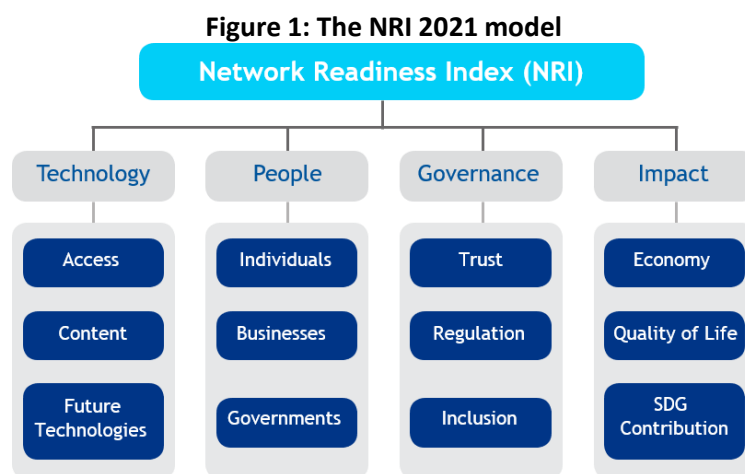


Network Readiness Index 2021

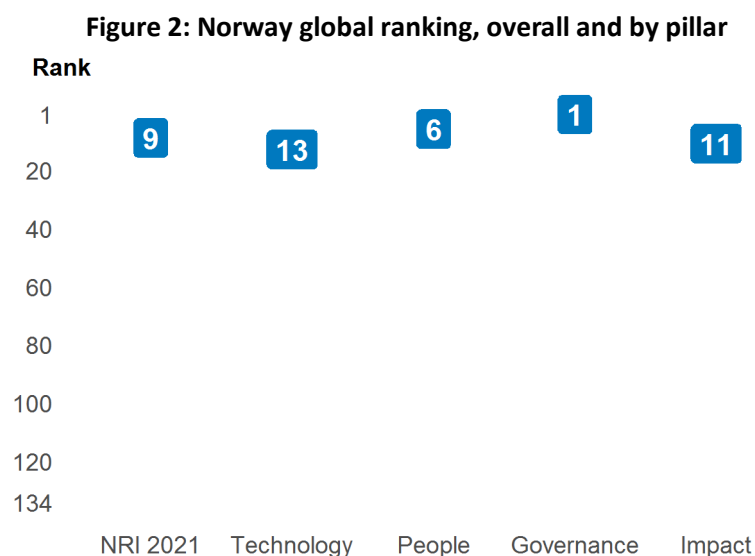
Norway

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 Norway

Norway ranks 9th out of the 130 economies included in the NRI 2021 (Figure 2). Its main strength relates to Governance. The greatest scope for improvement, meanwhile, concerns Technology.



Performance at sub-pillar level

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

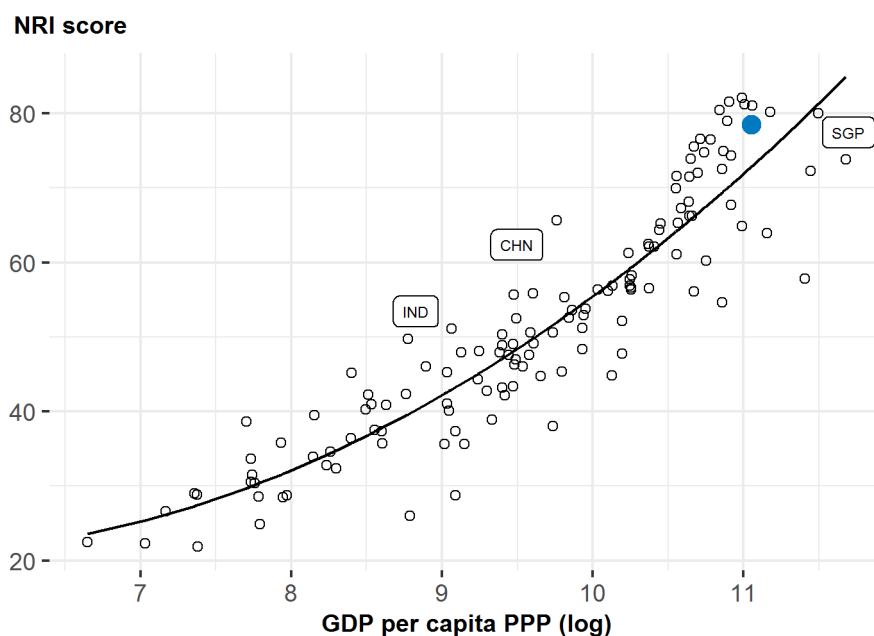
Table 1: Norway rankings by sub-pillar

Sub-pillar	Rank	Sub-pillar	Rank
Regulation	1	Access	7
Trust	2	Individuals	9
Content	3	Inclusion	13
Governments	3	Businesses	18
Quality of Life	3	Economy	33
SDG Contribution	3	Future Technologies	37

NRI score and income

Figure 3 shows the position of Norway 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, Norway 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. Norway 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

Norway is ranked 9th 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 ten of the twelve sub-pillars: Access, Content, Individuals, Businesses, Governments, Trust, Regulation, Inclusion, Quality of Life and SDG Contribution.

Europe

Norway is ranked 7th 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, Individuals, Businesses, Governments, Trust, Regulation, Inclusion, Quality of Life and SDG Contribution.

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



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

Dimension	Norway	High-income countries	Europe
NRI	78.49	67.45	65.45
Technology	71.88	62.99	59.78
People	75.27	62.65	60.83
Governance	90.88	75.52	73.31
Impact	75.94	68.63	67.86

Strongest and weakest indicators

The indicators where Norway performs particularly well include 1.1.7 Internet access in schools, 3.1.3 Online access to financial account, and 3.2.4 E-commerce legislation (Table 3). By contrast, the economy's weakest indicators include 2.1.1 Active mobile broadband subscriptions, 4.1.4 Growth rate of GDP per person engaged, and 4.1.6 ICT services exports.

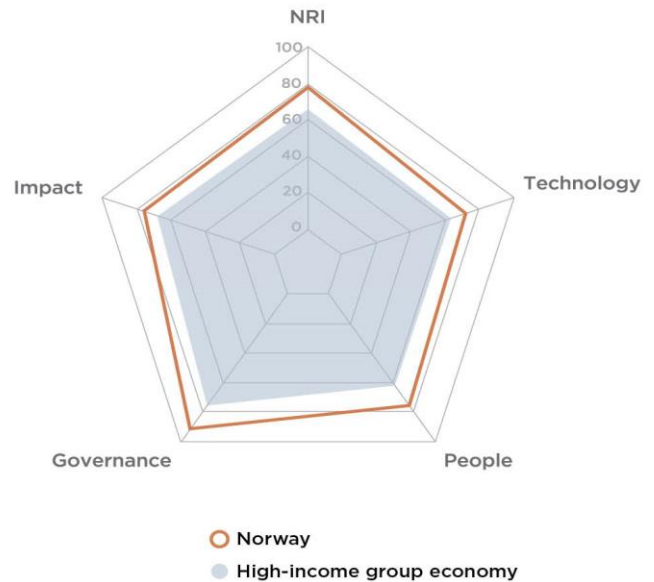
Table 3: Strongest and weakest indicators of Norway

Strongest indicators	Rank	Weakest indicators	Rank
1.1.7 Internet access in schools	1	1.3.3 Robot density	26
3.1.3 Online access to financial account	1	4.1.6 ICT services exports	62
3.2.4 E-commerce legislation	1	4.1.4 Growth rate of GDP per person engaged	69
3.3.2 Socioeconomic gap in use of digital payments	1	2.1.1 Active mobile broadband subscriptions	76
4.2.2 Freedom to make life choices	1		
1.2.1 GitHub commits	2		
2.1.2 ICT skills	2		
2.3.4 R&D expenditure by governments and higher education	2		
4.3.1 SDG 3: Good Health and Well-Being	2		
3.1.4 Internet shopping	3		
4.3.5 SDG 11: Sustainable Cities and Communities	3		
1.1.1 Mobile tariffs	4		
3.2.5 Privacy protection by law content	4		

Norway

Network Readiness Index Rank (out of 130) **9** Score **78.49**

Pillar/sub-pillar	Rank	Score
A. Technology pillar	13	71.88
1st sub-pillar: Access	7	91.53
2nd sub-pillar: Content	3	79.56
3rd sub-pillar: Future Technologies	37	44.56
B. People pillar	6	75.27
1st sub-pillar: Individuals	9	78.60
2nd sub-pillar: Businesses	18	62.93
3rd sub-pillar: Governments	3	84.29
C. Governance pillar	1	90.88
1st sub-pillar: Trust	2	94.55
2nd sub-pillar: Regulation	1	94.77
3rd sub-pillar: Inclusion	13	83.32
D. Impact pillar	11	75.94
1st sub-pillar: Economy	33	49.06
2nd sub-pillar: Quality of Life	3	92.59
3rd sub-pillar: SDG Contribution	3	86.15



Network Readiness Index in detail

Indicator	Rank	Score
A. Technology pillar	13	71.88
1st sub-pillar: Access	7	91.53
1.1.1 Mobile tariffs	4	94.19 ●
1.1.2 Handset prices	19	79.70
1.1.3 Households with internet access	9	96.31
1.1.4 SMS sent by population 15-69	46	79.01
1.1.5 Population covered by at least a 3G mobile network	24	99.97
1.1.6 International Internet bandwidth	NA	NA
1.1.7 Internet access in schools	1	100.00 ●
2nd sub-pillar: Content	3	79.56
1.2.1 GitHub commits	2	96.95 ●
1.2.2 Wikipedia edits	6	89.05
1.2.3 Internet domain registrations	*	*
1.2.4 Mobile apps development	15	95.65
1.2.5 AI scientific publications	41	58.97
3rd sub-pillar: Future Technologies	37	44.56
1.3.1 Adoption of emerging technologies	NA	NA
1.3.2 Investment in emerging technologies	16	73.55
1.3.3 Robot density	26	16.16 ○
1.3.4 Computer software spending	18	43.97
B. People pillar	6	75.27
1st sub-pillar: Individuals	9	78.60
2.1.1 Active mobile broadband subscriptions	76	73.47 ○
2.1.2 ICT skills	2	99.50 ●
2.1.3 Use of virtual social networks	16	83.58
2.1.4 Tertiary enrollment	15	57.87
2.1.5 Adult literacy rate	NA	NA
2nd sub-pillar: Businesses	18	62.93
2.2.1 Firms with website	21	80.14
2.2.2 GERD financed by business enterprise	37	51.93
2.2.3 Professionals	4	67.11
2.2.4 Technicians and associate professionals	19	68.74
2.2.5 Annual investment in telecommunication services	27	83.74
2.2.6 GERD performed by business enterprise	19	25.90
3rd sub-pillar: Governments	3	84.29
2.3.1 Government online services	19	87.28
2.3.2 Publication and use of open data	10	73.74
2.3.3 Government promotion of investment in emerging tech	NA	NA
2.3.4 R&D expenditure by governments and higher education	2	91.85 ●

Indicator	Rank	Score
C. Governance pillar	1	90.88
1st sub-pillar: Trust	2	94.55
3.1.1 Secure Internet servers	19	84.36
3.1.2 Cybersecurity	23	96.84
3.1.3 Online access to financial account	1	100.00 ●
3.1.4 Internet shopping	3	96.99 ●
2nd sub-pillar: Regulation	1	94.77
3.2.1 Regulatory quality	7	90.27
3.2.2 ICT regulatory environment	11	94.71
3.2.3 Legal framework's adaptability to emerging technologies	NA	NA
3.2.4 E-commerce legislation	1	100.00 ●
3.2.5 Privacy protection by law content	4	94.09 ●
3rd sub-pillar: Inclusion	13	83.32
3.3.1 E-Participation	18	90.13
3.3.2 Socioeconomic gap in use of digital payments	1	100.00 ●
3.3.3 Availability of local online content	26	84.01
3.3.4 Gender gap in Internet use	34	65.98
3.3.5 Rural gap in use of digital payments	19	76.50
D. Impact pillar	11	75.94
1st sub-pillar: Economy	33	49.06
4.1.1 High-tech and medium-high-tech manufacturing	38	41.27
4.1.2 High-tech exports	45	38.71
4.1.3 PCT patent applications	18	77.22
4.1.4 Growth rate of GDP per person engaged	69	57.67 ○
4.1.5 Prevalence of gig economy	NA	NA
4.1.6 ICT services exports	62	30.44 ○
2nd sub-pillar: Quality of Life	3	92.59
4.2.1 Happiness	9	87.33
4.2.2 Freedom to make life choices	1	100.00 ●
4.2.3 Income inequality	10	92.19
4.2.4 Healthy life expectancy at birth	15	90.85
3rd sub-pillar: SDG Contribution	3	86.15
4.3.1 SDG 3: Good Health and Well-Being	2	96.72 ●
4.3.2 SDG 4: Quality Education	22	66.48
4.3.3 Females employed with advanced degrees	11	85.58
4.3.4 SDG 7: Affordable and Clean Energy	42	82.11
4.3.5 SDG 11: Sustainable Cities and Communities	3	99.88 ●

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

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