



ITU-EC Project

Harmonized ICT Policies in the ACP countries

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Support for Harmonization of the ICT Policies in Sub-Sahara Africa

Call for application n° HIPSSA/G-6-1 (a) [ST]

Title:	ICT statistics expert
Country:	Work at home
Type of contract:	Special Service Agreement (SSA) for a lump sum
Starting date:	<u>15 February 2011</u>
Ending date:	<u>30 April 2011</u>
Duration of appointment:	Approximately 25 working days
Payment:	Lump sum of 8500 USD

*The remuneration offered cannot be higher than **340 USD** per working day for an International P-5. Both base salary adjustment and DSA are based on location and subject to variation. For detailed information, please refer to conditions of employment for ITU technical assistance project personnel.*

Description of duties:

Introduction

The ITU-EC joint project for “Harmonisation of ICT Policies in Sub-Sahara Africa” (HIPSSA) aims at developing and promoting harmonized policies and regulatory guidelines for the ICT market as well as building human and institutional capacity in the field of ICT through a range of targeted training, education and knowledge sharing measures. This project will result in the creation of harmonized regional and national policy, legal and regulatory frameworks conducive to significant investments in the ICT infrastructures and services.

Governance mechanism of the mission

The statistics expert shall work under the supervision of the ITU-EC Project Manager for Harmonization of ICT Policies in ACP countries, the direction of ITU-EC HIPSSA Project Coordinator and in close collaboration with the ITU-D Market Information and Statistics Division (STAT) and the ITU Regional Office for Africa (RO-AFR).

The expert will be responsible for designing regional statistical reports about ICT/telecommunication indicators with a specific focus in regional organisations in Sub-Saharan Africa. These statistical reports shall include factsheets for each member country of the identified regional organisations and an aggregated and comparative view for each of the regions.

The statistics expert will also liaise with the IT expert (cf. JD HIPSSA G-6.2 a) as needed and/or requested. The final objective of this joint activity between the HIPSSA and the ITU statistics division is to provide customized statistical reports to regional integration organisations for review and endorsement at their yearly ICT ministerial meetings and to regional associations of regulators to do the same at their yearly plenary sessions or annual general meetings.

Tasks to be completed

The mission will be conducted in four stages as follows:

1. Report design and data availability

1.1. The expert shall

- 1.1.1. establish a list of indicators to be included in the above mentioned regional statistical reports,
 - 1.1.1.1. from the ITU World Telecommunications/ICT indicators database
 - 1.1.1.2. with an emphasis on the core indicators on ICT infrastructure and access identified by the *Partnership on Measuring ICT for Development*.
- 1.1.2. present the indicators individually for each country and also as regional aggregates
- 1.1.3. formulate and explain the calculation of regional averages and aggregates for each indicator and
- 1.1.4. indicate additional indicators needed to calculate regional average or aggregates.

1.2. The expert shall select

1.2.1. based on

- 1.2.1.1. lists of member countries for each of 8 identified regional organisations which are
 - 1.2.1.1.1. UEMOA,
 - 1.2.1.1.2. ECOWAS,
 - 1.2.1.1.3. ECCAS (same member countries as ARTAC),
 - 1.2.1.1.4. SADC (same member countries as CRASA),
 - 1.2.1.1.5. EAC (same member countries as EACO),
 - 1.2.1.1.6. COMESA (same member countries as ARICEA),
 - 1.2.1.1.7. IGAD,
 - 1.2.1.1.8. AU
- 1.2.1.2. data availability in the World Telecommunication/ICT Indicators (WTI) database

1.2.2. indicators suitable to calculate regional average or aggregates for

- 1.2.2.1. 10 years time series (the most recent collection year and nine previous years) and/or
- 1.2.2.2. recent years values (the most recent collection year and up to four previous years),

1.2.3. depending if data

- 1.2.3.1. is complete
- 1.2.3.2. needs a limited number of missing values at national level to be estimated
- 1.2.3.3. is missing in a too large extend to calculate regional averages and aggregates

1.3. The expert shall

- 1.3.1. calculate estimates of missing values at national level as identified under 1.2.3.2 (with the purpose of calculating regional aggregates but not to be included in the reports at the country level)
- 1.3.2. provide operational guidelines on criteria and methodology regarding selection of the indicators and calculation of these estimates.
- 1.3.3. communicate these estimates to STAT by means of Excel files.

1.4. The expert shall review and discuss the list of indicators with STAT Division, the ITU-EC Project Team and the beneficiaries and provide written responses to their comments.

2. Graph selection and implementation

- 2.1. The expert shall propose a limited number (around 10) of graphs to illustrate the numeric tabular part of the national and regional factsheets to serve benchmarking purposes including but not

restricted to

- 2.1.1. comparative bar or line graphs showing the status and/or the evolution of some indicators in each of the member states across the region,
- 2.1.2. bar graphs comparing the status of some indicators in the member countries of that regional organisation lined up in a decreasing order with the regional average as a cross cutting line
- 2.1.3. further examples of graphs that could be considered can be drawn from ITU (2010) Information Society Statistical Profiles 2009 – Africa
 - 2.1.3.1. Chart 1.1 - ICT developments in Africa, 2000-2009 (penetration rate with the geographical scope of a regional organisation instead of Africa)
 - 2.1.3.2. Chart 1.2 - ICT uptake in Africa, developing countries and the world, 2009 (with World, AU and studied regional organisation)
 - 2.1.3.3. Chart 1.4, 1.5, 1.7, 1.8, 1.9, 1.11, 1.12, 1.13, 1.14, etc.
- 2.2. The expert shall provide the Excel files of graph templates with national data from targeted countries and regional data from identified regional organisations defining a general graphic charter
- 2.3. The expert shall review, discuss the graphs with STAT Division, the ITU-EC Project Team and the beneficiaries and provide written responses to their comments.

3. Data extraction and draft report

- 3.1. The expert shall save and provide the query files from the ITU World Telecommunications/ICT indicators database application for
 - 3.1.1. the queries components corresponding to the lists of
 - 3.1.1.1. countries,
 - 3.1.1.2. indicators and
 - 3.1.1.3. years and
 - 3.1.2. the consolidated queries
- 3.2. The expert shall build up and provide an Excel or Access file with
 - 3.2.1. the queries' results of national data from targeted countries,
 - 3.2.2. the estimates, including the functions or formulas used to calculate them
 - 3.2.3. the macros and/or functions needed to calculate regional averages and aggregates and their results
- 3.3. The expert shall build up and provide Excel files with
 - 3.3.1. the actual graphs with national data from targeted countries and regional data from identified regional organisations
 - 3.3.2. the macros and/or functions needed to produce these graphs including automatic formatting to comply with the above defined graphic charter
- 3.4. The expert shall consolidate the numeric tabular and graphic parts of the national and regional factsheets into 8 draft regional reports, to be provided in Word format.

4. Final reports

- 4.1. The expert shall review and discuss with the STAT Division, the ITU-EC Project Team and the beneficiaries the draft reports
- 4.2. The expert shall implement if requested the modifications agreed by the STAT Division and the ITU-EC Project Team.

Concrete deliverables:

1. list of indicators to be included in the above mentioned regional statistical reports,

2. list of graph templates in an Excel file
3. files from the ITU World Telecommunications/ICT indicators database application related to queries and their components
4. an Excel file with queries' results of national data from targeted countries, the functions to calculate the estimates when needed and possible and the macros and/or functions needed to calculate regional averages and aggregates and their results
5. an Excel file with the graphs with national data from targeted countries and regional data from identified regional organisations and the macros and/or functions needed to produce these graphs including automatic formatting to comply with the graphic charter
6. 8 draft regional statistical reports in Word format including the numeric tabular and graphic parts of the regional (aggregates of the regional organisation's memberships) and national (for each of its member countries) factsheets.

Deliverables shall be drafted in English with the document template provided by the HIPSSA Project Team and shall include mandatorily the ITU and EC logos.

(Note: The copyright of all documents produced under the project shall be vested with ITU and the regional organizations.)

Qualifications and experience:

1. Advanced university degree in economics, statistics, or mathematics or an equivalent level of education and specialization in a field relevant to the post.
2. Significant experience as statistician (at least ten years), including in the field of ICT statistics, at least five years of practical experience in international cooperation projects, and prior experience in working with international and regional organizations.

Languages:

Excellent knowledge of English. Outstanding written communications skills.

Please address applications, quoting above reference , to:

Mr. Sandro BAZZANELLA

ITU-EC Project Manager

International Telecommunication Union

Place des Nations, CH-1211 GENEVA 20, SWITZERLAND

with your Personal History File (PHF) and a short written proposal to the following email address:

hipssa@itu.int