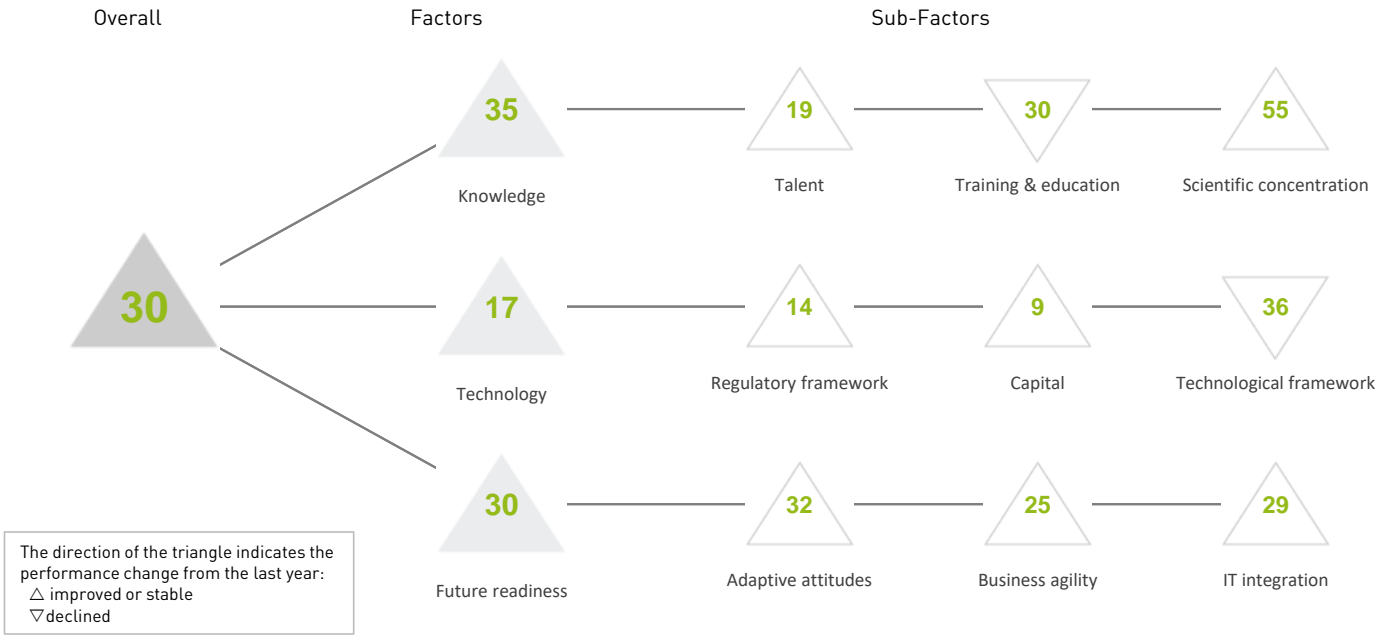


# SAUDI ARABIA

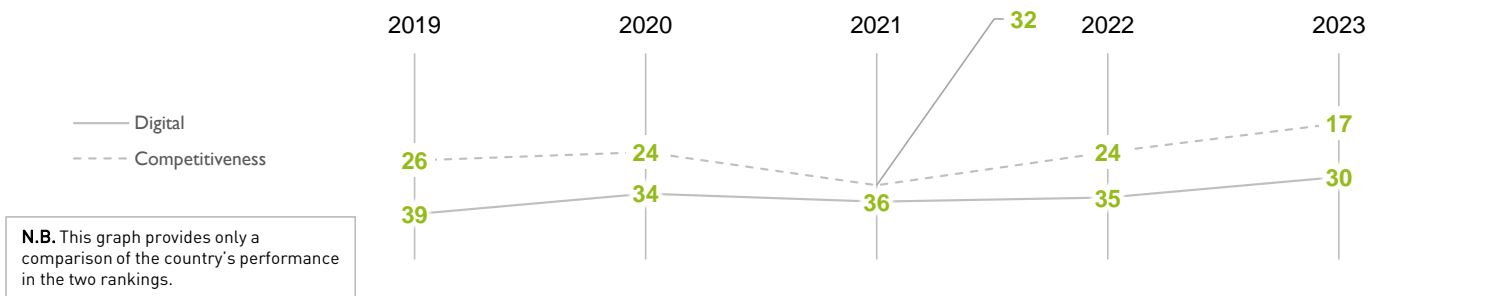
## OVERALL PERFORMANCE (64 countries)



## OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	39	34	36	35	30
Knowledge	39	46	50	37	35
Technology	40	24	24	26	17
Future readiness	38	28	32	37	30

## COMPETITIVENESS & DIGITAL RANKINGS

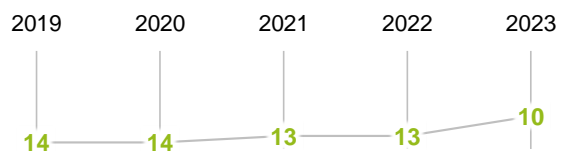


## PEER GROUPS RANKINGS

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



### POPULATIONS > 20 MILLION (27 countries)



## SAUDI ARABIA

► Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	20	34	32	28	19
Training & education	38	34	34	24	30
Scientific concentration	59	62	64	58	55

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
► Educational assessment PISA - Math	56	Employee training	21	Total expenditure on R&D (%)	51
International experience	07	Total public expenditure on education	11	Total R&D personnel per capita	50
Foreign highly skilled personnel	11	Higher education achievement	32	Female researchers	16
Management of cities	14	Pupil-teacher ratio (tertiary education)	41	R&D productivity by publication	13
Digital/Technological skills	06	Graduates in Sciences	31	▷ Scientific and technical employment	55
Net flow of international students	36	Women with degrees	33	High-tech patent grants	38
				▷ Robots in Education and R&D	54

## TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	39	25	30	25	14
Capital	13	05	15	22	09
Technological framework	54	47	35	34	36

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	22	IT & media stock market capitalization	49	Communications technology	12
Enforcing contracts	36	► Funding for technological development	01	Mobile broadband subscribers	30
Immigration laws	26	Banking and financial services	11	Wireless broadband	23
► Development & application of tech.	02	Country credit rating	28	Internet users	11
Scientific research legislation	10	► Venture capital	03	Internet bandwidth speed	42
Intellectual property rights	22	Investment in Telecommunications	19	▷ High-tech exports (%)	62

## FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	50	37	46	33	32
Business agility	36	28	35	32	25
IT integration	30	24	24	33	29

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	39	Opportunities and threats	13	E-Government	29
Internet retailing	51	World robots distribution	51	► Public-private partnerships	01
Tablet possession	47	Agility of companies	13	► Cyber security	02
Smartphone possession	03	Use of big data and analytics	07	Software piracy	38
Attitudes toward globalization	17	Knowledge transfer	17	Government cyber security capacity	22
		Entrepreneurial fear of failure	47	▷ Privacy protection by law content	62