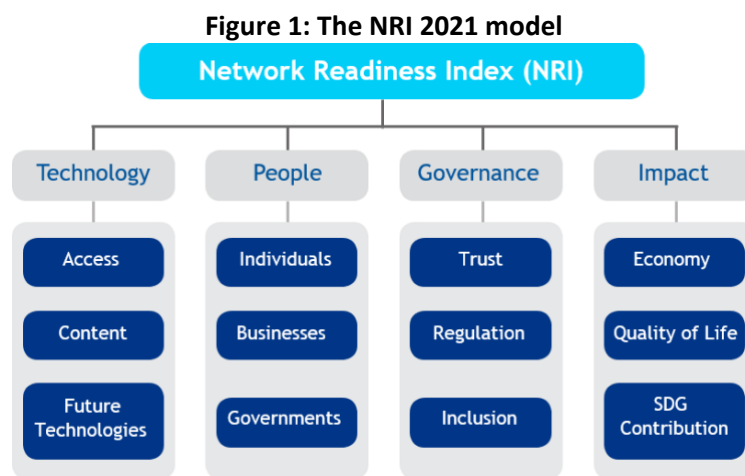


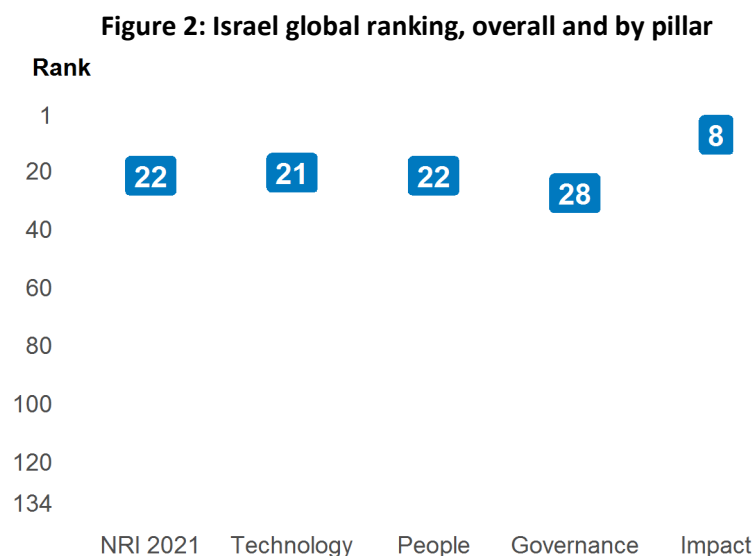
Network Readiness Index 2021 Israel

The Network Readiness Index (NRI) is one of the leading global indices on the application and impact of information and communication technology (ICT) in economies around the world. In its latest version of 2021 the NRI Report maps the network-based readiness landscape of 130 economies based on their performances in four different pillars: Technology, People, Governance, and Impact. Each of these pillars is itself comprised of three sub-pillars (see Figure 1) that have been populated by a total of 60 variables.



Global NRI position of Israel

Israel ranks 22nd out of the 130 economies included in the NRI 2021 (Figure 2). Its main strength relates to Impact. The greatest scope for improvement, meanwhile, concerns Governance.



Performance at sub-pillar level

When it comes to sub-pillars, the strongest showings of Israel relate to Economy, Businesses and Regulation, among others (Table 1). More could be done, though, to improve the economy's performances in the Trust, Inclusion and Individuals sub-pillars.

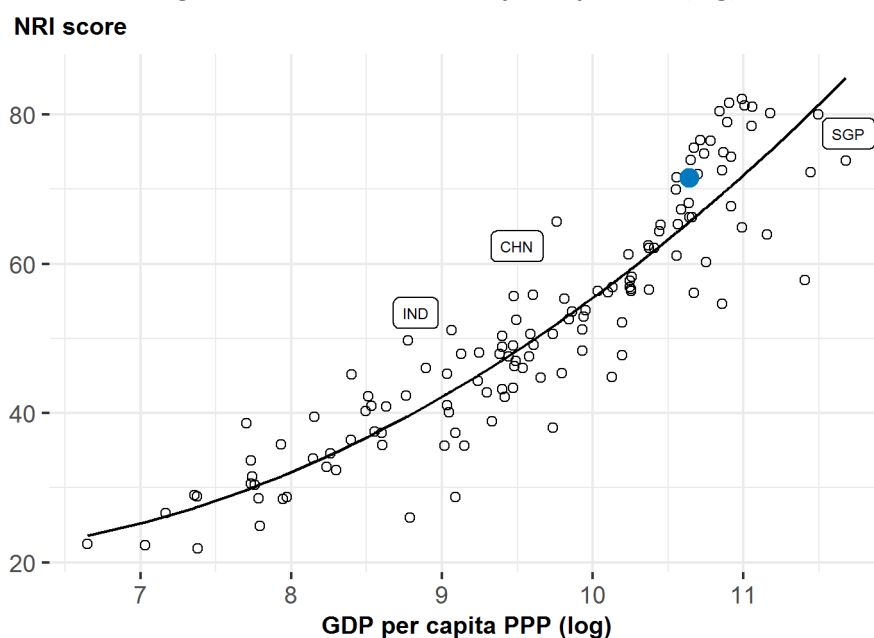
Table 1: Israel rankings by sub-pillar

Sub-pillar	Rank	Sub-pillar	Rank
Economy	2	Content	24
Businesses	15	Quality of Life	24
Regulation	18	Access	26
Future Technologies	19	Trust	31
Governments	19	Inclusion	36
SDG Contribution	20	Individuals	53

NRI score and income

Figure 3 shows the position of Israel in terms of both NRI score and GDP per capita (PPP). The trend line shows the expected NRI score given an economy's income level. As can be seen, Israel is well above the trend line, which suggests that it has a greater network readiness than would be expected given its income level.

Figure 3: NRI score and GDP per capita PPP (log)



Note: NLD = Netherlands (rank: 1), SWE = Sweden (2), DNK = Denmark (3), CHN = China (29), IND = India (67). USA is ranked 4th. Israel belongs to the group of high-income countries, where the best performer is Netherlands (NLD). The top performer of its region-Europe-is also Netherlands (NLD).

Performance against its income group and region

High-income countries

Israel is ranked 22nd in the group of high-income countries (Figure 4, left panel). In terms of pillar performance, it has a score higher than the income group average in each of the four pillars. At the sub-pillar level, it outperforms high-income countries in nine of the twelve sub-pillars: Access, Content, Future Technologies, Businesses, Governments, Regulation, Economy, Quality of Life and SDG Contribution.

Europe

Israel is ranked 15th within Europe (Figure 4, right panel). It outperforms its region in each of the four pillars. With regard to sub-pillars, it outperforms the average in Europe in eleven of the twelve sub-pillars: Access, Content, Future Technologies, Businesses, Governments, Trust, Regulation, Inclusion, Economy, Quality of Life and SDG Contribution.

Figure 4: Performance of Israel against its income group and region, overall and by pillar



Table 2: Israel scores vs. averages of its income group and region, overall and by pillar

Dimension	Israel	High-income countries	Europe
NRI	71.51	67.45	65.45
Technology	67.31	62.99	59.78
People	65.35	62.65	60.83
Governance	75.91	75.52	73.31
Impact	77.47	68.63	67.86

Strongest and weakest indicators

The indicators where Israel performs particularly well include 1.2.2 Wikipedia edits, 2.2.6 GERD performed by business enterprise, and 3.2.4 E-commerce legislation (Table 3). By contrast, the economy's weakest indicators include 3.2.2 ICT regulatory environment, 4.2.3 Income inequality, and 3.3.5 Rural gap in use of digital payments.

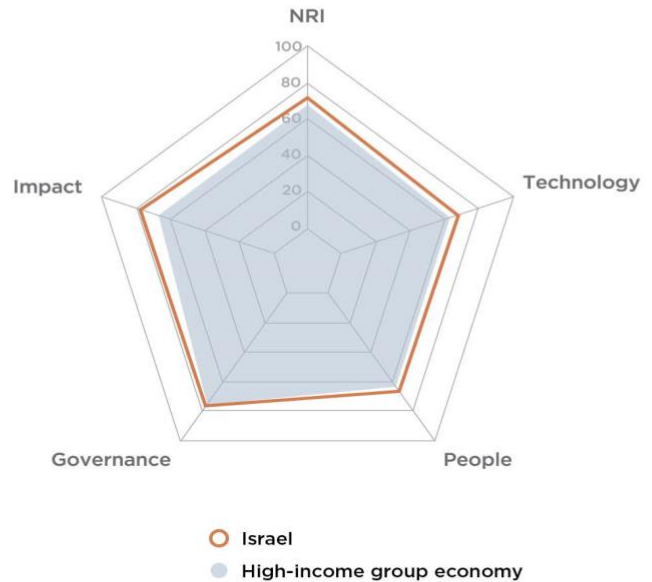
Table 3: Strongest and weakest indicators of Israel

Strongest indicators	Rank	Weakest indicators	Rank
1.2.2 Wikipedia edits	1	1.3.3 Robot density	30
2.2.6 GERD performed by business enterprise	1	3.3.5 Rural gap in use of digital payments	67
3.2.4 E-commerce legislation	1	4.2.3 Income inequality	72
1.3.2 Investment in emerging technologies	2	3.2.2 ICT regulatory environment	90
4.1.6 ICT services exports	3		
1.3.1 Adoption of emerging technologies	4		
3.3.3 Availability of local online content	4		
2.3.3 Government promotion of investment in emerging technologies	5		
3.2.3 Legal framework's adaptability to emerging technologies	6		
4.1.3 PCT patent applications	6		
4.2.4 Healthy life expectancy at birth	6		

Israel

Network Readiness Index Rank (out of 130) **22** Score **71.51**

Pillar/sub-pillar	Rank	Score
A. Technology pillar	21	67.31
1st sub-pillar: Access	26	84.36
2nd sub-pillar: Content	24	60.53
3rd sub-pillar: Future Technologies	19	57.04
B. People pillar	22	65.35
1st sub-pillar: Individuals	53	65.78
2nd sub-pillar: Businesses	15	65.93
3rd sub-pillar: Governments	19	64.33
C. Governance pillar	28	75.91
1st sub-pillar: Trust	31	69.00
2nd sub-pillar: Regulation	18	83.94
3rd sub-pillar: Inclusion	36	74.78
D. Impact pillar	8	77.47
1st sub-pillar: Economy	2	72.95
2nd sub-pillar: Quality of Life	24	79.87
3rd sub-pillar: SDG Contribution	20	79.58



Network Readiness Index in detail

Indicator	Rank	Score
A. Technology pillar	21	67.31
1st sub-pillar: Access	26	84.36
1.1.1 Mobile tariffs	9	88.74
1.1.2 Handset prices	31	72.32
1.1.3 Households with internet access	66	76.02
1.1.4 SMS sent by population 15-69	NA	NA
1.1.5 Population covered by at least a 3G mobile network	51	99.73
1.1.6 International Internet bandwidth	NA	NA
1.1.7 Internet access in schools	32	85.00
2nd sub-pillar: Content	24	60.53
1.2.1 GitHub commits	25	29.22
1.2.2 Wikipedia edits	1	100.00 ●
1.2.3 Internet domain registrations	*	*
1.2.4 Mobile apps development	9	98.64
1.2.5 AI scientific publications	36	58.03
3rd sub-pillar: Future Technologies	19	57.04
1.3.1 Adoption of emerging technologies	4	96.84 ●
1.3.2 Investment in emerging technologies	2	96.21 ●
1.3.3 Robot density	30	13.19 ○
1.3.4 Computer software spending	56	21.93
B. People pillar	22	65.35
1st sub-pillar: Individuals	53	65.78
2.1.1 Active mobile broadband subscriptions	53	76.37
2.1.2 ICT skills	NA	NA
2.1.3 Use of virtual social networks	34	78.27
2.1.4 Tertiary enrollment	46	42.70
2.1.5 Adult literacy rate	NA	NA
2nd sub-pillar: Businesses	15	65.93
2.2.1 Firms with website	43	66.77
2.2.2 GERD financed by business enterprise	50	45.20
2.2.3 Professionals	10	62.24
2.2.4 Technicians and associate professionals	33	55.43
2.2.5 Annual investment in telecommunication services	NA	NA
2.2.6 GERD performed by business enterprise	1	100.00 ●
3rd sub-pillar: Governments	19	64.33
2.3.1 Government online services	54	73.94
2.3.2 Publication and use of open data	28	46.11
2.3.3 Government promotion of investment in emerging tech	5	83.58
2.3.4 R&D expenditure by governments and higher education	27	53.68

Indicator	Rank	Score
C. Governance pillar	28	75.91
1st sub-pillar: Trust	31	69.00
3.1.1 Secure Internet servers	41	75.18
3.1.2 Cybersecurity	44	90.77
3.1.3 Online access to financial account	25	58.49
3.1.4 Internet shopping	33	51.57
2nd sub-pillar: Regulation	18	83.94
3.2.1 Regulatory quality	23	76.02
3.2.2 ICT regulatory environment	90	71.18 ○
3.2.3 Legal framework's adaptability to emerging technologies	6	85.12 ●
3.2.4 E-commerce legislation	1	100.00 ●
3.2.5 Privacy protection by law content	17	87.36
3rd sub-pillar: Inclusion	36	74.78
3.3.1 E-Participation	64	70.37
3.3.2 Socioeconomic gap in use of digital payments	37	77.27
3.3.3 Availability of local online content	4	95.79 ●
3.3.4 Gender gap in Internet use	40	64.92
3.3.5 Rural gap in use of digital payments	67	65.55 ○
D. Impact pillar	8	77.47
1st sub-pillar: Economy	2	72.95
4.1.1 High-tech and medium-high-tech manufacturing	37	41.40
4.1.2 High-tech exports	14	68.18
4.1.3 PCT patent applications	6	91.56 ●
4.1.4 Growth rate of GDP per person engaged	42	64.81
4.1.5 Prevalence of gig economy	7	88.42
4.1.6 ICT services exports	3	83.34 ●
2nd sub-pillar: Quality of Life	24	79.87
4.2.1 Happiness	12	85.32
4.2.2 Freedom to make life choices	64	77.42
4.2.3 Income inequality	72	62.50 ○
4.2.4 Healthy life expectancy at birth	6	94.25 ●
3rd sub-pillar: SDG Contribution	20	79.58
4.3.1 SDG 3: Good Health and Well-Being	18	88.52
4.3.2 SDG 4: Quality Education	38	53.53
4.3.3 Females employed with advanced degrees	24	74.08
4.3.4 SDG 7: Affordable and Clean Energy	32	84.74
4.3.5 SDG 11: Sustainable Cities and Communities	12	97.03

NOTE: * Indicates confidential data; ● a strength and ○ a weakness.

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