Digital and data-related divides

#### UNECE

*Conformity assessment, legal metrology and market surveillance tools for the changing dynamic of digital goods* 

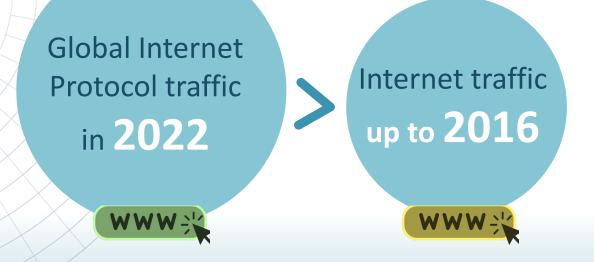
Pilar Fajarnés 24 November 2023



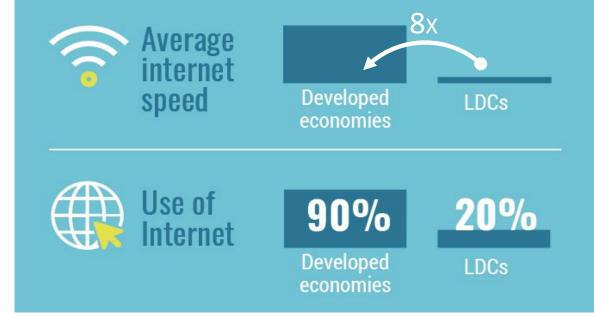
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Data-driven digital economy is rapidly evolving amidst huge divides in digital readiness



The conventional digital divide is being compounded by the data-related divide

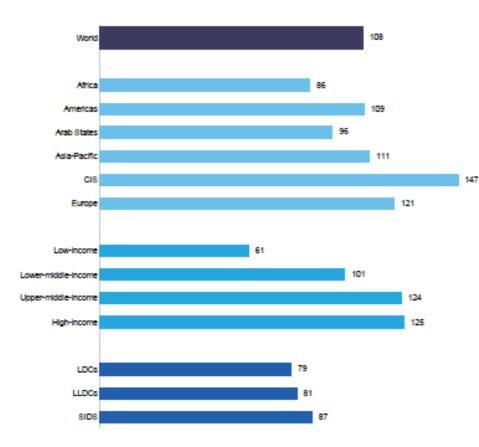


International bandwidth is geographically concentrated along **two main routes** 

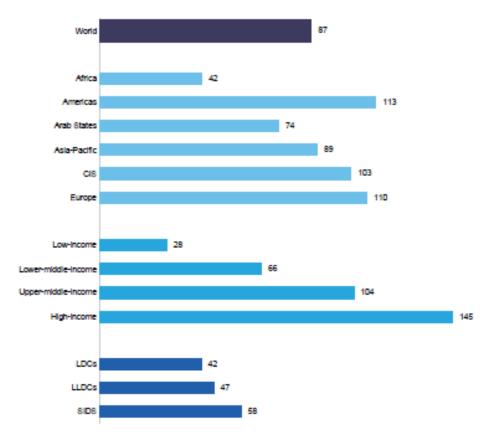


## ICTs CONNECTIVITY: Access

Mobile-cellular telephone subscriptions per 100 inhabitants, by region, 2022

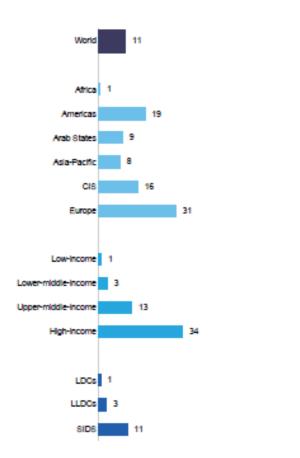


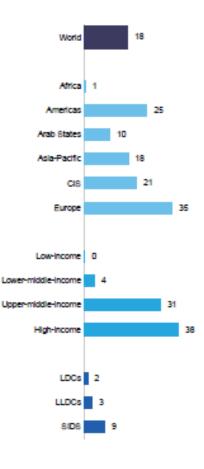
### Active mobile-broadband subscriptions per 100 inhabitants, by region, 2022





### Fixed-cellular telephone subscriptions per 100 inhabitants, by region, 2022

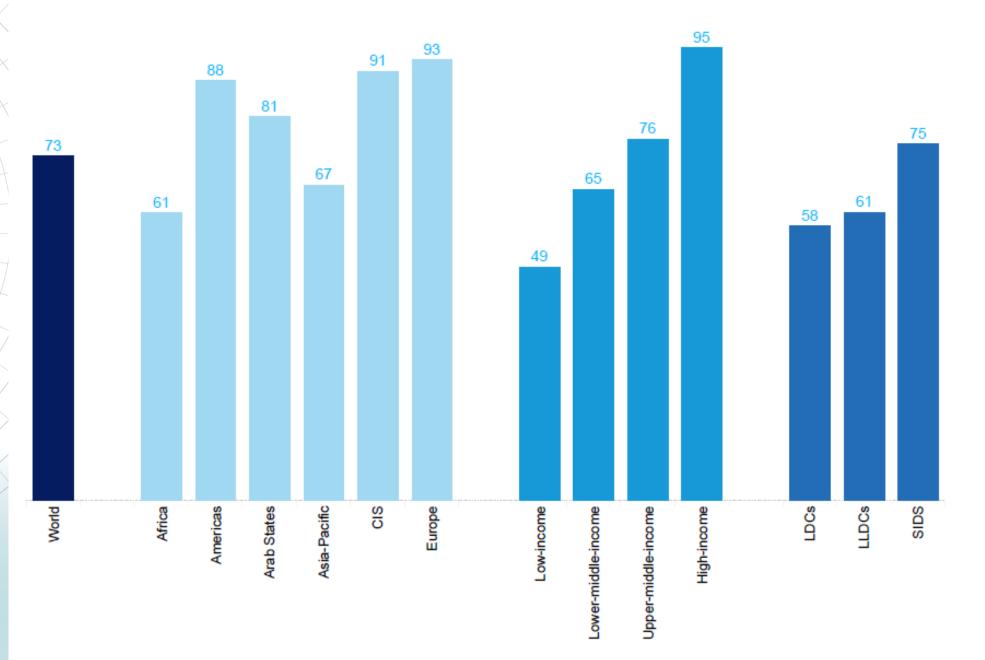




Source: ITU

## Fixed-broadband subscriptions per 100 inhabitants, by region, 2022

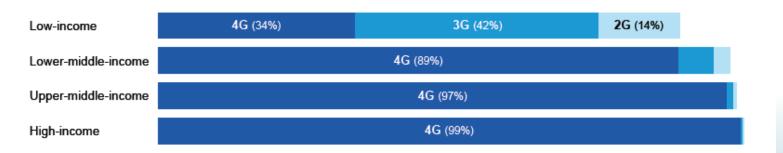
#### Percentage of individuals owning a mobile phone, 2022

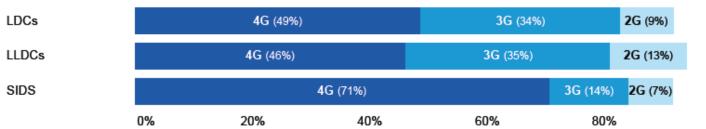




#### Population coverage by type of mobile network, 2022

World 4G (88%) Africa 4G (50%) 3G (33%) 2G (9%) Americas 4G (92%) Arab States 4G (76%) 3G (20%) Asia-Pacific 4G (96%) CIS 4G (92%) Europe 4G (99%)



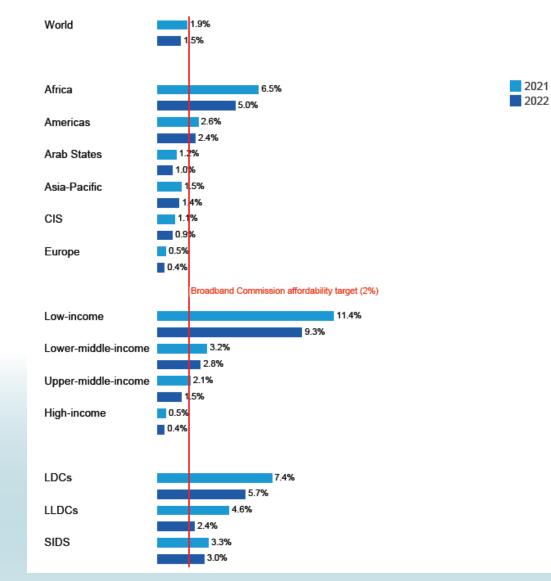


100%

#### Affordability of ICT services

Affordability of ICTs ICT services become more affordable worldwide in 2022

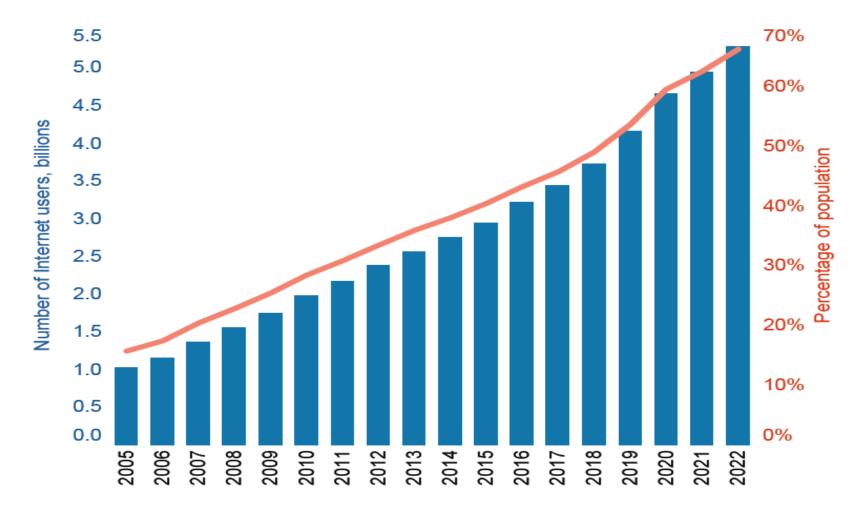
Data-only mobile broadband basket prices as % of gross national income per capita, 2021-2022



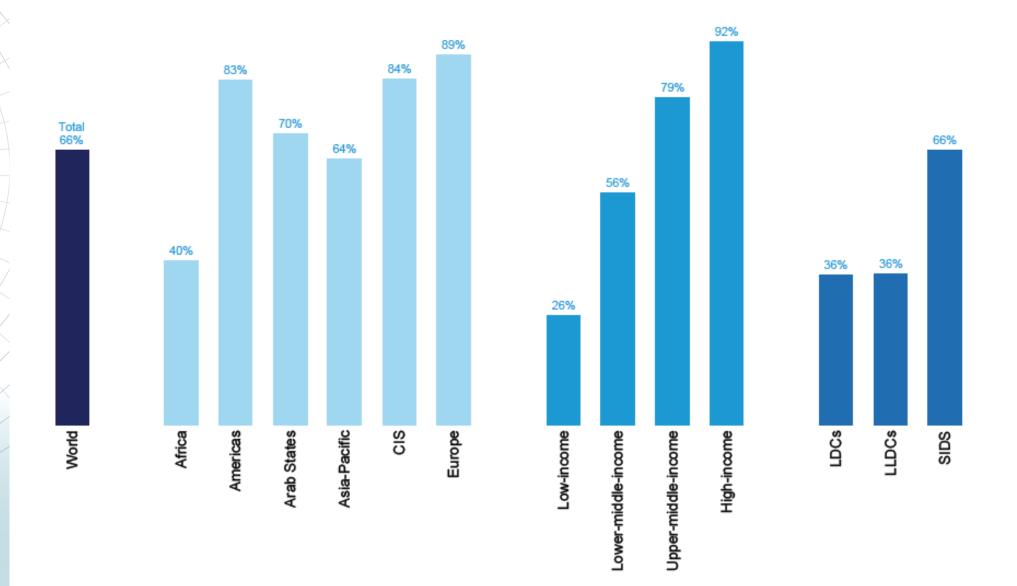
## Use of Internet

Two-thirds of the world's population uses the Internet, but 2.7 billion people remain offline

Individuals using the Internet



#### Percentage of individuals using the Internet, by region, 2022



Youth Internet use

Three-quarters of 15- to 24-year-olds use the Internet

Percentage of individuals using the Internet, by age group, 2022

98% 94% 91% 92% 88% 83% 81% 81% 80% 77% 75% 73% Youth 68% 67% Rest of the 65% population 63% 63% 55% 54% 49% 39% 36% 33% 33% 23% Americas CIS Europe LLDCs World Africa LDCs SIDS Arab States Asia-Pacific Upper-middle-income Low-income Lower-middle-income High-income

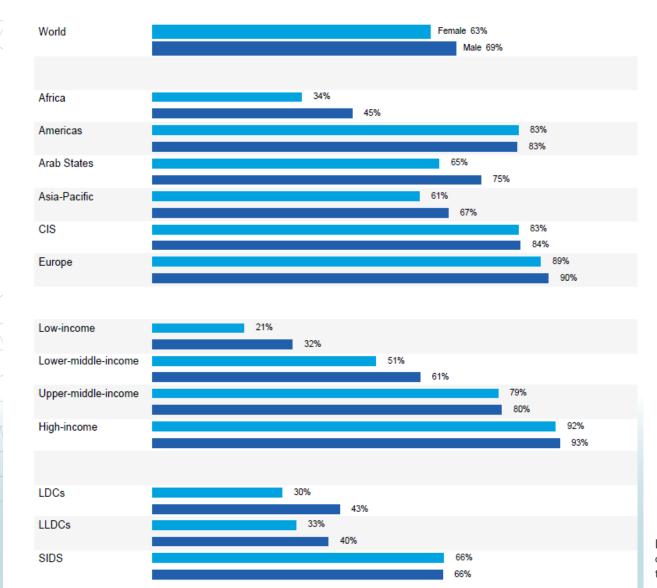
# Generational digital divide

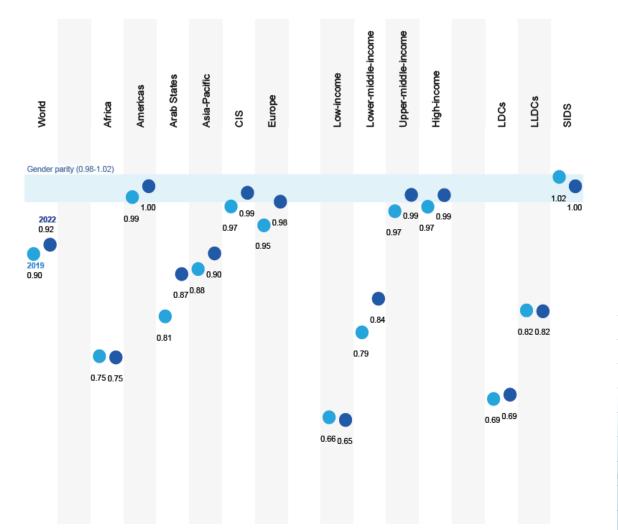
Source: ITU

## Gender digital divide

#### Percentage of female and male population using the Internet, 2022

#### The Internet use gender parity score, 2019 and 2022

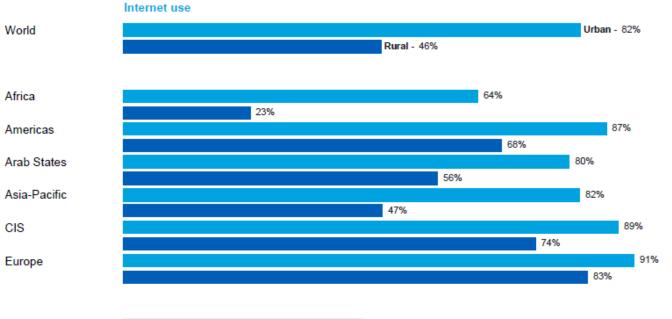


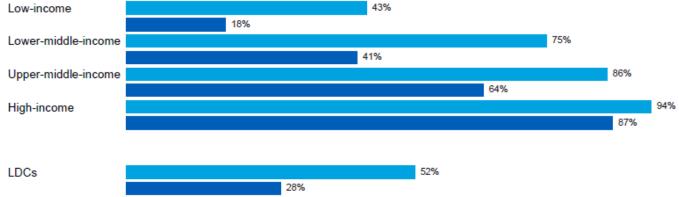


Note: The gender parity score is calculated as the proportion of women who use the Internet divided by the proportion of men. A value less than one indicates that men are more likely to use the Internet than women, while a value greater than one indicates the opposite. Gender parity is considered to be achieved if the value lies between 0.98 and 1.02.

#### Percentage of individuals using the Internet in urban and rural areas, 2022

**Rural**urban digital divide







Source: ITU

Africa

CIS

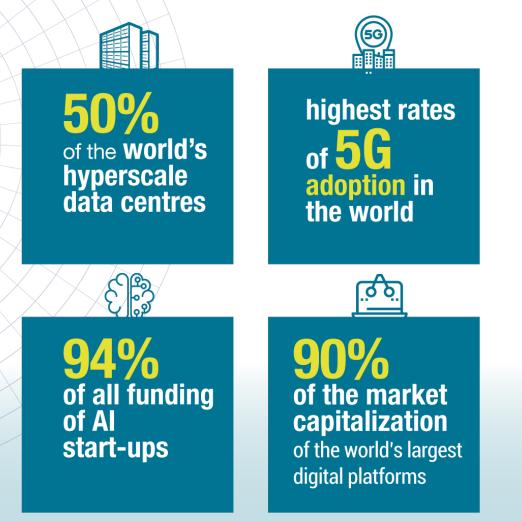
## Two frontrunners in terms of harnessing data: the United States and China

Collection

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Transmission

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## The **largest digital platforms** increasingly control all stages of the global data value chain



Storage

With the pandemic their dominant positions have strengthened.

Use

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**Processing** 

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## DATA COLLECTION: GLOBAL DIGITAL PLATFORMS

#### Geographical distribution of the top 100 global digital platforms, by market capitalization 2021

Teladoc

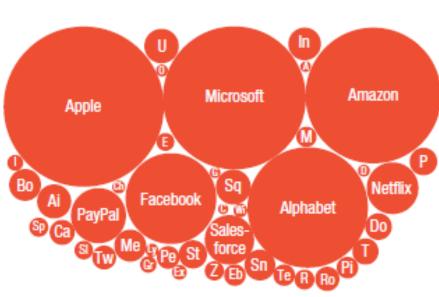
Twilio

Twitter

Uber Wish

Zillow

29



America

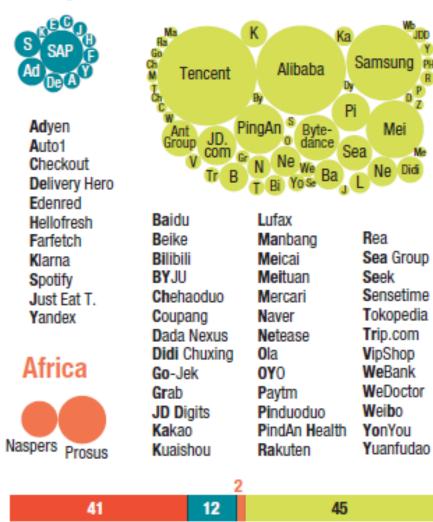
Airbnb	Ebay	Lyft	Roblox
Alteryx	Etsy	Match	Roku
Booking	Expedia	MercadoLibre	Slack
Carvana	Grainger	Opendoor 0	Snap
Chegg	Grubhub	Palantir	Splunk
Doordash	Instacart	Peloton	Square
Dropbox	Intuit	Pinterest	Stripe
-			

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#### Europe

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#### Asia and Pacific



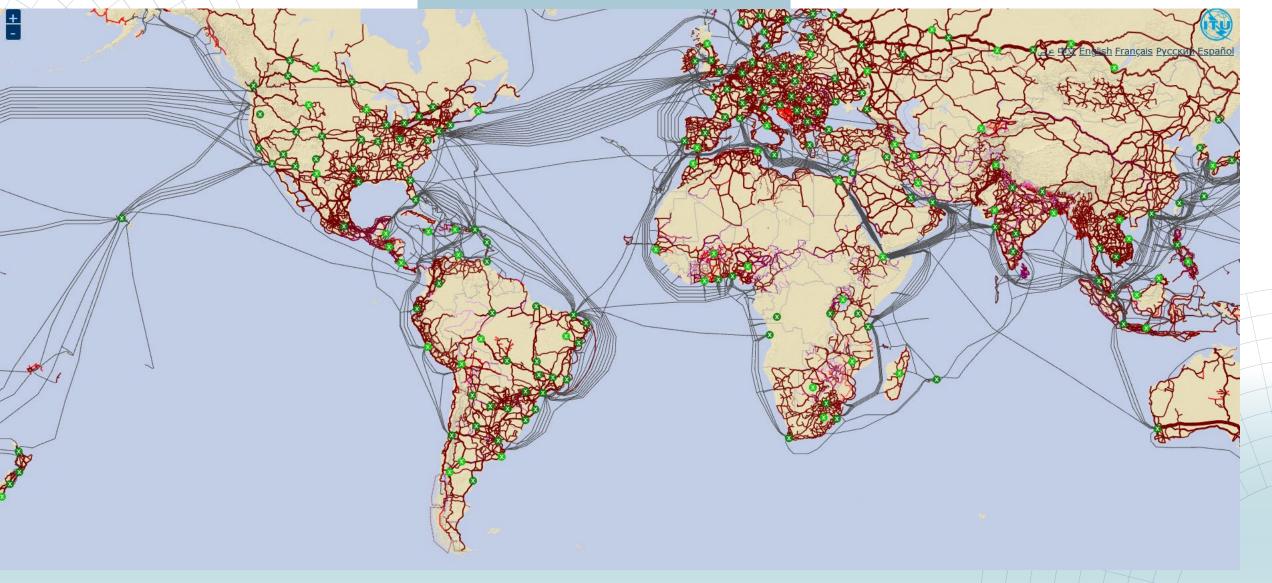
Number of top 100 platforms, by region

Share in total value, by region (%)

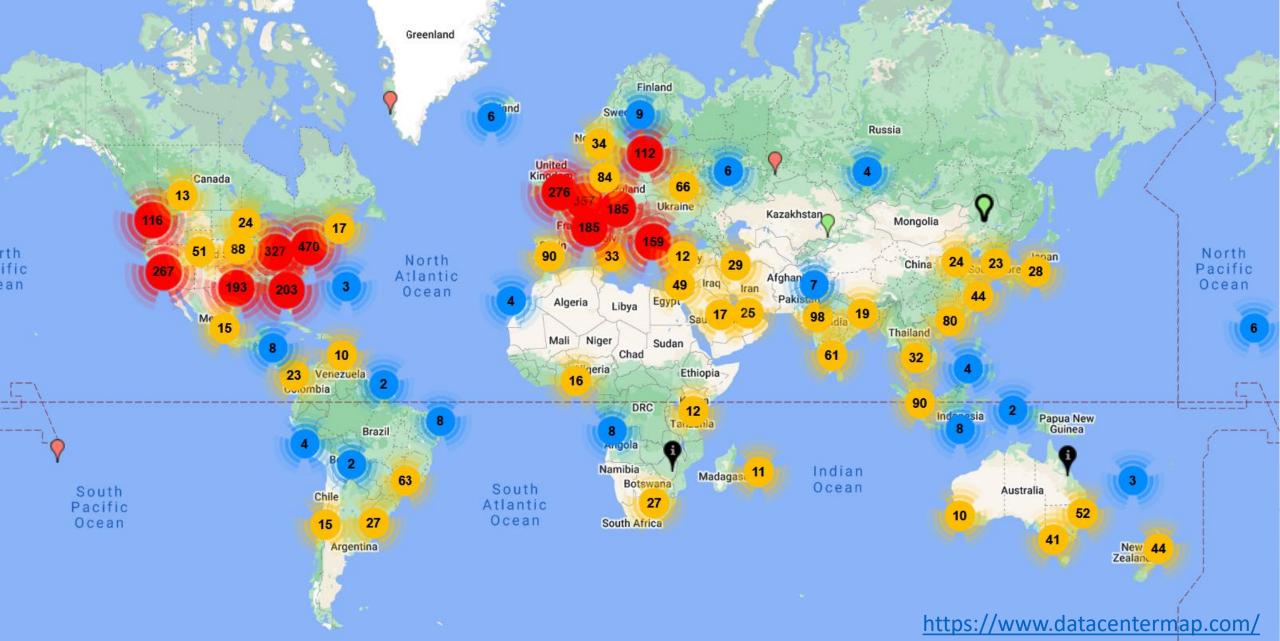
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## DATA TRANSMISSION

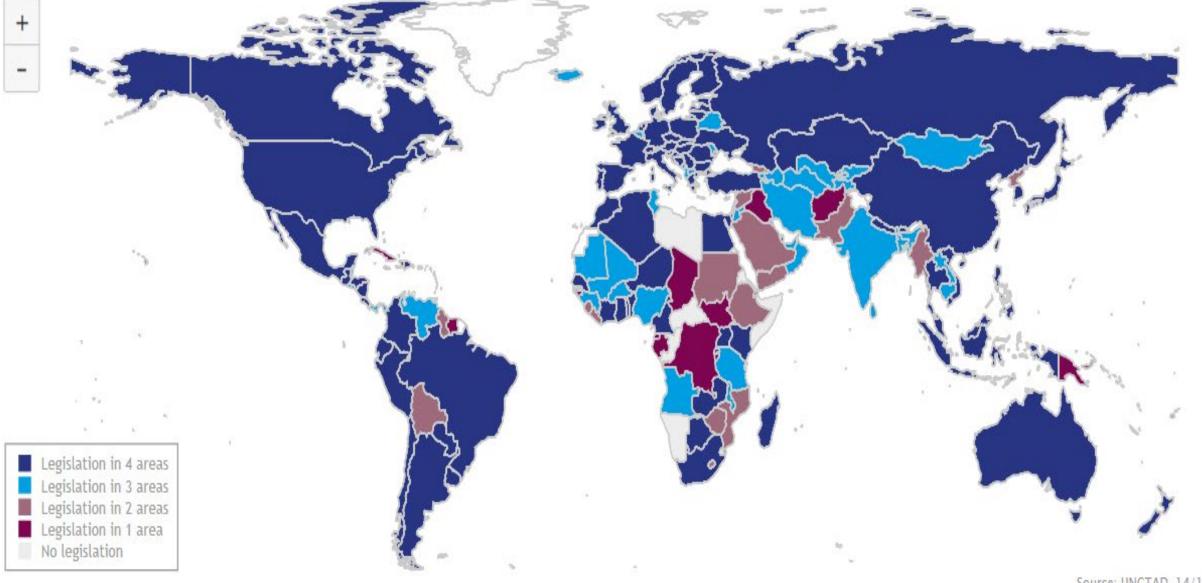
## Internet transmission map



## DATA STORAGE: Global data center map



### Summary of Adoption of E-Commerce Legislation Worldwide



Source: UNCTAD, 14/12/2021



UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

## THANK YOU!

# Download the full report for free here

Link: https://unctad.org/webflyer /digital-economy-report-2021

*Source of digital connectivity statistics is ITU, Measuring Digital Development, Facts and Figures 2022* 



Cross-border data flows and development: For whom the data flow

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