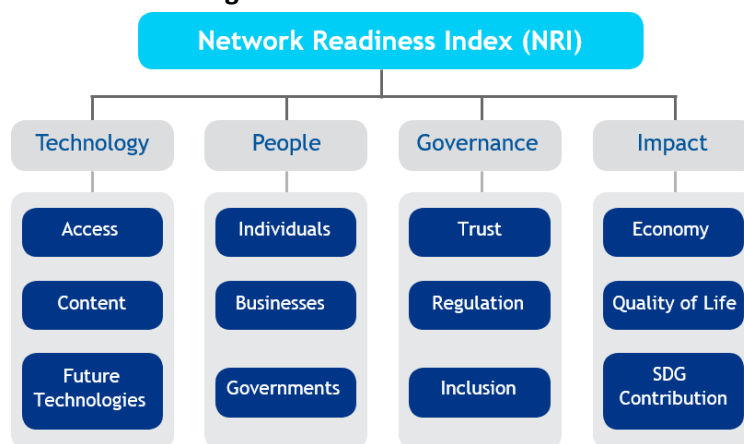


# Network Readiness Index 2019

## Denmark

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 2019 the NRI Report maps the network-based readiness landscape of 121 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 62 variables.

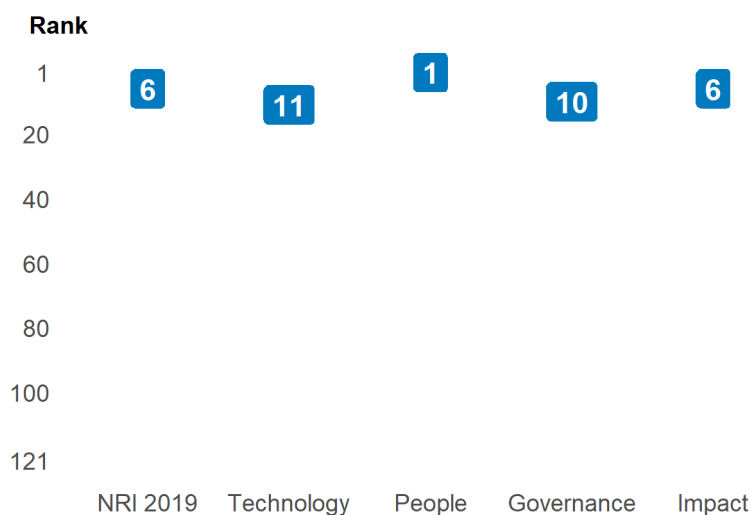
**Figure 1: The NRI 2019 model**



### Global NRI position of Denmark

Denmark ranks 6th out of the 121 economies included in the NRI 2019 (Figure 2). Its main strength relates to People. The greatest scope for improvement, meanwhile, concerns Technology.

**Figure 2: Denmark global ranking, overall and by pillar**



### Performance at sub-pillar level

When it comes to sub-pillars, the strongest showings of Denmark relate to Businesses, Governments and Trust, among others (Table 1). More could be done, though, to improve the economy's performances in the Economy, Access and SDG Contribution sub-pillars.

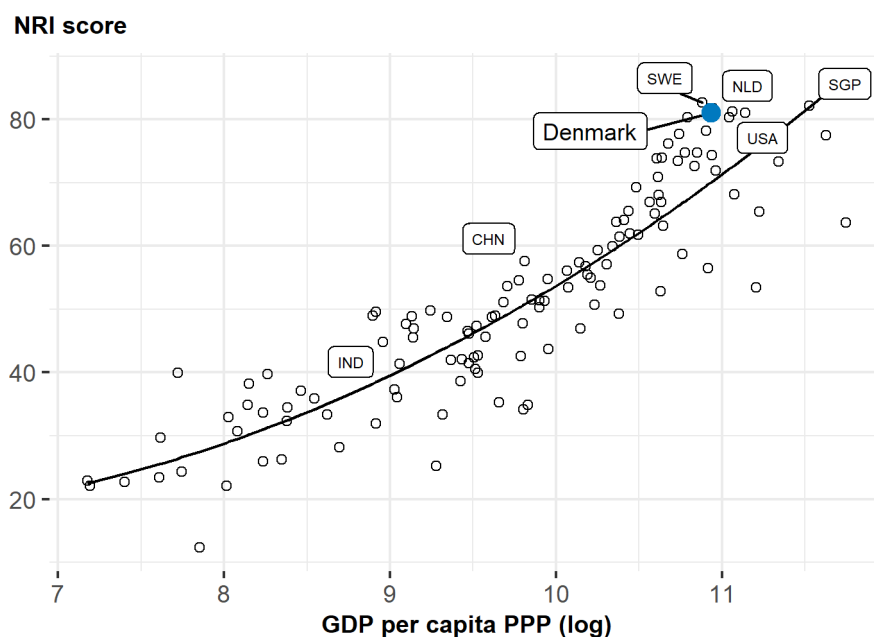
**Table 1: Denmark rankings by sub-pillar**

Sub-pillar	Rank	Sub-pillar	Rank
Businesses	2	Regulation	9
Governments	3	Inclusion	10
Trust	4	Future Technologies	11
Individuals	5	Economy	11
Quality of Life	5	Access	13
Content	8	SDG Contribution	16

### NRI score and income

Figure 3 shows the position of Denmark 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, Denmark 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: SWE = Sweden (rank: 1), SGP = Singapore (2), NLD = Netherlands (3), CHN = China (41), IND = India (79). USA is ranked 8th. Denmark belongs to the group of high-income countries, where the best performer is Sweden (SWE). The top performer of its region—Europe—is also Sweden (SWE).

## Performance against its income group and region

### High-income countries

Denmark is ranked 6th 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 has a higher score than the average of high-income countries in all of them.

### Europe

Denmark is ranked 5th within Europe (Figure 4, right panel). It outperforms its region in each of the four pillars. With regard to sub-pillars, it has a higher score than the regional average in each of the twelve sub-pillars.

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



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

Dimension	Denmark	High-income countries	Europe
NRI	81.08	68.12	65.20
Technology	77.22	66.07	63.08
People	79.54	61.07	57.50
Governance	87.28	77.07	73.99
Impact	80.27	68.29	66.24

### Strongest and weakest indicators

The indicators where Denmark performs particularly well include 4G mobile network coverage, Internet access in schools, and Internet shopping (Table 3). By contrast, the economy's weakest indicators include Online trust and safety, ICT regulatory environment, and International Internet bandwidth.

**Table 3: Top-ranked and bottom-ranked indicators of Denmark**

<b>Strongest indicators</b>	<b>Rank</b>	<b>Weakest indicators</b>	<b>Rank</b>
4G mobile network coverage	1	Legal framework's adaptability to digital business models	24
Internet access in schools	1	Gender gap in internet use	24
Internet shopping	1	Healthy life expectancy at birth	24
Government online services	1	Availability of local online content	30
R&D expenditure by governments and higher education	1	Mobile tariffs	31
Secure Internet servers	1	High-tech exports	31
E-commerce legislation	1	Government procurement of advanced technology products	34
E-Participation	1	International Internet bandwidth	40
Use of clean fuels and technology	1	ICT regulatory environment	42
Firms with website	2	Online trust and safety	48

# NRI 2019 At-A-Glance: Denmark

Network Readiness Index

Rank: 6 (out of 121)

Score: 81.08

Pillar/sub-pillar	Rank	Score	Pillar/sub-pillar	Rank	Score
<b>A. Technology pillar</b>	<b>11</b>	<b>77.22</b>	<b>C. Governance pillar</b>	<b>10</b>	<b>87.28</b>
1st sub-pillar: Access	13	86.70	1st sub-pillar: Trust	4	88.94
2nd sub-pillar: Content	8	79.05	2nd sub-pillar: Regulation	9	89.71
3rd sub-pillar: Future Technologies	11	65.92	3rd sub-pillar: Inclusion	10	83.19
<b>B. People pillar</b>	<b>1</b>	<b>79.54</b>	<b>D. Impact pillar</b>	<b>6</b>	<b>80.27</b>
1st sub-pillar: Individuals	5	74.18	1st sub-pillar: Economy	11	54.39
2nd sub-pillar: Businesses	2	79.89	2nd sub-pillar: Quality of Life	5	91.33
3rd sub-pillar: Governments	3	84.55	3rd sub-pillar: SDG Contribution	16	95.09

## The Network Readiness Index in detail

Indicator	Rank	Score	Indicator	Rank	Score
<b>A. Technology pillar</b>			<b>C. Governance pillar</b>		
<i>1st sub-pillar: Access</i>			<i>1st sub-pillar: Trust</i>		
1.1.1 Mobile tariffs	31	77.33	3.1.1 Rule of law	8	95.14
1.1.2 Handset prices	20	67.49	3.1.2 Software piracy rate	8	93.24
1.1.3 Internet access	8	96.80	3.1.3 Secure Internet servers	1	100.00
1.1.4 4G mobile network coverage	1	100.00	3.1.4 Cybersecurity	23	91.34
1.1.5 Fixed-broadband subscriptions	22	93.95	3.1.5 Online trust and safety	48	64.99
1.1.6 International Internet bandwidth	40	71.32	<i>2nd sub-pillar: Regulation</i>		
1.1.7 Internet access in schools	1	100.00	3.2.1 Regulatory quality	13	88.35
<i>2nd sub-pillar: Content</i>			3.2.2 Ease of doing business	4	97.39
1.2.1 Digital participation and content creation	*	*	3.2.3 Legal framework's adaptability to digital business models	24	64.53
1.2.2 Mobile apps development	7	91.56	3.2.4 E-commerce legislation	1	100.00
1.2.3 Intellectual property receipts	12	12.24	3.2.5 Social safety net protection	2	99.20
<i>3rd sub-pillar: Future Technologies</i>			3.2.6 ICT regulatory environment	42	88.81
1.3.1 Availability of latest technologies	18	85.34	<i>3rd sub-pillar: Inclusion</i>		
1.3.2 Company investment in emerging technology	14	74.95	3.3.1 E-Participation	1	100.00
1.3.3 Government procurement of advanced technology products	34	50.29	3.3.2 Socioeconomic gap in use of digital payments	2	99.79
1.3.4 ICT PCT patent applications	16	59.56	3.3.3 Availability of local online content	30	73.45
1.3.5 Computer software spending	8	54.55	3.3.4 Gender gap in internet use	24	66.18
1.3.6 Robot density	7	70.85	3.3.5 Rural gap in use of digital payments	18	76.53
<b>B. People pillar</b>			<b>D. Impact pillar</b>		
<i>1st sub-pillar: Individuals</i>			<i>1st sub-pillar: Economy</i>		
2.1.1 Internet users	6	97.76	4.1.1 Medium and high-tech industry	8	69.29
2.1.2 Active mobile-broadband subscriptions	10	53.56	4.1.2 High-tech exports	31	26.49
2.1.3 Use of virtual social networks	21	70.89	4.1.3 PCT patent applications	7	63.10
2.1.4 Tertiary enrolment	18	58.77	4.1.4 Labour productivity per employee	18	58.66
2.1.5 Adult literacy rate	NA	NA	<i>2nd sub-pillar: Quality of Life</i>		
2.1.6 ICT skills	5	89.90	4.2.1 Happiness	2	95.64
<i>2nd sub-pillar: Businesses</i>			4.2.2 Freedom to make life choices	12	94.21
2.2.1 Firms with website	2	99.93	4.2.3 Income inequality	14	91.58
2.2.2 Internet shopping	1	100.00	4.2.4 Healthy life expectancy at birth	24	83.88
2.2.3 Professionals	4	70.36	<i>3rd sub-pillar: SDG Contribution</i>		
2.2.4 Technicians and associate professionals	12	76.22	4.3.1 Access to basic services	14	99.73
2.2.5 Extent of staff training	8	82.06	4.3.2 Pollution	14	95.04
2.2.6 R&D expenditure by businesses	9	50.75	4.3.3 Road safety	7	95.94
<i>3rd sub-pillar: Governments</i>			4.3.4 Reading proficiency in schools	10	98.15
2.3.1 Government online services	1	100.00	4.3.5 Maths proficiency in schools	13	81.69
2.3.2 Publication and use of open data	13	70.52	4.3.6 Use of clean fuels and technology	1	100.00
2.3.3 ICT use and government efficiency	24	67.70			
2.3.4 R&D expenditure by governments and higher education	1	100.00			

\* Confidential data

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