

Digital Quality of Life Index 2020



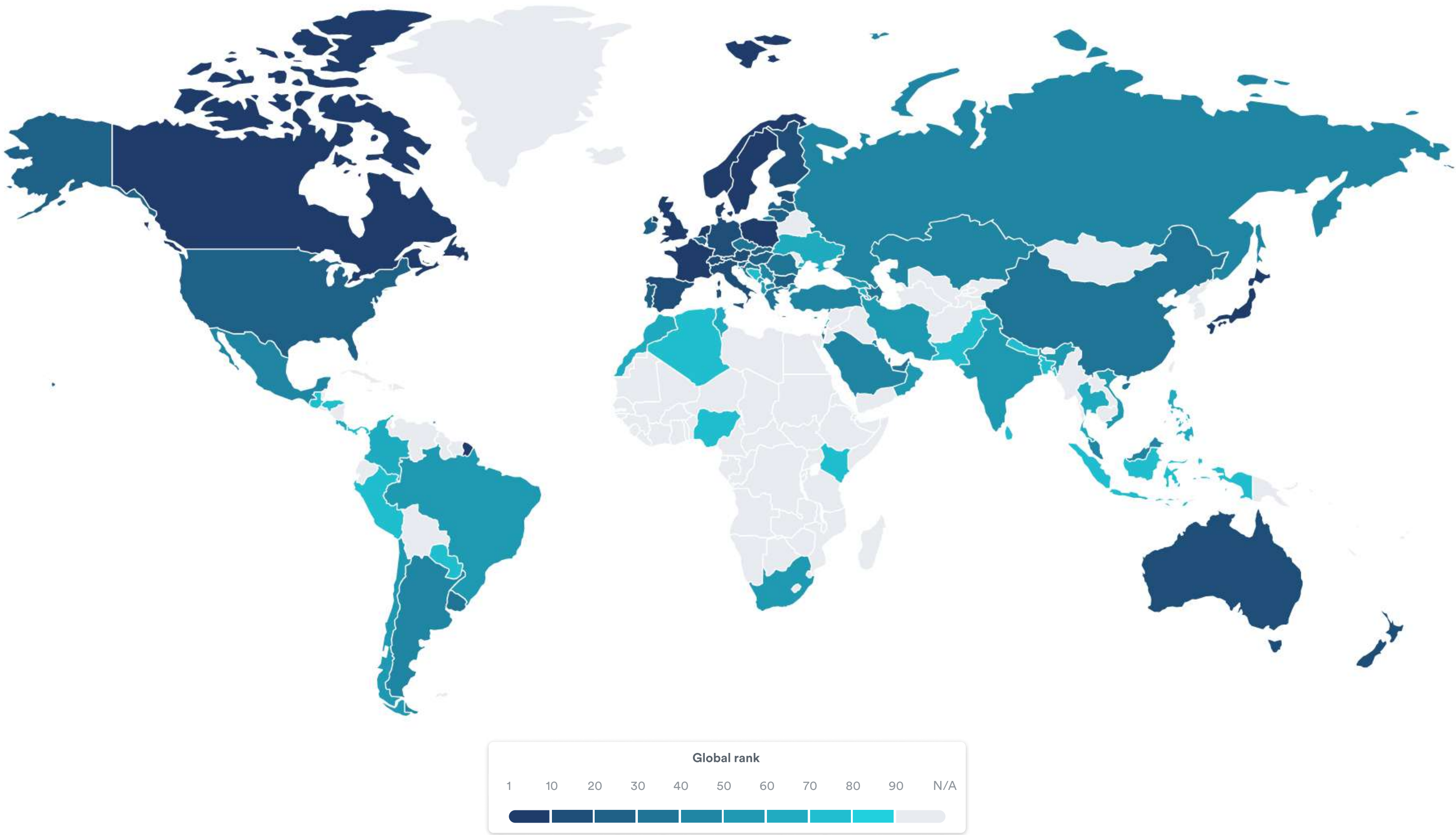
FINDINGS REPORT

A global study on the quality of a digital wellbeing in 85 countries
6.3 billion people or 81% of the global population covered

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Digital Quality of Life index 2020



Five pillars that determine the digital quality of life

Today, people's overall wellbeing is strongly influenced by their digital wellbeing. Digital Quality of Life (DQL) Index 2020 offers a unique insight into the overall digital quality of life based on five core pillars.

DQL



Internet affordability

How much time people have to work to afford the internet connection



Internet quality

How fast and stable is the internet connectivity in a country



Electronic infrastructure

How developed and inclusive is the existing electronic infrastructure



Electronic government

How advanced and digitized are country's governmental services



Electronic security

How safe and protected can people feel in a country



EUROPE

Key takeaways: global outlook

**7 of 10 countries with the
highest digital quality of life
are in Europe**



Key takeaways: global outlook

**High inequality in affordability:
people in 75% of the researched
countries have to work more
than the global average to
afford the internet**

Key takeaways: global outlook

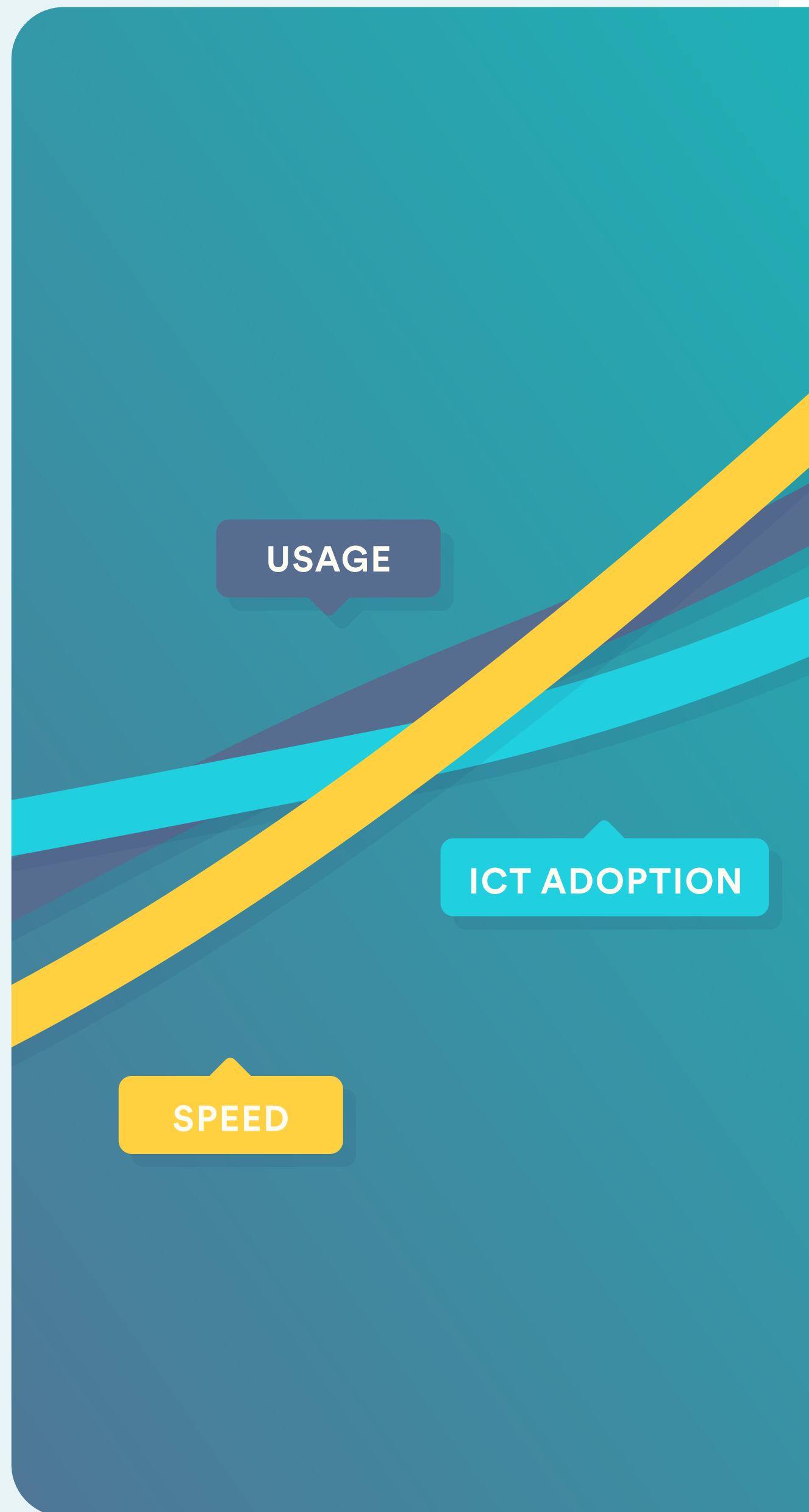
**COVID-19 impacted the internet stability:
49 of 85 countries experienced drops in mobile and 44 in broadband speed due to WFH setting**





Key takeaways: internet usage

95% of people in Scandinavia use the internet (the most active internet users) vs. 35% in Southern Asia (the least active region globally)



Key takeaways: internet usage

Internet speed (mobile and broadband) is higher in countries with high ICT adoption rates and internet usage



Key takeaways: institutional development

**European Union countries
lead in protecting people's
personal data**



Key takeaways: institutional development

Countries stagnate in improving e-infrastructure once they reach higher than average GDP per capita level



Key takeaways: institutional development

Strong e-security positively correlates with well developed e-government, except for Eastern European countries

Internet affordability

Time of work required to
afford the cheapest
mobile internet (indexed)



Time of work required to
afford the cheapest
broadband internet (indexed)










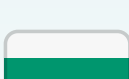
INTERNET AFFORDABILITY index

The affordability of the internet connection
directly impacts its accessibility.











A less affordable internet has a negative effect
on the overall digital wellbeing and vice versa.

Countries with the most and the least affordable internet

MOST AFFORDABLE

- | | | |
|----|---|------------|
| 1 |  | Israel |
| 2 |  | Canada |
| 3 |  | Azerbaijan |
| 4 |  | Poland |
| 5 |  | Iran |
| 6 |  | France |
| 7 |  | Denmark |
| 8 |  | Sweden |
| 9 |  | India |
| 10 |  | Bulgaria |

LEAST AFFORDABLE

- | | | |
|----|---|-------------|
| 76 |  | Nigeria |
| 77 |  | Honduras |
| 78 |  | Colombia |
| 79 |  | Panama |
| 80 |  | Mexico |
| 81 |  | Peru |
| 82 |  | Philippines |
| 83 |  | Guatemala |
| 84 |  | Costa Rica |
| 85 |  | Albania |

The overall affordability is measured combining the affordability of the cheapest mobile and broadband plans available in a country.

Mobile is much more affordable than broadband



3 hours 48 minutes is a global average of working time needed to afford the cheapest **broadband internet**

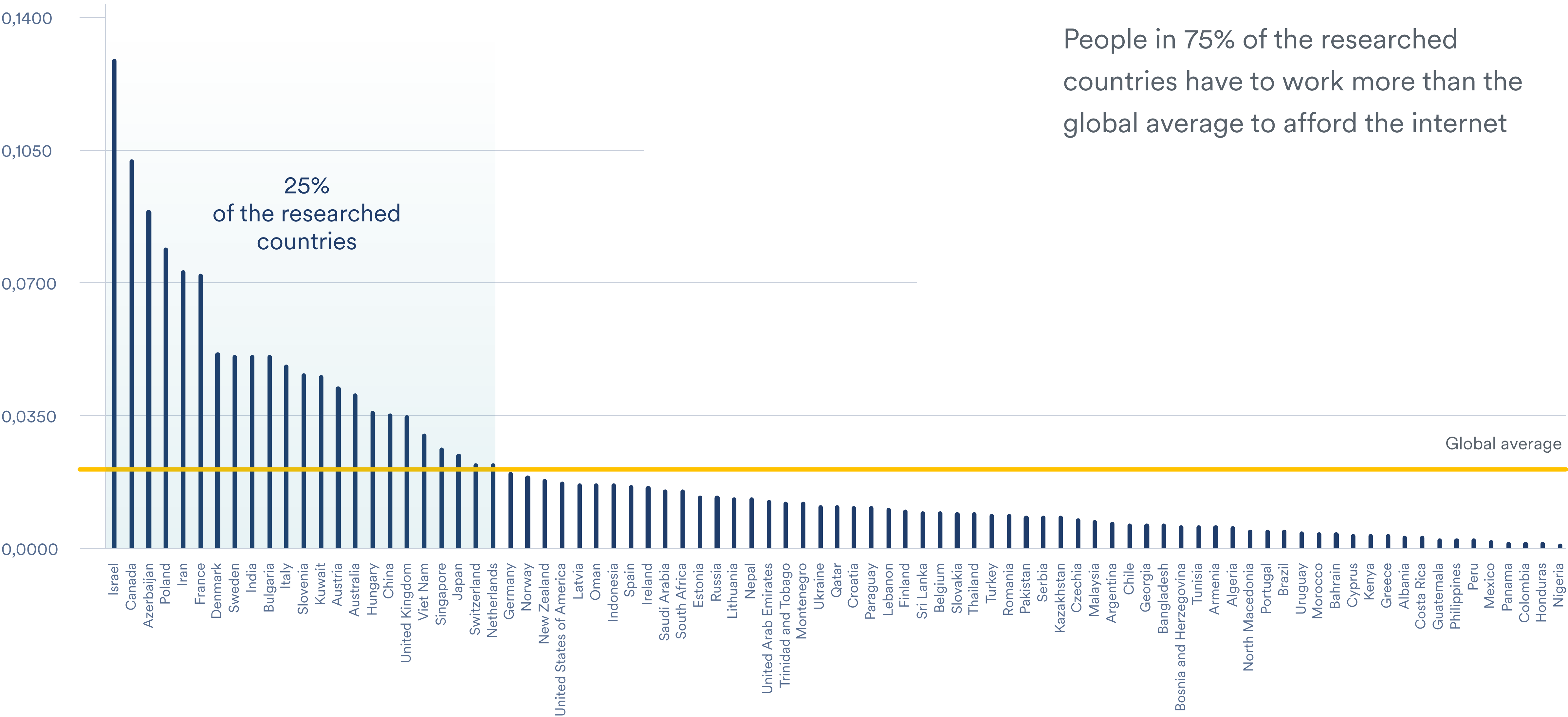
vs.

10 minutes is a global average work time required to afford the cheapest **mobile internet***

* The indicators are explained in more detail in the [research methodology](#)

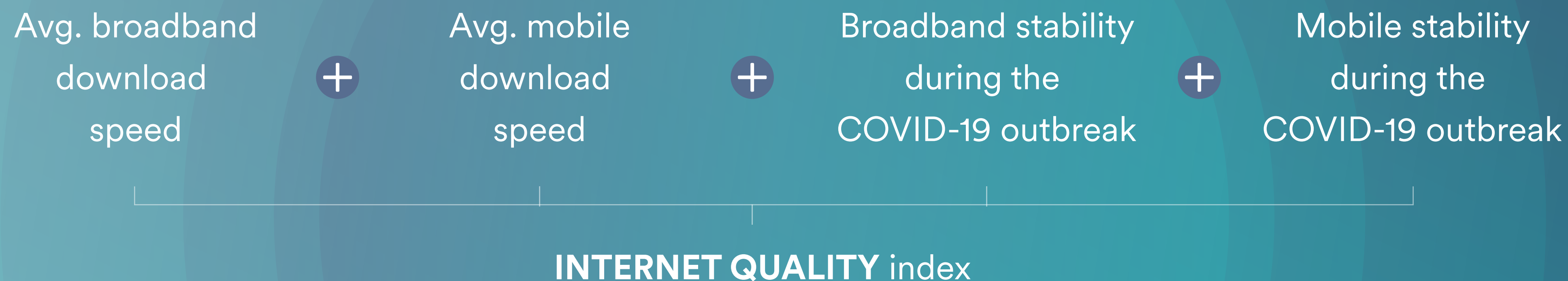
High inequality in internet affordability

Affordability index (weighted)



People in 75% of the researched countries have to work more than the global average to afford the internet

Internet quality













The quality of the internet connectivity highly depends on its speed and stability. Slow and unstable connection inhibits daily use and diminishes work efficiency, while fast and stable internet allows to communicate better, enjoy high quality content, and more. Consequently, it directly impacts the quality of one's digital life.

High broadband speed ≠ High mobile speed

FASTEST AND MOST STABLE INTERNET

- 1  Singapore
- 2  Sweden
- 3  Netherlands
- 4  Norway
- 5  Denmark
- 6  Switzerland
- 7  Canada
- 8  Belgium
- 9  Australia
- 10  Estonia

SLOWEST AND LEAST STABLE INTERNET

- 76  Sri Lanka
- 77  Philippines
- 78  Algeria
- 79  Peru
- 80  Nigeria
- 81  Nepal
- 82  Bangladesh
- 83  India
- 84  Pakistan
- 85  Indonesia

Internet quality (mobile and broadband combined) is the highest in countries with high internet usage and high internet technologies' (ICT) adoption rates

Singapore and Balkan countries surprise by the internet quality

Singapore has the fastest broadband & the 8th fastest mobile in the world that are also highly stable

Balkan countries are scoring surprisingly high on internet quality despite lower e-infrastructure levels due to fast and stable mobile internet.













Electronic infrastructure













Highly functional e-infrastructure enables people to use the internet more in their daily lives for a multitude of purposes, such as studying, e-commerce, entertainment, banking, and others. This strongly amounts to having a better digital experience.

Eastern Asia, Europe & North America lead in e-infrastructure development

MOST DEVELOPED E-INFRASTRUCTURE

- 1  United Arab Emirates
- 2  Sweden
- 3  Denmark
- 4  Qatar
- 5  Norway
- 6  Japan
- 7  Switzerland
- 8  Singapore
- 9  Netherlands
- 10  New Zealand

LEAST DEVELOPED E-INFRASTRUCTURE

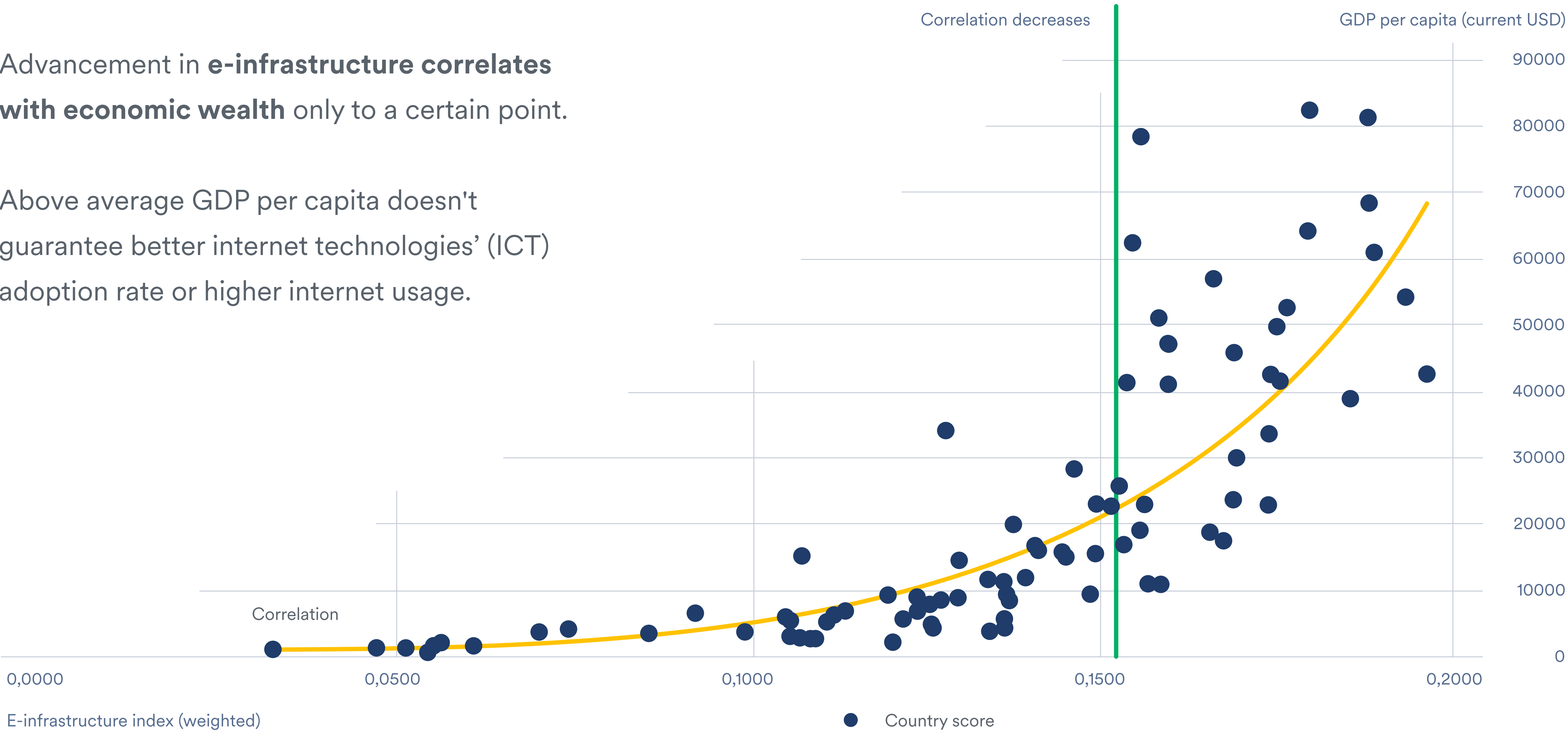
- 76  Pakistan
- 77  Kenya
- 78  Bangladesh
- 79  Nepal
- 80  Nigeria
- 81  Honduras
- 82  India
- 83  Sri Lanka
- 84  Guatemala
- 85  Indonesia

Countries in Central America and Africa lag behind in terms of ICT adoption and internet usage.

High GDP ≠ better e-infrastructure

Advancement in **e-infrastructure correlates with economic wealth** only to a certain point.

Above average GDP per capita doesn't guarantee better internet technologies' (ICT) adoption rate or higher internet usage.



Electronic security

Cybersecurity
(indexed)



Status of personal data
protection (indexed)

ELECTRONIC SECURITY index











Country's preparedness to counter the ever growing threat of cyber crimes as well as its commitment to protect any individual's privacy signal about the extent to which people can feel confident about their online data and digital experience.

European Union leads in electronic security

HIGHEST E-SECURITY

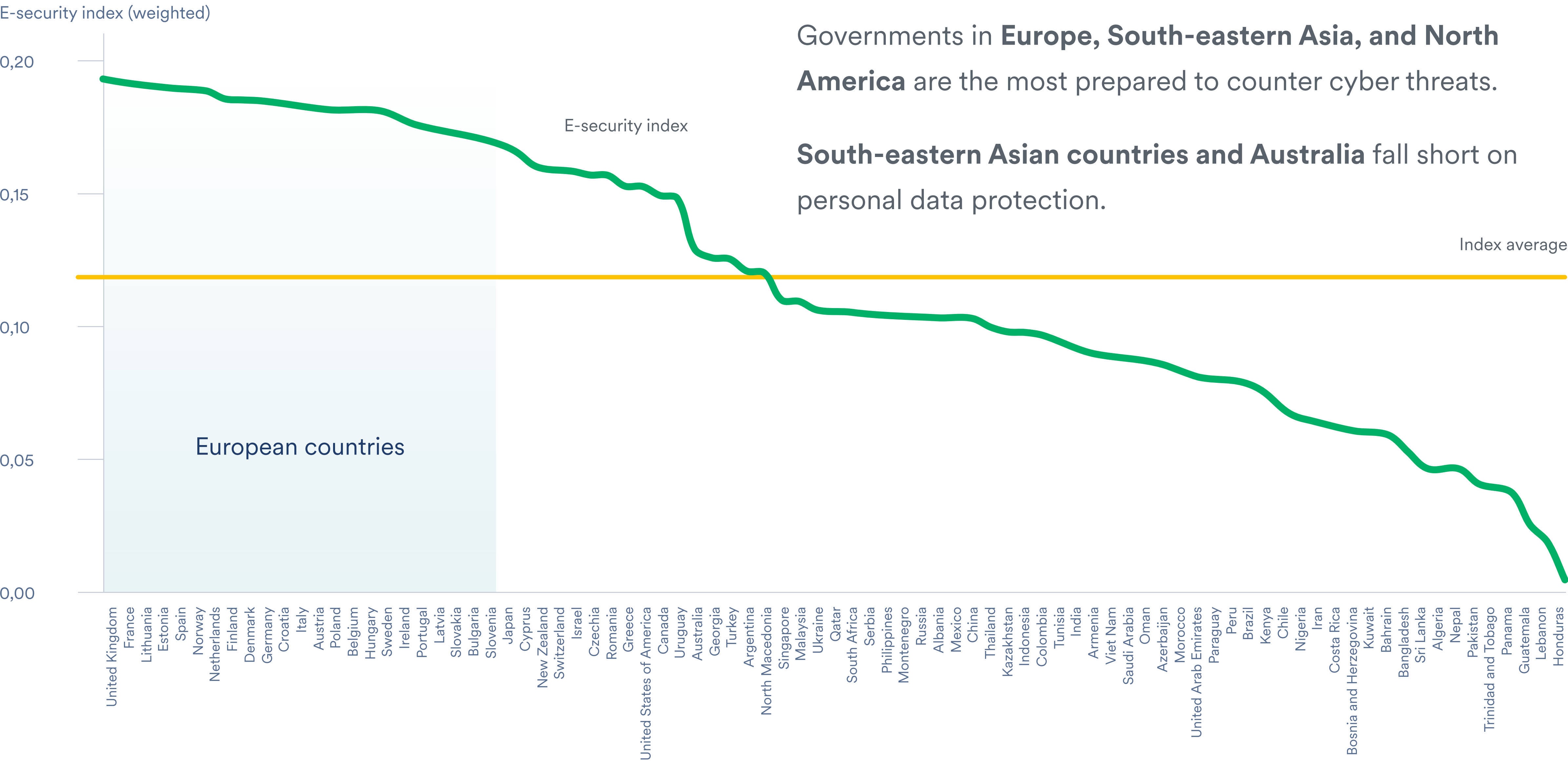
- 1  United Kingdom
- 2  France
- 3  Lithuania
- 4  Estonia
- 5  Spain
- 6  Norway
- 7  Netherlands
- 8  Finland
- 9  Denmark
- 10  Germany

LOWEST E-SECURITY

- 76  Honduras
- 77  Lebanon
- 78  Guatemala
- 79  Panama
- 80  Trinidad and Tobago
- 81  Pakistan
- 82  Nepal
- 83  Algeria
- 84  Sri Lanka
- 85  Bangladesh

Top 10 countries with the highest e-security levels are the European Union member states. Globally, they lead in implementing effective cybersecurity policies and ensuring personal data protection.

EU's GDPR boosts region's electronic security





Electronic government













The advancement of electronic government services helps to minimize the bureaucracy, reduce corruption and increase transparency of the public sector. Well-developed e-government also improves the efficiency of public services and helps people save time, having a notable influence on the quality of their digital lives.

E-government development strongly correlates with country's e-security

MOST DEVELOPED E-GOVERNMENT

- 1  Singapore
- 2  United Kingdom
- 3  United States of America
- 4  Denmark
- 5  Finland
- 6  France
- 7  Germany
- 8  Sweden
- 9  Japan
- 10  Canada

LEAST DEVELOPED E-GOVERNMENT

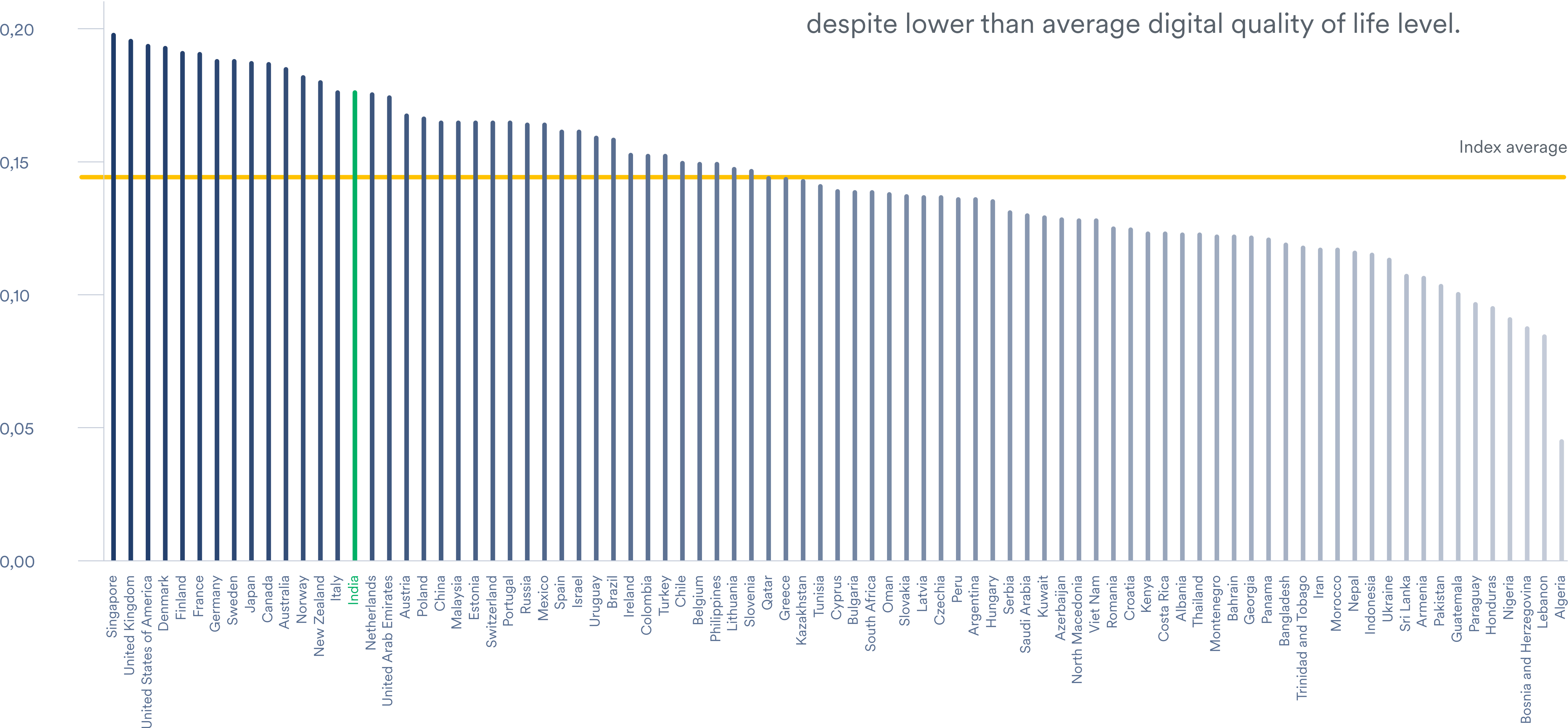
- 76  Algeria
- 77  Lebanon
- 78  Bosnia and Herzegovina
- 79  Nigeria
- 80  Honduras
- 81  Paraguay
- 82  Guatemala
- 83  Pakistan
- 84  Armenia
- 85  Sri Lanka

The government's readiness to take advantage of the opportunities offered by the artificial intelligence technology and the assortment of its services provided online strongly correlate with the country's e-security, except for Eastern European, South Asian, and African countries.

India shines in e-government

E-government index (weighted)

India stands out in the field of e-government advancement despite lower than average digital quality of life level.





Final remarks

E-security has the strongest correlation (0.89) with the DQL

Focusing resources on improving country's cybersecurity and protecting people's personal data would have the greatest impact on their digital quality of life



Final remarks

Importance of the institutional factors

Out of all the pillars, country's e-security is the least correlated (0.58) with its GDP per capita. It proves that other factors (ex. government's efficiency, legislation on data protection, etc.) than GDP play a more important role in people's digital lives.



Final remarks

Focus on e-government, e-infrastructure & quality to improve DQL

Internet affordability has the lowest (0.52) correlation with the DQL, highlighting the fact that investing in internet quality (0.84), e-government (0.84), e-infrastructure (0.84) would have a more positive effect on people's digital wellbeing.

Methodology & data sources

Information points used to index the digital quality of life around the world were gathered from open data sources provided by the United Nations, World Bank, International Telecommunications Union, U.S. Department of State, World Economic Forum, Commission Nationale de l'Informatique et des Libertés, Speedtest, Cable, United Nations University, and the International Development Research Centre.



Full data set and the research material can be found [here](#)

Full methodology can be found [here](#)

Curious to learn more?

For questions and commentary, contact:



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