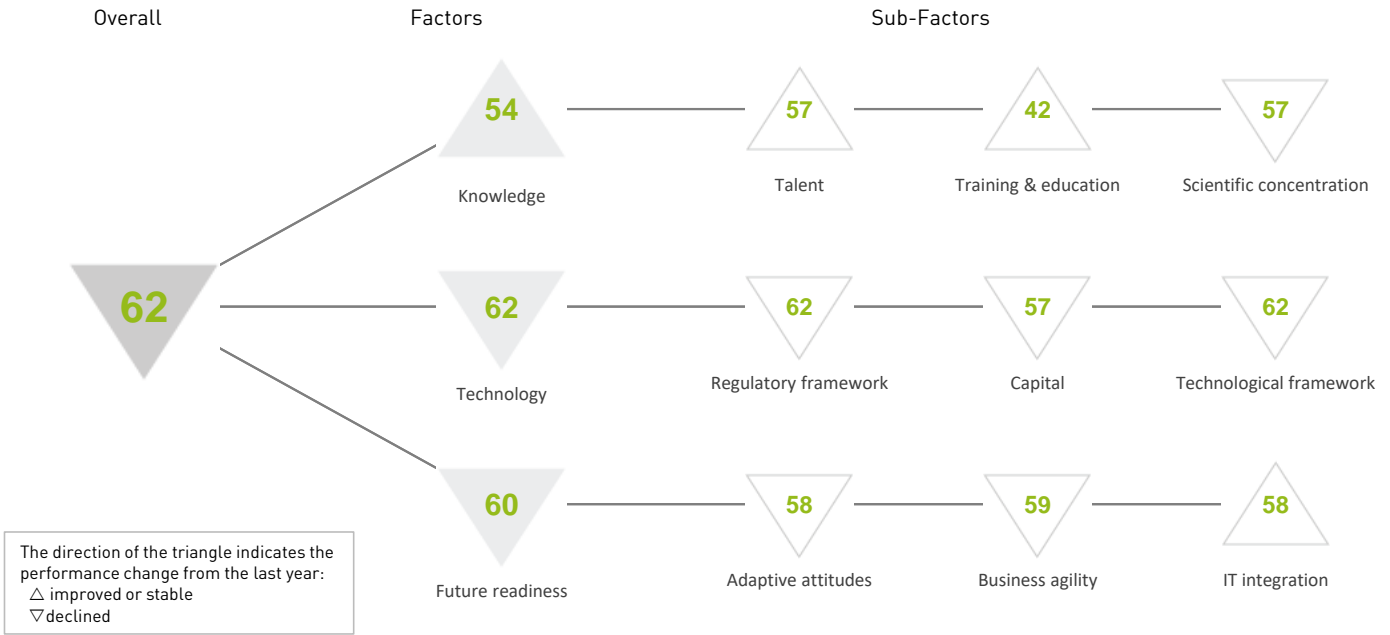


# COLOMBIA

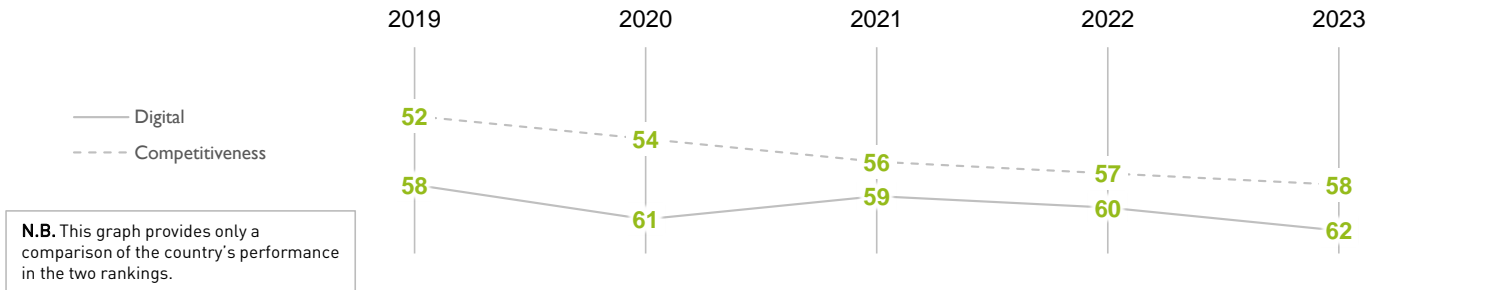
## OVERALL PERFORMANCE (64 countries)



## OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	58	61	59	60	62
Knowledge	57	59	56	57	54
Technology	60	61	60	61	62
Future readiness	55	50	53	56	60

## 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	2019	2020	2021	2022	2023
Talent	56	54	57	58	57
Training & education	49	48	50	46	42
Scientific concentration	58	57	58	56	57

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	52	Employee training	38	Total expenditure on R&D (%)	55
International experience	42	▶ Total public expenditure on education	23	Total R&D personnel per capita	49
Foreign highly skilled personnel	45	Higher education achievement	49	Female researchers	28
Management of cities	57	▶ Pupil-teacher ratio (tertiary education)	32	▶ R&D productivity by publication	14
Digital/Technological skills	55	Graduates in Sciences	30	Scientific and technical employment	45
Net flow of international students	51	Women with degrees	47	High-tech patent grants	60
				Robots in Education and R&D	48

## TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	61	60	61	59	62
Capital	55	56	49	56	57
Technological framework	52	61	59	61	62

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	40	IT & media stock market capitalization	58	▷ Communications technology	61
▷ Enforcing contracts	64	Funding for technological development	53	▷ Mobile broadband subscribers	61
Immigration laws	54	Banking and financial services	59	▷ Wireless broadband	63
Development & application of tech.	54	Country credit rating	55	Internet users	57
Scientific research legislation	50	Venture capital	47	Internet bandwidth speed	46
Intellectual property rights	50	▶ Investment in Telecommunications	04	High-tech exports (%)	47

## FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	56	60	58	48	58
Business agility	55	38	47	54	59
IT integration	45	49	46	58	58

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	34	Opportunities and threats	61	E-Government	54
Internet retailing	55	World robots distribution	49	Public-private partnerships	34
Tablet possession	60	Agility of companies	52	Cyber security	52
▶ Smartphone possession	30	Use of big data and analytics	45	Software piracy	40
Attitudes toward globalization	49	Knowledge transfer	41	▷ Government cyber security capacity	64
		Entrepreneurial fear of failure	38	Privacy protection by law content	52