



République Tunisienne
Instance Nationale des Télécommunications



National coordination on ICT measurement

Tunisian Experience

Nasreddine Bahri

Head of the Statistical Observatory Division - INT

ITU Regional Forum on ICT Measurement

Dubai, 13 December 2016



A. Tunisian landscape of ICT indicators

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

B. National Coordination on ICT indicators



A – Tunisian landscape of ICT indicators

A.1 – Organizations producing 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 producing 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 - /Traffics.
 - 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



➤ National Council of Statistics (CNS).

- 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.



B – National coordination on ICT indicators

B – National coordination on 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.

B – National coordination on ICT indicators



- 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.

B – National coordination on ICT indicators



- 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