

Network Readiness and Digital Transformation

Assist. Lect. Soma Aziz Muhammad Department of Computer Science Academic Year 2020 - 2021

Topics

- Network Readiness
- Digital Transformation Issues
- Network Readiness Index (NRI) 2020 Model
- Top Performer Countries in NRI 2020 Model
- Technology Indicators
- Conclusion

Network Readiness

• A measure of the degree to which a country, nation or economy may be ready, willing or prepared to obtain benefits which arise from information and communication technologies (ICTs).

 How much ready a country is to be involved in electronic activities such as e-commerce, e-government and e-learning.



Network Readiness Index (NRI)



- Networked Readiness is a key indicator of how countries are doing in the digital world.
- First launched in 2002 by the World Economic Forum (WEF)
 - Reflecting how technology and people need to be integrated within an effective governance structure
 - in order to have the right impact on the economy, society, and environment.

NRI 2020 Model



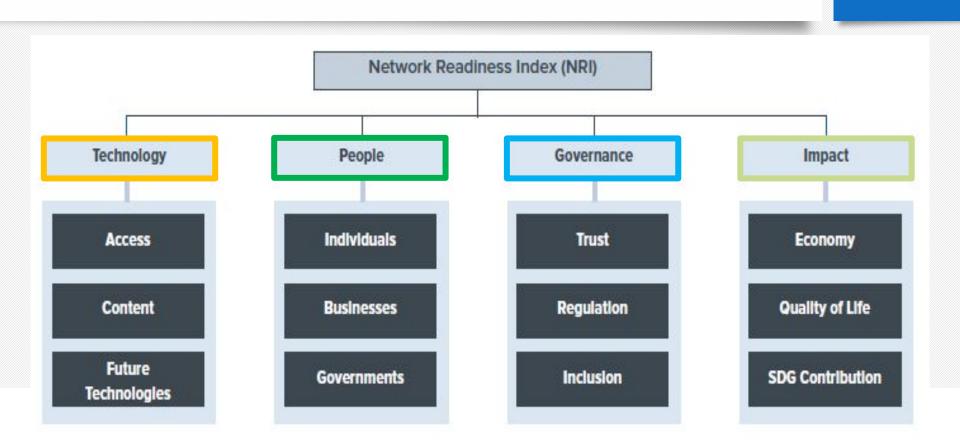
- Accelerating Digital Transformation in a post-COVID Global Economy
- Digital transformation is now seen as a critical concern by all types of stakeholders:
 - governments (central and local)
 - corporations (large and small)
 - individual citizens

Digital Transformation Issues

- Three important questions on **Digital Transformation**
 - How is digital transformation impacting global inequality?
 - 2. Is digital transformation leading to better lives?
 - 3. Are we controlling or being controlled by technology?

- The NRI Model
 - The human-technology at the center of an economy's vision of digital transformation.

The NRI 2020 Model



Top 10 Performers In NRI 2020

Rank	Country/Economy	Score	Income group	Region
1	Sweden	82.75	High-income	Europe
2	Denmark	82.19	High-Income	Europe
3	Singapore	81.39	High-Income	Asia & Pacific
4	Netherlands	81.37	High-income	Europe
5	Switzerland	80.41	High-Income	Europe
6	Finland	80.16	High-income	Europe
7	Norway	79.39	High-Income	Europe
8	United States	78.91	High-income	The Americas
9	Germany	77.48	High-Income	Europe
10	United Kingdom	76.27	High-income	Europe

Top 10 Performers In NRI 2020

			PILLARS			
Country	NRI Rank	NRI Score	Technology	People	Governance	Impact
Sweden	1	82.75	2	4	4	3
Denmark	2	82.19	5	1	2	5
Singapore	3	81.39	10	5	13	-1
Netherlands	4	81.37	3	9	3	4
Switzerland	5	80.41	1	13	10	2
Finland	6	80.16	9	3	5	9
Norway	7	79.39	11	8	1	6
United States	8	78.91	4	7	8	14
Germany	9	77.48	7	12	12	7
United Kingdom	10	76.27	8	14	14	10

Top 3 Countries By Region

Africa	Arab States	Asia & Pacific	CIS	Europe	The Americas
1. Mauritius (61)	1. United Arab Emirates (30)	1. Singapore (3)	1. Russian Federation (48)	1. Sweden (1)	1. United States (8)
2. South Africa (76)	2. Qatar (38)	2. Australia (12)	2. Armenia (55)	2. Denmark (2)	2. Canada (13)
3. Kenya (82)	3. Saudi Arabia (41)	3. Korea, Rep. (14)	3. Kazakhstan (56)	3. Netherlands (4)	3. Uruguay (47)

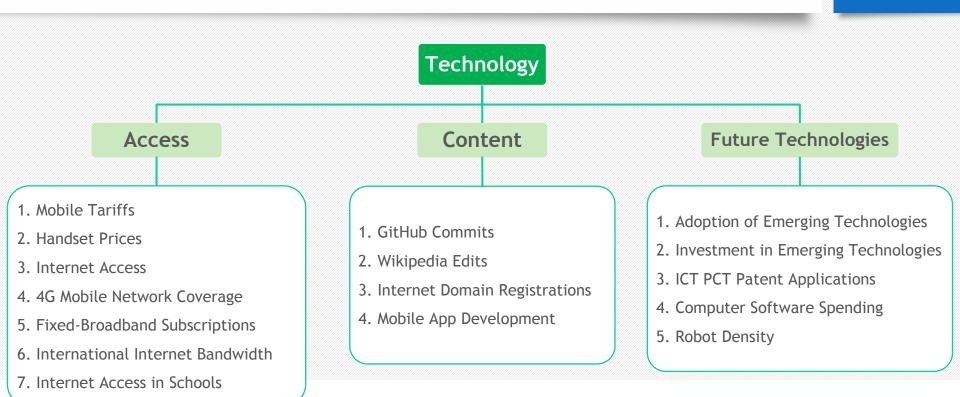
Note: Global ranks in parentheses. CIS = Commonwealth of Independent States.

Rankings in the Technology Pillar and Associated Sub-pillars

	PILLAR	SUB-PILLARS			
Country	Technology	Access	Content	Future Technologies	
Switzerland	1	4	1	7	
Sweden	2	14	6	2	
Netherlands	3	12	2	8	
United States	4	28	9	1	
Denmark	5	13	5	9	
Luxembourg	6	1	7	13	
Germany	7	27	10	3	
United Kingdom	8	3	8	14	
Finland	9	15	11	6	
Singapore	10	5	19	5	

Japan	21	36	40	4
Korea, Rep.	22	20	44	10

Technology Indicators



Conclusion



Digital transformation needs to be "system-wide".



Digital transformation may create new forms of digital divides.



Trust and **security** are central to successful digital transformation.



The **COVID** crisis is accelerating digital transformation.



Education and **re-skilling** are critically important for successful and sustainable digital transformation.

Any Questions?