

# GII

Zoe Meers

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	X1	X2	Rank Indicator:Aus	Rank Indicator:US	Score:Aus	Score:US	Value:Aus	Value:US	S/W:Aus	S/W:US
1	Indicator	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	Global Innovation Index	NA	23	4	NA	NA	51.8	61.4	NA	NA
3	Innovation Efficiency Ratio	NA	76	21	NA	NA	0.6	0.8	Weakness	NA
4	Innovation Input Sub-index	NA	12	5	NA	NA	64.6	68.9	NA	NA
5	Innovation Output Sub-index	NA	30	5	NA	NA	39.1	53.9	NA	NA

	X1	X2	Rank Indicator:Aus	Rank Indicator:US	Score:Aus	Score:US	Value:Aus	Value:US	S/W:Aus	S/W:US
1	1.	Institutions	14	17	NA	NA	87.4	86.2	NA	NA
2	1.1.	Political environment	17	21	NA	NA	83.9	80.3	NA	NA
3	1.1.1.	Political stability and absence of violence/terrorism	24	31	0.9	0.7	85.7	80.8	NA	NA
4	1.1.2.	Government effectiveness	15	20	1.6	1.5	82.2	79.7	NA	NA
5	1.2.	Regulatory environment	11	13	NA	NA	91.2	90.4	NA	NA
6	1.2.1.	Regulatory quality	8	19	1.8	1.3	88.0	75.3	NA	NA
7	1.2.2.	Rule of law	13	18	1.8	1.6	92.7	86.3	NA	NA
8	1.2.3.	Cost of redundancy dismissal	43	1	12.0	8.0	92.1	100.0	NA	Strength
9	1.3.	Business environment	16	10	NA	NA	86.9	88.1	NA	NA
10	1.3.1.	Ease of starting a business	7	44	96.5	91.2	96.5	91.2	Strength	NA
11	1.3.2.	Ease of resolving insolvency	20	5	78.7	89.2	78.7	89.2	NA	NA
12	1.3.3.	Ease of paying taxes	23	32	85.6	83.8	85.6	83.8	NA	NA

X1	X2	Rank Indicator:Aus	Rank Indicator:US	Score:Aus	Score:US	Value:Aus	Value:US	S/W:Aus	S/W:US
1 2.	Human capital and research	9	13	NA	NA	60.2	57.2	NA	NA
2 2.1.	Education	26	41	NA	NA	58.6	54.7	NA	NA
3 2.1.1.	Expenditure on education	41	54	5.3	4.9	48.9	45.0	NA	NA
4 2.1.2.	Government expenditure on education per pupil, secondary	66	41	16.9	22.7	17.7	26.2	Weakness	NA
5 2.1.3.	School life expectancy	1	20	20.5	16.5	100.0	74.1	Strength	NA
6 2.1.4.	Assessment in reading, mathematics, and science	19	29	502.3	487.6	77.1	70.3	NA	NA
7 2.1.5.	Pupil-teacher ratio, secondary	NA	63	NA	14.8	NA	76.7	NA	Weakness
8 2.2.	Tertiary education	10	54	NA	NA	58.1	38.1	NA	NA
9 2.2.1.	Tertiary enrolment	3	9	90.3	85.8	79.2	75.2	Strength	NA
10 2.2.2.	Graduates in science and engineering	79	85	15.9	14.9	28.9	26.6	Weakness	Weakness
11 2.2.3.	Tertiary level inbound mobility	6	40	18.3	4.6	95.5	24.1	Strength	NA
12 2.3.	Research and development (R&D)	13	4	NA	NA	64.0	78.8	NA	NA
13 2.3.1.	Researchers	15	20	4530.7	4232.0	54.8	51.2	NA	NA
14 2.3.2.	Gross expenditure on R&D (GERD)	16	10	2.2	2.8	50.9	65.0	NA	NA
15 2.3.3.	Global R&D companies, average expenditure top 3	19	1	621.3	11774.7	68.6	100.0	NA	Strength
16 2.3.4.	QS university ranking average score top 3 universities	7	1	81.6	99.0	81.6	99.0	Strength	Strength

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1 3.	Infrastructure	7	21	NA	NA	64.8	61.0	Strength	NA
2 3.1.	Information and communication technologies (ICTs)	4	11	NA	NA	88.9	85.2	Strength	NA
3 3.1.1.	ICT access	20	19	8.2	8.3	82.3	82.7	NA	NA
4 3.1.2.	ICT use	15	17	7.7	7.6	77.0	75.7	NA	NA
5 3.1.3.	Government's online service	2	9	1.0	0.9	97.8	92.8	Strength	NA
6 3.1.4.	Online e-participation	2	12	1.0	0.9	98.3	89.8	Strength	NA
7 3.2.	General infrastructure	12	16	NA	NA	53.7	52.8	NA	NA
8 3.2.1.	Electricity output	13	8	10388.2	13342.4	37.3	48.0	NA	NA
9 3.2.2.	Logistics performance	19	10	3.8	4.0	80.0	89.2	NA	NA
10 3.2.3.	Gross capital formation	45	82	24.9	19.8	48.7	37.1	NA	Weakness
11 3.3.	Ecological sustainability	41	61	NA	NA	51.8	45.0	NA	NA
12 3.3.1.	GDP per unit of energy use	67	76	8.2	7.6	29.2	26.8	Weakness	Weakness
13 3.3.2.	Environmental performance	13	26	87.2	84.7	87.2	84.7	NA	NA
14 3.3.3.	ISO 14001 environmental certificates	26	91	3.9	0.3	26.1	2.2	NA	Weakness

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1 4.	Market sophistication	9	1	NA	NA	65.3	83.4	NA	Strength
2 4.1.	Credit	5	1	NA	NA	72.5	85.5	Strength	Strength
3 4.1.1.	Ease of getting credit	5	2	90.0	95.0	90.0	95.0	Strength	Strength
4 4.1.2.	Domestic credit to private sector	13	3	137.6	188.8	55.1	76.0	NA	Strength
5 4.1.3.	Microfinance institutions' gross loan portfolio	NA	NA	NA	NA	NA	NA	NA	NA
6 4.2.	Investment	40	3	NA	NA	45.2	72.2	NA	Strength
7 4.2.1.	Ease of protecting minority investors	62	40	58.3	64.7	58.3	64.7	NA	NA
8 4.2.2.	Market capitalization	13	5	88.6	139.0	37.9	59.4	NA	NA
9 4.2.3.	Venture capital deals	22	1	0.1	0.4	26.3	100.0	NA	Strength
10 4.3.	Trade, competition, & market scale	13	1	NA	NA	78.2	92.7	NA	Strength
11 4.3.1.	Applied tariff rate, weighted mean	53	50	1.9	1.6	89.0	90.5	NA	NA
12 4.3.2.	Intensity of local competition	6	5	5.9	6.0	81.9	83.0	Strength	NA
13 4.3.3.	Domestic market scale	19	2	1188.8	18561.9	71.0	98.6	NA	Strength

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1 5.	Business sophistication	27	8	NA	NA	45.4	56.4	NA	NA
2 5.1.	Knowledge workers	10	11	NA	NA	67.5	67.4	NA	NA
3 5.1.1.	Employment in knowledge-intensive services	13	28	44.9	38.0	78.8	66.5	NA	NA
4 5.1.2.	Firms offering formal training	NA	NA	NA	NA	NA	NA	NA	NA
5 5.1.3.	GERD performed by business enterprise	17	7	1.2	2.0	33.7	54.6	NA	NA
6 5.1.4.	GERD financed by business enterprise	9	8	61.9	64.2	79.4	82.3	NA	NA
7 5.1.5.	Females employed with advanced degrees	16	NA	22.6	NA	66.8	NA	NA	NA
8 5.2.	Innovation linkages	52	15	NA	NA	32.0	46.6	NA	NA
9 5.2.1.	University/industry research collaboration	32	4	4.3	5.6	54.5	76.2	NA	NA
10 5.2.2.	State of cluster development	42	1	4.0	5.6	49.6	76.0	NA	Strength
11 5.2.3.	GERD financed by abroad	80	66	1.6	4.7	2.7	7.8	Weakness	Weakness
12 5.2.4.	Joint venture/strategic alliance deals	7	17	0.2	0.1	53.9	29.4	NA	NA
13 5.2.5.	Patent families filed in at least two offices	28	13	1.0	5.0	11.1	52.7	NA	NA
14 5.3.	Knowledge absorption	48	6	NA	NA	36.6	55.2	NA	NA
15 5.3.1.	Intellectual property payments	20	19	1.4	1.6	38.9	43.5	NA	NA
16 5.3.2.	High-tech imports	28	11	11.5	17.7	40.5	68.4	NA	NA
17 5.3.3.	ICT services imports	69	52	1.0	1.3	17.1	23.9	Weakness	NA
18 5.3.4.	Foreign direct investment, net inflows	53	90	3.2	1.7	54.5	49.5	NA	Weakness
19 5.3.5.	Research talent in business enterprise	46	4	27.9	71.0	33.2	84.8	Weakness	NA

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1 6.	Knowledge and technology outputs	34	7	NA	NA	32.1	54.4	NA	NA
2 6.1.	Knowledge creation	25	7	NA	NA	34.3	63.4	NA	NA
3 6.1.1.	Patent applications by origin	45	6	2.0	16.0	10.7	85.4	NA	NA
4 6.1.2.	PCT international applications by origin	22	14	1.5	3.0	20.6	40.8	NA	NA
5 6.1.3.	Utility model applications by origin	27	NA	1.0	NA	21.4	NA	NA	NA
6 6.1.4.	Scientific and technical publications	9	38	48.7	19.8	68.3	27.4	NA	NA
7 6.1.5.	Citable documents H index	10	1	709.0	1783.0	63.5	100.0	NA	Strength
8 6.2.	Knowledge impact	19	7	NA	NA	44.0	52.5	NA	NA
9 6.2.1.	Growth rate of GDP per person engaged	62	67	0.8	0.7	48.1	46.9	Weakness	Weakness
10 6.2.2.	New business density	5	NA	14.9	NA	86.4	NA	Strength	NA
11 6.2.3.	Total computer software spending	51	1	0.3	1.1	25.2	100.0	NA	Strength
12 6.2.4.	ISO 9001 quality certificates	32	94	12.0	1.8	19.6	3.0	NA	Weakness
13 6.2.5.	High-tech and medium high-tech output	49	13	0.3	0.4	36.6	65.6	NA	NA
14 6.3.	Knowledge diffusion	96	12	NA	NA	17.9	47.3	Weakness	NA
15 6.3.1.	Intellectual property receipts	31	1	0.3	5.1	13.9	100.0	NA	Strength
16 6.3.2.	High-tech exports	55	26	2.0	7.1	6.9	24.2	NA	NA
17 6.3.3.	ICT services exports	89	68	0.8	1.5	7.3	13.7	Weakness	NA
18 6.3.4.	Foreign direct investment, net outflows	91	29	0.1	2.1	30.6	49.2	Weakness	NA

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1 7.	Creative outputs	24	10	NA	NA	46.1	53.5	NA	NA
2 7.1.	Intangible assets	36	38	NA	NA	50.3	50.1	NA	NA
3 7.1.1.	Trademark application class count by origin	25	81	70.8	21.5	36.1	10.6	NA	Weakness
4 7.1.2.	Industrial designs by origin	41	54	2.5	1.3	13.2	6.6	NA	NA
5 7.1.3.	ICTs and business model creation	35	12	5.1	5.8	68.5	79.2	NA	NA
6 7.1.4.	ICTs and organizational model creation	28	1	4.9	5.9	64.8	82.3	NA	Strength
7 7.2.	Creative goods and services	38	5	NA	NA	27.4	48.2	NA	NA
8 7.2.1.	Cultural and creative services exports	38	1	0.3	2.0	16.0	100.0	NA	Strength
9 7.2.2.	National feature films produced	61	53	1.9	3.5	7.1	12.7	Weakness	NA
10 7.2.3.	Global entertainment and media market	8	3	1.8	2.8	63.9	97.1	NA	Strength
11 7.2.4.	Printing and publishing output	19	24	2.1	1.9	30.7	27.4	NA	NA
12 7.2.5.	Creative goods exports	48	31	0.8	1.7	21.6	36.6	NA	NA
13 7.3.	Online creativity	12	7	NA	NA	56.2	65.4	NA	NA
14 7.3.1.	Generic top-level domains (gTLDs)	9	1	63.6	100.0	63.6	100.0	NA	Strength
15 7.3.2.	Country-code top-level domains (ccTLDs)	14	58	52.8	2.9	52.8	2.9	NA	NA
16 7.3.3.	Wikipedia yearly edits	24	41	63.8	58.8	63.8	58.8	NA	NA
17 7.3.4.	Video uploads on YouTube	23	1	44.8	100.0	44.8	100.0	NA	Strength