

IMD World Digital Competitiveness Ranking 2023, DCR

Taiwan's Performance in Each Factor

Overall Performance , 64 countries

Year	2018	2019	2020	2021	2022	2023
MD World Digital Competitiveness Ranking of Taiwan	16	13	11	8	11	9
Knowledge	19	17	18	16	18	18
Technology	11	9	5	2	6	3
Future Readiness	22	12	8	7	8	7

Sub-Factors that Taiwan Ranked in Top 3 of the World

Factor	Sub-Factors	Rank
Knowledge	Total R&D personnel per capita	1
	Higher education achievement	3
	Total expenditure on R&D (%)	3
Technology	IT & media stock market capitalization	1
	Mobile broadband subscribers	1
Future readiness	Agility of companies	1
	Use of big data and analytics	1

Knowledge

Sub-factors	2018	2019	2020	2021	2022	2023
Talent	25	21	18	17	21	22
Training & Education	25	20	21	12	11	10
Scientific Concentration	13	15	18	19	21	21

Talent	2022	2023
Educational assessment PISA - Math	4	4
International experience	27	40
Foreign highly skilled personnel	43	44
Management of cities	18	17

Training & Education	2022	2023
Employee training	6	7
Total public expenditure on education	52	52
Higher education achievement	3	3
Pupil-teacher ratio (tertiary)	50	50

Scientific Concentration	2022	2023
Total expenditure on R&D (%)	3	3
Total R&D personnel per capita	1	1
Female researchers	52	54
R&D productivity by publication	33	32

Digital/Technological skills	33	32
Net flow of international students	11	13

education)		
Graduates in Sciences	5	7
Women with degrees	18	8

Scientific and technical employment	45	47
High-tech patent grants	20	20
Robots in Education and R&D	19	19

Technology

Sub-factors	2018	2019	2020	2021	2022	2023
Regulation framework	21	23	16	16	14	16
Capital	13	12	8	2	9	5
Technological framework	10	4	4	4	4	5

Regulation framework	2022	2023
Starting a business	10	10
Enforcing contracts	11	11
Immigration laws	34	31
Development & application of tech	17	25
Scientific research legislation	10	16
Intellectual property rights	19	20

Capital	2022	2023
IT & media stock market capitalization	1	1
Funding for technological development	16	18
Banking and financial services	10	14
Country credit rating	16	15
Venture capital	13	19
Investment in Telecommunications	57	46

Technological framework	2022	2023
Communications technology	22	19
Mobile broadband subscribers	1	1
Wireless broadband	13	10
Internet users	21	22
Internet bandwidth speed	20	13
High-tech exports (%)	3	4

Future readiness

Sub-factors	2018	2019	2020	2021	2022	2023
Adaptive attitudes	28	14	14	13	13	17
Business agility	13	3	1	2	5	1
IT Integration	23	24	17	15	13	14

Adaptive attitudes	2022	2023
E-Participation	-	-
Internet retailing	22	26
Tablet possession	25	20
Smartphone possession	5	7
Attitudes toward globalization	5	6

Business agility	2022	2023
Opportunities and threats	5	5
World robots distribution	7	7
Agility of companies	3	1
Use of big data and analytic	2	1
Knowledge transfer	10	12

IT Integration	2022	2023
E-Government	-	-
Public-private partnerships	13	13
Cyber security	9	19
Software piracy	25	25
Government cyber security capacity	9	9

Entrepreneurial fear of failure	18	18
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Privacy protection by law content	40	40
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