

Feasibility Study on Low-Cost Wireless Broadband Infrastructure

- **Feasibility Study on Low-Cost Wireless Broadband Infrastructure for developing countries** is planned to be carried out,
 - in **Arab region**, in which 2-3 countries are identified as beneficiaries,
 - by **two (2) experts** on Wireless Broadband, appointed by ITU
 - to deliver the following outputs:
 - **Case Studies** in identified countries, by the simulation based on the study sites,
 - **Draft Project document** for future pilot project,
 - **Draft input document** concerning broadband access technologies for the Rapporteurs Group on Question 20-2/2, SG2, ITU-D.
 - The Feasibility Study is designed for Jan.-Dec. 2009.
 - All the necessary cost is borne by the Ministry of Internal Affairs and Communications (MIC), Japan.
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The Feasibility Study includes;

1. Preparation

- Preliminary Survey on Arab region, by Questionnaires
- Planning for the Field Survey

2. Field Survey

- Selection of the Study Sites in rural areas (1-2 sites per country)
- Survey of the surroundings (i.e. user distribution, geographic or topographic situation, climatic conditions, power supply and disposition of other infrastructures (incl. telecommunication networks), frequency availability, etc.)

3. Analysis & Study

- Simulation of establishing wireless broadband infrastructure, to estimate the costs (incl. maintenance cost) and time, on the conditions provided at the study sites
 - Formulation of the report comprising the useful information to be referred in selection of the systems to establish wireless broadband infrastructure, as well as the results of the simulation above
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Main roles of each expert working for the Feasibility Study (FS)

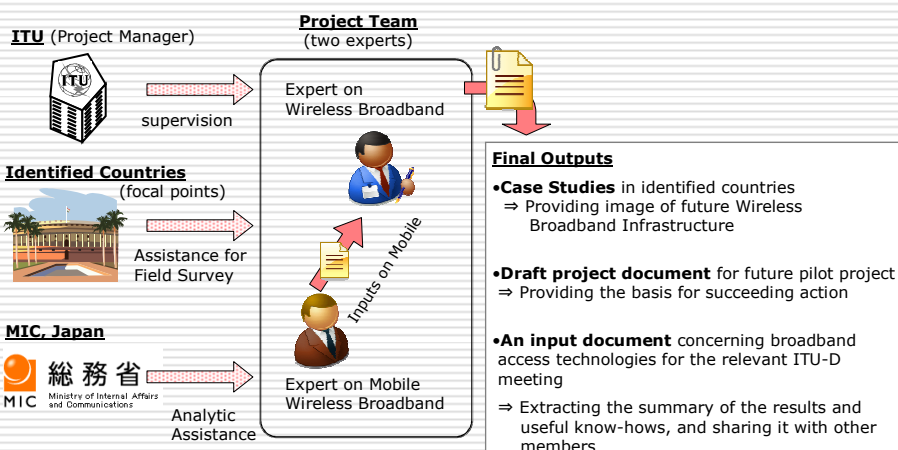
1. Expert on Wireless Broadband

- Plans and prepares for the Field Survey
- Performs the Field Survey
- Integrates the results of the FS and delivers the following final outputs;
 - Case studies in identified countries, based on the study sites,
 - Draft project document for future pilot project,
 - An input document concerning broadband access technologies for the relevant ITU-D meeting.

2. Expert on Mobile Wireless Broadband

- Assists above-mentioned experts through the FS, providing necessary inputs on MOBILE wireless broadband technologies

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Information we require to complete the study - To be clarified through our Field Survey

- 1. Geographical factors**
 - Geographical features
 - Population distribution, Population density
- 2. Frequency license rules applied to BWA**
- 3. National policy on Broadband and/or ICT investment**
- 4. Existing network**
 - Geographical features
 - Connectivity; Network interface points, etc.
- 5. Operators**
 - Service areas
 - Number of subscribers, penetration rate (by areas)
 - Future service planning
 - Subscriber growth forecasts for the future
- 6. Users**
 - Desired service, etc.

(Note: Some of them can be picked up from our existing resources. But if we could get further detailed information (i.e. data by region, or city), it will help us to complete our study.)
