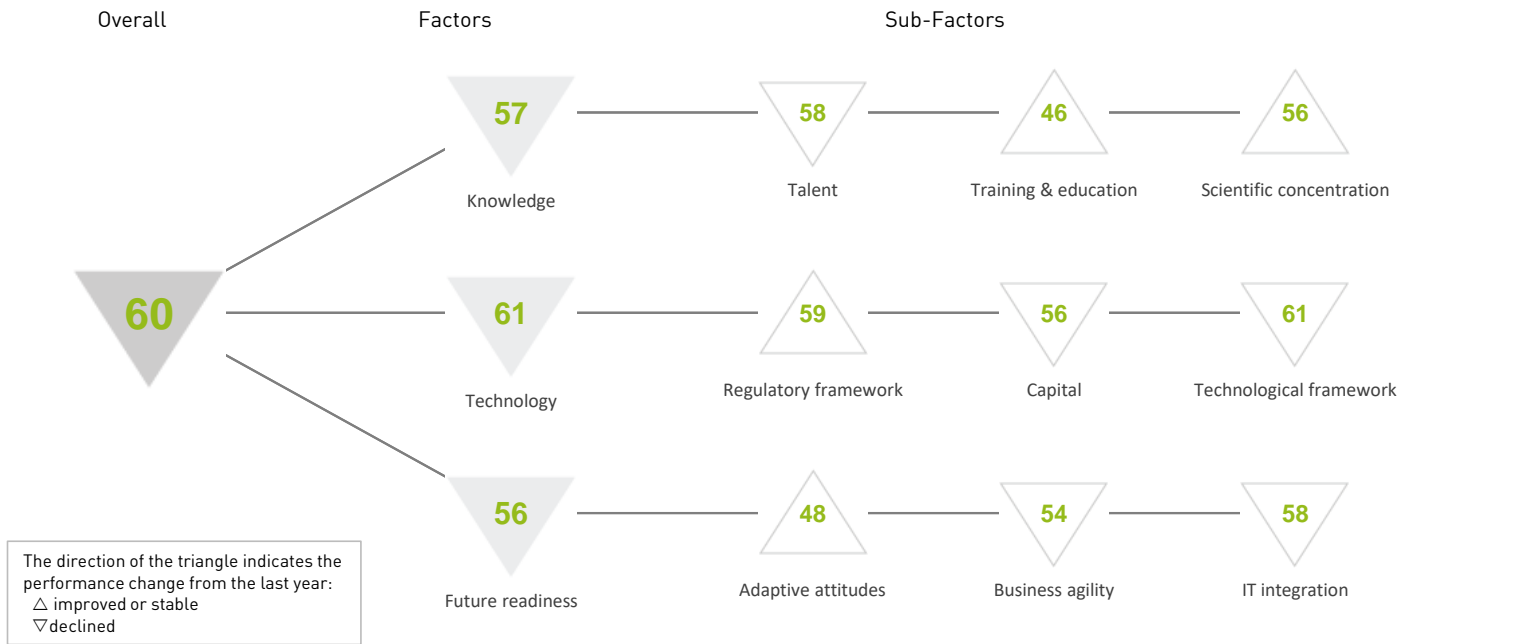


# COLOMBIA

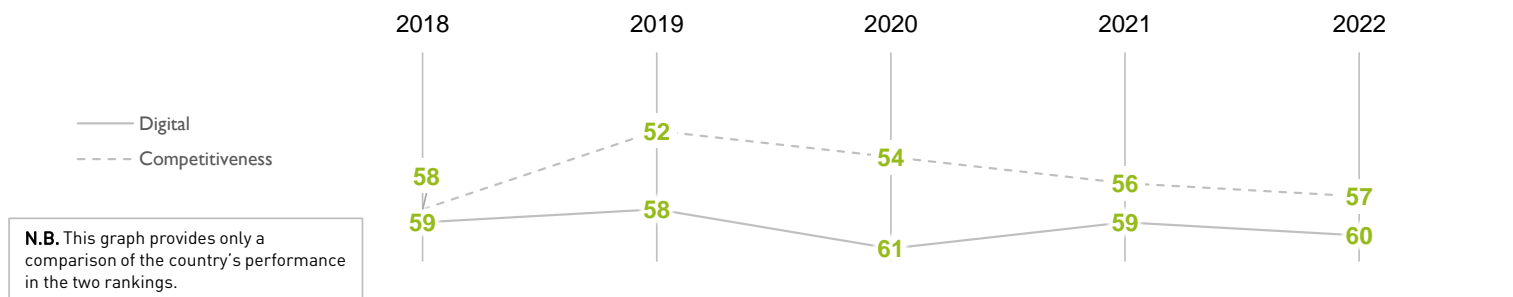
## OVERALL PERFORMANCE (63 countries)



## OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	59	58	61	59	60
Knowledge	57	57	59	56	57
Technology	60	60	61	60	61
Future readiness	56	55	50	53	56

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS

### THE AMERICAS (9 countries)



### POPULATIONS > 20 MILLION (27 countries)



## COLOMBIA

▶ Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	57	56	54	57	58
Training & education	45	49	48	50	46
Scientific concentration	57	58	57	58	56

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	52	Employee training	41	Total expenditure on R&D (%)	56
International experience	51	Total public expenditure on education	40	Total R&D personnel per capita	46
Foreign highly-skilled personnel	48	Higher education achievement	50	Female researchers	29
Management of cities	45	▶ Pupil-teacher ratio (tertiary education)	31	▶ R&D productivity by publication	14
Digital/Technological skills	53	Graduates in Sciences	30	Scientific and technical employment	48
Net flow of international students	49	Women with degrees	46	▷ High-tech patent grants	60
				Robots in Education and R&D	48

## TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	62	61	60	61	59
Capital	57	55	56	49	56
Technological framework	55	52	61	59	61

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	39	IT & media stock market capitalization	57	Communications technology	57
▷ Enforcing contracts	63	Funding for technological development	49	▷ Mobile Broadband subscribers	60
Immigration laws	48	Banking and financial services	59	▷ Wireless broadband	62
Development & application of tech.	47	Country credit rating	52	Internet users	56
Scientific research legislation	50	Venture capital	54	Internet bandwidth speed	55
Intellectual property rights	51	▶ Investment in Telecommunications	03	High-tech exports (%)	44

## FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	57	56	60	58	48
Business agility	54	55	38	47	54
IT integration	48	45	49	46	58

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
▶ E-Participation	26	Opportunities and threats	59	E-Government	52
Internet retailing	54	World robots distribution	49	Public-private partnerships	37
Tablet possession	52	Agility of companies	41	Cyber security	57
▶ Smartphone possession	31	Use of big data and analytics	36	Software piracy	40
Attitudes toward globalization	41	Knowledge transfer	43	▷ Government cyber security capacity	63
		Entrepreneurial fear of failure	37	Privacy protection by law content	52