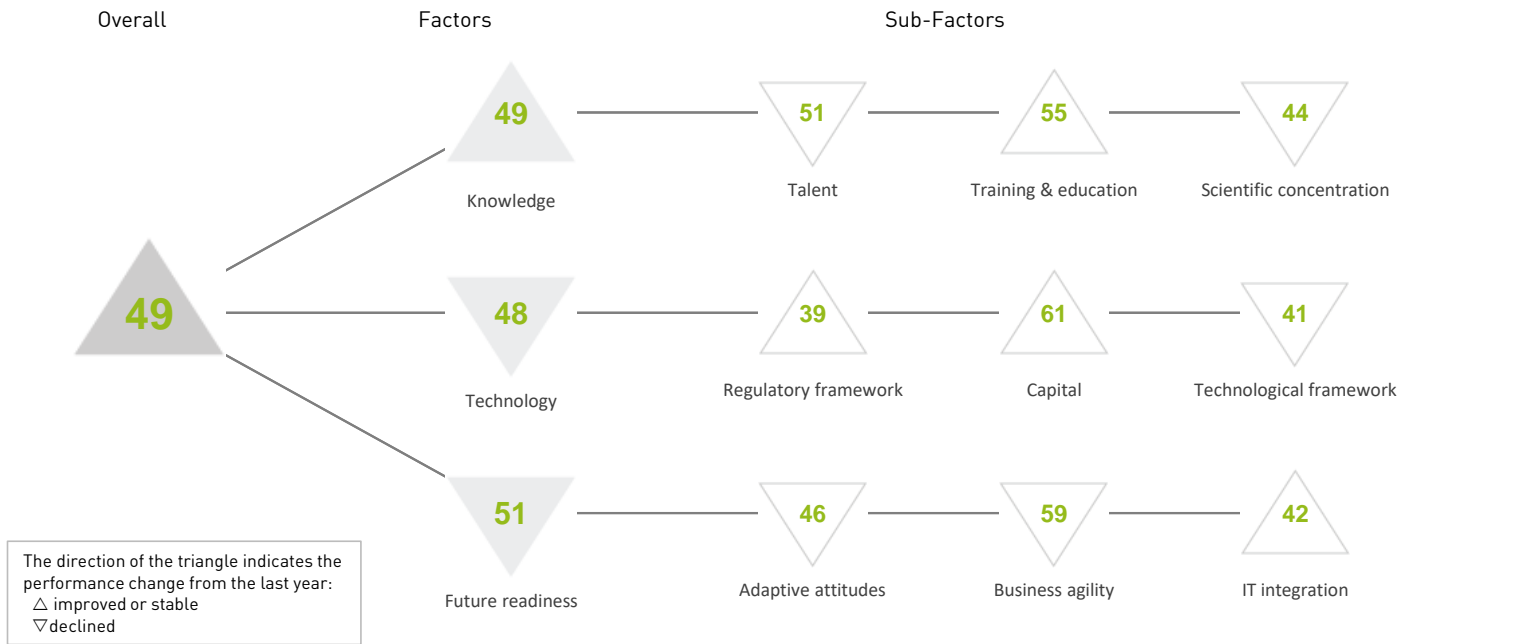


# ROMANIA

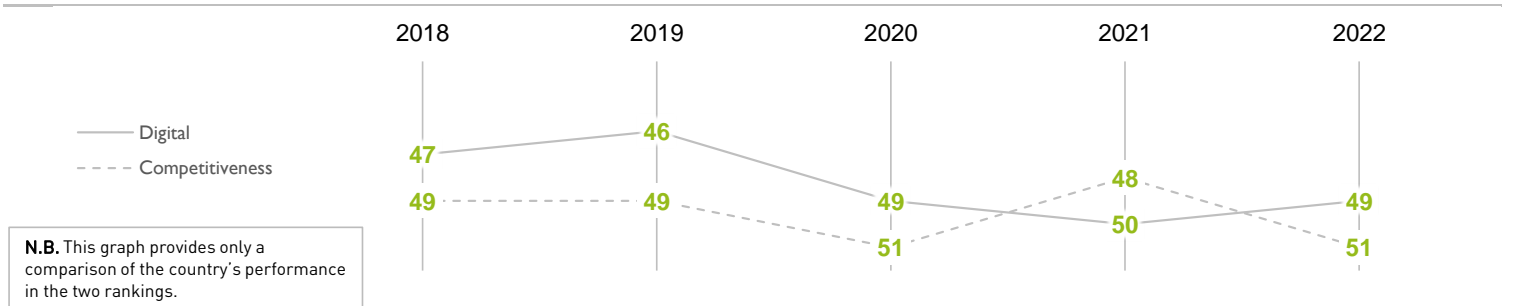
## OVERALL PERFORMANCE (63 countries)



## OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	47	46	49	50	49
Knowledge	45	47	53	52	49
Technology	44	45	48	47	48
Future readiness	57	51	49	49	51

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS



## ROMANIA

▶ Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	45	48	51	50	51
Training & education	50	51	54	59	55
Scientific concentration	43	38	39	43	44

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	44	Employee training	47	Total expenditure on R&D (%)	51
International experience	55	Total public expenditure on education	51	Total R&D personnel per capita	44
Foreign highly-skilled personnel	51	Higher education achievement	55	▶ Female researchers	12
Management of cities	56	Pupil-teacher ratio (tertiary education)	46	R&D productivity by publication	21
Digital/Technological skills	22	▶ Graduates in Sciences	09	Scientific and technical employment	47
Net flow of international students	42	Women with degrees	52	High-tech patent grants	30
				Robots in Education and R&D	35

## TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	39	41	43	40	39
Capital	62	59	61	61	61
Technological framework	31	36	37	40	41

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	38	IT & media stock market capitalization	52	Communications technology	20
▶ Enforcing contracts	18	Funding for technological development	53	Mobile Broadband subscribers	55
Immigration laws	25	▷ Banking and financial services	60	Wireless broadband	39
Development & application of tech.	50	Country credit rating	52	Internet users	48
Scientific research legislation	52	▷ Venture capital	59	▶ Internet bandwidth speed	08
Intellectual property rights	49	Investment in Telecommunications	54	High-tech exports (%)	37

## FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	46	48	45	42	46
Business agility	60	46	53	57	59
IT integration	58	55	54	50	42

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	38	▷ Opportunities and threats	57	E-Government	48
Internet retailing	40	World robots distribution	35	▷ Public-private partnerships	60
Tablet possession	37	Agility of companies	56	Cyber security	32
Smartphone possession	49	Use of big data and analytics	37	Software piracy	52
Attitudes toward globalization	52	▷ Knowledge transfer	58	▶ Government cyber security capacity	14
		Entrepreneurial fear of failure	36	Privacy protection by law content	38