

**Regional Workshop on Promoting and Measuring Universal and Meaningful
Connectivity**

Nassau, Bahamas, 11-13 June 2024

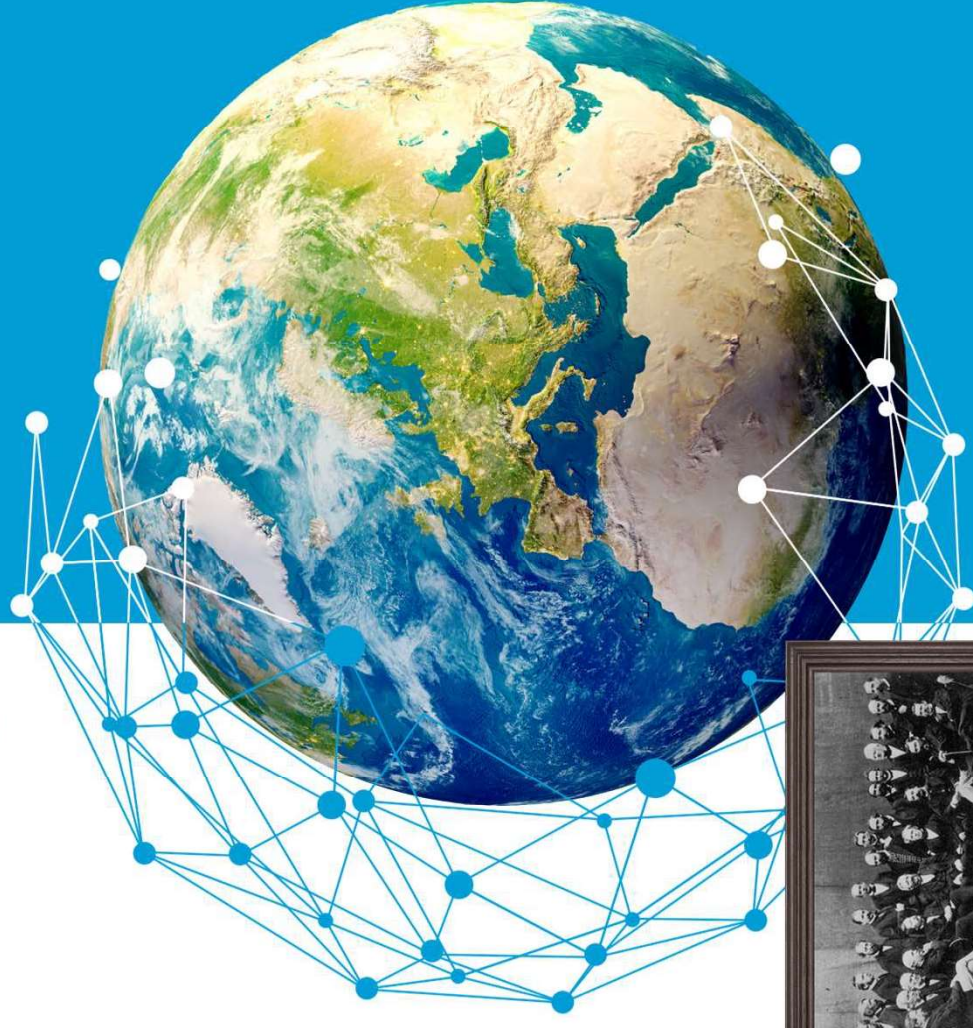
Overview of ITU's work on statistics

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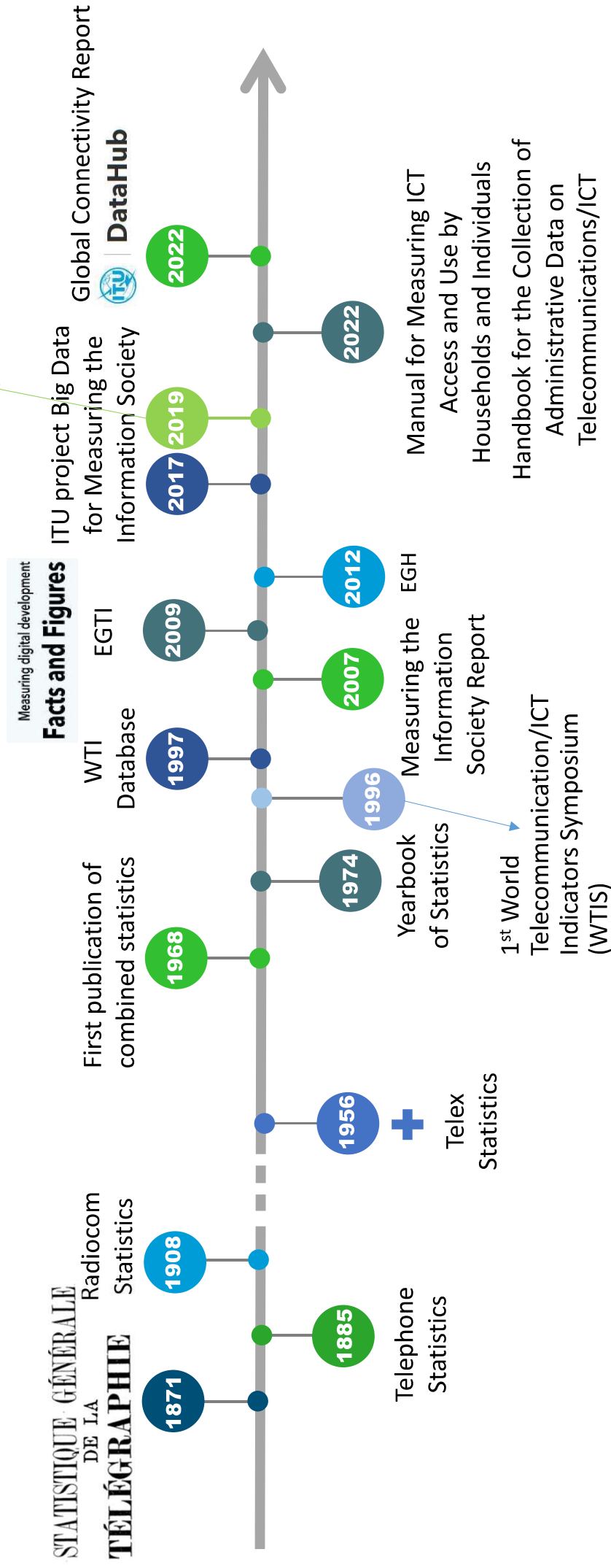
About the ITU

- ITU is the United Nations specialized agency for information & communication technologies (ICTs)
- Oldest agency in the UN family:
 - Established in 1865
 - Connecting the world since the dawn of the telegraph
 - Headquartered in Geneva, Switzerland
(Regional and Area offices on all continents)
- 3 Main activities:
 - Radiocommunication
 - Telecommunication Standardization
 - Telecommunication Development



History of ICT statistics at ITU

Measuring Digital Development series



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The leader in global ICT statistics

ITU-D's ICT Data and Analytics Division (IDA) leads the global ICT statistics agenda. It collects and disseminates vital information and carries out world-class research to support evidence-based decision making towards universal and meaningful connectivity and sustained digital transformation.

Collecting data

ITU develops new indicators, sets international standards for their computation and collection, and promotes adoption.

We collect, compile and maintain statistics for 200+ economies.

Our data science practice harnesses the power of big data to develop a new generation of statistics.

Building capacity

ITU develops the statistical capacity of Members, through workshops, trainings, webinars, online courses, technical publications, and technical assistance.

Making sense

ITU monitors the state of digital development, analyses its drivers and on economies and societies, identifies good practices and solutions.

Reaching out

ITU disseminates data and research through various channels, and is strengthening its digital presence.

Working together

ITU is active within the UN system and beyond in advancing the statistics agenda.

ITU is involved in several partnerships, leveraging synergies and complementarities and maximize impact.



ICT Data Cycle: behind the scenes



Definition

The set of indicators to be collected is defined and periodically updated through the expert groups (EGTI and EGH)



Collection

Data request through questionnaires from National Statistics Offices and Government Agencies in charge of telecommunications/ICT (Ministry, Regulator Authority).



Validation

ITU validates the consistency of the data received and clarifies with the statistical focal points, (applying statistical techniques, expertise and sectoral knowledge)



Compilation

Harmonize at country level and aggregate at regional or global levels.



Analysis

Analyse evidence and monitor the evolution of digital development



Dissemination

Results published via digital channels and reports:
ITU DataHub, Digital Development Dashboard, Facts and Figures, Global Connectivity Report.



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ICT Data Collection - Sources

UNCTAD
ICT use by
businesses
surveys

UNCTAD

[Telecom Regulation, Tariff policies]

Supply-side data



Administrative data from telecom operators
Source: **Regulators/Ministries**
ICT Price Basket
(Source: **Regulators/Ministries & operators' website**)

 | **DataHub**
ITU ICT Statistics

Demand-side data



ICT surveys
(annual questionnaires)
Source: **National Statistical Offices**



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Source of ICT statistics matter



ICT Statistics	Supply side	Demand side
Type of data	Administrative records of Mobile phone operators and Internet service providers, and network operators (e.g., subscriptions, coverage, traffic from call data records, network monitoring parameters)	Household ICT surveys (exceptionally: other omnibus surveys, or censuses) (e.g., Did you use the Internet in the last 3 months?)
Initial data processing and aggregation	Operators collect and aggregate data real time or make periodic reports;	National Statistical Offices ensure representativeness
Frequency	Operators report to ICT ministries or regulatory authorities quarterly or annually	surveys carried out less frequently (every 2-years at best)
Data availability limitations	Capacity; legal restrictions or licensing requirements for reporting	Costs and capacity => coverage is lower
Main use	Statistics on infrastructure, access, on use	Statistics on use (services, devices), barriers, skills, etc.



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Data Collection: Timeliness

- Admin data frequent; ITU questionnaires refer to situation in year $t-1$ (or situation on 31 Dec); Lag time due to data processing by operators and ISPs, and by regulators (or NSOs);
- Household surveys conducted less frequently (every 2-10 years, if at all); ITU estimates missing data
- ICT Prices: short data collection window (May/June of year t) + complemented by desk research: lag due to long validation process.

ITU questionnaire schedule 2023				Publication in ITU DataHub:
Questionnaire	Timing	Recipients		
World Telecommunication/ICT Indicators Short Questionnaire	25 March 2024	Ministries/Regulators		31-Jul-24
Household Short Questionnaire	25 March 2024	National Statistical Offices		31-Jul-24
ICT Price Basket questionnaire	15 May 2024	Ministries/Regulators		31-Mar-25
Household Long Questionnaire	16 Sept 2024	National Statistical Offices		31-Jan-25
World Telecommunication/ICT Indicators Long Questionnaire	16 Sept 2024	Ministries/Regulators		31-Jan-25

<https://www.itu.int/en/ITU-D/Statistics/Pages/datacollection/default.aspx#questionnaires>

Dissemination: the ITU DataHub



About ITU Radiocommunication Standardization Development

Data explorer Indicator catalogue Data query About Login

Select an indicator or dashboard → Select an economy → Select a comparison →

The world's richest source of ICT statistics and regulatory information

Track the digital transformation with the ITU DataHub, featuring hundreds of ICT indicators on connectivity, markets, affordability, trust, governance, and sustainability. Find, compare, and download data for nearly 200 economies.

Switzerland

Data displayed based on your location

Connectivity



About ITU Radiocommunication Standardization Development

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Individuals using the Internet

Select an economy ×

Select a comparison →

World

Individuals using the Internet

Connectivity Use

Refers to the proportion of individuals who used the Internet from any location in the last three months. Access can be via a fixed or mobile network.

Overview Location Age Gender



Unit: % ↓ Download ↓

% 2022

0.0 | 100.0

2022

— World

Source: ITU

Selected Economies

Economy	Trend	Value	Year
World		66%	2022

Regions and Groups

Economy ↓	Trend	Value	Year
Africa		40%	2022
Arab States		70%	2022
Asia & Pacific		64%	2022
CIS		84%	2022
Europe		90%	2022
Land Locked Developing Countries (LLDC)		36%	2022
Least Developed Countries (LDC)		36%	2022
Small Island Developing States (SIDS)		66%	2022

Show available data only



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Global Gateway

Visit <https://datahub.itu.int>

ITU Data Collection: Methodological References



SUPPLY SIDE

Administrative data on telecom/ICT

Covers harmonized indicators for fixed and mobile networks, Internet, bundles, traffic, employment, revenue and investment, broadcasting, QoS



DEMAND SIDE

ICT Service prices

Definition of ICT price baskets to make retail prices for mobile-cellular and fixed-broadband services globally comparable.



Data on household access to, and individual use of, ICTs

A comprehensive manual on methodologies for conducting ICT surveys for households and individuals (from planning and coordination to standards, collection techniques, sampling, quality assurance, etc.), including core list of indicators and model questionnaires

- Jointly developed; provide basis for data collection and validation
- Freely available in 6 languages



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<https://www.itu.int/en/ITU-D/Statistics/Pages/publications/handbook.aspx>

Expert Group on Telecommunication/ICT indicators (EGTI)

- Launched in 2009, following a decision by the 7th World Telecommunication/ICT Indicators Meeting (2009, Egypt)
- Main objectives: revision of the telecommunication/ICT indicators and of the ITU Handbook on telecommunication/ICT indicators
- Open to all ITU members and experts in the field of ICT statistics and data collection
- Works through an online forum
- Meets once a year and reports back to the World Telecommunication/ICT Indicators Symposium (WTIS)
- Register at: <http://www.itu.int/net4/ITU-D/ExpertGroup/default.asp>

Expert Group on ICT Household Indicators (EGH)

- Launched in May 2012, following a decision by the 9th World Telecommunication/ICT Indicators Meeting (7-9 December 2011, Mauritius)
- Main objectives: revision of the household core ICT indicators and of the ITU Manual for Measuring ICT Access and Use by Households and Individuals
- Open to all ITU members and experts in the field of ICT statistics and data collection
- Works through an online forum
- Meets once a year and reports back to the World Telecommunication/ICT Indicators Symposium (WTIS)
- Register at: <http://www.itu.int/net4/ITU-D/forum/expertgrouponhouseholds/forum>

World Telecommunication/ICT Indicators Symposium (WTIS)

- 23-24 September 2024, Geneva, Switzerland
- Back to back with EGTI/EGH
- Main global event on ICT measurement – bringing together the ICT policy and ICT data community
- Presentation of the work of the statistical Expert Groups (EGH/EGTI)
- Forward looking measurement agenda



Capacity development

- Training course on ICT household surveys and indicators (based on Household Manual)
- Training on telecommunication/ICT infrastructure indicators and data collection
- Regional and national workshops
- In collaboration with members of the Partnership (e.g. UNCTAD, UN Regional Commissions)



International cooperation

- Partnership on Measuring ICT for Development
- UN Group on the Information Society (UNGIS); WSIS+10
- Inter-agency Expert Group on Sustainable Development Goal Indicators (IAEG-SDGs)
- UN Statistical Commission
- UN Data Managers group
- Broadband Commission for Digital Development



Partnership on Measuring ICT for Development

- Global initiative to improve availability and quality of internationally comparable ICT statistics
- Main mechanism for the [coordination of ICT statistics internationally](#)
- Members: 14 international and regional agencies involved in official ICT statistics
- Steering Committee (2023-2025): ITU, UNCTAD, and UN DESA
- Guidance for policy makers



**PARTNERSHIP ON
MEASURING ICT
FOR DEVELOPMENT**



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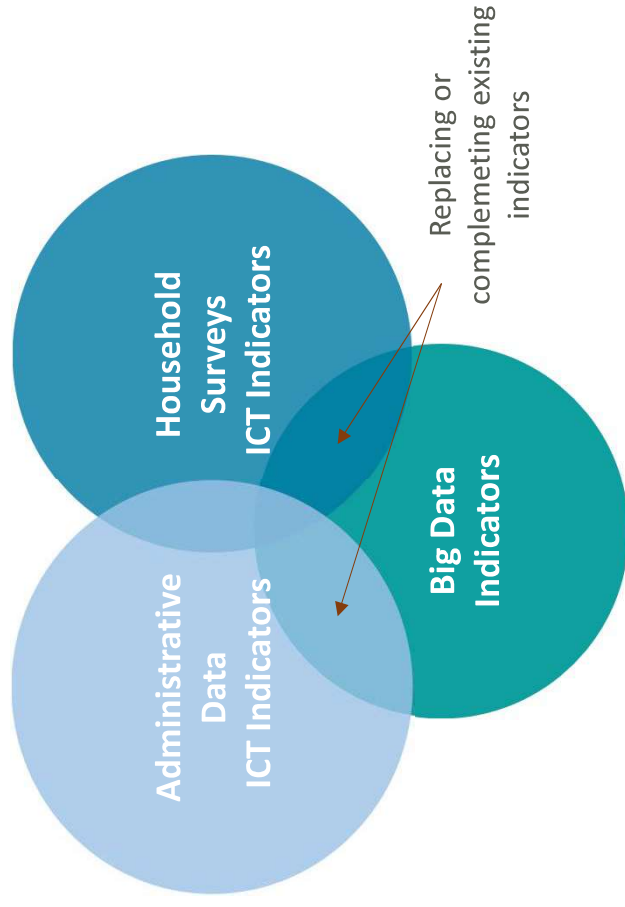


Data analysis and research reports



Big Data for Measuring the Information Society

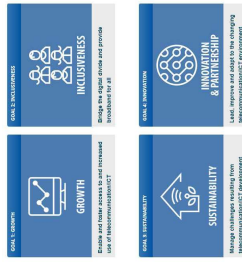
- “Big data” is revolutionizing the world of statistics.
- Huge opportunities: more granular, timely, accurate, insightful, valuable, less costly to collect (vs surveys).
- ITU is a pioneer in the field; Since 2016, projects run in a dozen of countries; these helped refined methods and models and created guidelines for countries exploring the use of mobile phone big data.



Monitoring global ICT targets



- ICTs serve as catalysts for achieving all of the Sustainable Development Goals (SDGs);
- The Global SDG Indicator Framework includes **7 ICT indicators** covering **6 targets**. **5 indicators** are under the responsibility of ITU:
 - Indicator 4.4.1: % of youth and adults with ICT skills, by type of skills
 - Indicator 5.b.1: % of individuals who own a mobile telephone, by sex
 - Indicator 9.c.1: % of population covered by a mobile network, by technology
 - Indicator 17.6.1: Fixed Internet broadband subscriptions per 100 inhabitants, by speed
 - Indicator 17.8.1: % of individuals using the Internet



- UN Broadband Commission 2025 targets “connecting the other half”
- Connect 2030 Agenda’s Strategic Goals
- Universal and Meaningful Connectivity targets focus on quality



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United Nations
Office of the Secretary-General's
Envoy on Technology



New UN targets chart path to universal and meaningful connectivity

www.itu.int/umc2030

How to learn more about ITU's ICT statistics?

Join these free, own-paced online courses on ITU Academy

The screenshot shows the ITU Academy course page for 'Measuring digital development: Telecommunication/ICT indicators'. The course is free and available in English. It is an online self-paced course that runs from 15 Jul to 31 Dec 2023. The URL is <https://itu.int/go/BIMX>. The background features a network diagram with mobile phones and data lines.

The screenshot shows the ITU Academy course page for 'Measuring digital development: ICT access and use by households and individuals'. The course is free and available in English. It is an online self-paced course that runs from 18 May to 31 Dec 2023. The URL is <http://itu.int/go/BIFD>. The background features a network diagram with mobile phones and data lines.

The screenshot shows the ITU Academy course page for 'Mobile Phone Data - Awareness Course'. The course is free and available in English. It is an online self-paced course that runs from 01 Jul to 31 Dec 2023. The URL is <http://itu.int/go/APPDU>. The background features a network diagram with mobile phones and data lines.

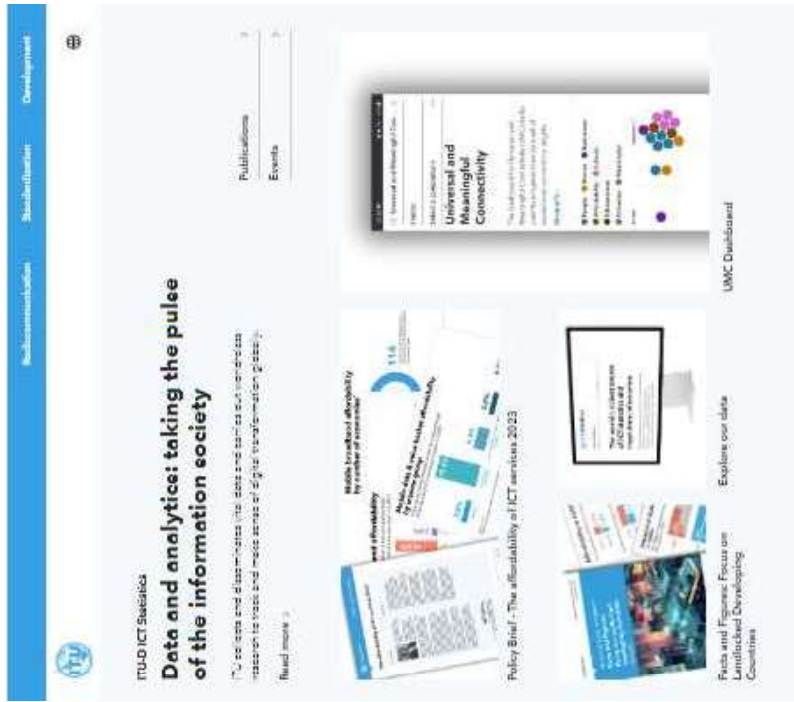
<https://www.itu.int/en/ITU-D/Statistics/Pages/capacitydev/default.aspx>



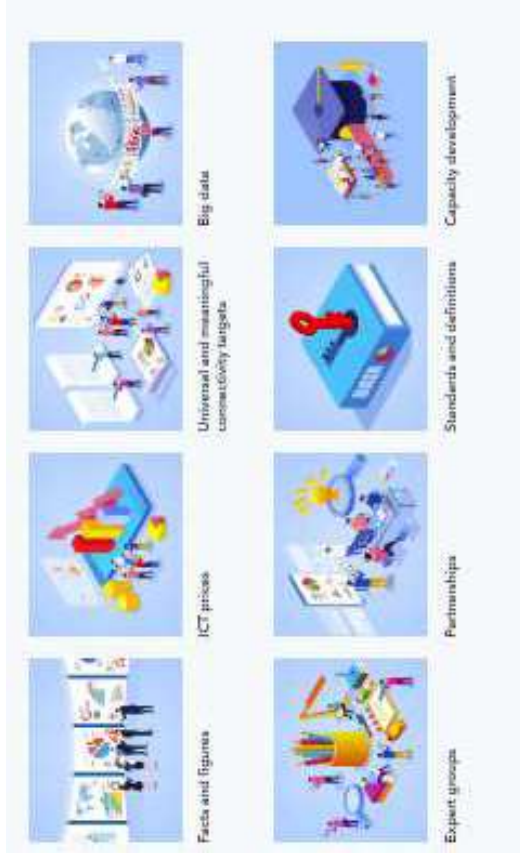
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Visit our webpage



<https://www.itu.int/itu-d/sites/statistics/>



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