

COUNTRY
PROFILE

GERMANY



WORLD COMPETITIVENESS RANKING **2022**

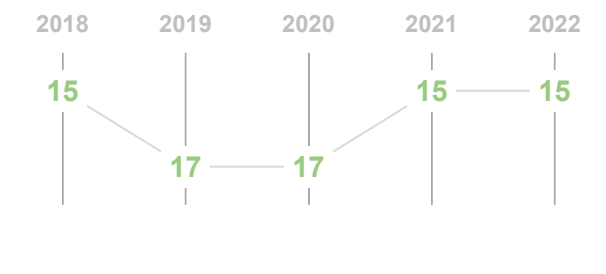
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Germany

Competitiveness Trends – Overall

OVERALL PERFORMANCE (63 countries)

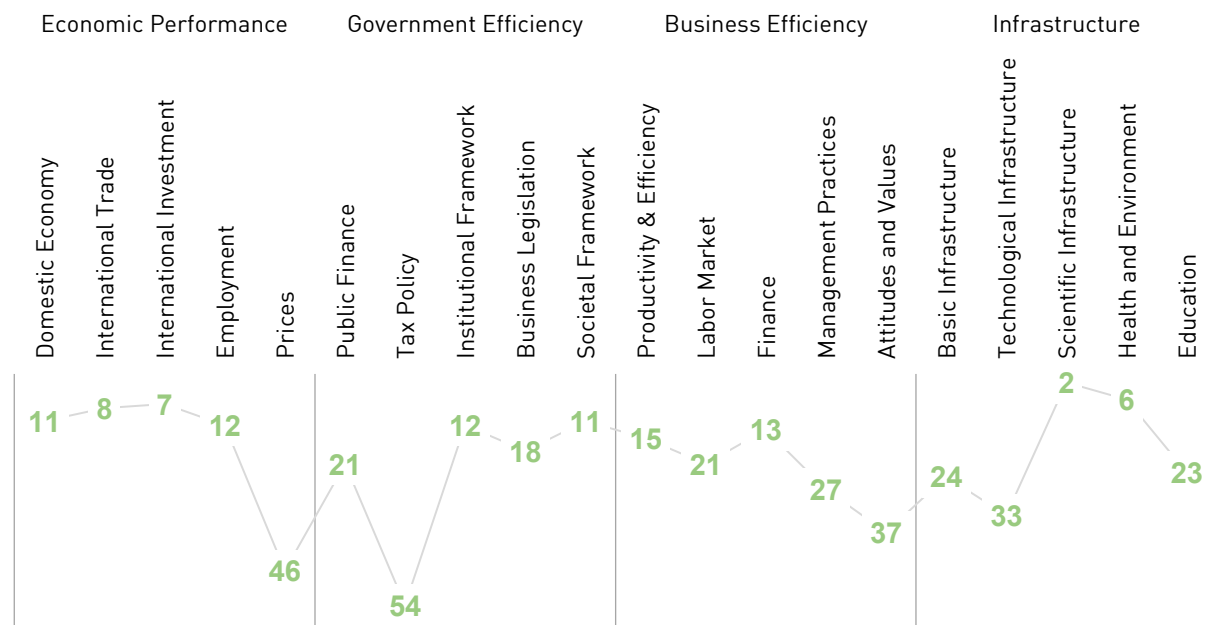


BASIC FACTS

Rank

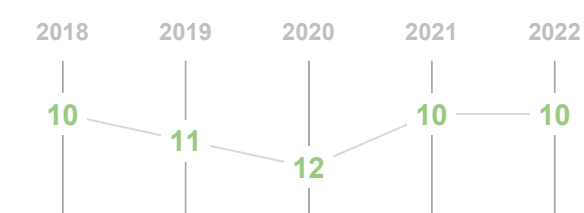
Capital	Berlin	
Land area (square km '000)	358	²⁰²¹
Exchange Rate (per \$)	0.845	²⁰²¹
Population - market size (millions)	83.20	²⁰²¹ 10
Gross Domestic Product (GDP) (US\$ billions)	4,223.1	²⁰²¹ 04
GDP (PPP) per capita (US\$)	58,377	²⁰²¹ 16
Real GDP growth (%)	2.9	²⁰²¹ 56
Consumer price inflation (%)	3.21	²⁰²¹ 35
Unemployment rate (%)	3.58	²⁰²¹ 08
Labor force (millions)	43.04	²⁰²¹ 09
Current account balance (% of GDP)	7.43	²⁰²¹ 12
Direct investment stocks inward (\$bn)	1,059.3	²⁰²⁰ 10
Direct investment flows inward (% of GDP)	2.93	²⁰²⁰ 16

COMPETITIVENESS LANDSCAPE

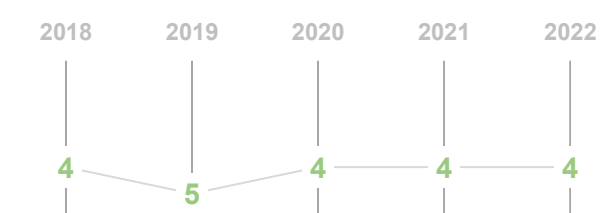


PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)



POPULATIONS > 20 MILLION (27 countries)



Germany

Competitiveness Evolution & Attractiveness Indicators

COMPETITIVENESS EVOLUTION

The criteria below highlight the 15 biggest Improvements and the 15 biggest Declines in the overall performance of the economy. They are determined by the largest percentage changes in the value of each criterion from one yearbook to the next.

IMPROVEMENTS	WCY 2021	WCY 2022	DECLINES	WCY 2021	WCY 2022
1.1.18 Gross fixed capital formation - real growth	-3.14	3.37	1.5.01 Consumer price inflation	0.37	3.21
1.1.14 Real GDP growth	-4.9	2.9	1.4.04 Employment - long-term growth	0.11	-0.30
1.1.15 Real GDP growth per capita	-4.97	2.85	3.2.14 Labor force - long-term growth	2.07	-0.55
2.3.10 Adaptability of government policy	3.04	4.79	1.2.25 Tourism receipts	1.08	0.57
2.5.16 Freedom of the Press	12.16	8.25	4.1.07 Population - growth	0.08	0.04
2.3.11 Transparency	5.06	6.68	2.3.08 Exchange rate stability	0.017	0.024
2.3.09 Legal and regulatory framework	4.40	5.54	2.4.07 Government subsidies	2.09	2.94
1.2.12 Exports of commercial services (\$bn)	305.24	380.78	1.4.10 Youth exclusion	5.7	7.4
2.4.08 Subsidies	4.98	6.16	3.4.13 Entrepreneurial fear of failure	29.68	37.93
2.1.07 Public finances	4.53	5.61	1.4.09 Youth unemployment	5.77	6.95
2.3.12 Bureaucracy	2.53	3.11	1.2.18 Export concentration by product	43.9	52.9
2.4.11 Parallel economy	6.13	7.31	1.5.06 Gasoline prices	1.45	1.74
1.2.08 Exports of goods (\$bn)	1,380.00	1,631.82	4.1.20 Electricity costs for industrial clients	0.146	0.173
2.4.09 State ownership of enterprises	6.61	7.76	2.4.18 Immigration laws	7.07	6.32
3.5.05 Need for economic and social reforms	4.81	5.58	4.1.15 Energy infrastructure	8.13	7.29

KEY ATTRACTIVENESS INDICATORS

From a list of 15 indicators, respondents of the Executive Opinion Survey were asked to select 5 that they perceived as the key attractiveness factors of their economy. The chart shows the percentage of responses per indicator from the highest number of responses to the lowest.

Policy stability & predictability	77.4%	
Skilled workforce	73.4%	
High educational level	71.8%	
Effective legal environment	62.9%	
Reliable infrastructure	59.7%	
Strong R&D culture	49.2%	
Access to financing	24.2%	
Dynamism of the economy	20.2%	
Effective labor relations	16.1%	
Quality of corporate governance	12.1%	
Business-friendly environment	8.1%	
Competency of government	5.6%	
Open and positive attitudes	4.0%	
Cost competitiveness	3.2%	
Competitive tax regime	1.6%	

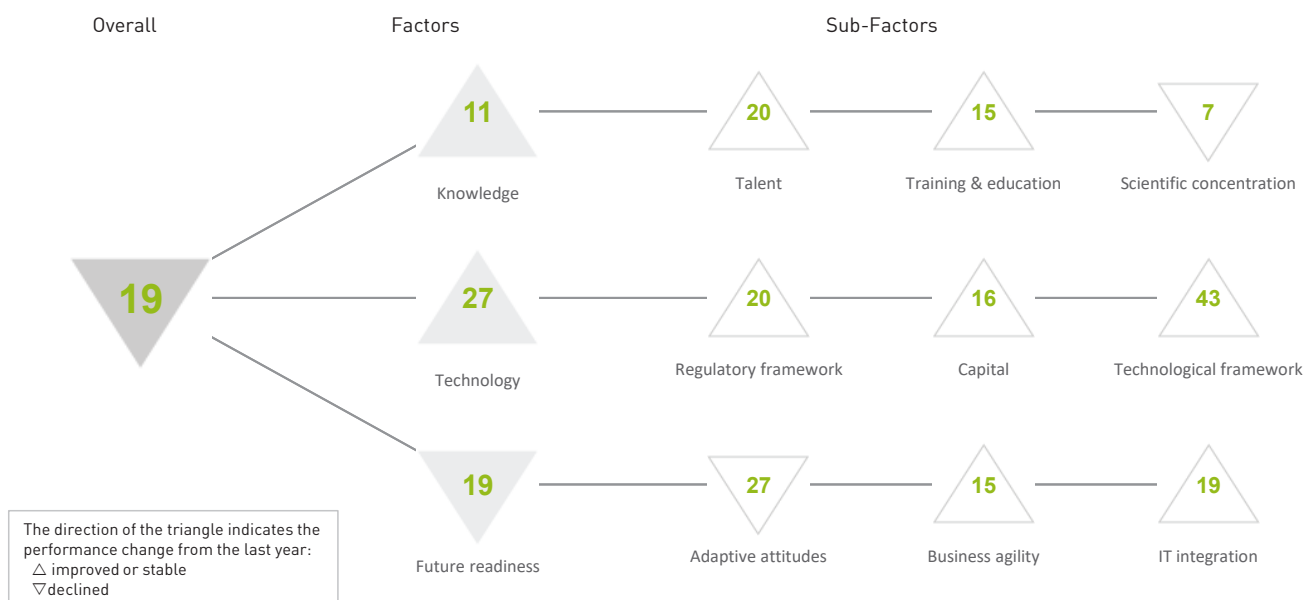
WORLD COMPETITIVENESS DIGITAL RANKING **2022**

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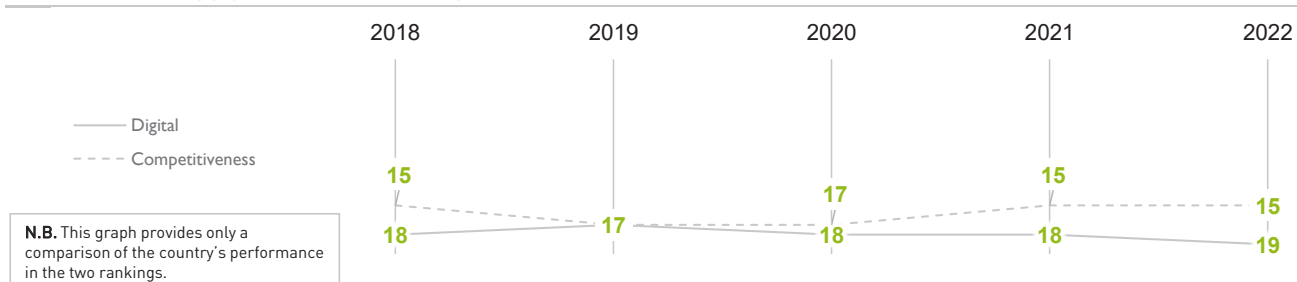
OVERALL PERFORMANCE (63 countries)



OVERALL & FACTORS - 5 years

	2018	2019	2020	2021	2022
OVERALL	18	17	18	18	19
Knowledge	14	12	12	14	11
Technology	21	31	31	31	27
Future readiness	20	16	19	18	19

COMPETITIVENESS & DIGITAL RANKINGS

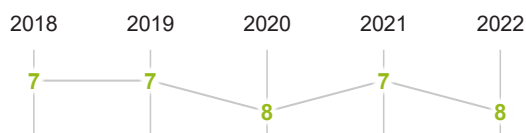


PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)



POPULATIONS > 20 MILLION (27 countries)



GERMANY

- Overall Top Strengths
- ▷ Overall Top Weaknesses

KNOWLEDGE

Sub-Factors	2018	2019	2020	2021	2022
Talent	22	25	22	21	20
Training & education	19	14	17	17	15
Scientific concentration	10	04	05	06	07

Talent	Rank	Training & education	Rank	Scientific concentration	Rank
Educational assessment PISA - Math	19	► Employee training	04	Total expenditure on R&D (%)	10
International experience	14	Total public expenditure on education	36	Total R&D personnel per capita	13
Foreign highly-skilled personnel	15	Higher education achievement	44	Female researchers	47
Management of cities	14	► Pupil-teacher ratio (tertiary education)	03	R&D productivity by publication	12
▷ Digital/Technological skills	52	► Graduates in Sciences	03	Scientific and technical employment	28
Net flow of international students	15	Women with degrees	43	High-tech patent grants	18
				► Robots in Education and R&D	02

TECHNOLOGY

Sub-Factors	2018	2019	2020	2021	2022
Regulatory framework	23	27	28	25	20
Capital	16	17	16	23	16
Technological framework	27	40	45	43	43

Regulatory framework	Rank	Capital	Rank	Technological framework	Rank
▷ Starting a business	50	IT & media stock market capitalization	11	▷ Communications technology	51
Enforcing contracts	12	Funding for technological development	27	▷ Mobile Broadband subscribers	54
Immigration laws	23	Banking and financial services	27	Wireless broadband	45
Development & application of tech.	40	► Country credit rating	01	Internet users	16
Scientific research legislation	17	Venture capital	30	Internet bandwidth speed	28
Intellectual property rights	06	Investment in Telecommunications	38	High-tech exports (%)	27

FUTURE READINESS

Sub-Factors	2018	2019	2020	2021	2022
Adaptive attitudes	22	16	23	23	27
Business agility	20	11	15	15	15
IT integration	18	17	20	20	19

Adaptive attitudes	Rank	Business agility	Rank	IT integration	Rank
E-Participation	44	Opportunities and threats	37	E-Government	24
Internet retailing	14	World robots distribution	05	Public-private partnerships	43
Tablet possession	23	Agility of companies	34	Cyber security	21
Smartphone possession	47	▷ Use of big data and analytics	52	Software piracy	08
Attitudes toward globalization	29	Knowledge transfer	08	Government cyber security capacity	29
		Entrepreneurial fear of failure	13	Privacy protection by law content	18

WORLD TALENT RANKING **2022**

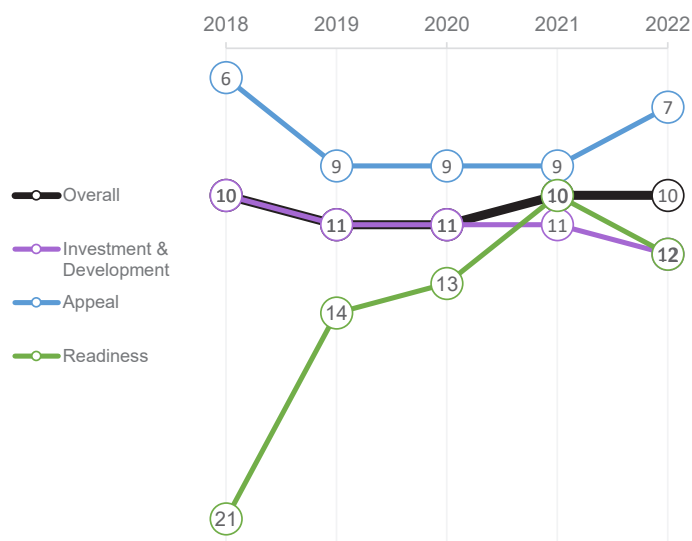
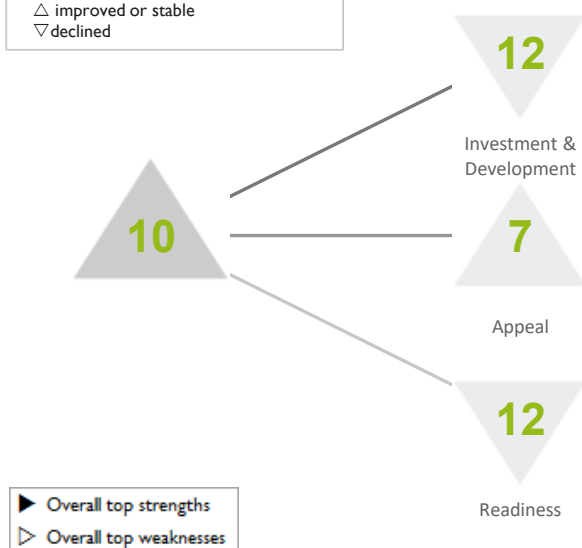
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OVERALL PERFORMANCE (63 countries)

The direction of the triangle indicates the performance change from the last year:
 ▲ improved or stable
 ▼ declined



INVESTMENT & DEVELOPMENT

		Value	2022 Rank
▷ Total public expenditure on education	Percentage of GDP	4.7 %	39
Total public exp. on education per student	Spending per enrolled pupil/student, all levels	10,936 US\$	15
Pupil-teacher ratio (primary education)	Ratio of students to teaching staff	14.86 ratio	32
Pupil-teacher ratio (secondary education)	Ratio of students to teaching staff	12.64 ratio	38
▶ Apprenticeships	are sufficiently implemented	8.23 Survey [0..10]	2
▶ Employee training	is a high priority in companies	7.60 Survey [0..10]	4
Female labor force	Percentage of total labor force	46.57 %	28
Health infrastructure	meets the needs of society	7.84 Survey [0..10]	11

APPEAL

		Value	2022 Rank
▷ Cost-of-living index	Index of a basket of goods & services in the main city, including housing (New York City = 100)	82.50 index	41
Attracting and retaining talents	is a priority in companies	7.81 Survey [0..10]	11
Worker motivation	in companies is high	6.83 Survey [0..10]	13
Brain drain	(well-educated and skilled people) does not hinder competitiveness in your economy	6.13 Survey [0..10]	16
Quality of life	is high	9.01 Survey [0..10]	9
Foreign highly-skilled personnel	are attracted to your country's business environment	6.52 Survey [0..10]	15
Remuneration in services professions	Gross annual income including supplements such as bonuses, US\$	46,639 US\$	9
▶ Remuneration of management	Total base salary plus bonuses and long-term incentives, US\$	303,570 US\$	3
▷ Collected personal income tax	On profits, income and capital gains, as a percentage of GDP	10.36 %	51
Justice	is fairly administered	8.08 Survey [0..10]	9
Exposure to particle pollution	Mean population exposure to PM2.5, Micrograms per cubic metre	11.93 micrograms	20

READINESS

		Value	2022 Rank
▷ Labor force growth	Percentage change	-1.11 %	53
▷ Skilled labor	is readily available	4.74 Survey [0..10]	40
Finance skills	are readily available	6.70 Survey [0..10]	21
International experience	of senior managers is generally significant	6.52 Survey [0..10]	14
Competent senior managers	are readily available	5.56 Survey [0..10]	31
Primary and secondary education	meets the needs of a competitive economy	8.00 Survey [0..10]	8
▶ Graduates in Sciences	% of graduates in ICT, Engineering, Math & Natural Sciences	35.82 %	4
▶ University education	meets the needs of a competitive economy	8.24 Survey [0..10]	6
Management education	meets the needs of the business community	7.27 Survey [0..10]	12
Language skills	are meeting the needs of enterprises	7.05 Survey [0..10]	27
Student mobility inbound	Foreign tertiary-level students per 1000 inhabitants	4.43 number	20
Educational assessment - PISA	PISA survey of 15-year olds	500 Average	18

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