

GSMA™

# Addressing the Digital Divide

a GSMA capacity building course

11 October 2024



# GSMA Digital Inclusion





---

The GSMA represents the interests of mobile operators worldwide, uniting more than 750 operators with nearly 400 companies in the broader mobile ecosystem, including handset and device makers, software companies, equipment providers and internet companies, as well as organisations in adjacent industry sectors. The GSMA also produces the industry-leading MWC events held annually in Barcelona, Los Angeles and Shanghai, as well as the Mobile 360 Series of regional conferences.

For more information, please visit the GSMA corporate website at [www.gsma.com](http://www.gsma.com)

Follow the GSMA on Twitter: [@GSMA](https://twitter.com/GSMA)

## GSMA Connected Society

---

The Connected Society programme works with the mobile industry, technology companies, the development community and governments to increase access to and adoption of mobile internet, focusing on underserved population groups in developing markets.

For more information, please visit [www.gsma.com/connected-society](http://www.gsma.com/connected-society)

Follow us on twitter: [@GSMAM4d](https://twitter.com/GSMAM4d)



---

This initiative has been funded by UK aid from the UK government and is supported by the GSMA and its members. The views expressed do not necessarily reflect the UK government's official policies.



---

This document has been financed by the Swedish International Development Cooperation Agency, Sida. Sida does not necessarily share the views expressed in this material. Responsibility for its contents rests entirely with the author.



**Anne Shannon Baxter**

Senior Advocacy Manager,  
Digital Inclusion

# Course Objectives

1. **Gain an understanding of the factors impacting the digital divide**
2. **Understand the policy levers that can help bridge the digital divide**
3. **Create an action plan to address the digital divide**

# Course Agenda

## 1. Explanation of the digital divide and the urgent need for action

- An introduction – the coverage and the usage gaps

## 2. Closing the digital divide through policy and regulation

- Coverage: Challenges & Policy Recommendations
- Usage: Challenges & Policy Recommendations

## 3. Creating a policy action plan

# 1. The Digital Divide

An Introduction



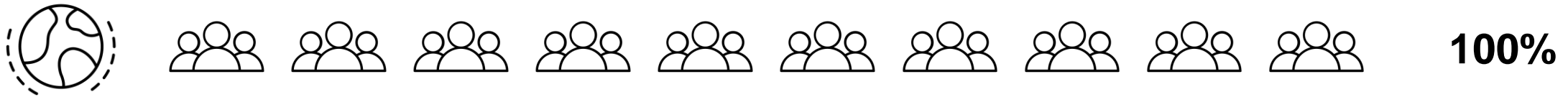
## The Digital Divide Fridah's story

*"Here in the rural areas, without internet, you're cut off from the modern world."*



# The world is more connected than ever before

## Global population



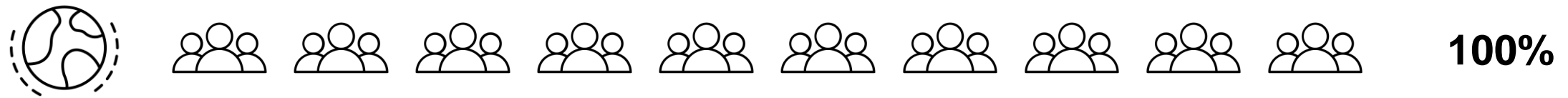
## Mobile broadband coverage



Source: GSMA (2024) The State of Mobile Internet Connectivity Report 2024

# The world is more connected than ever before

## Global population



## Mobile broadband coverage

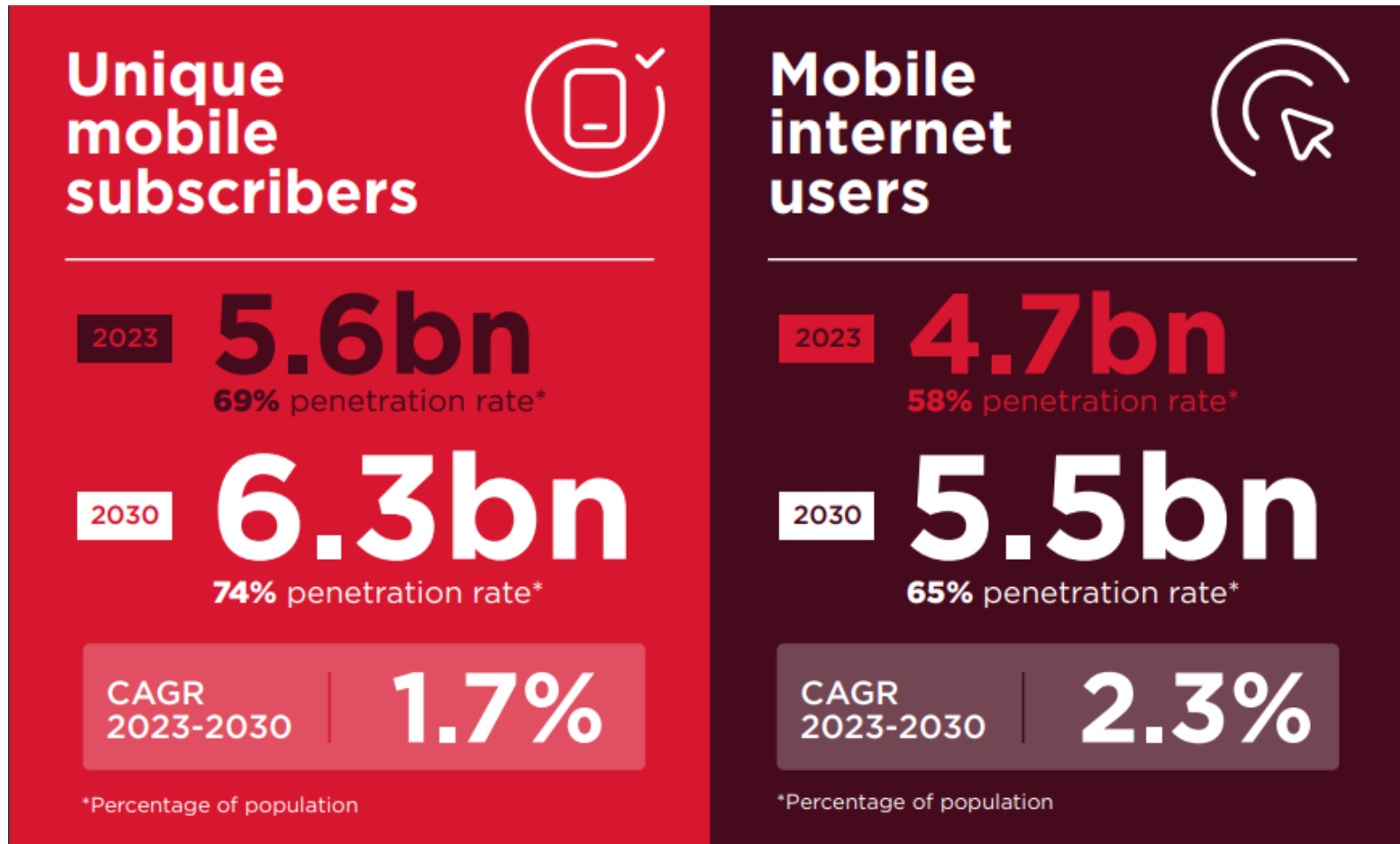


## Unique mobile internet subscribers



Source: GSMA (2024) The State of Mobile Internet Connectivity Report 2024

# Mobile adoption continues to rise globally



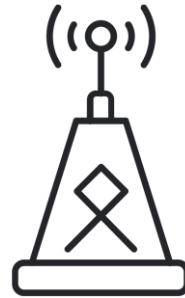
Source: GSMA (2024) Mobile Economy Report 2024

# This is changing lives and economic growth



## Wellbeing

At a micro level, mobile broadband increases household consumption and reduces poverty (e.g. by 8% and -7pp, respectively, in Nigeria)\*



## Industry

Connecting all women to mobile internet represents a \$140 billion revenue opportunity to mobile operators over 5-year period in LMICs



## Economy

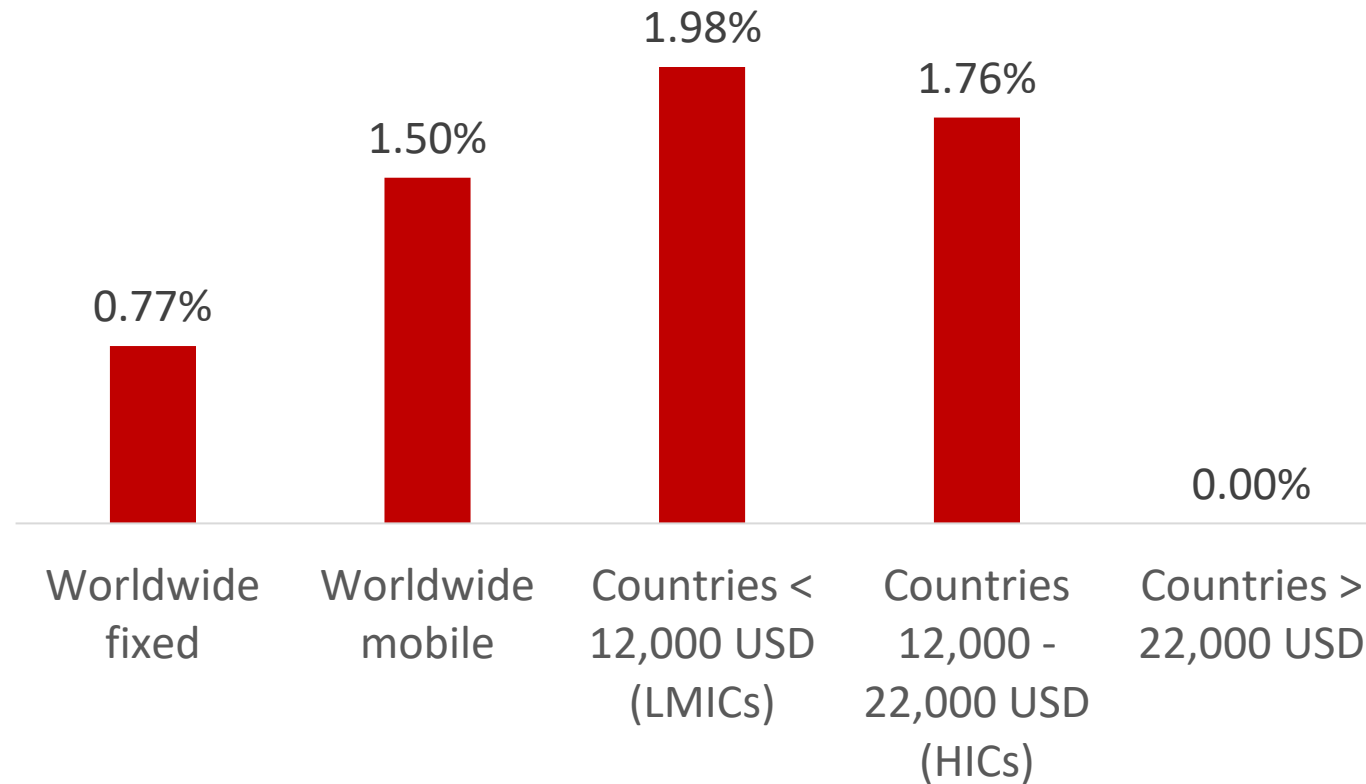
At a macro level, mobile broadband adoption drives economic growth (e.g. GDP growth +1.98 pp in LMICs for 10% mobile broadband adoption increase)\*\*

\* Source: GSMA, World Bank, *The Welfare Effects of Mobile Broadband Internet : Evidence from Nigeria*

\*\* Source: Quiang et al, 2009, *Economic impacts of broadband*.

# Mobile internet is often driving the largest impact

**Growth impact of an increase of 10% in broadband penetration**  
(in percentage of GDP)



*“The economic impact of mobile broadband is largest in developing countries. Such countries should therefore maximize mobile internet adoption.”*

*- ITU, 2020*

Source: ITU (2020) *How broadband, digitization and ICT regulation impact the global economy*





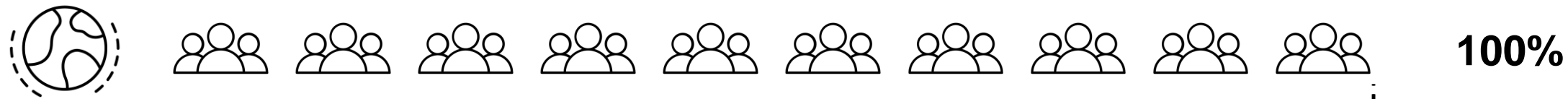
## The Digital Divide a poll

**What % of the global population do you think is not yet covered by mobile broadband:**

- a) 4%
- b) 15%
- c) 30%

# Not everyone is covered by mobile broadband yet

## Global population



## Mobile broadband coverage



**Coverage gap:** 4% of the global population (350 million people) live in areas without mobile broadband coverage

Source: GSMA (2024) The State of Mobile Internet Connectivity Report 2024





## The Digital Divide a poll

**If 96% of the population is covered by mobile broadband, what % of global population do you think is using mobile internet?**

- a) 57%
- b) 70%
- c) 85%



# The usage gap is the biggest challenge

## Mobile broadband coverage



96%

## Unique mobile internet subscribers



57%

usage gap

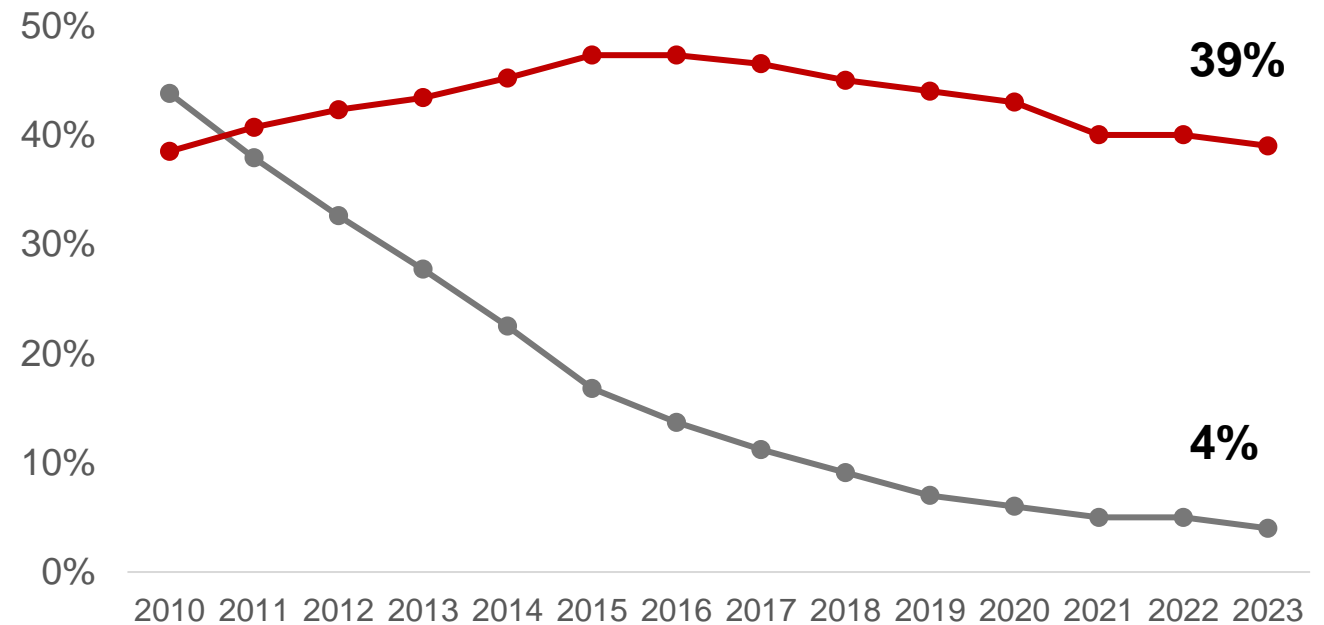
**Usage gap:** 39% of the global population (3.1 billion people) do not use mobile internet, despite living in areas already covered by mobile broadband

Source: GSMA (2024) The State of Mobile Internet Connectivity Report 2024

# The usage gap is large and only starting to narrow

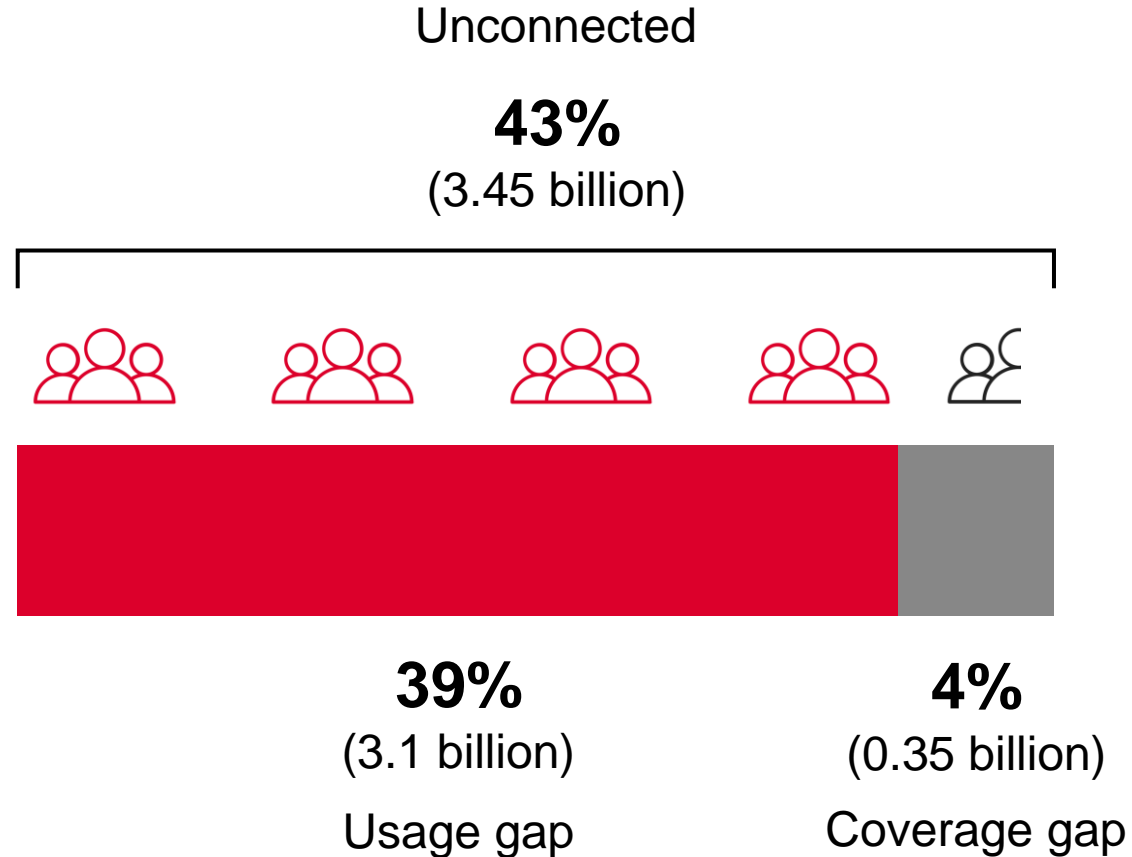
With the majority of the world now covered by mobile broadband networks there are other barriers preventing people going online

While the coverage gap has narrowed the usage gap remains  
(in percentage of the total population)



- Usage gap: people covered by mobile broadband but not using the mobile internet
- Coverage gap: people not yet covered by mobile broadband

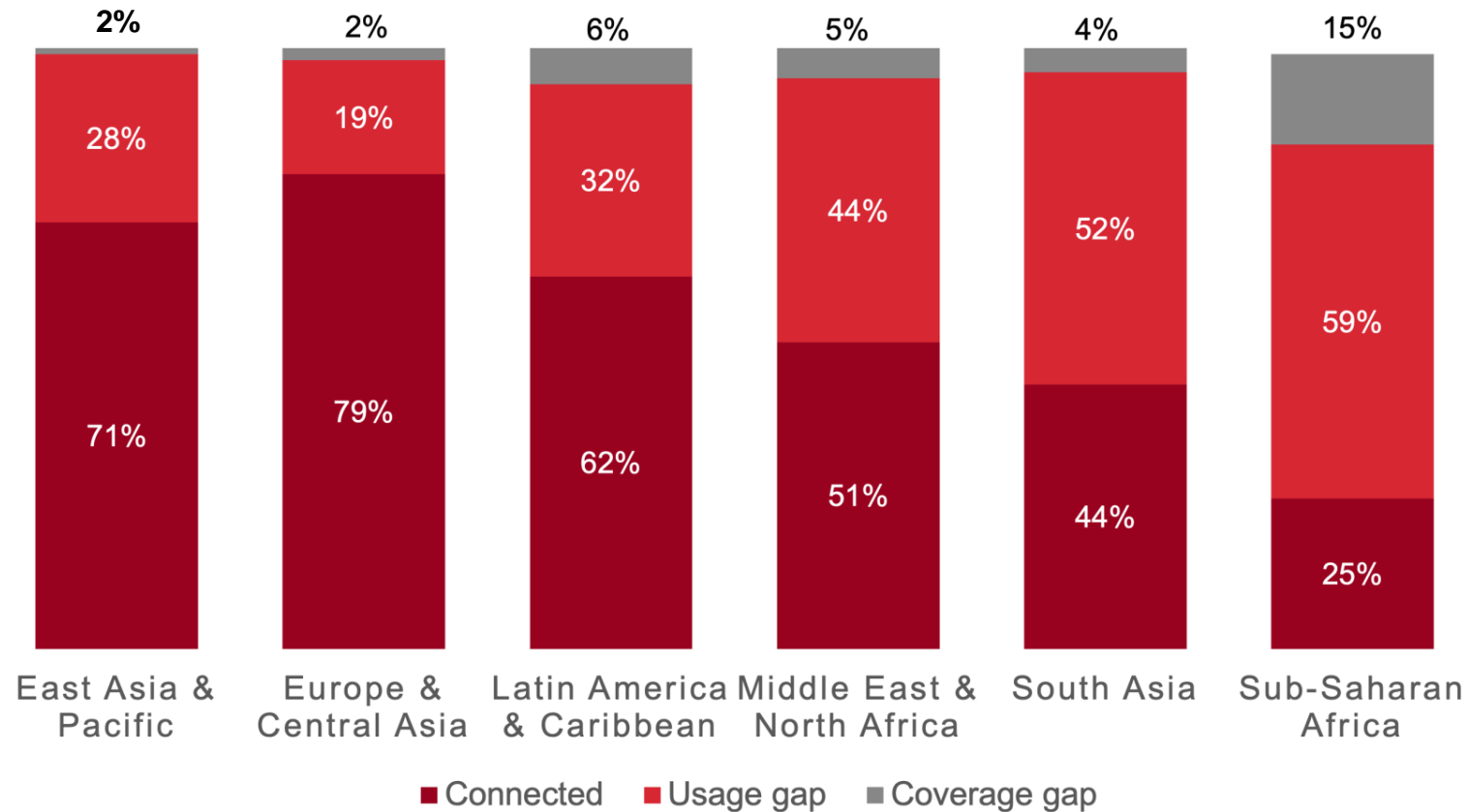
# The unconnected: usage gap + coverage gap



Source: GSMA (2024) *The State of Mobile Internet Connectivity Report 2024*

# The usage gap is a challenge in all regions

**Evolution of mobile internet connectivity by region, 2022**  
(in percentage of the total population)



Source: GSMA (2023) *The State of Mobile Internet Connectivity Report 2023*

Base: Total population, 197 countries.  
Note: Totals may not add up due to rounding.

# Group Discussion

1. Are you surprised by the usage gap? Is this a priority in your country?
2. Who do you think are most often excluded?

# Who are the unconnected?



## Women

Women are 15% less likely than men to use mobile internet across LMICs



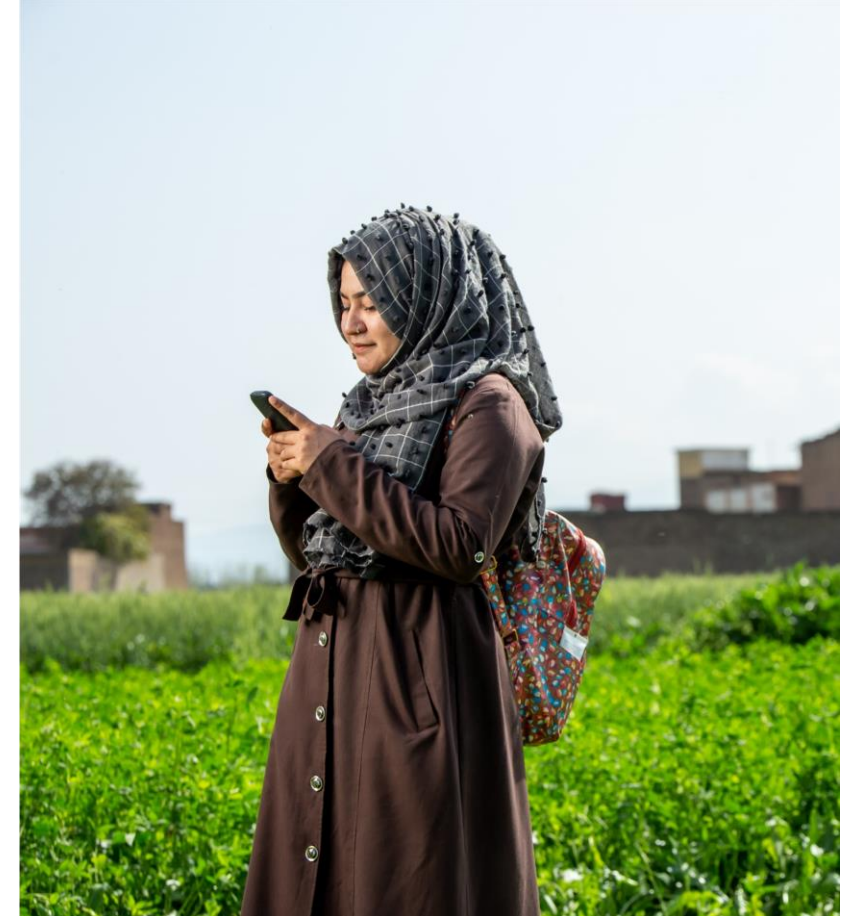
## Poor

Internet adoption in LDCs is 25% compared to 85% in HICs



## Rural

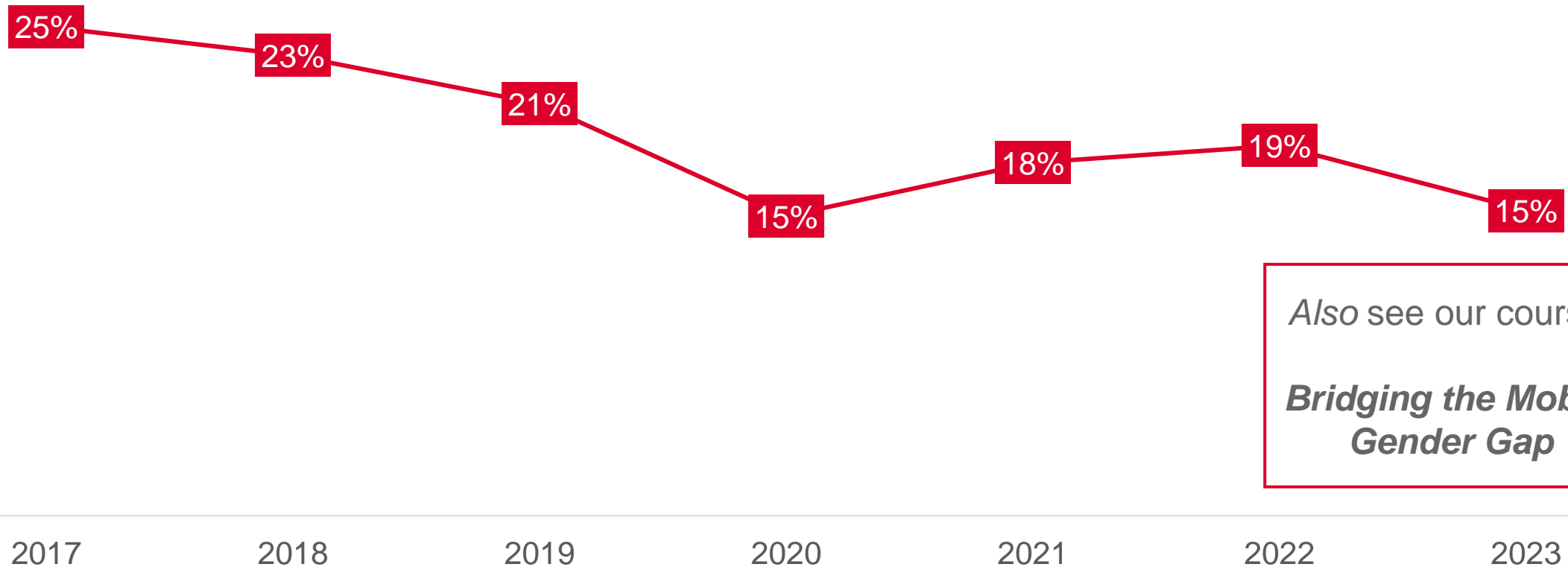
People in rural areas are 29% less likely to use mobile internet than those living in urban areas across LMICs



GSMA (2023) *The State of Mobile Internet Connectivity Report 2023*  
GSMA (2024) *The Mobile Gender Gap Report 2024*

# This year's data shows that the mobile internet gender gap *has narrowed* for the first time since 2020

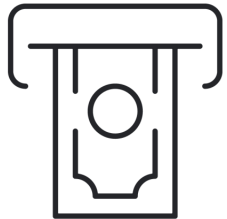
*Gender gap in mobile internet adoption across low- and middle-income countries, 2017-2023*



Also see our course:  
*Bridging the Mobile  
Gender Gap*

# Our research shows five barriers to digital inclusion

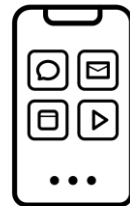
**Affordability**



**Knowledge and Digital Skills**



**Relevance**



**Safety and Security**



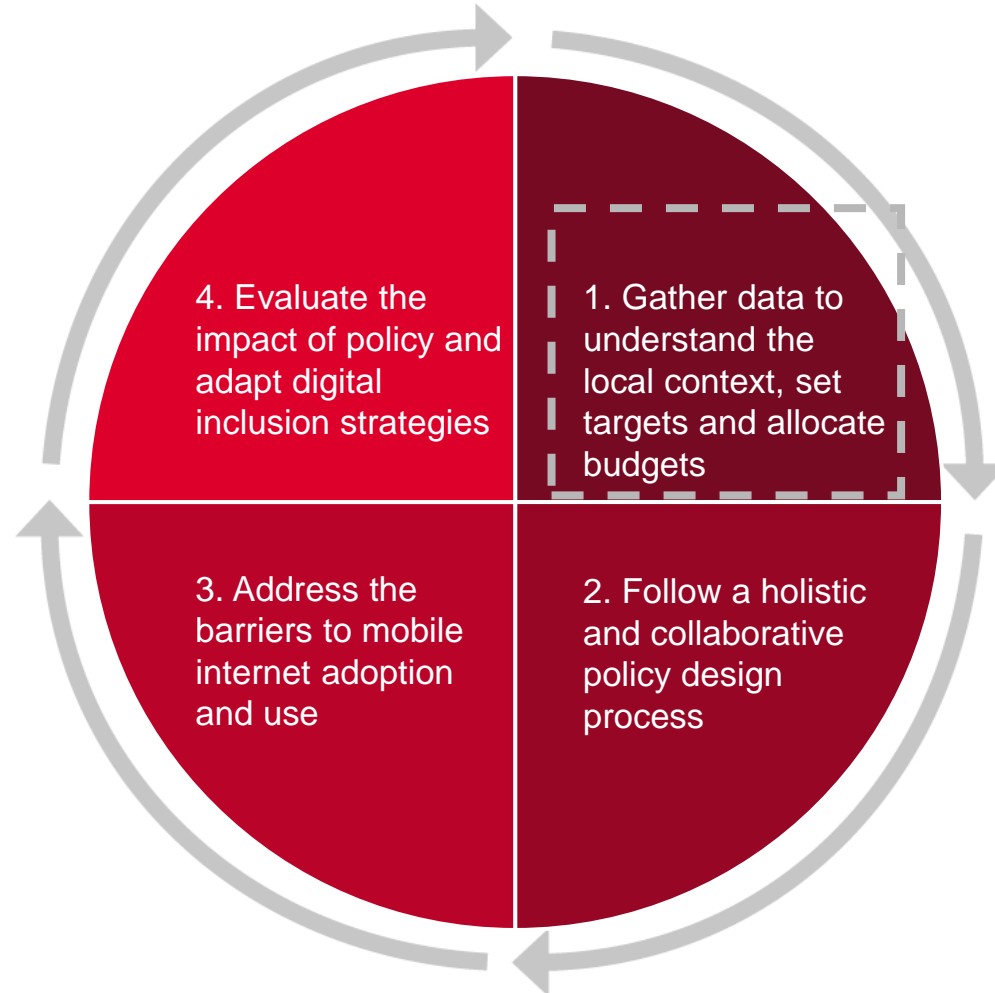
**Access**





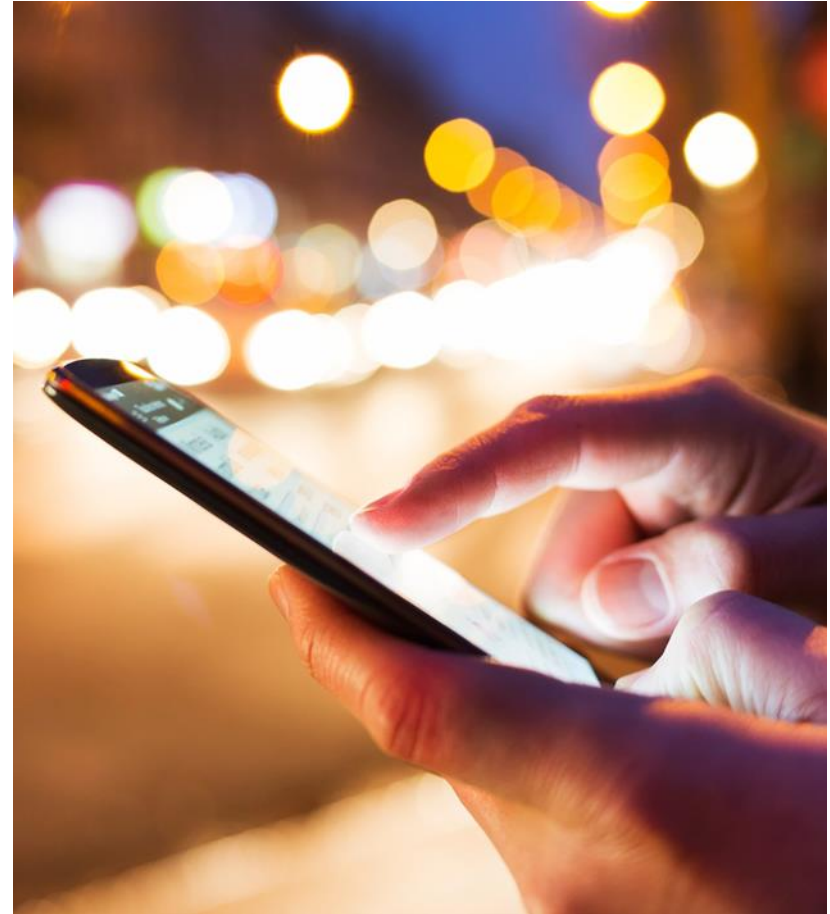
## 2. Closing the digital divide through government policy

# A comprehensive framework for action to bridge the digital divide

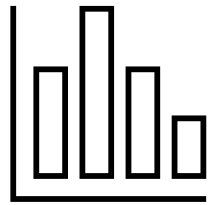


# Evidence is key to drive impact

- 1 Collect data**  
Collect granular, reliable and gender-disaggregated data on a regular basis and in accordance with international guidelines and standards.
- 2 Research context and needs**  
Conduct and support research to better understand the context, circumstances, challenges and needs of individuals not yet using mobile internet.
- 3 Set priorities and targets**  
Decide on policy priorities, set clear and measurable targets, allocate budgets, measure progress and evaluate the effectiveness of interventions based on data and research.



# The GSMA has data tools to support policymakers



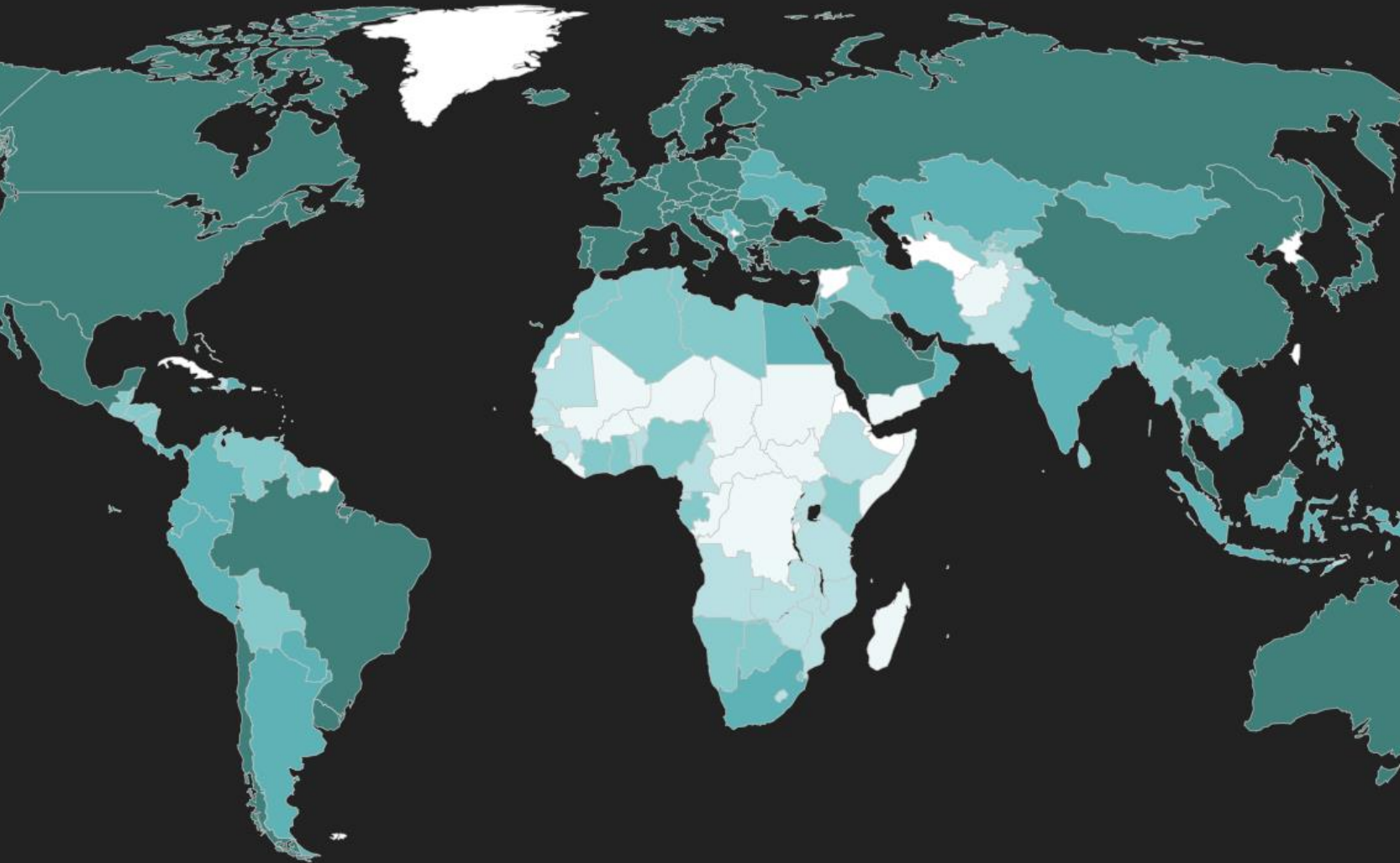
**MCI**



**Consumer  
Survey**



**GSMAi  
Database (paid)**



## The Mobile Connectivity Index (MCI)

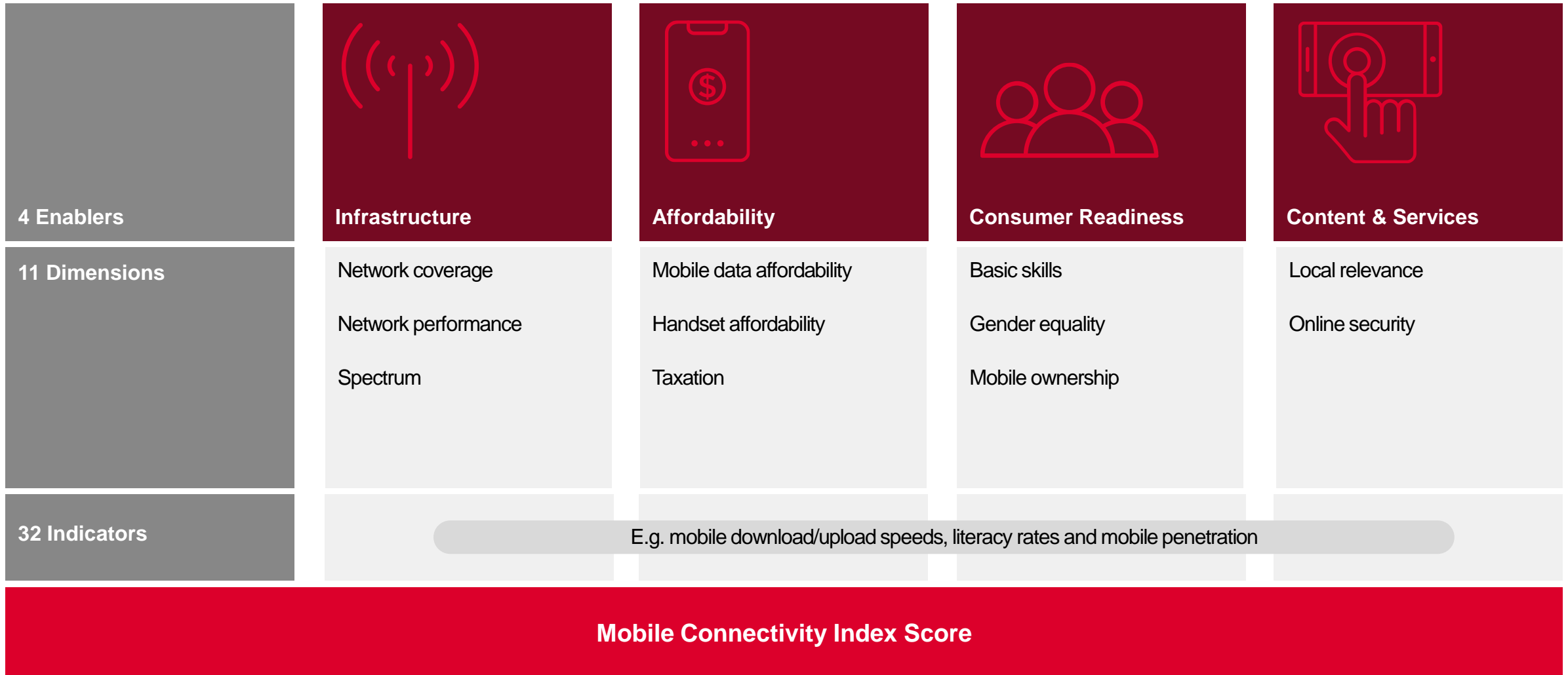
The MCI quantifies the barriers to mobile internet access **across four key enablers**.

The MCI covers **173 countries** representing **99% of the global population**.

The MCI has data going back to 2014 and is regularly updated. It allows for **comparison between countries and over time**.



# The MCI measures performance on 32 indicators



# Index Score 2023



## Nigeria's 2023 Scores

Index level

Enabler level

Dimension level

Indicator level



# Workshop: MCI for policymakers

## Using the GSMA Mobile Connectivity Index to drive digital inclusion

Guidelines for policymakers



GSMA™

### Course content:

- Introduction to GSMA's Mobile Connectivity Index (MCI)
- Guidelines for using the MCI: a five-step approach
- Self-assessment exercise and group discussion



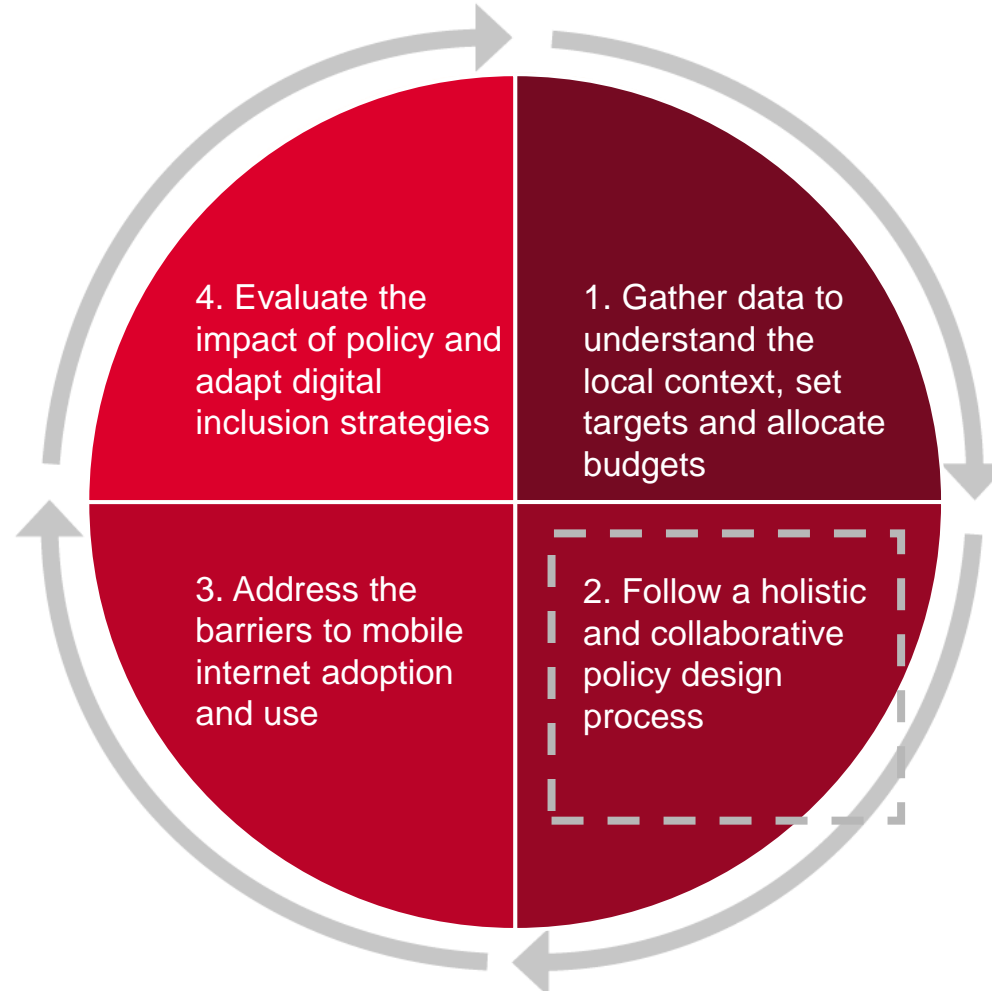
# Group Discussion

1. How does your country perform on the MCI?

(please visit [www.MobileConnectivityIndex.com](http://www.MobileConnectivityIndex.com))

2. How is data and evidence used in policy making in your country?

# Collaborative policy design



# All stakeholders should be involved

- 1** Recognise the cross-cutting nature of digital inclusion and the need to address all barriers through a whole-of-government approach
- 2** Embed public consultations in the policy design process to encourage broad participation of stakeholders and include a formal process of considering contributions
- 3** Create a clear communications plan to inform all parties affected by policy and regulatory changes

# Example: Brazil's multistakeholder governance

## Brazilian Internet Steering Committee

- Proposing strategies, policies and procedures regarding Internet regulation
- Collecting, organizing and disseminating statistics and information related to Internet services and use
- Recommending technical and operational standards for the Internet

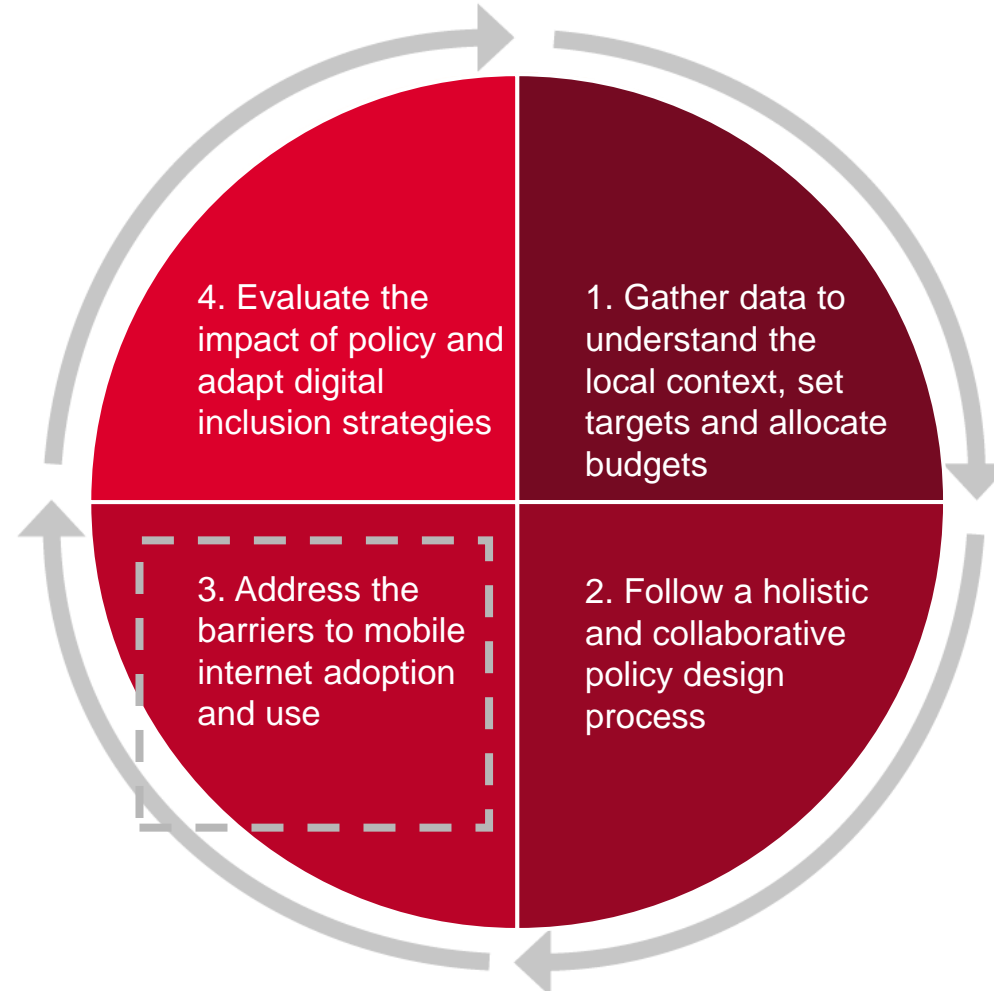


# Break

# 2. Closing the digital divide through government policy

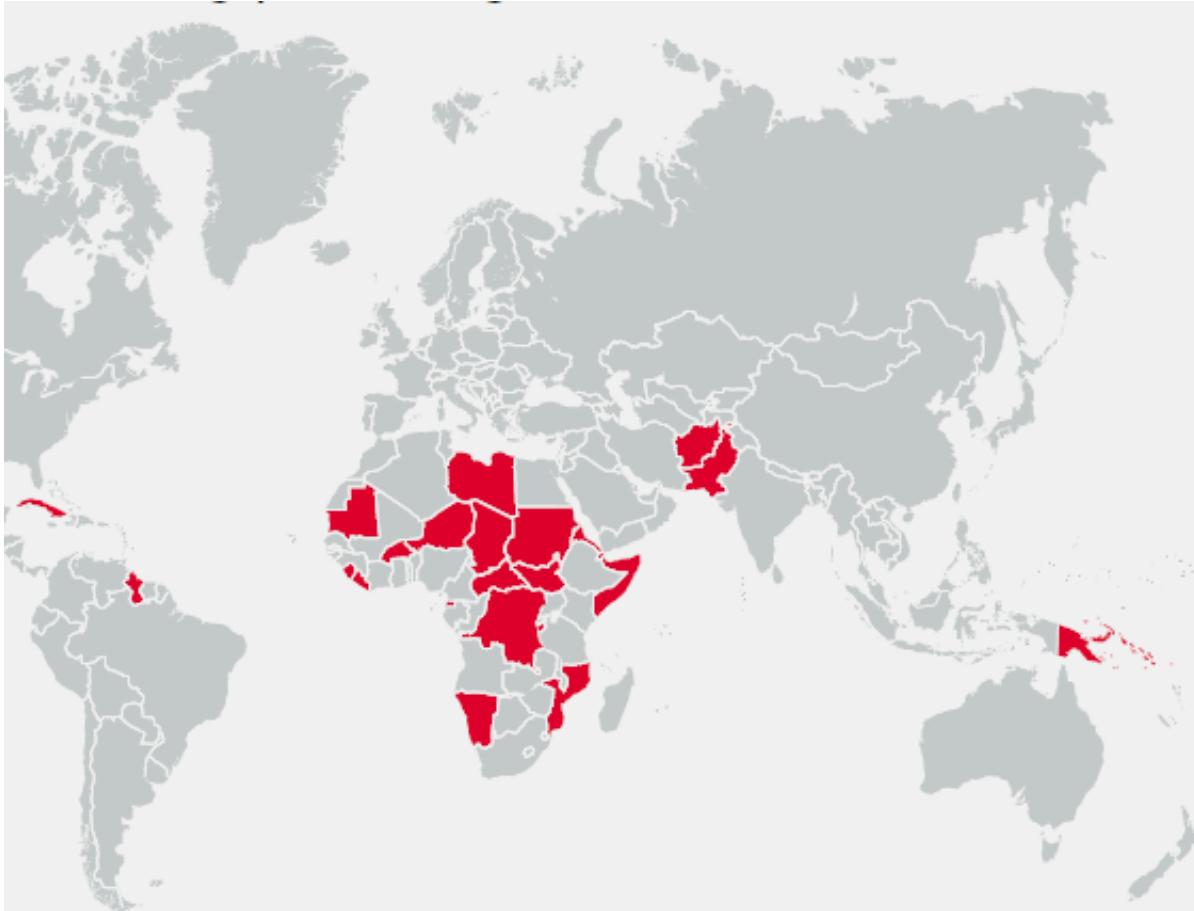
Coverage Gap

# Addressing barriers



# Lack of coverage can still be a challenge

**Geographical spread of countries with a coverage gap of 20% or greater**



In 24 countries, at least 20% of the population are still uncovered (mostly low-income countries).

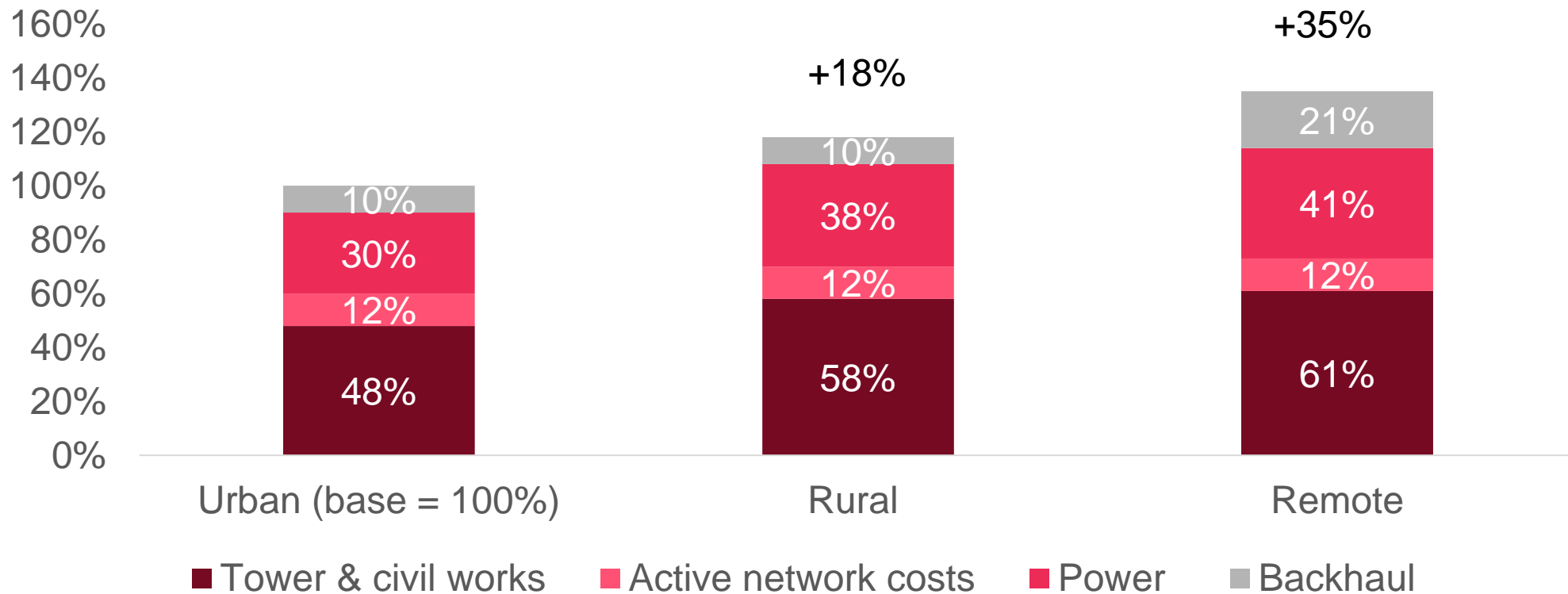
The remaining uncovered communities – which are predominantly rural, poor and sparsely populated – are the most challenging to reach in a financially sustainable manner.

Source: GSMA (2023) *The State of Mobile Internet Connectivity Report 2023*



# Challenge: rural and remote areas most costly

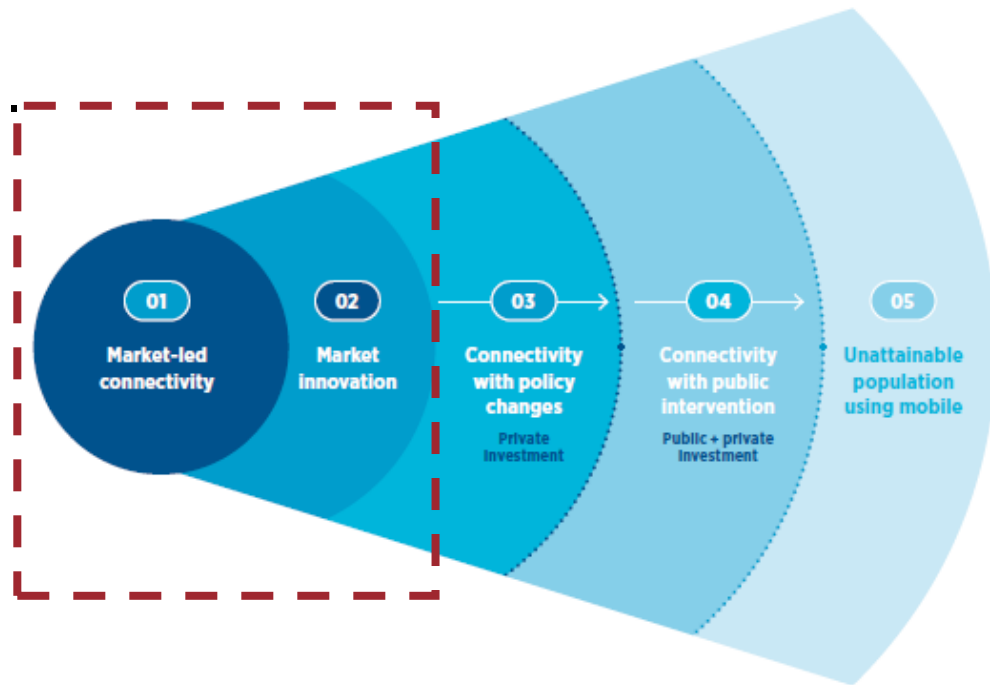
**Annualised cost of mobile coverage sites in rural and remote locations**  
(relative to urban), by major component



All figures are GSMA generalized benchmarks, taken from GSMA intelligence data

# What type of intervention?

## Population coverage by commercial potential



## Type of intervention

**Market-led connectivity:** let market continue delivering connectivity

**Market innovation:** incentivize innovation to allow coverage growth

**Connectivity with policy changes:** areas that can be covered with investment-friendly policy framework

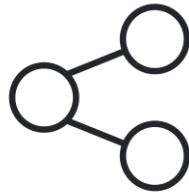
**Connectivity with public intervention:** co-investment and subsidies

**Unattainable population with mobile networks:** facilitate alternative technologies and business models

# The industry has various options to reduce costs



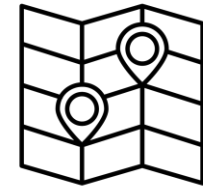
**Decrease  
equipment costs**



**Share  
infrastructure**



**Increase coverage  
per unit**



**Optimise  
coverage per unit**

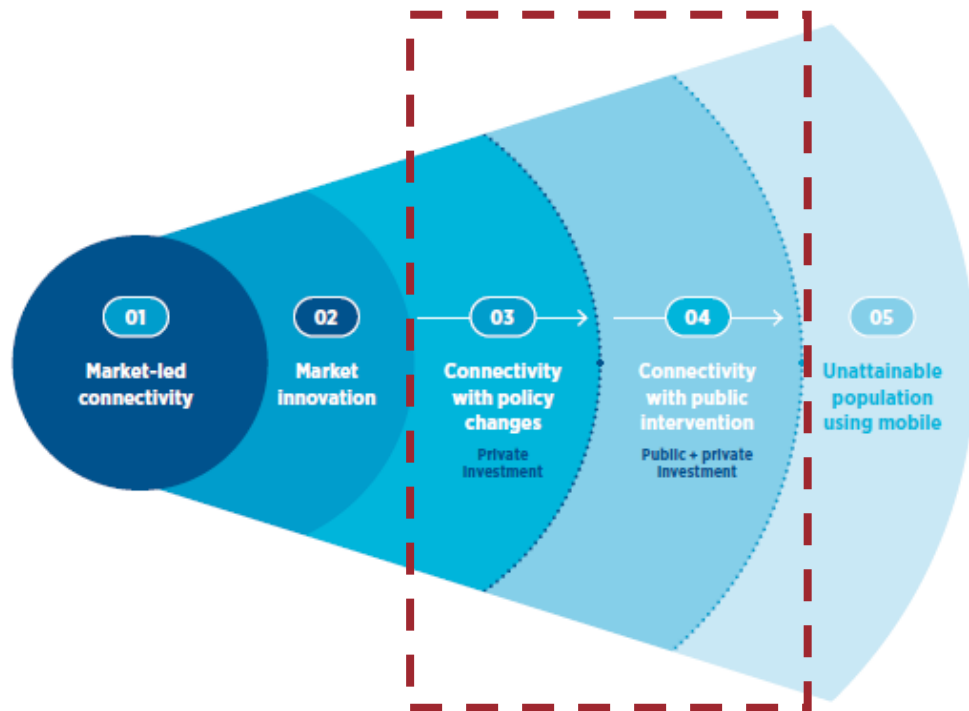
# Example: innovation to expand rural coverage



**An interview with the former CEO of MTN  
Uganda**

# Where should government intervene?

## Population coverage by commercial potential



## Type of intervention

- 1. Market-led connectivity:** let market continue delivering connectivity
- 2. Market innovation:** incentivize innovation to allow coverage growth
- 3. Connectivity with policy changes:** areas that can be covered with investment-friendly policy framework
- 4. Connectivity with public intervention:** co-investment and subsidies
- 5. Unattainable population with mobile networks:** facilitate alternative technologies and business models

# Expanding connectivity with policy changes

Create a comprehensive investment-friendly policy framework

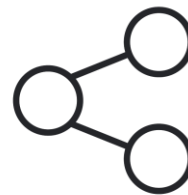
**Spectrum policy**



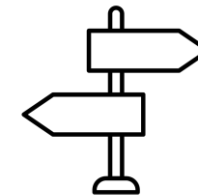
**Reduced red tape**



**Infrastructure sharing**



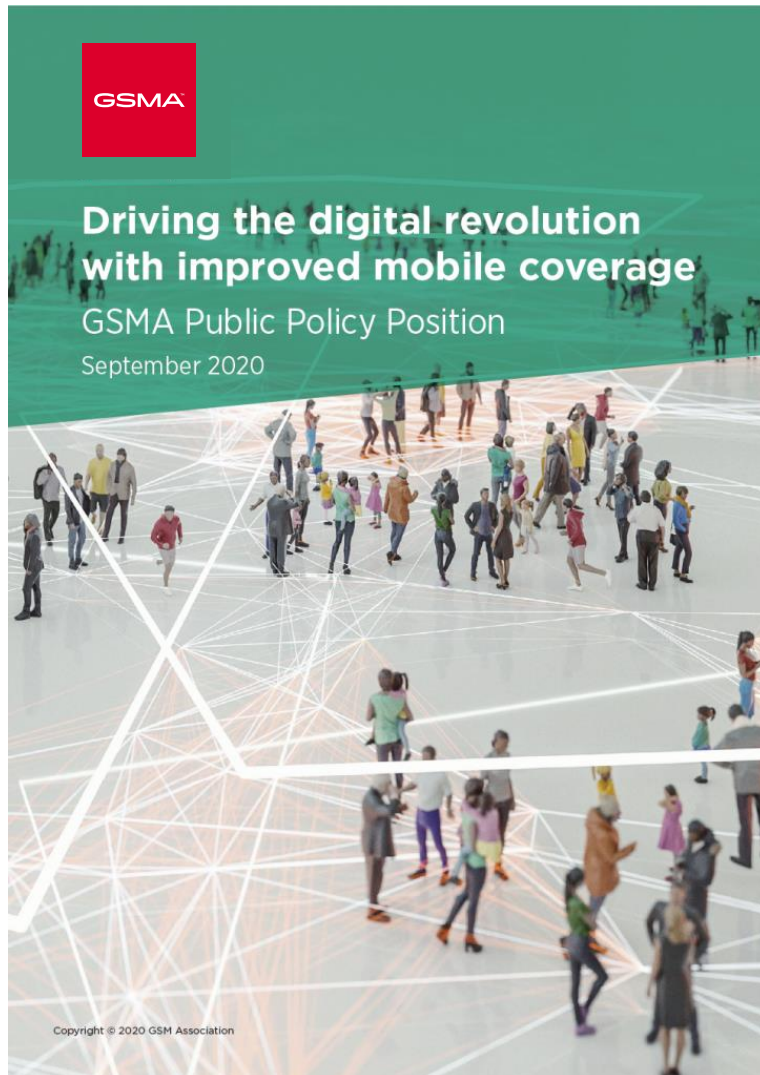
**Competition policy**



**Taxation**



# Key recommendations to help expand coverage



- 1 Provide non-discriminatory and timely access to public infrastructure while simplifying and streamlining the planning approval process for new base stations
- 2 Assign sufficient amounts of mobile spectrum to operators in a timely manner and do not inflate spectrum prices
- 3 Adopt license terms and conditions that encourage network investments and innovation
- 4 Allow infrastructure sharing on a voluntary basis
- 5 Adopt competition policy that supports investment in high quality mobile networks
- 6 Remove mobile sector-specific taxes and fees that impede infrastructure rollout and harm affordability of data



# Expanding connectivity with public intervention

Only consider state intervention to support coverage once all regulatory measures to maximise coverage through market-driven mechanisms have been exhausted

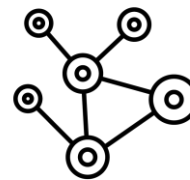
**Coverage obligations**



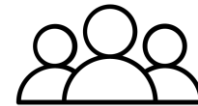
**Universal Service Funds**



**Single-Wholesale Network**



**Community networks**



# Universal Service Funds

## Operational Improvements

- Incentives disbursement
- Evidence-Based Contribution Rates
- Clear and Measurable Targets
- Continuous Stakeholder Consultation
- Data-Driven Project Selection
- Regular Performance Monitoring and Reporting

## Structural Reforms

- Sustainable project costing
- Explore Alternative Funding Mechanisms
- Capacity Building and skills development
- Independent Governance

# Group Discussion

1. Go to [www.MobileConnectivityIndex.com](http://www.MobileConnectivityIndex.com)
  - What is your country's overall score on Infrastructure?
  - What is your country's score on 3G and 4G coverage?
  - How has this score evolved over time?
2. What policy options to expand mobile broadband coverage are being considered or pursued in your country?

# Lunch

# 2. Closing the Mobile Digital Gap through Policy

Usage Gap

# Recap: the usage gap

## Mobile broadband coverage



96%

## Unique mobile internet subscribers



57%

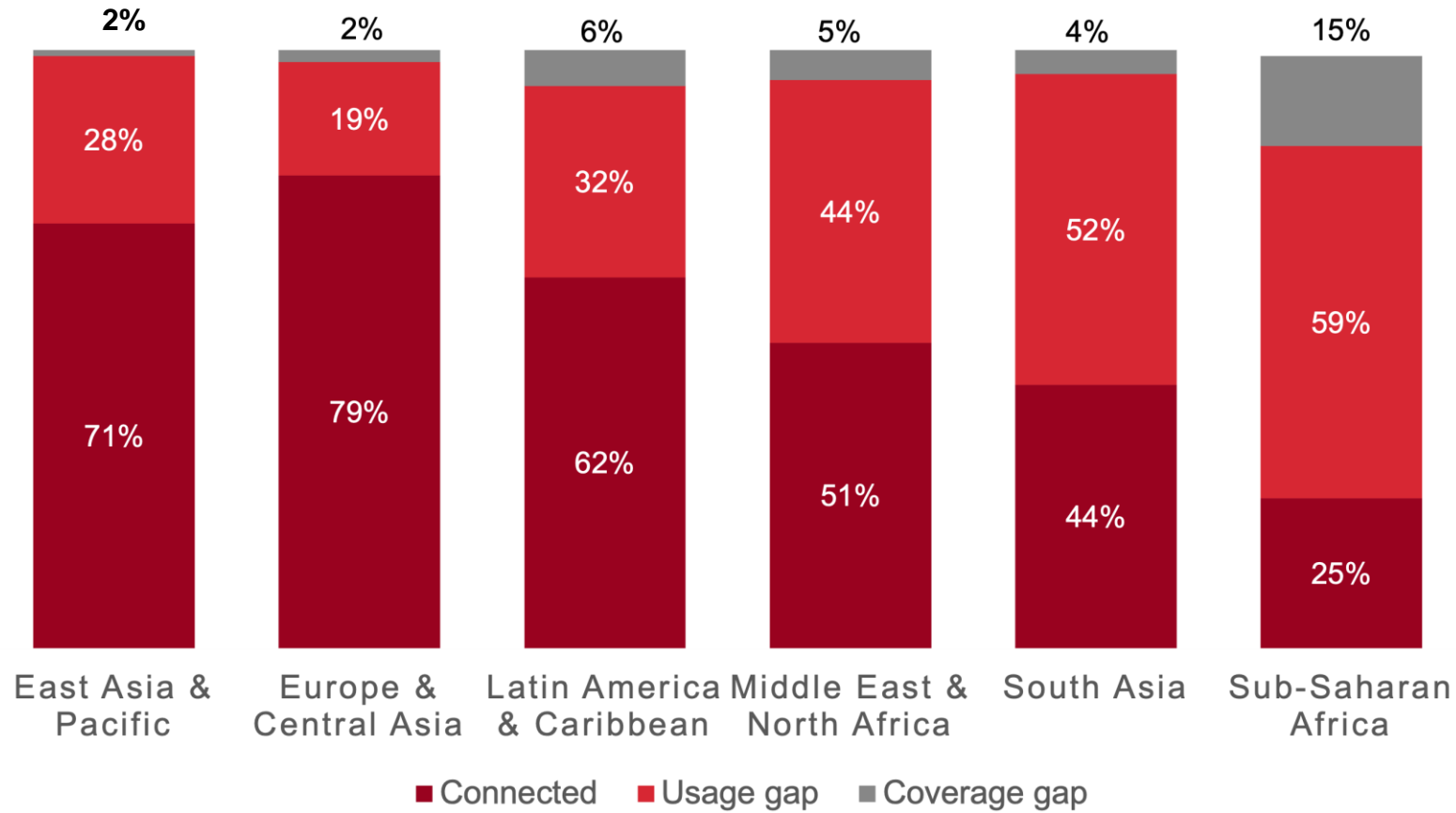
usage gap

**Usage gap:** 39% of the global population do not use mobile internet, despite living in areas already covered by mobile broadband

Source: GSMA (2024) *The State of Mobile Internet Connectivity Report 2024*

# Recap: the usage gap is a challenge in all regions

## Evolution of mobile internet connectivity by region, 2022 (in percentage of the total population)



Source: GSMA (2023) *The State of Mobile Internet Connectivity Report 2023*

Base: Total population, 198 countries.  
Note: Totals may not add up due to rounding.

# Addressing the usage gap also impacts coverage

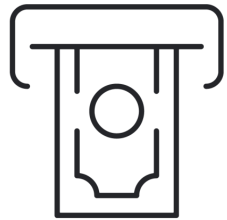


*A joint report with the World Bank showed that if uncovered areas had an expected 4G adoption rate of 40%, mobile operators could sustainably expand 4G coverage to more than 90% of the population*



# The main barriers to mobile internet use

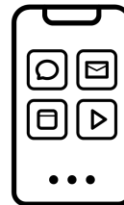
**Affordability**



**Knowledge and  
digital skills**



**Relevance**



**Safety and  
Security**



**Access**



# Policy Exercise

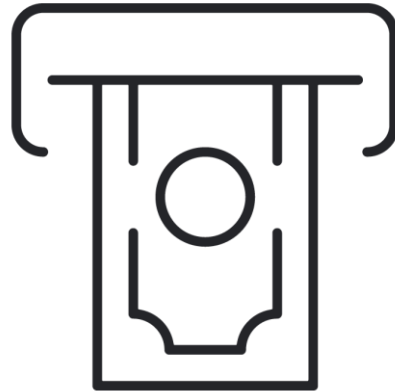
*Refer to your handouts when we get to the chosen barriers. We will be doing the exercise shown in the following slides.*

# Part I: Assessing the policy landscape

## Barrier

<u>Policy action 1</u>	<u>Policy action 2</u>	<u>Policy action 3</u>
<b>Specify the challenge</b> <input type="checkbox"/>	<b>Specify the challenge</b> <input type="checkbox"/>	<b>Specify the challenge</b> <input type="checkbox"/>
<b>Select policy recommendation(s)</b> <input type="checkbox"/>	<b>Select policy recommendation(s)</b> <input type="checkbox"/>	<b>Select policy recommendation(s)</b> <input type="checkbox"/>
<b>List factors to consider</b> <input type="checkbox"/> <input type="checkbox"/>	<b>List factors to consider</b> <input type="checkbox"/> <input type="checkbox"/>	<b>List factors to consider</b> <input type="checkbox"/> <input type="checkbox"/>
<b>Identify relevant stakeholders</b> <input type="checkbox"/> <input type="checkbox"/>	<b>Identify relevant stakeholders</b> <input type="checkbox"/> <input type="checkbox"/>	<b>Identify relevant stakeholders</b> <input type="checkbox"/> <input type="checkbox"/>

# Affordability

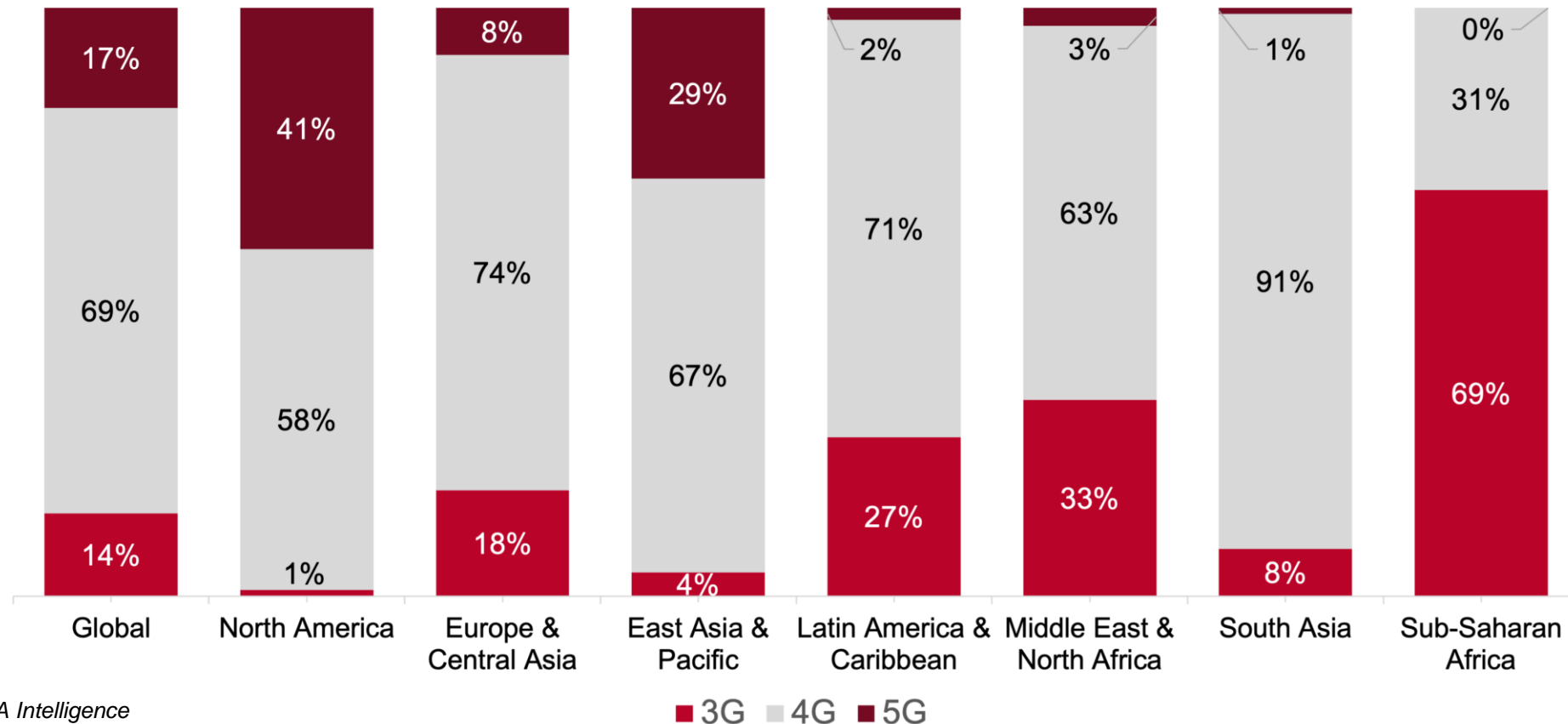


Inability to afford internet-enabled devices, suitable data bundles or other fees

# Handset Affordability: Challenges

## Smartphone ownership grows but remains a challenge

Smartphone ownership of mobile internet users  
(by technology), 2022



Source: GSMA Intelligence

# Handset Affordability: Recommendations

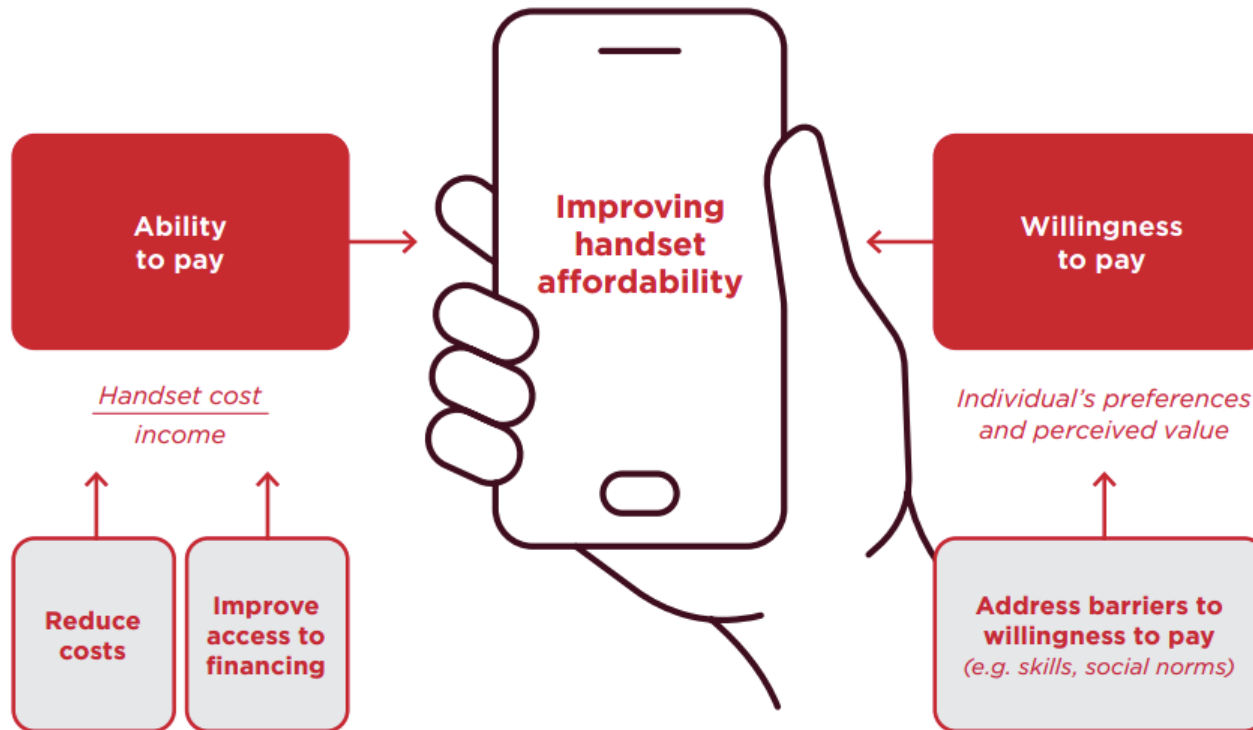
## Reducing costs of ownership

- 1 Remove sector-specific taxes and fees
- 2 Refrain from imposing costly barriers to incentivise local production

## Increasing financing options

- 3 Enable innovative financing mechanisms
- 4 Partner with the industry to provide device subsidies for targeted user groups

# Framework for addressing handset affordability



- Improving handset affordability requires addressing both people's ability and willingness to pay.
- **Ability to pay:** measures to reduce handset costs and those that help to increase access to financing for low-income people.
- **Willingness to pay:** the maximum amount a person is willing to pay for a device and is influenced by factors such as awareness of mobile and its benefits, perceived relevance, digital skills, device features, branding, and social norms.

# Example: device subsidies



## India

Over 13 million women will receive smartphones with 3 years of data



## Rwanda

250,000 people will receive device financing support as part of the Digital Acceleration Project funded by the World Bank



## Malaysia

Rebate system of \$65 for youth to purchase an entry-level smartphone



# Handset subsidy toolkit for policymakers

## Purpose, Resourcing, Evaluation

- Objectives, timeframe, resourcing, stakeholder management, evaluation factors and external factors that could impact the subsidy programme

### Beneficiaries

- Eligibility criteria
- Application process
- Additional support for people to benefit

### Devices

- Technical specifications
- Distribution process
- Apps, data bundle
- e-waste

### Financing Model

- Financing structure
- Subsidy format
- Financing partners
- Funding sources



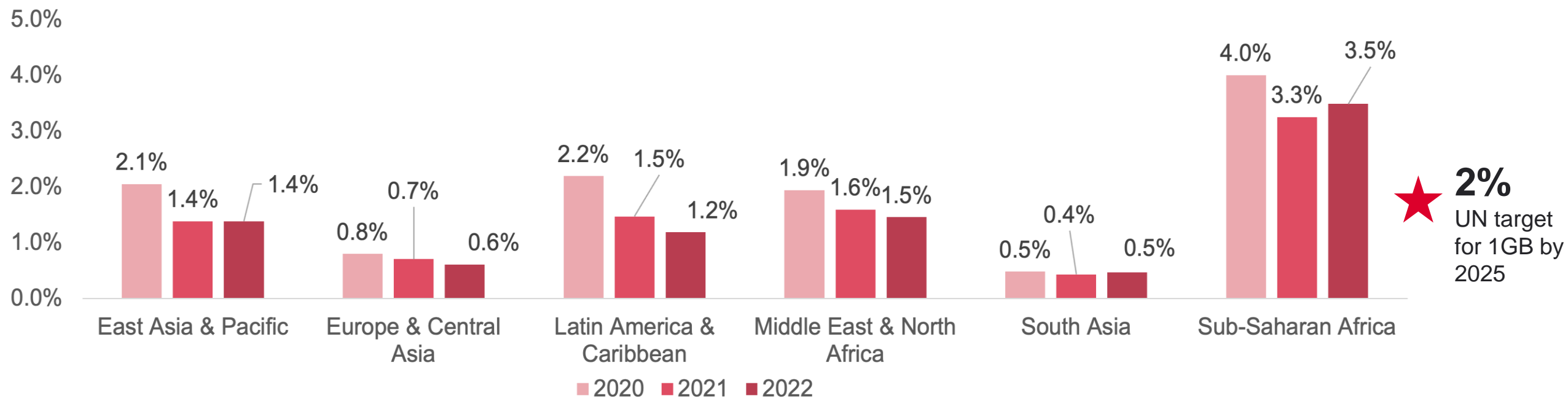
## Sustainability & Risk Mitigation

- Risks to beneficiaries
- Risks to devices
- Risks to financing model
- Risks to overall project

# Data Affordability: Challenges

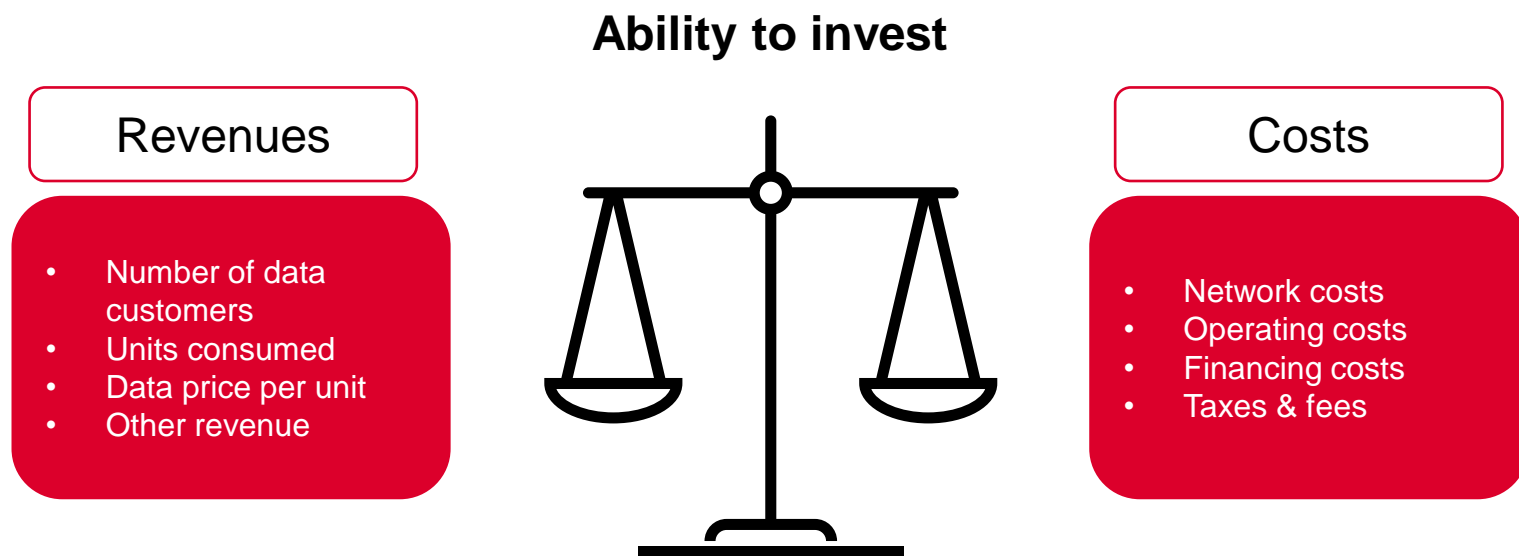
## Affordability of 1 GB of data in LMICs (by region), 2022

(in percentage of monthly GDP per capita)



Source: GSMA (2023) The State of Mobile Internet Connectivity Report 2023

# Mobile operators need to balance their investment needs against costs for coverage expansion and better infrastructure to meet the surging demand for data



In countries where data is least affordable, data prices would have to come down by 80 per cent on average in order to achieve the two per cent affordability target if incomes don't change, highlighting the impact of poverty on affordability

# Data Affordability: Recommendations

## Reducing cost of data

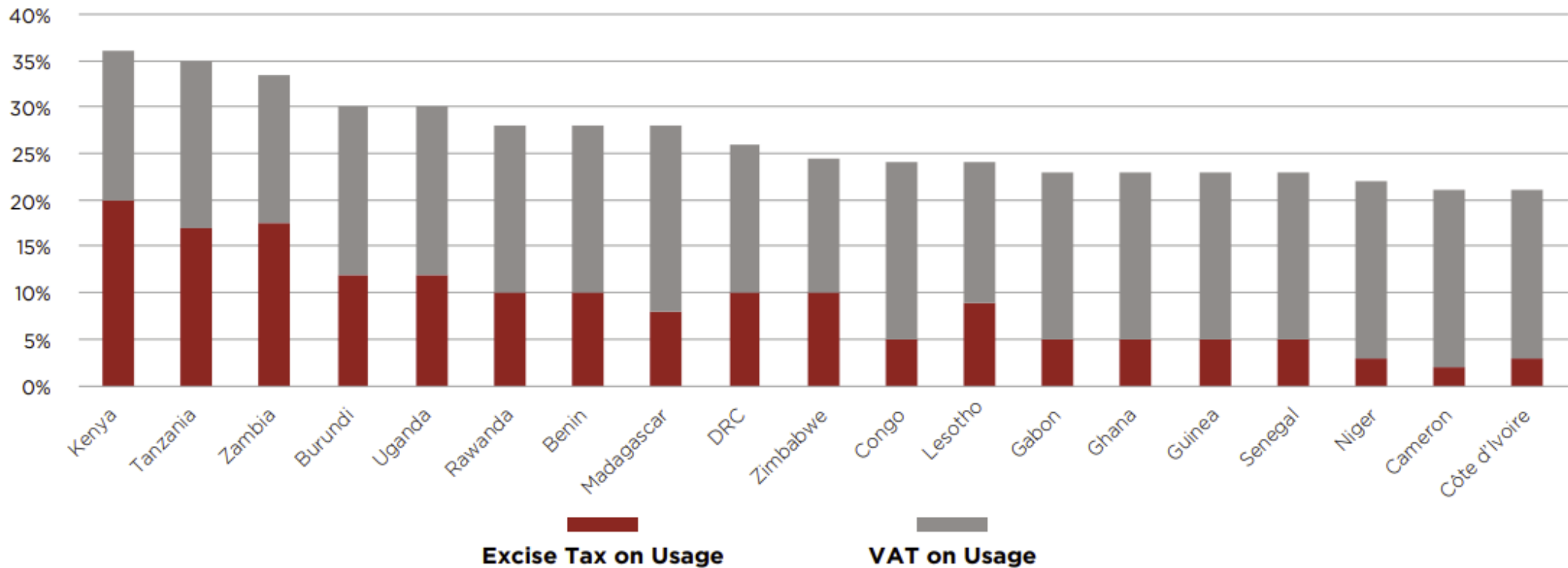
- 1 Create an enabling environment for MNOs to achieve cost efficiencies
- 2 Adopt tax principles that promote the uptake of mobile data services

## Increasing purchasing power

- 3 Enable innovative data pricing strategies and pricing flexibility in competitive markets
- 4 Consider subsidies for targeted underserved user groups

# Taxes on usage of mobile services in Sub-Saharan Africa <sup>68</sup>

COMBINED USAGE TAX RATES IN SELECTED COUNTRIES



Source: GSMA Tax Database. Data for 2021.

# Example

## Barrier: Affordability of devices

### Policy action 1

#### Specify the challenge

- Devices are unaffordable in country X among specific user group (e.g.: rural farmers)

#### Select policy recommendation(s)

- Targeted device subsidy programme

#### List factors to consider

- 
- 

#### Identify relevant stakeholders

- 
-

# Group Discussion

What are the key affordability challenges in your country?

# Knowledge and Skills



People are unaware of mobile internet and its benefits and do not have the necessary skills to use it



# Knowledge and Skills: Challenges

- **Awareness of mobile internet** and its benefits is growing but remains a critical initial barrier to mobile internet adoption in some countries.
- Women and those living in rural areas remain less likely to be aware of mobile internet.
- **A lack of literacy and digital skills** ranked as the second top barrier to mobile internet adoption among mobile users aware of mobile internet but not using it.

**Top categories of barriers to mobile internet use in surveyed countries**  
(among mobile users who are aware of mobile internet but do not use it)

Ranking	All countries
1	Affordability
2	<b>Literacy and digital skills</b>
3	Safety and security

# Knowledge and Skills: Recommendations

- 1 Launch awareness campaigns on the benefits of mobile internet and how to address potential risks
- 2 Invest in training and capacity building initiatives, including through win-win partnerships with the private sector
- 3 Focus digital skills strategies on use cases that help targeted user segments meet their life goals and needs
- 4 Use a comprehensive framework to map digital skills involved in use cases, identify gaps, set targets and measure progress
- 5 Adapt digital skills strategies to local contexts to reflect how most users access the internet, which in LMICs is through a mobile device.

# Take user needs as the starting point for digital skills training



- Mobile internet central to fulfilment of these needs
- Mobile internet plays a role for many in fulfilment of these needs
- Mobile internet plays a role only for some in fulfilment of these needs

# Wheel of needs in Ghana shows different user needs



- Mobile internet central to fulfilment of these needs
- Mobile internet plays a role for many in fulfilment of these needs
- Mobile internet plays a role only for some in fulfilment of these needs

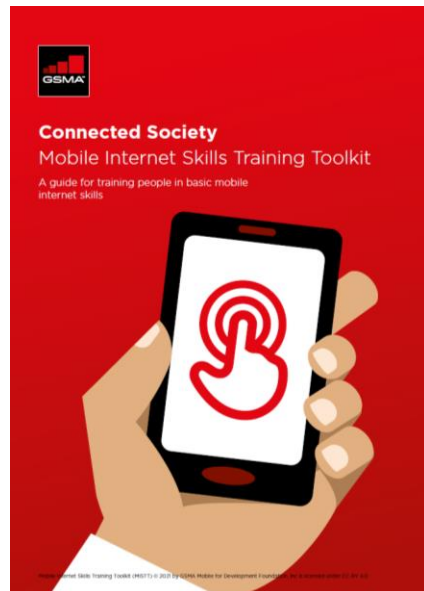
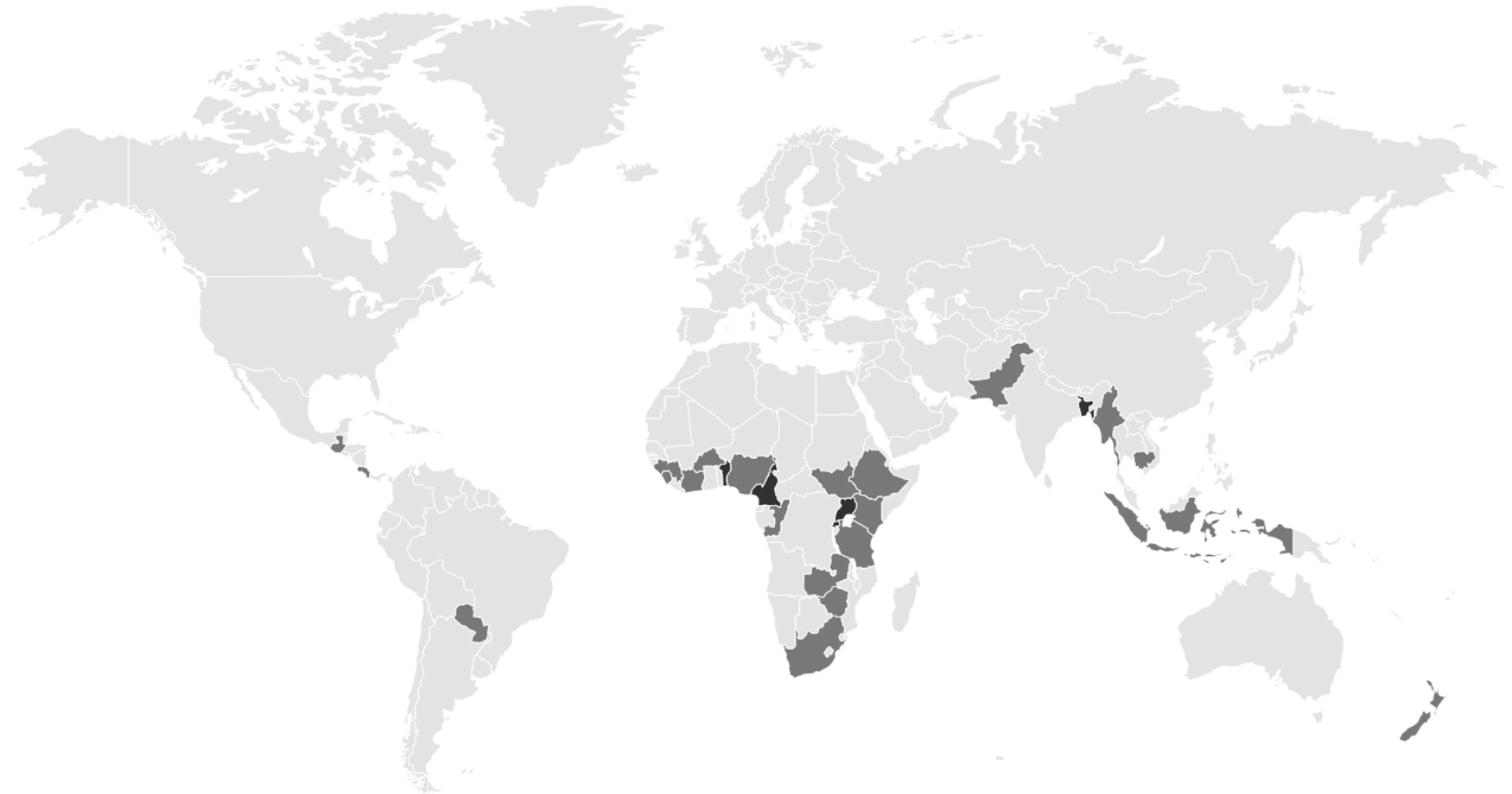
# Example: mapping skills

## Use case: selling a product online

	Entry-level	Experienced	Expert
<b>Set-up and configuration</b>	▶ Set up an account and password with help		
<b>Information management</b>	▶ Find and add friends on social media		
<b>Digital communication</b>	▶ Send messages to existing customers, based on their consent		
<b>Digital content creation</b>	▶ Post a comment or photo of a new product on sale	▶ Create a page or group on social media and use a third-party e-commerce platform	▶ Create a web-shop and presence on different social media platforms
<b>Safety and security</b>	▶ Recognise and block unsolicited messages		
<b>Problem solving</b>	▶ Recover forgotten password		

# The Mobile Internet Skills Training Toolkit (MISTT) is a comprehensive resource for advancing basic mobile digital skills

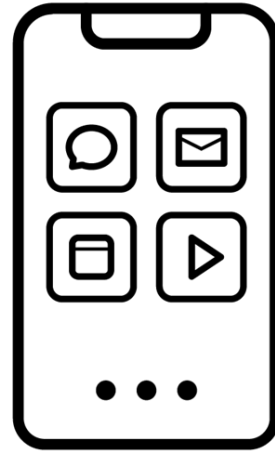
Implemented in more than 40 countries to train 70 million people, the MISTT has proven impact.



# Group Discussion

1. How can the government, private sector and international community collaborate to advance digital skills in your country?

# Relevance



Local digital ecosystems are underdeveloped and there is a lack of content, services and products that meet user needs and capabilities

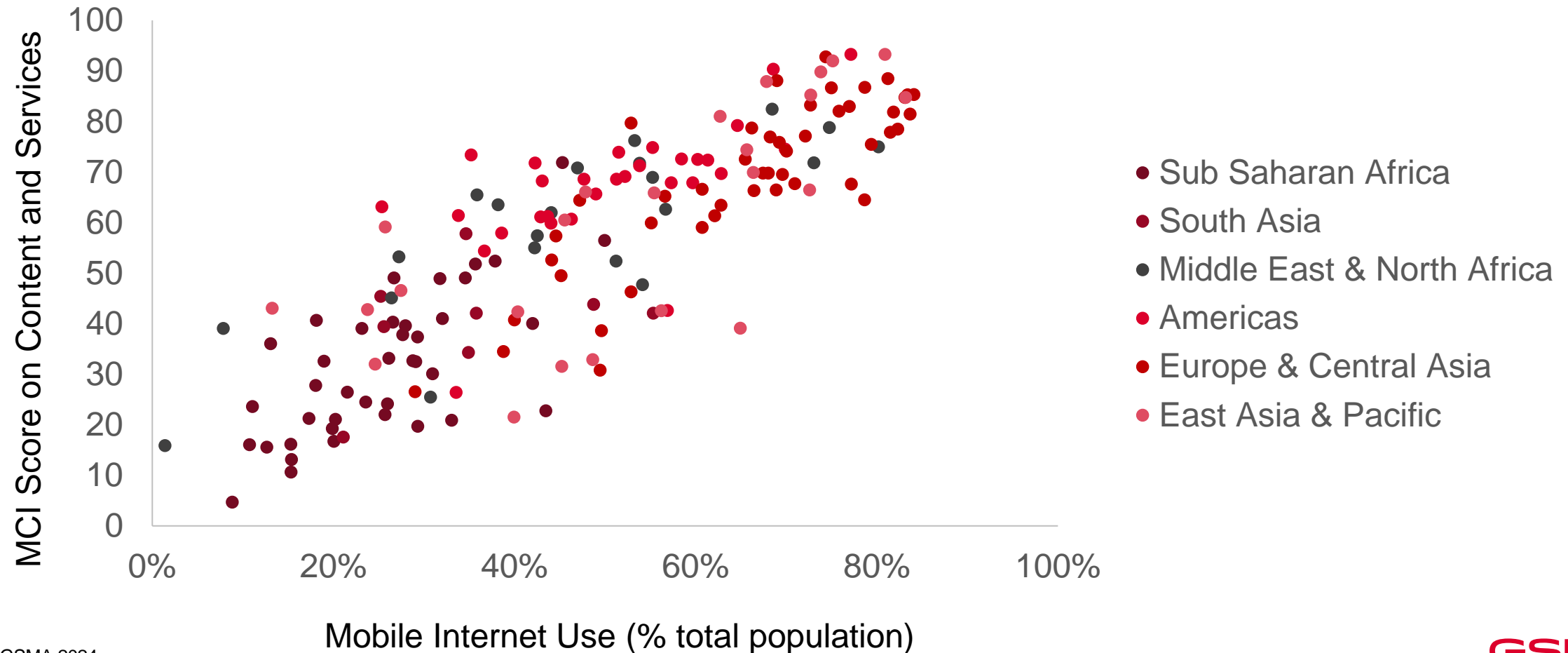


# Relevance: Challenges

## A lack of local relevance can limit adoption

### Correlation between mobile internet use and relevant content and services

(Mobile Connectivity Index 'content & services' enabler and mobile internet subscriptions)

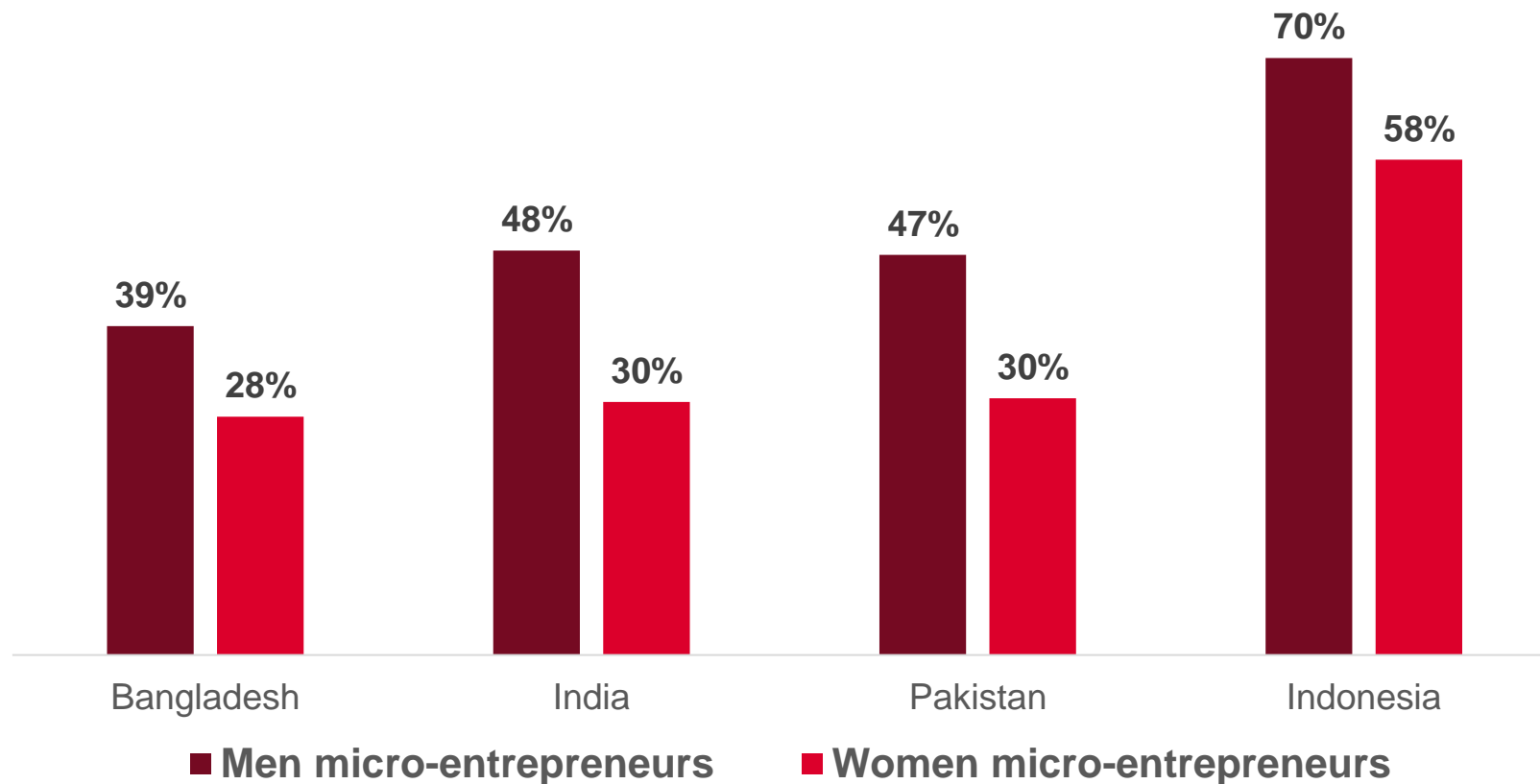


# Relevance: Recommendations

- 1** Create an environment for digital businesses to thrive by ensuring regulation is dynamic, efficient and needs-based
- 2** Assess and benchmark the digital maturity of industries and enable the digital transformation of priority sectors and SMEs
- 3** Facilitate the growth of start-up ecosystems by improving ease of doing business and access to funding, training and professional services
- 4** Accelerate the digitalisation of public services and develop a mobile-first strategy to deliver services that meet user capabilities

# Many businesses also remain offline, especially those run by women

Micro-entrepreneurs who use mobile internet  
% of micro-entrepreneurs surveyed



Source: GSMA (2023) Understanding women micro-entrepreneurs' use of mobile for business

Working Group Report on Connectivity for MSMEs

Making Digital Connectivity  
Work for MSMEs

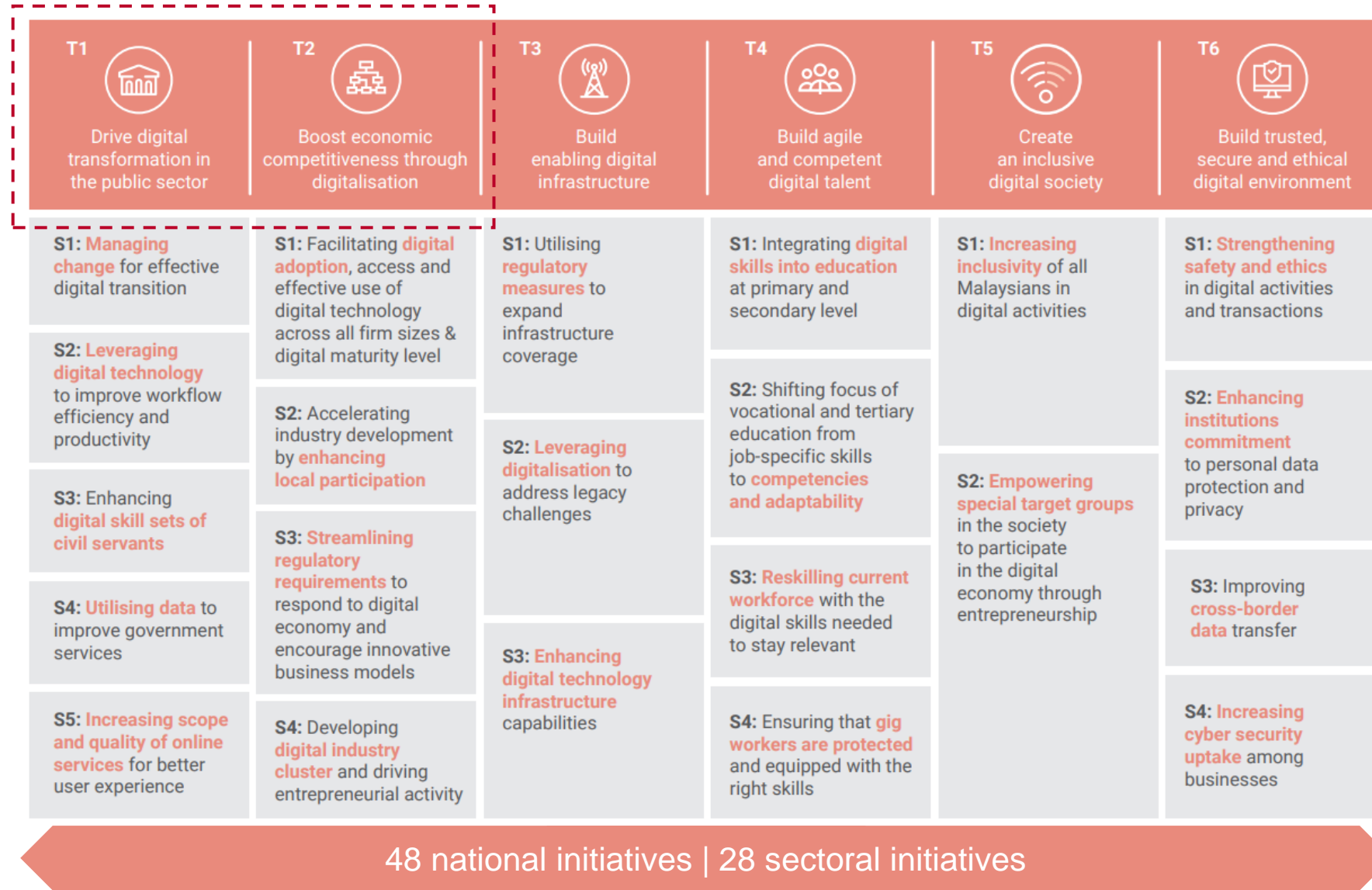
September 2023



BROADBAND COMMISSION  
FOR SUSTAINABLE DEVELOPMENT



# Example: Malaysia Digital Blueprint



# Break

# Group Discussion

1. How are local digital ecosystems supported in your country?
2. What more can be done?

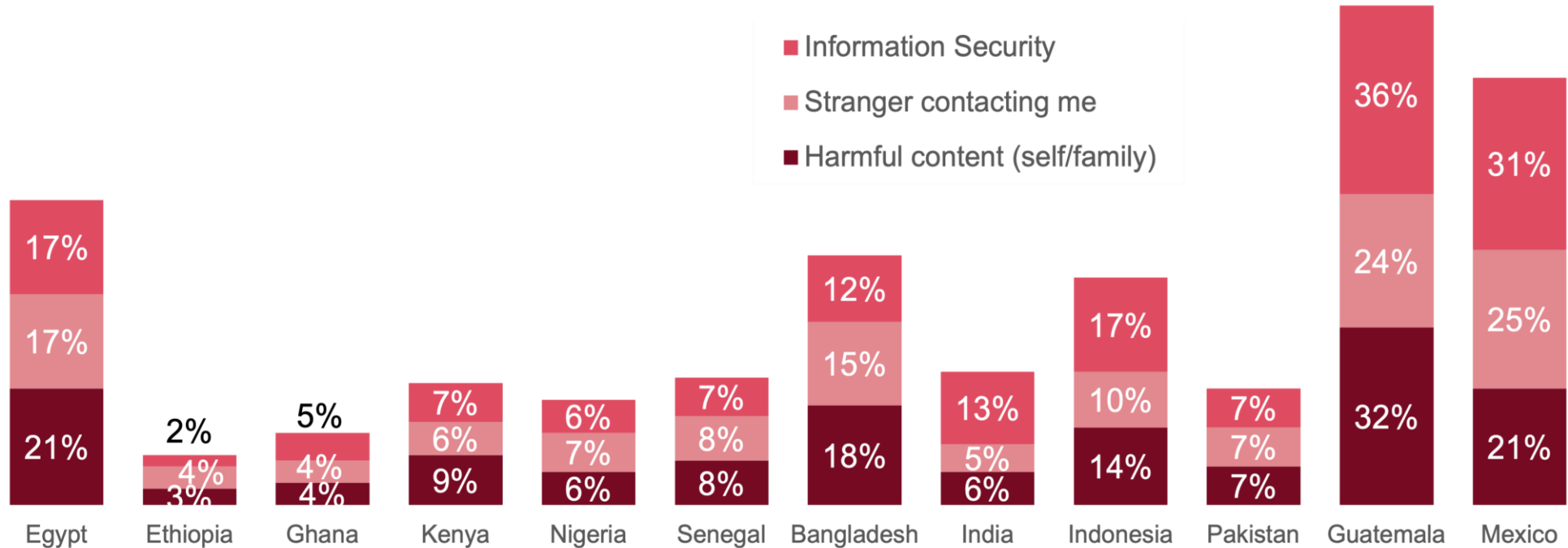
# Safety and Security



Individuals and communities are concerned about the negative aspects and risks of the internet

# Safety and Security: Challenges

Proportion of mobile users aware of mobile internet who report barriers related to safety and security (LMICs, percentage of total population)



**Base:** Adults aged 18+ who have used a mobile phone in the last three months but not used mobile internet in the last three months, despite being aware of mobile internet. n= from 78 to 379

**Note:** Respondents were allowed to select multiple important barriers. The proportion of respondents selecting each barrier as important is therefore not mutually exclusive



# Safety and Security: Recommendations

- 1 Develop policy and legal frameworks that recognize online harassment and make it easy to report online abuse
- 2 Enable children and youth to lead safer digital lives and tackle child sexual abuse
- 3 Implement co-regulatory mechanisms to tackle disinformation
- 4 Implement horizontal data privacy frameworks that protect the fundamental right to privacy while also providing organizations the flexibility to create value accountably and responsibly
- 5 Support individuals to protect personal information and recognise fraud.
- 6 Implement effective strategies to tackle device theft and the trading in counterfeit devices
- 7 Refrain from the use of service restriction orders, such as mandating network or service shutdowns.

# Examples: Tackling online safety risks



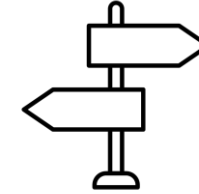
## Harassment



*Example:*  
Reporting mechanisms  
through Cyber Crime Cells in  
Indian cities



## Child Online Safety



## Disinformation



*Example:*  
European and Australian  
Codes of Practice on  
Disinformation

# Group Discussion

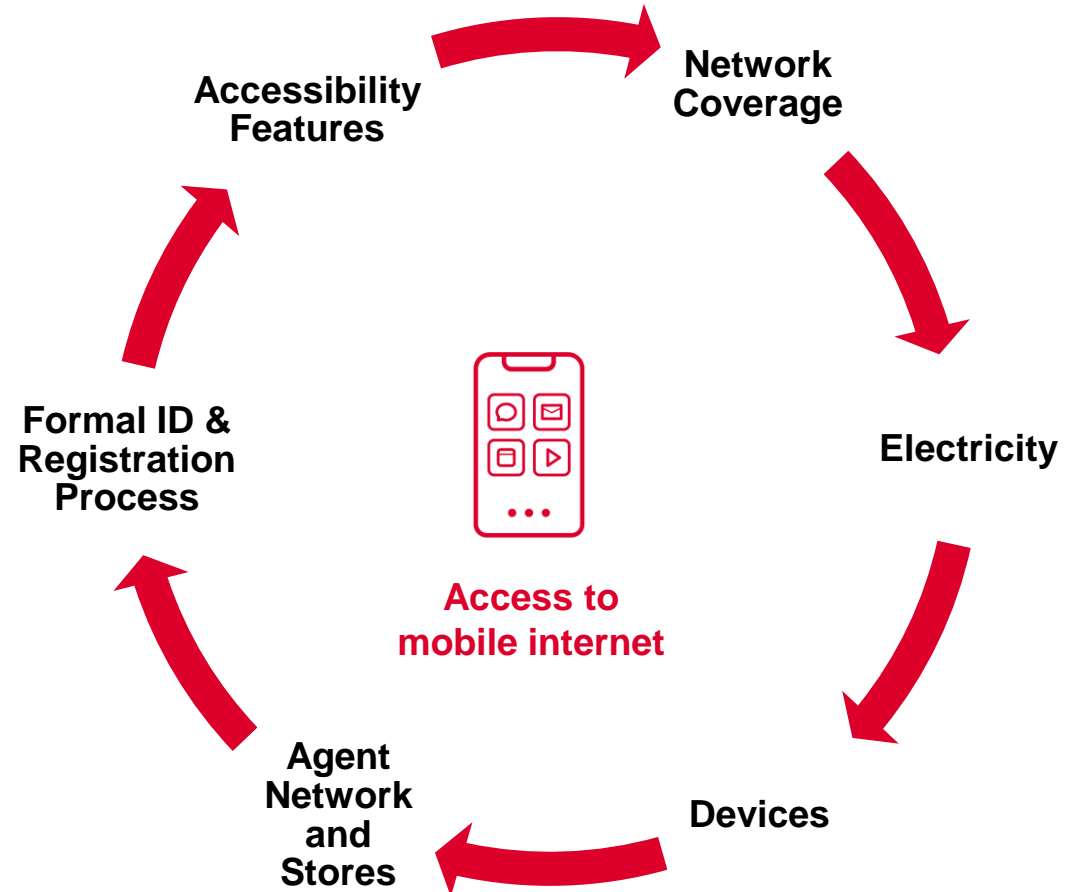
1. What is the biggest perceived risk that policymakers should prioritise in your country?
2. What can be done to address it?

# Access



People do not have access to networks and enablers such as electricity and formal IDs, or devices and services are not accessible enough

# Access: Challenges



# Access: Recommendations

- 1** Adopt investment and innovation-friendly policies to expand mobile broadband coverage
- 2** Improve access to electricity, including through off-grid energy solutions and smart metering technologies that enable PAYG consumption and improve energy efficiency
- 3** Ensure that sales and training facilities are accessible for underserved populations and include a gender and disability perspective in entrepreneurship and SME programmes
- 4** Ensure inclusive and transparent registration processes for mobile and digital services through harmonized consumer protection rules and improved access to formal IDs
- 5** Support the development of simplified product and service designs, as well as accessibility features, for individuals with low literacy and persons with disabilities

# Example: Kenya's National ICT Policy

## Kenya's 2019 National ICT Policy strongly emphasizes access and accessibility

**Mobile first:** The policy stresses the importance of a mobile-first approach to accessing ICT, internet content and digital support.

**Full accessibility:** The government is committed to providing an ICT environment fully accessible to persons with disabilities.

It has committed to take measures such as:

- Ensuring accessibility of ICT services and emergency services for persons with disabilities;
- Collaboratively reviewing existing legislation and regulations to promote ICT accessibility for persons with disabilities;
- Promoting the design, production and distribution of accessible ICTs;
- Requiring public and private entities to render digital content, information and services in accessible and useable formats;
- Ensuring government websites comply with international web accessibility standards;
- Promoting and developing the use of community languages, and other communication formats and technologies accessible to persons with disabilities;

# Breakout Groups

Discuss with your colleagues the factors affecting the chosen policy areas, and who are the relevant stakeholders you assessed should be involved.

*Retain your work for the second part of exercise in the 'Create an Action Plan' section*



# Example

## Barrier: Affordability of devices

### Policy action 1

#### Specify the challenge

- Devices are unaffordable in country X among specific user group (e.g.: rural farmers)

#### Select policy recommendation(s)

- Targeted device subsidy programme

#### List factors to consider

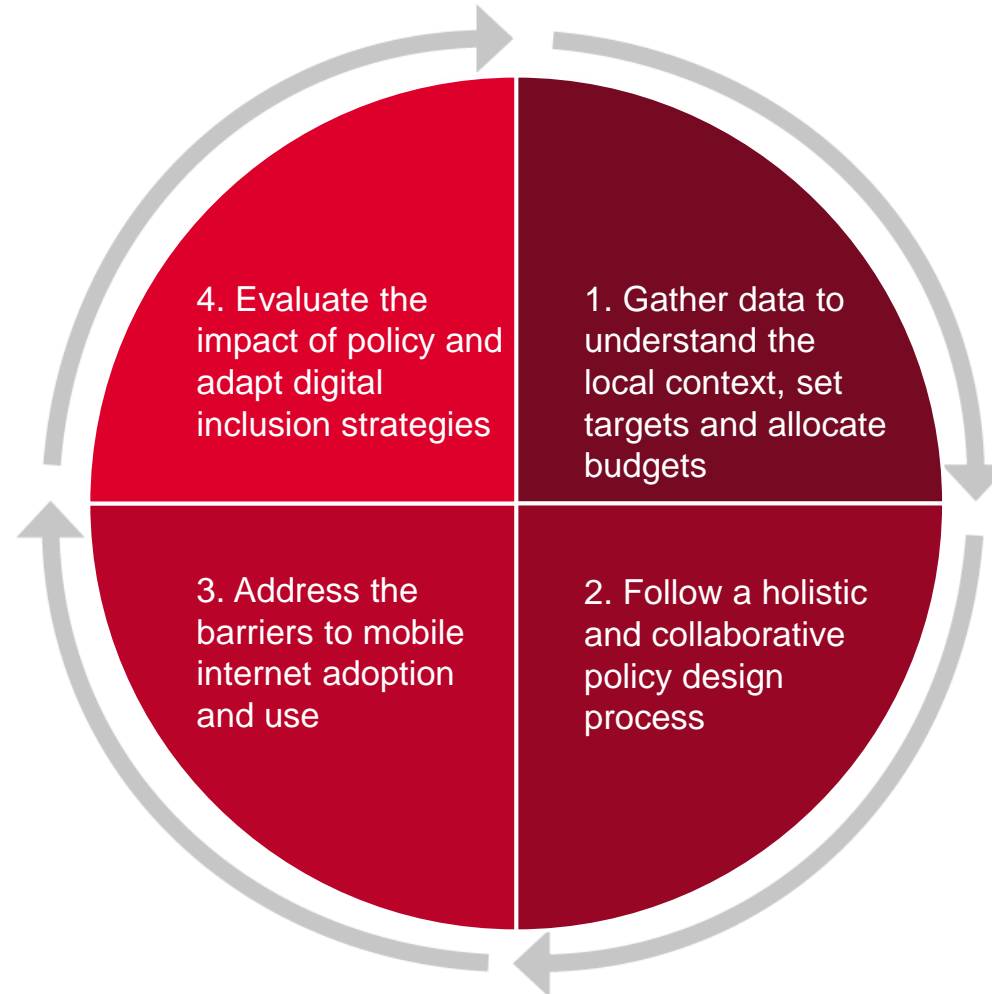
- Budget cycle
- Policy cycle
- Beneficiaries
- Device type

#### Identify relevant stakeholders

- Mobile operators
- USF or regulator

# 3. Creating a Plan of Action

# Recap: a comprehensive framework for action

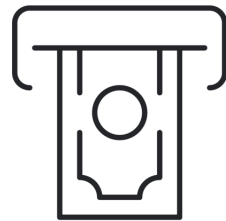


# Recap: the main barriers to mobile internet use

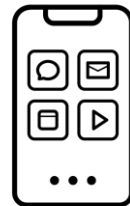
**Knowledge and  
Digital Skills**



**Affordability**



**Relevance**



**Safety and  
security**



**Access**



# Policy Exercise

Taking action

*Refer to the first part of the exercise and the policy landscape you explored*

# Defining an action plan

## Barrier

### Policy action 1



#### Needs for implementation

- 
- 
- 

#### Timeline & next steps

- 
- 
- 

### Policy action 2



#### Needs for implementation

- 
- 
- 

#### Timeline & next steps

- 
- 
- 

### Policy action 3



#### Needs for implementation

- 
- 
- 

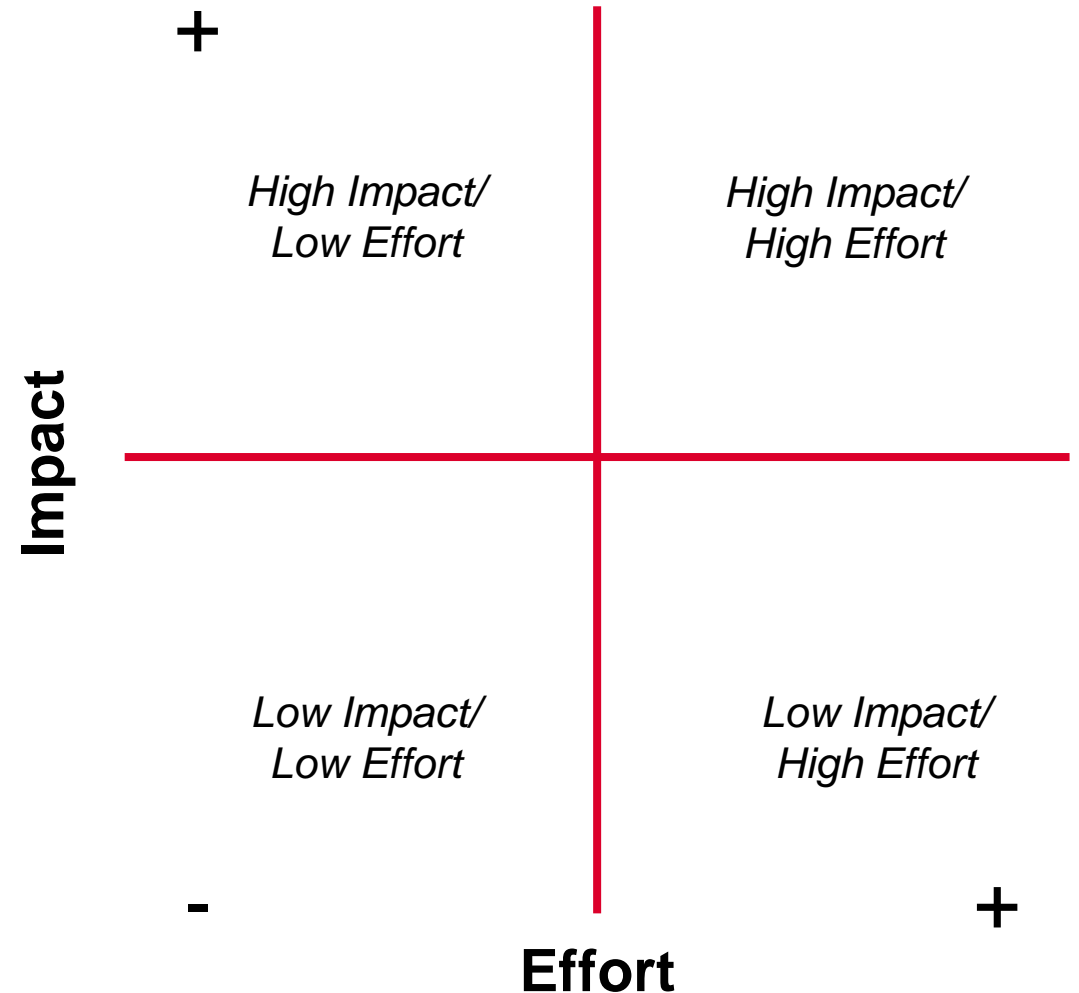
#### Timeline & next steps

- 
- 
-

# Impact and effort matrix can help prioritizing action

Divide your policy actions into quadrants, depending on:

- Their level of impact on priority areas
- The amount of effort required for implementation. (effort being resources such as time and funding)



# Group Discussion

1. What policy actions are quick wins?
2. What visionary policy actions would you pursue if there were no constraints?



# Collaborate with the GSMA



## Data

- Mobile Connectivity Index
- Consumer survey
- GSMAi database (paid)
- State of Mobile Internet Connectivity Report
- Mobile Gender Gap Report



## Policy Expertise

- Drafting policies and input into consultations
- Capacity building courses
  - Gender Gap
  - Mobile Connectivity Index



## Tools

- Mobile Internet training skills toolkit (MISTT)
- Handset subsidy toolkit



## Implementation

- Joint policy review / gap analysis
- Industry-government workshop
- Advisory and technical support



# Reflection

## Looking back on this course:

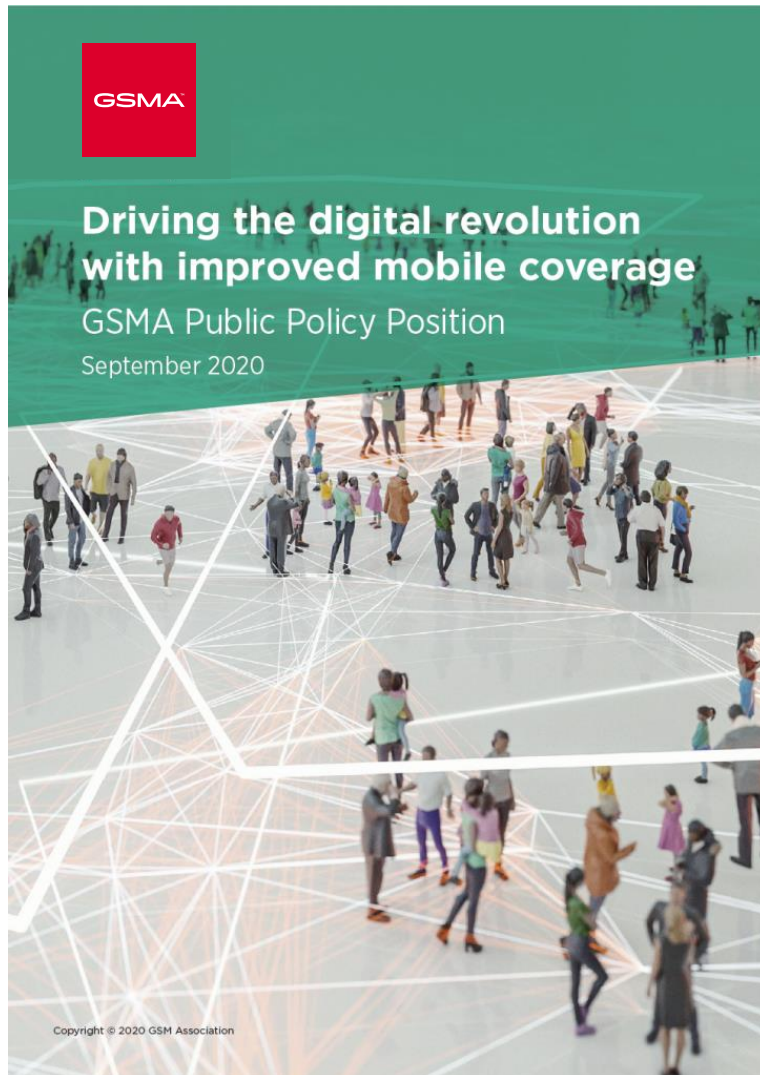
- Was there anything surprising that you learned?
- Has this workshop inspired you to take any specific action?
- Are there areas where you would like additional support from the GSMA?

# Thank you

[abaxter@gsma.com](mailto:abaxter@gsma.com)

# To print

# Recommendations to help expand coverage



- 1 Provide non-discriminatory and timely access to public infrastructure while simplifying and streamlining the planning approval process for new base stations
- 2 Assign sufficient amounts of mobile spectrum to operators in a timely manner and do not inflate spectrum prices
- 3 Adopt license terms and conditions that encourage network investments and innovation
- 4 Allow infrastructure sharing on a voluntary basis
- 5 Adopt competition policy that supports investment in high quality mobile networks
- 6 Remove mobile sector-specific taxes and fees that impede infrastructure rollout and harm affordability of data

# Affordability – Recommendations

## Reducing costs of device ownership

- 1 Remove sector-specific taxes and fees
- 2 Refrain from imposing costly barriers to incentivise local production

## Reducing costs of data

- 1 Create an enabling environment for MNOs to achieve cost efficiencies
- 2 Adopt tax principles that promote the uptake of mobile data services

## Increasing device financing options

- 3 Enable innovative financing mechanisms
- 4 Partner with the industry to provide device subsidies for targeted user groups

## Increasing purchasing power

- 3 Enable innovative data pricing strategies and pricing flexibility in competitive markets
- 4 Consider subsidies for targeted underserved user groups

# Knowledge and Skills – Recommendations

- 1 Launch awareness campaigns on the benefits of mobile internet and how to address potential risks
- 2 Invest in training and capacity building initiatives, including through win-win partnerships with the private sector
- 3 Focus digital skills strategies on use cases that help targeted user segments meet their life goals and needs
- 4 Use a comprehensive framework to map digital skills involved in use cases, identify gaps, set targets and measure progress
- 5 Incorporate digital skills development in education policies at all levels and provide students with access to suitable devices to learn

# Relevance – Recommendations

- 1** Create an environment for digital businesses to thrive by ensuring regulation is dynamic, efficient and needs-based
- 2** Assess and benchmark the digital maturity of industries and enable the digital transformation of priority sectors and SMEs
- 3** Facilitate the growth of start-up ecosystems by improving ease of doing business and access to funding, training and professional services
- 4** Accelerate the digitalisation of public services and develop a mobile-first strategy to deliver services that meet user capabilities



# Safety and Security – Recommendations

- 1 Develop policy and legal frameworks that recognize online harassment and make it easy to report online abuse
- 2 Enable children and youth to lead safer digital lives and tackle child sexual abuse
- 3 Implement co-regulatory mechanisms to tackle disinformation
- 4 Implement horizontal data privacy frameworks that protect the fundamental right to privacy while also providing organizations the flexibility to create value accountably and responsibly
- 5 Implement effective strategies to tackle device theft and the trading in counterfeit devices

# Access – Recommendations

- 1 Adopt investment and innovation-friendly policies to expand mobile broadband coverage
- 2 Improve access to electricity, including through off-grid energy solutions and smart metering technologies that enable PAYG consumption and improve energy efficiency
- 3 Ensure that sales and training facilities are accessible for underserved populations and include a gender and disability perspective in entrepreneurship and SME programmes
- 4 Ensure inclusive and transparent registration processes for mobile and digital services through harmonized consumer protection rules and improved access to formal IDs
- 5 Support the development of simplified product and service designs, as well as accessibility features, for individuals with low literacy and persons with disabilities