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	41	IT & media stock market capitalization	41	Communications technology	43
▷ Enforcing contracts	55	Funding for technological development	39	Mobile Broadband subscribers	41
▶ Immigration laws	08	Banking and financial services	49	Wireless broadband	23
Development & application of tech.	44	Country credit rating	48	Internet users	43
Scientific research legislation	41	Venture capital	43	Internet bandwidth speed	43
Intellectual property rights	24	▶ Investment in Telecommunications	13	High-tech exports (%)	47

## FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	36	35	42	36	32
Business agility	32	31	23	19	30
IT integration	32	34	39	38	40

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	34	Opportunities and threats	30	E-Government	33
Internet retailing	29	▶ World robots distribution	06	Public-private partnerships	49
Tablet possession	42	Agility of companies	38	Cyber security	40
Smartphone possession	17	Use of big data and analytics	47	Software piracy	33
Attitudes toward globalization	36	Knowledge transfer	36	Government cyber security capacity	47
		Entrepreneurial fear of failure	28	Privacy protection by law content	34