

# Digitalisation for development

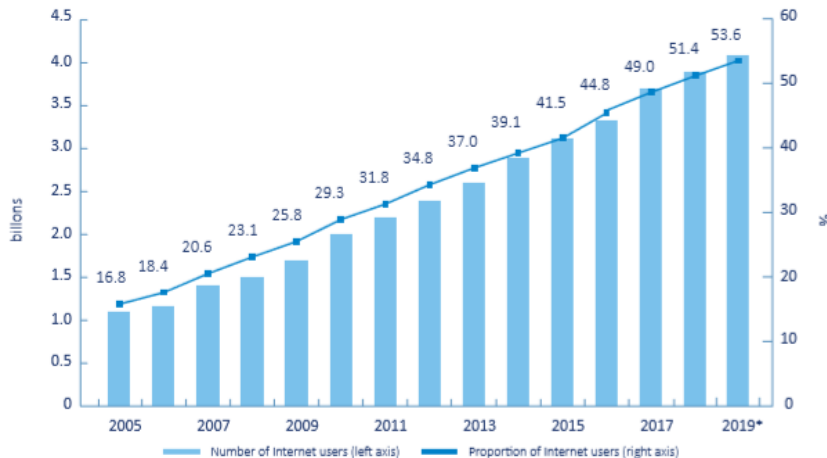
# Digital Transformation affects all parts of our lives

- *It is also referred to as „**Revolution**“*
- *affecting all areas of life and businesses*
- *This also changes work and stakeholders of development*

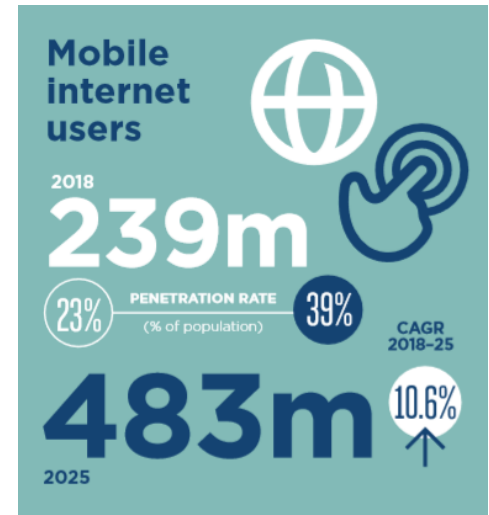


# Why Digital for Development?

The number of **internet users** worldwide keeps growing



## Sub-Saharan Africa



Source: GSMA

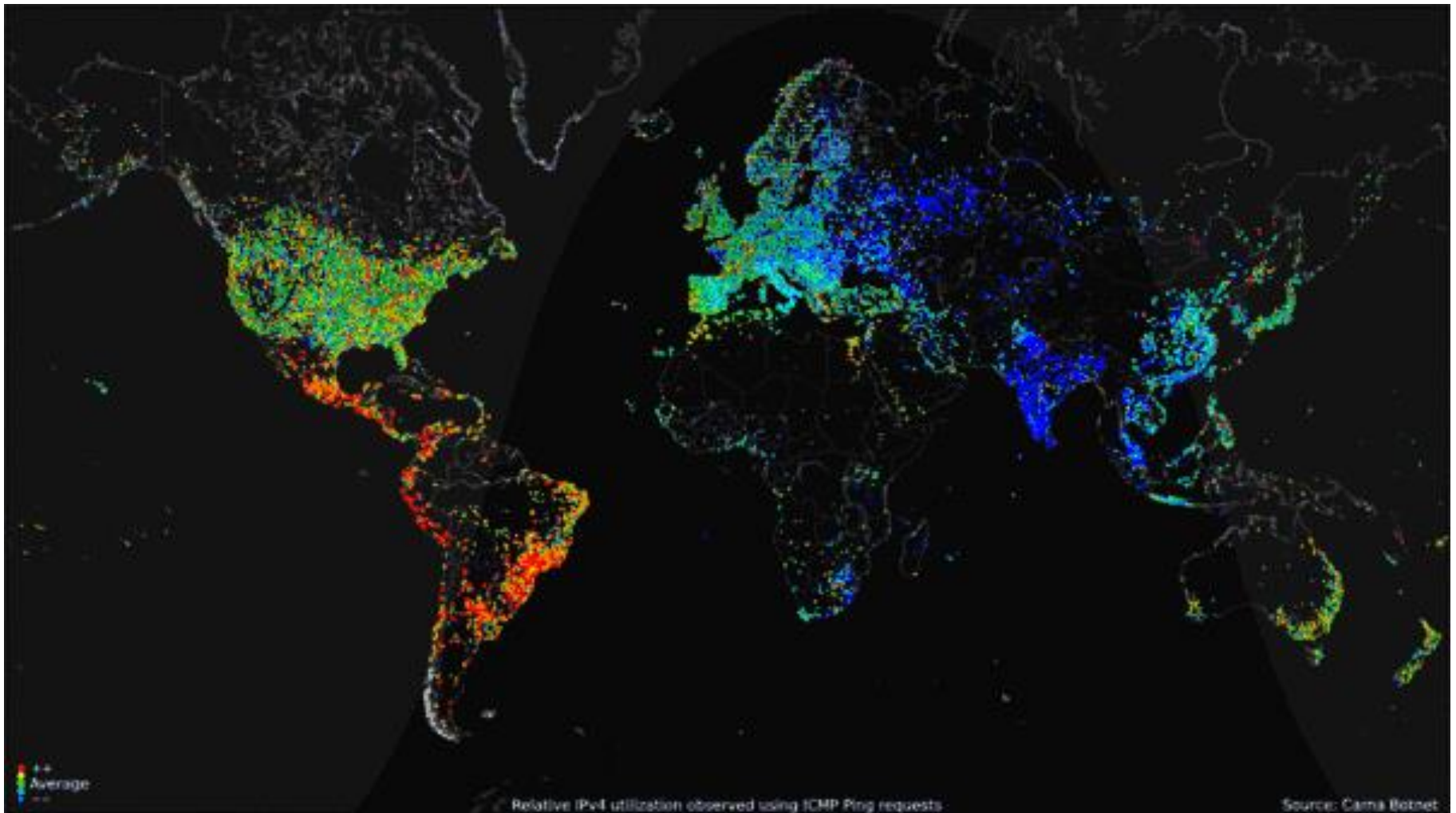


Productivity in developing countries could increase by up to **25%** in the long term, if access to the Internet would be at the level of industrialized countries.  
This would create **140 million** jobs.

Source: Deloitte

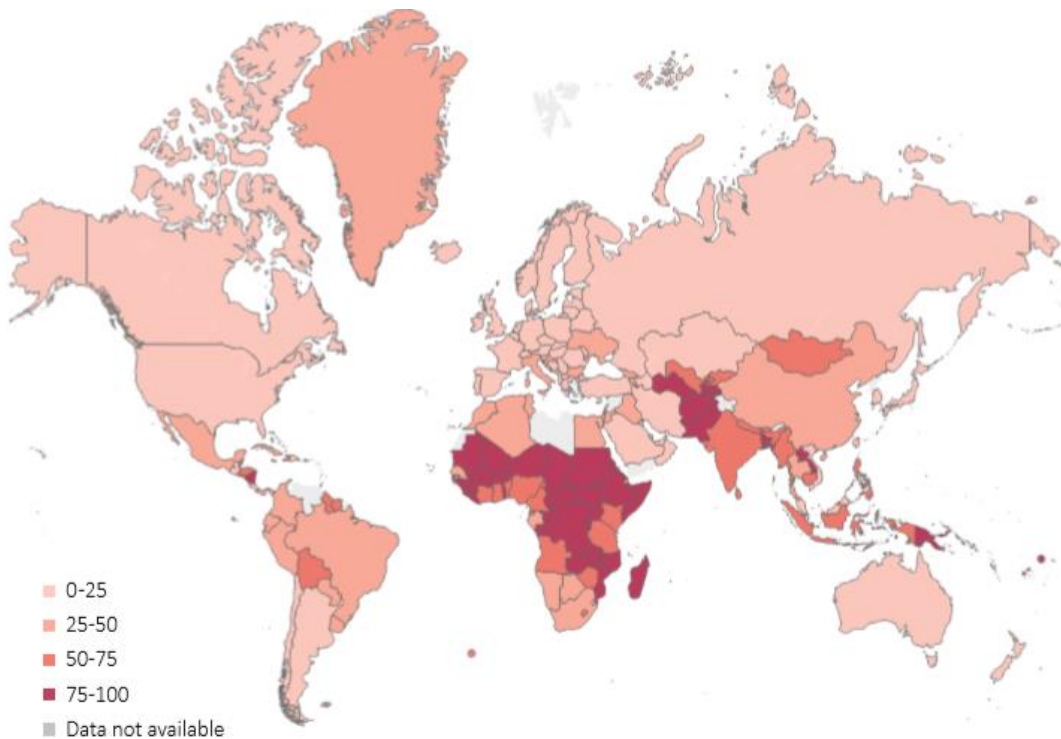


European  
Commission



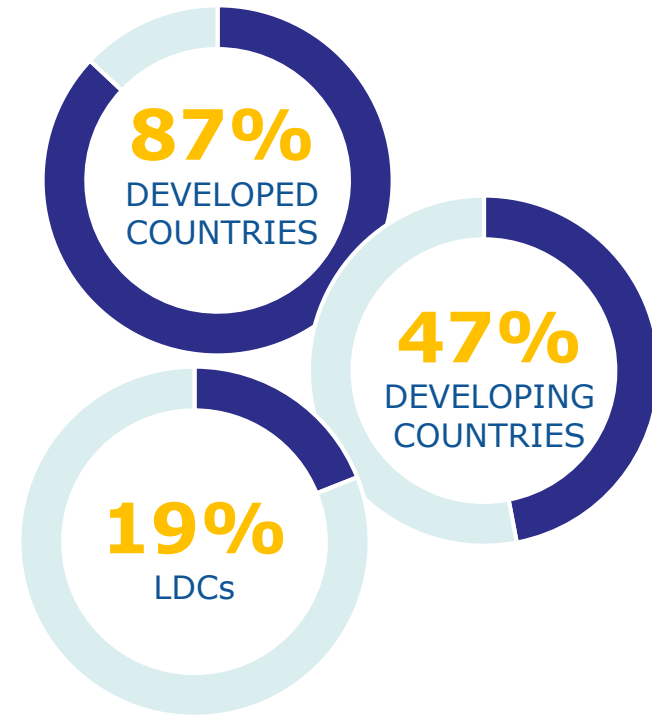
# The digital divide

## Population not using the internet



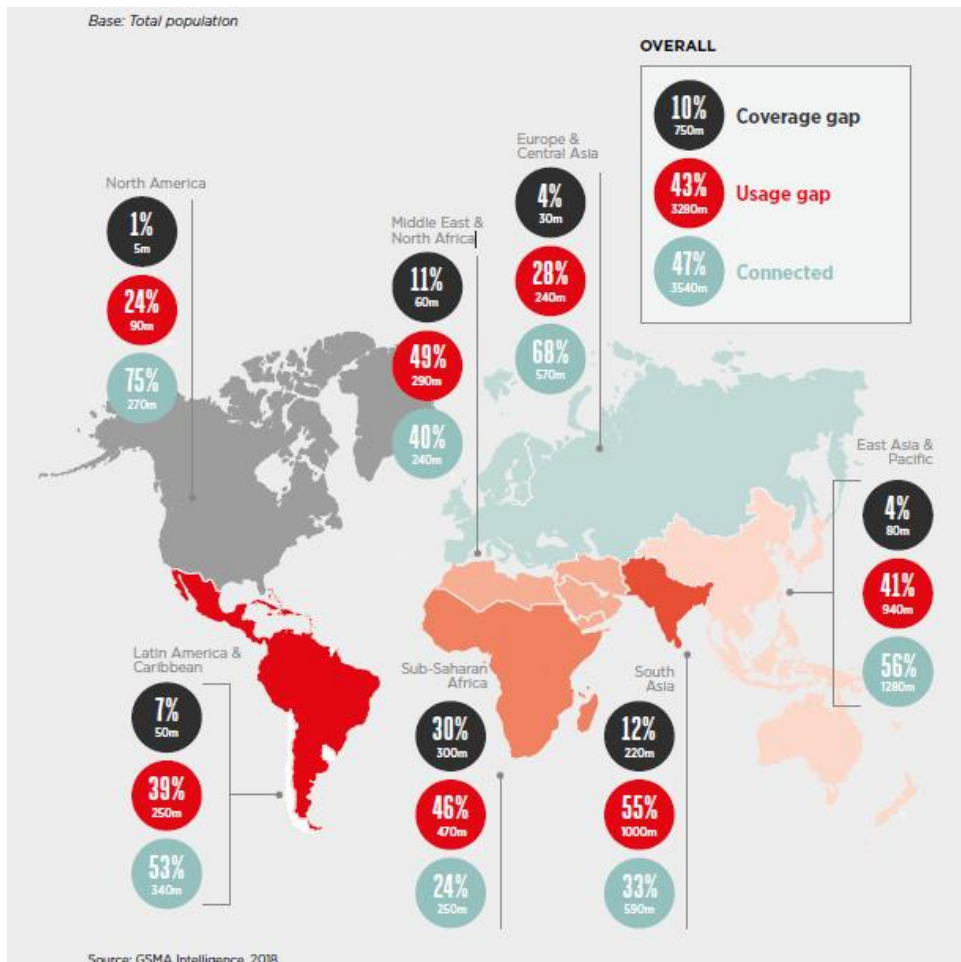
Note: \* ITU estimate. Source: ITU.

### Internet users by region and status



# The digital divide

## State of global mobile internet connectivity by region in 2018



### Connected

Mobile internet penetration, which is the number of unique users who have used internet services on a mobile device.

### Usage gap

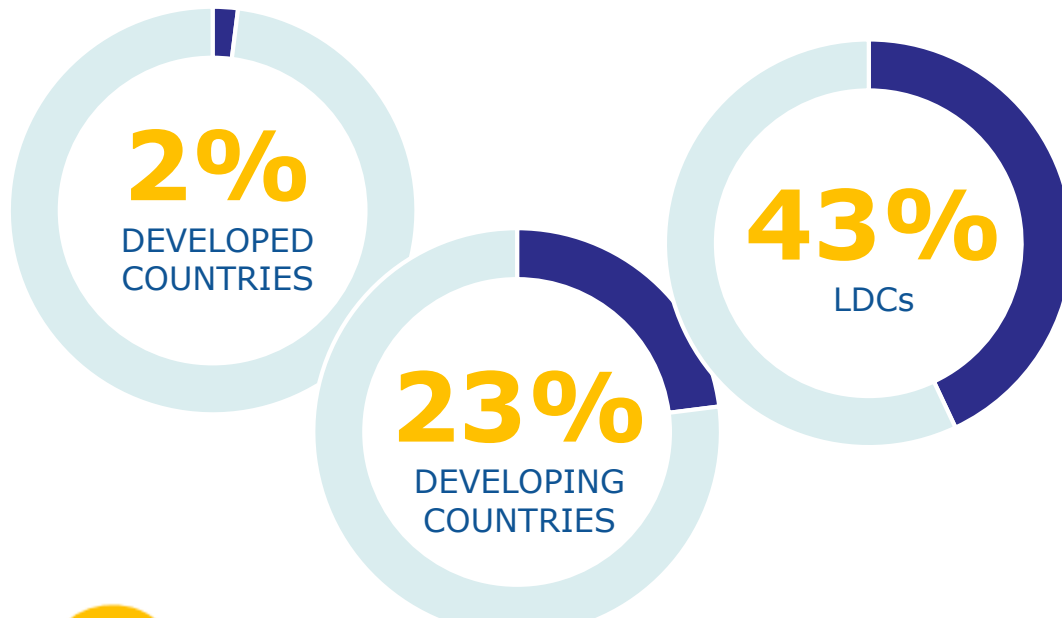
Those that live within the footprint of a mobile broadband network but are not using mobile internet.

### Coverage gap

Those that do not live within the footprint of a mobile broadband network.

# Gender digital divide

## The Internet user gender gap



**23%**  
of women in  
**Sub-Saharan Africa**  
use the Internet  
compared to **34%** of men

A study on the gender digital divide in the region has recently been contracted by C5 to identify specific challenges and solutions



# Frameworks & Principles

Digit plays a role in the achievement of most of the SDGs

**It is only named in the SDGs 4x explicitly**

**4.A.1** Proportion of schools with access to the Internet for pedagogical purposes



**5.B.1** Proportion of individuals who own a mobile telephone, by sex

**9.C** Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020.



**8.2** Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors.

**...but play a significant role for all goals**





# Frameworks & Principles

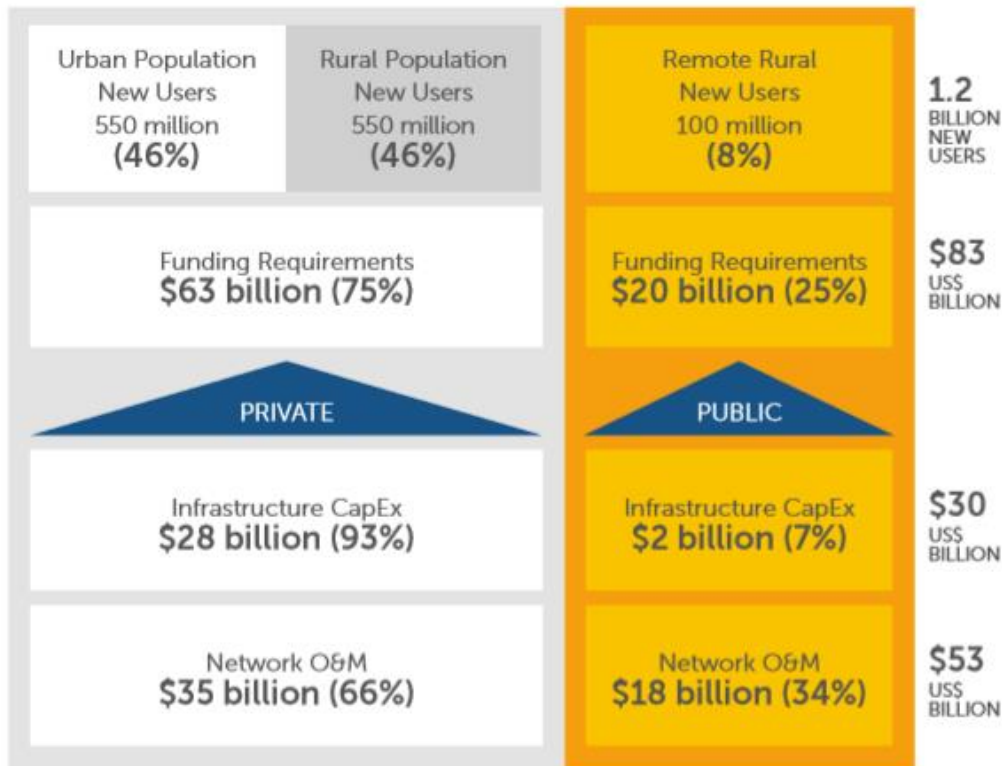
The Principles for Digital Development can help to ask the right questions

- The **Principles for Digital Development** provide straightforward, intuitive guidance on how to choose and use appropriate technology to promote development objectives
- <https://digitalprinciples.org/>



# Investment needs in digital connectivity infrastructure

*Overall estimate of \$109 billion in investments needed to achieve the 2030 target of universal access to affordable and good quality broadband.*



## Key actors

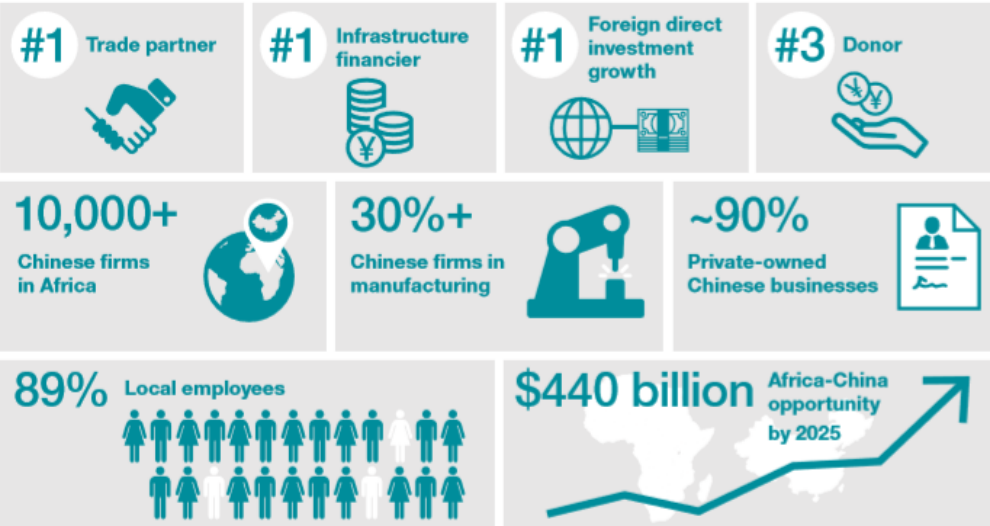
- African Union and RECs
- African governments, public investment agencies
- Sector regulators
- MDBs, RDBs
- EU-AITF
- UN/other
- Private Sector
- NGOs

Indicative distribution of cost sharing between the public and the private for infrastructure capital expenditure (CapEx) and network operations and maintenance (O&M). Another significant aspect of the MFD approach demonstrates that public investment participants (e.g. MDBs, bilaterals and other development aid agencies) will channel investments in areas that the private sector sees as non-commercially viable.

*Note: New users in remote rural area are estimated at ~100m (~15%-20% of the rural population). This represents the low-density areas out of reach of traditional mobile networks.*

# China is going digital in (also in ) Africa

## General China-Africa Investment



NOTE: Numbers may not sum due to rounding.

SOURCE: *Lions on the move II: Realizing the potential of Africa's economies*, McKinsey Global Institute, 2016; "Infrastructure financing trends in Africa—2015," The Infrastructure Consortium for Africa, 2015; Bilateral trade database, International Trade Centre Trade Map, 2015

# China is going digital in Africa

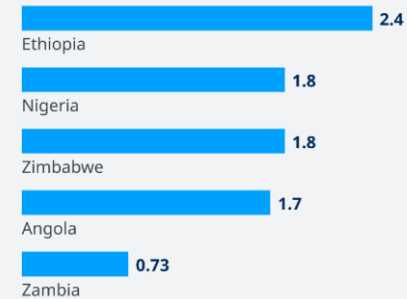
## China's Digital Silk Road in Africa

Data centers and Smart City initiatives



### Digital silk road projects

The top 5 countries (in billion \$)



Source: RWR Advisory Group/Bloomberg

© DW

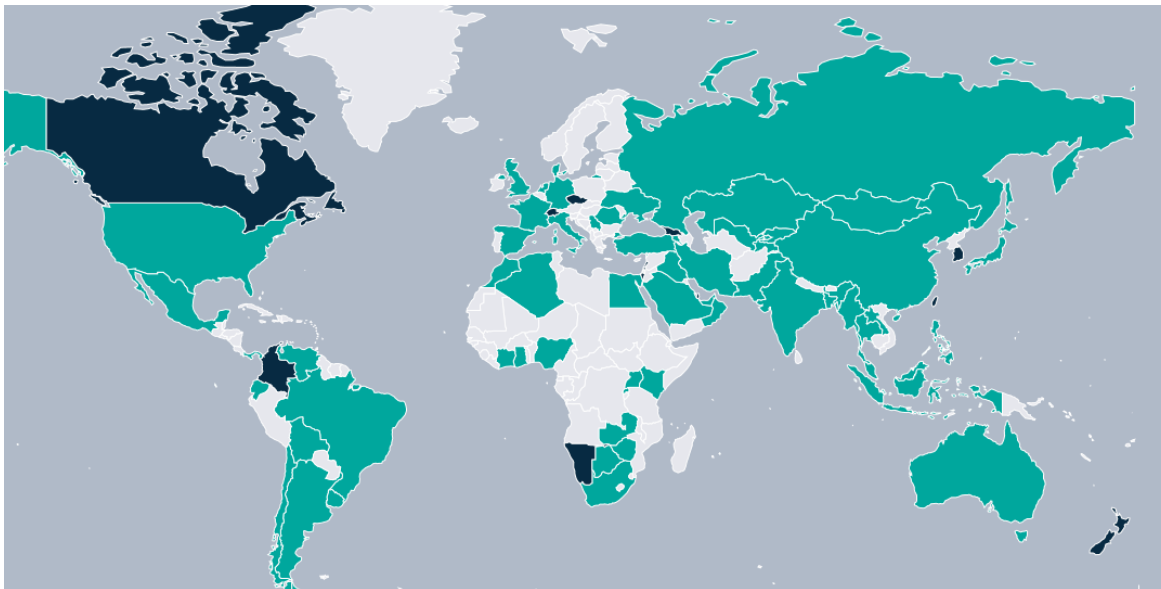
A gigabyte of data costs an average of 8% of a monthly income in Africa, according to A4AI. But while Chinese tech connect Africa, experts argue African countries could adopt Chinese internet censorship model. For example, most of the smart city projects that involve Chinese financing and companies in African countries aimed at making cities safer through technologies that allow surveillance.

# AI Surveillance and Data

## The geopolitical importance of digital

- smart city/safe city platforms,
- facial recognition systems
- smart policing

**China is a major driver of AI surveillance worldwide.** Technology linked to Chinese companies—particularly Huawei, Hikvision, Dahua, and ZTE—supply AI surveillance technology in sixty-three countries, thirty-six of which have signed onto China's Belt and Road Initiative (BRI). **Huawei alone is responsible for providing AI surveillance technology to at least fifty countries worldwide.** The US are also big providers of this technology.



Countries that use Chinese companies to supply their AI surveillance technology.

Chinese product pitches are often accompanied by soft loans to encourage governments to purchase their equipment. These tactics are particularly relevant in countries like **Kenya, Laos, Mongolia, Uganda, and Uzbekistan**—which otherwise might not access this technology.

# Policy Framework

**2017**

## **SWD on Digital4Development**

Mainstreaming Digital Technologies and Services into EU Development Policy

## **Council Conclusions on Digital4Development**

welcoming the D4D approach and asking for implementation

**2018**

## **European Parliament Resolution**

Digitalisation for Development: Reducing Poverty through Technology

**2019**

## **New Africa-Europe Digital Economy Partnership**

Report of the AU-EU Digital Economy Task Force



## Partnerships

### **MultiStakeholder Forum**

EUMS, public and private stakeholders

### **D4D Coalition**

EUMS and European private sector

### **AU-EU Digital Economy Task Force**

EUMS, African and European public and private sector

### **Global D4D Hub**

MS and private sector (starting in 2020 only for Africa)

# COMM: Shaping Europe's Digital Future

Three objectives to ensure the digital transformation:





# COMM: Shaping Europe's Digital Future

## International Dimension



- **The EU will:**
  - ◆ aim to become a **global role model** for the digital economy;
  - ◆ **support developing economies** in going digital;
  - ◆ develop **digital standards** and promote them internationally.

# COMM: Shaping Europe's Digital Future

## International Dimension

### Key Actions:

**Global Digital Cooperation Strategy (2021)**

**White Paper on an instrument on foreign subsidies (Q2 2020)**

**Digital for Development Hub**

A strategy for **Standardisation** (Q3 2020)

**Mapping of opportunities and action plan** to promote the European approach in bilateral relations and multilateral for a (Q2 2020)

# Digitalisation in the NDICI

## Geographic

- Neighbourhood
- Sub-Sahara Africa
- Asia and Pacific
- The Americas and the Caribbean

## Thematic

- Human Rights and Democracy
- Civil Society Organisations
- Stability and Peace
- Global Challenges

## Rapid Response

- Crisis Response and Conflict Prevention
- Resilience and linking humanitarian and development actions
- Foreign policy needs and priorities

Emergency challenges and priorities cushion

EFSD +

Erasmus +

### Key features

- “Geographisation”
- DACability: 92% - focus on fragile and LDCs but possibility to work with all partners regardless their level of development
- Spending targets for climate change (25%), migration (10%) and social inclusion and human development (20% ODA)

EFSD+ and Erasmus+  
also financed by IPA

# New Commission and next programming

## Policy strands and main areas of action



**Governance**, including policy regulatory frameworks and data protection



**Digital connectivity**, including key enabling infrastructure, such as power and broadband



**Skills, entrepreneurship and access to finance**



**eServices**, both public and private, including eGovernance



Projects  
Grants  
Blending  
EFSD Guarantees

Mainstreaming  
Mapping of over  
**200 DEVCO projects**  
with digital components

## Digital connectivity and infrastructure

- Investment in connectivity infrastructures
- Promote affordable access to broadband
- Connect underserved areas and populations



Digital Single Market  
GDPR  
COPERNICUS  
GALILEO

## Governance, policy and regulations

- Improve the regulatory framework for a conducive business environment
- Capacity building and promotion of EU standards and policies
- Strategic Partnership between EU and national and regional actors
- Human-centred approach for digitalisation with a focus on inclusion and gender dimensions
- Data protection



GDPR  
Digital Single Market  
Cybersecurity  
EU Human Rights Policies  
Artificial Intelligence  
eIDAS

## Digital skills and entrepreneurship

- Digital literacy and digital hygiene
- Skills in education and VET
- Skills for professionals across all sectors
- Capacity building support for the digital start-up eco-system
- Foster access to funding for MSMEs, start-ups and social enterprises
- Investment in connectivity



EU Consumer Protection Legislation  
EU Intellectual Property Rights  
standards  
EU Human Rights policies  
Digital Single Market

## Digital services (eServices)

- eHealth
- eEducation
- eCommerce
- eAgriculture
- eGovernance
- Fintech and financial inclusion
- Digital and Energy



Digital Single Market  
GDPR  
COPERNICUS  
EU Human Rights policies  
Artificial Intelligence  
GALILEO

## D4D Hub



Concretise the D4D policy and action framework on EU/AU strategic, regional and national level

Initiative proposed by MS (DE and BE + EE, SW, LUX, FR and possibly more to join)

3 Objectives:

Joint initiatives  
for  
mainstreaming  
D4D at national  
and regional  
level

Piloting innovative  
D4D  
methodologies/  
partnerships and  
share best  
practices

Multi-stakeholder  
dialogue for  
policy and  
regulation at  
regional and  
national level



# Thematic Support

## DEVCO HQ and EU Delegations

### TRAINING MODULES

Introduction to digitalisation -> online?  
Digitalisation for Agriculture, Digitalisation Infrastructure,  
Digitalisation for Human Development  
Startup, Copernicus, eCommerce, regional, etc.

### D4D TOOLKIT FOR DELEGATIONS

### PREPARATION OF SPECIFIC GUIDELINES

eGovernance, eAgriculture, eEducation

### STUDY ON THE GENDER DIGITAL DIVIDE IN AFRICA STRATEGIC ASSESSMENT ON SSA STRATEGIC ASSESSMENT ON SSA

### DIGITAL INTERNAL MARKER RESULTS FRAMEWORK ON DIGITALISATION

### SUPPORT AT COUNTRY-LEVEL

ToR, Studies and TA



2019

Foreseen for April 2020

Under preparation

3 completed, others foreseen

Ongoing  
Ongoing

Starting in January 2020  
Completed

Ongoing

**Does DEVCO know something about Digitalisation?**

**Mapping of Digitalisation Projects -> How many??**

**CONSOLIDATING AND SCALING UP!**


# Does DEVCO knows something already about Digitalisation?



**Africa Connect:** Support of the creation, development and use of regional education and research communication networks.



**Policy and Regulation Initiative for Digital Africa (PRIDA):** Aims to foster universally accessible and affordable broadband across the continent by facilitating efficient and harmonised spectrum utilisation.



**Cyber Resilience for Development:** Aims to increase the security and resilience of critical information infrastructure and networks supporting the adoption and implementation of a comprehensive set of policy, organisational, and technical measures that will increase their cybersecurity and preparedness.



**The Multinational Trans-Saharan Backbone (TSB) Optical Fiber Project** will lay optical fiber cables to interconnect Algeria, Niger, Nigeria and Chad

**Thank you for your attention!**