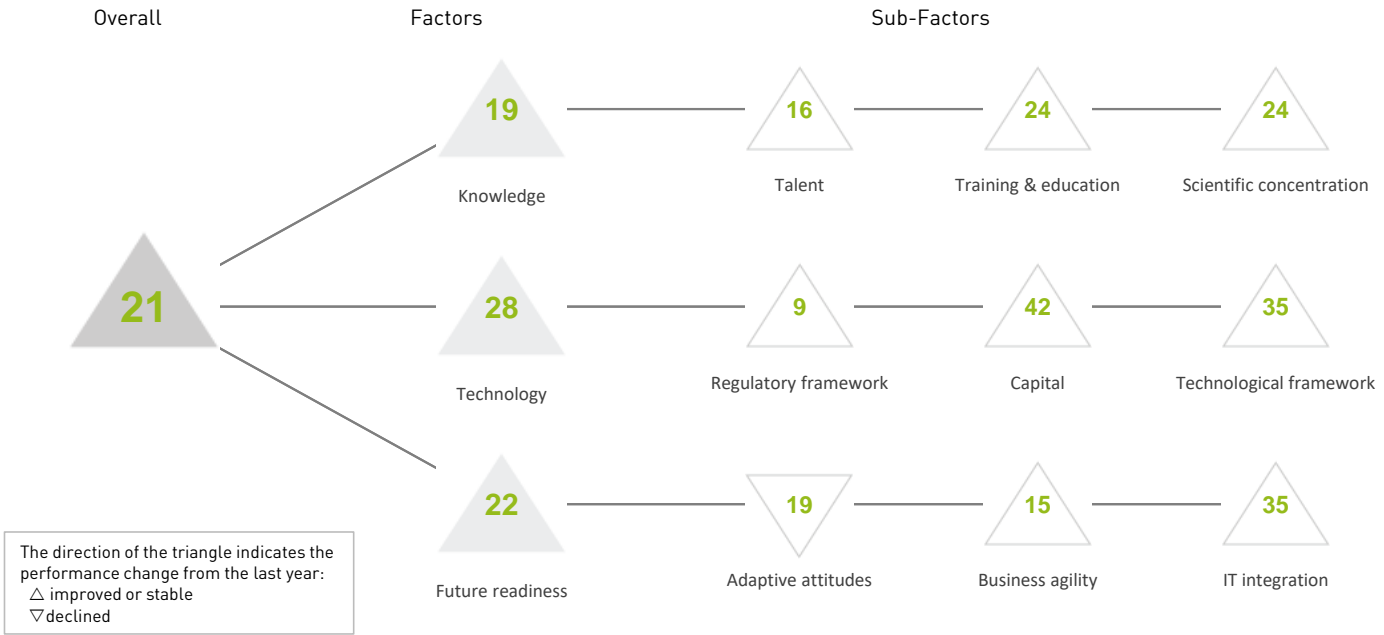


# IRELAND

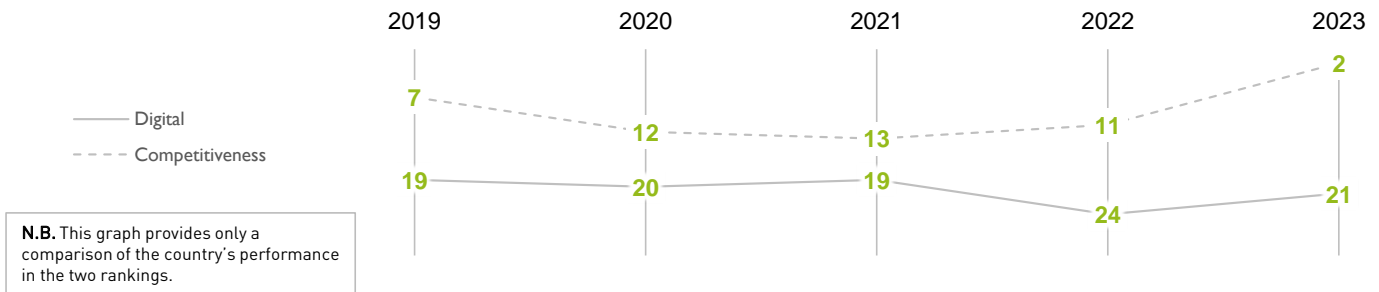
## OVERALL PERFORMANCE (64 countries)



## OVERALL & FACTORS - 5 years

	2019	2020	2021	2022	2023
OVERALL	19	20	19	24	21
Knowledge	24	24	23	22	19
Technology	28	30	28	37	28
Future readiness	05	14	14	22	22

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS

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



### POPULATIONS < 20 MILLION (37 countries)



## IRELAND

► Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

Sub-Factors	2019	2020	2021	2022	2023
Talent	10	19	18	19	16
Training & education	30	35	32	31	24
Scientific concentration	29	25	26	24	24

Talent	Rank
Educational assessment PISA - Math	20
International experience	10
Foreign highly skilled personnel	08
Management of cities	39
Digital/Technological skills	27
Net flow of international students	23

Training & education	Rank
Employee training	08
▷ Total public expenditure on education	60
Higher education achievement	08
Pupil-teacher ratio (tertiary education)	46
Graduates in Sciences	21
► Women with degrees	05

Scientific concentration	Rank
Total expenditure on R&D (%)	38
Total R&D personnel per capita	26
Female researchers	29
R&D productivity by publication	36
Scientific and technical employment	16
High-tech patent grants	07
Robots in Education and R&D	27

## TECHNOLOGY

Sub-Factors	2019	2020	2021	2022	2023
Regulatory framework	13	14	19	22	09
Capital	49	45	35	44	42
Technological framework	24	30	34	38	35

Regulatory framework	Rank
Starting a business	12
Enforcing contracts	48
► Immigration laws	04
Development & application of tech.	19
Scientific research legislation	06
Intellectual property rights	10

Capital	Rank
▷ IT & media stock market capitalization	59
Funding for technological development	10
Banking and financial services	25
Country credit rating	23
Venture capital	14
▷ Investment in Telecommunications	59

Technological framework	Rank
Communications technology	25
Mobile broadband subscribers	47
Wireless broadband	41
Internet users	21
Internet bandwidth speed	34
High-tech exports (%)	12

## FUTURE READINESS

Sub-Factors	2019	2020	2021	2022	2023
Adaptive attitudes	03	12	12	11	19
Business agility	09	09	14	18	15
IT integration	20	25	19	38	35

Adaptive attitudes	Rank
E-Participation	42
Internet retailing	06
Tablet possession	19
▷ Smartphone possession	56
► Attitudes toward globalization	01

Business agility	Rank
► Opportunities and threats	01
World robots distribution	41
► Agility of companies	02
Use of big data and analytics	22
Knowledge transfer	14
Entrepreneurial fear of failure	40

IT integration	Rank
E-Government	28
Public-private partnerships	20
Cyber security	32
Software piracy	19
▷ Government cyber security capacity	57
Privacy protection by law content	51