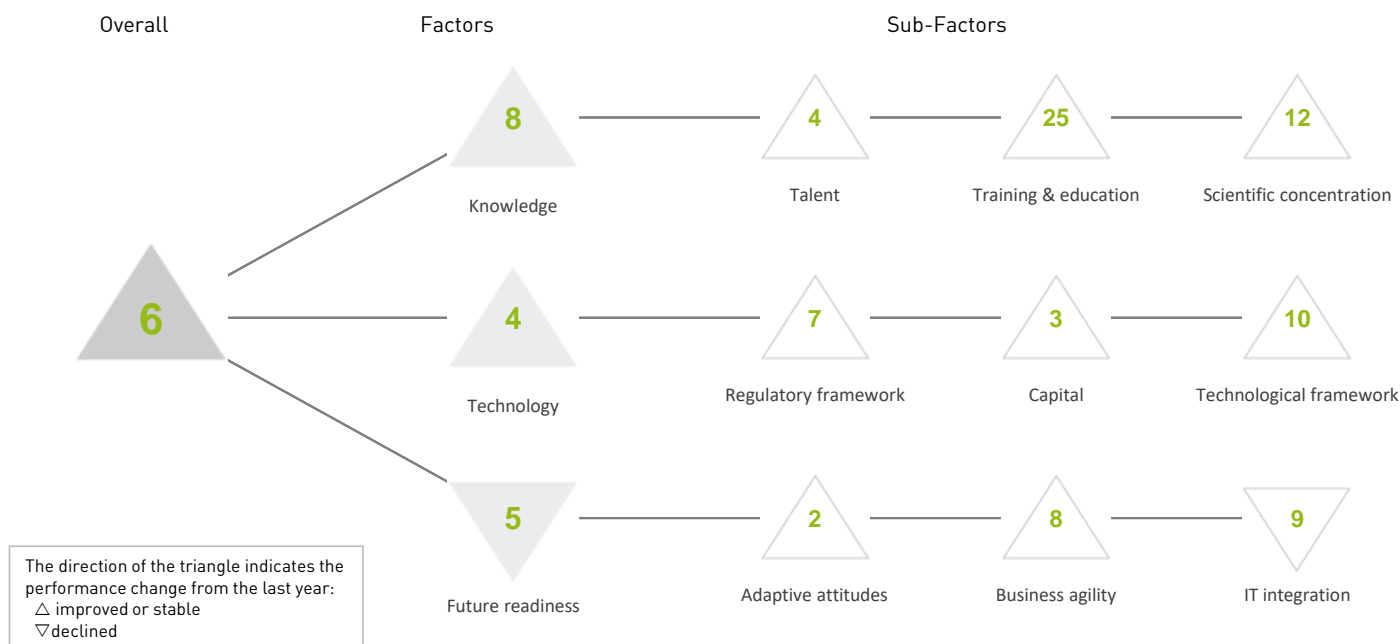


NETHERLANDS

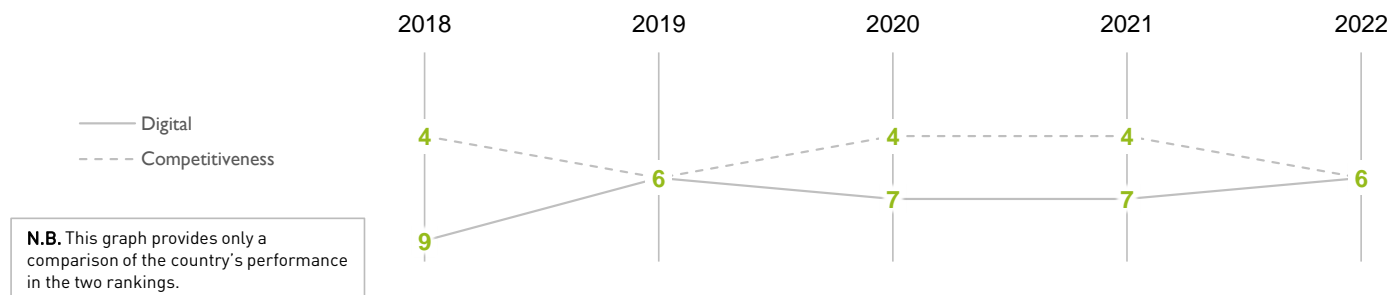
OVERALL PERFORMANCE (63 countries)



OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	09	06	07	07	06
Knowledge	12	13	14	11	08
Technology	08	06	08	07	04
Future readiness	04	03	04	04	05

COMPETITIVENESS & DIGITAL RANKINGS



PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)



POPULATIONS < 20 MILLION (36 countries)



NETHERLANDS

▶ Overall Top Strengths

▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	03	03	03	04	04
Training & education	31	36	29	28	25
Scientific concentration	16	19	16	16	12

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	08	Employee training	05	Total expenditure on R&D (%)	16
International experience	06	Total public expenditure on education	25	Total R&D personnel per capita	07
▶ Foreign highly-skilled personnel	02	Higher education achievement	18	▷ Female researchers	48
Management of cities	09	Pupil-teacher ratio (tertiary education)	23	R&D productivity by publication	27
Digital/Technological skills	06	▷ Graduates in Sciences	53	Scientific and technical employment	03
Net flow of international students	08	Women with degrees	25	High-tech patent grants	12
				Robots in Education and R&D	21

TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	10	06	11	07	07
Capital	07	05	02	03	03
Technological framework	14	10	12	10	10

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
Starting a business	13	▶ IT & media stock market capitalization	03	▶ Communications technology	02
▷ Enforcing contracts	44	Funding for technological development	06	Mobile Broadband subscribers	14
Immigration laws	03	Banking and financial services	15	Wireless broadband	35
Development & application of tech.	06	▶ Country credit rating	01	Internet users	13
Scientific research legislation	06	Venture capital	04	Internet bandwidth speed	11
Intellectual property rights	05	▷ Investment in Telecommunications	47	High-tech exports (%)	14

FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	07	09	06	06	02
Business agility	12	07	07	08	08
IT integration	07	03	05	06	09

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	09	Opportunities and threats	09	E-Government	10
Internet retailing	07	World robots distribution	20	Public-private partnerships	05
Tablet possession	15	Agility of companies	12	Cyber security	20
Smartphone possession	25	Use of big data and analytics	16	Software piracy	13
Attitudes toward globalization	06	▶ Knowledge transfer	02	▷ Government cyber security capacity	40
		Entrepreneurial fear of failure	11	Privacy protection by law content	07