

#### République Tunisienne Instance Nationale des Télécommunications



#### National coordination on ICT measurement Tunisian Experience

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#### Summary



#### A. Tunisian landscape of ICT indicators

- Organizations producing ICT indicators.
- 2. Organizations collecting TIC indicators.
- 3. Coordinating Oganization of the national statistical system.
- 4. Users of ICT indicators.

#### A – Tunisian landscape of ICT indicators

### A.1 – Organizations produicing ICT indicators

- Regulator: Instance Nationale des Télécommunications (INT).
- Public Telecommunications Network Operators(ORPT) :
  - > Tunisie Télécom Ooredoo Tunisie Orange Tunisie.
- ➤ Mobile Virtual Network Operator (MVNO) : Lycamobile Tunisie.
- ➤ Internet Services Providers (ISP) :
  - Globalnet Hexabyte Ooredoo Internet Orange Internet Topnet.
- Tunisian Internet Agency (ATI).
- ➤ Ministry of Communication Technologies and Digital Economy (Ministère des Technologie de la Communication et de l'Economie Numérique).
- ➤ National Institute of Statistics (Institut National de la Statistique -4

# A.1 - Organizations produicing ICT indicators

- Central Bank of Tunisia (BCT).
- Ministry of Higher Education and Scientific Research.
- ➤ Technological Centers.
- Tunisian Post (PT).
- National Office of Broadcasting (ONT).
- National Agency of Electronic Certification (ANCE).
- National Center of Informatics (CNI).
- Center of Studies and Research on Telecommunications (CERT).

## A.2 - Organizations collecting (ICT indicators



- Regulator: Instance Nationale des Télécommunications (INT).
- Ministry of Communication Technologies and Digital Economy.
- National Institute of Statistics (INS).

## A.2 - Organizations collecting ICT indicators

- Regulator: Instance Nationale des Télécommunications (INT).
  - Main mission : regulation of the telecommunications market.
  - Collects ICT statistical indicators from the ORPT, MVNO & ISP.
  - ➤ Main indicators ICT products:
    - Financial indicators: Revenus, Investment, Value added...
    - Number of subscriptions: fixed telephony, mobile telephony, fixed Internet, mobile Internet.
    - ➤ Penetration: fixed penetration of households and mobile penetration of the population.
    - Market shares: /Subscriptions /Revenus /Trafics.
    - ➤ Traffics: fixed voice traffic, mobile voice traffic, mobile messaging traffic, fixed internet traffic, mobile internet traffic.
    - ➤ Infrastructure indicators, coverage indicators and QoS indicators.

# A.2 - Organizations collecting ICT indicators



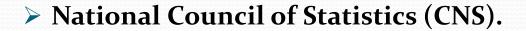
- National Institute of Statistics (INS).
  - ➤ Main mission: production and analysis of Tunisian official statistics.
  - Collects ICT indicators from households and business companies.
  - Main ICT indicators products:
    - Financial indicators: Gross Domestic Product, Price Index...
    - ➤ Indicators on ICT consumption of the household.
    - Key indicators of ICT access and use by companies.

# A.2 - Organizations collecting ICT indicators



- Ministry of Communication Technologies and Digital Economy.
  - ➤ Main mission: proposes the general policy on information and communication technologies and ensures its implementation.
  - Collects ICT statistical indicators from all organizations of the market.
  - Main ICT indicators products :
    - ➤ Postal indicators, Broadcasting indicators, electronic certification indicators, frequencies indicators, technical monitoring indicators, ICT studies indicators, ICT training courses indicators, ICT companies indicators...

# A.3 – Coordinating organization of the national statistical system



- ➤ Main mission: to propose the general orientations of the national statistical activities, the priorities and the coordination instruments of the activities of the National Statistical System.
- ➤ The CNS gives its opinion on the policy for the development of statistical information and on measures to guide and promote statistical activities.
- ➤ It is also responsible for examining the statistical programs of public statistical structures and organisms in order to propose a National Program of Statistics covering the period of the development plan.
- ➤ It ensures the necessary consultation between producers and users of statistical information.

#### A.4 – Users of ICT indicators



- ➤ All national organizations using ICT indicators.
- Different Ministries of State.
- General public.
- ➤ All international organizations using ICT indicators.



- ➤ INT disseminates the main statistical indicators of the telecommunications market on a monthly basis to:
  - Ministry of Communication Technologies and Digital Economy.
  - ➤ National Institute of Statistics (INS).
  - ➤ All other national organizations using ICT indicators.
  - > International organizations: ITU WB IMF WEF...
- ➤ The Ministry of Communication Technologies and Digital Economy disseminates the main statistical indicators of communication technologies on a monthly basis to all national organizations of the market.



- ➤ The National Institute of Statistics (INS) requests the advice of INT and the Ministry before carrying out any investigation relating to ICT indicators.
- ➤ The INS sends annual estimates of population and households to INT and other national organizations on an annual basis.
  - ➤ These indicators are essential for the calculation of penetration rate.
- ➤ The INS prepares an annual report on basic infrastructure indicators of Tunisia. INT contributes to the ICT indicators.
- ➤ INT communicates to the INS the global indicators of the telecommunications market used to calculate market GDP.



- ➤ Within the National Council of Statistics (CNS), a working group on indicators of the digital economy was set up in order to:
  - ➤ Define the list of statistical indicators relating to the digital economy that are important for the analysis of the sector.
  - Assist national organizations, including ministries, in the production of statistical indicators of the digital economy.
  - ➤ Propose to these organizations a list of statistical indicators that they should produce, and define these.
- ➤ Representatives of INT, INS, the Ministry and some other national organizations make up this working group.



#### Conclusion

- ➤ INT produces and collects ICT indicators of the telecommunications market.
- ➤ The INS produces and collects ICT indicators of households and companies uses.
- ➤ The Ministry produces and collects the remaining ICT indicators of the communication sector.
- ➤ A continuous exchange of ICT indicators is produced between these three organizations.
- ➤ The CNS proposes general guidelines for national statistical activities, in particular for organizations having difficulties in the production of statistical indicators.

Thank's for your attention