



## **Brief Description**

- While Africa has made substantial progress in its ICT infrastructure in recent years, the continent still lags behind others in terms of availability and affordability of broadband access.
- The proposed project aims to promote harmonized spectrum utilization and regulations
- It is within the framework of the Action entitled "Policy and Regulation Initiative for Digital Africa (PRIDA)" which aims to foster universally accessible, affordable and effective wireless broadband across the continent to unlock future benefits of the cross cutting use of ICTs.

29/05/2015

PRIDA

# Problem statement and justification

- In Africa, as for the other continents, the demand for broadband connectivity – and by extension, the demand for spectrum and rolling out of high-speed broadband networks for electronic communications, is a growing fact of life.
- However, availability and affordability of broadband access are still challenges in many African countries
- All African countries must take measures to address the important issues of radio frequency spectrum to promote the adoption and deployment of mobile broadband.
- Allowing ICT markets to thrive today is a matter of finding the balance between creating the right incentive and enforcing the necessary rules

## Problem statement and justification

- In order to gain full benefit of potential broadband networks, it is essential to ensure the deployment of optical fibre, for example, for connecting base stations
- It is necessary to have the current situation of optical fibre deployment to orient investments in areas with optical fibre infrastructure deficit.
- Regarding effective radio spectrum management, a stable and predictable framework shall ensure that radio spectrum is made available based on administrative procedures that are (i) open, (ii) transparent and (iii) nondiscriminatory.
- Harmonization efforts at Pan-African level of the four (4) core functions (spectrum licensing, spectrum pricing, spectrum re-farming and cross border frequency coordination) will create the conditions for economies of scale and thus a rapid deployment of wireless broadband.

## Project methodology

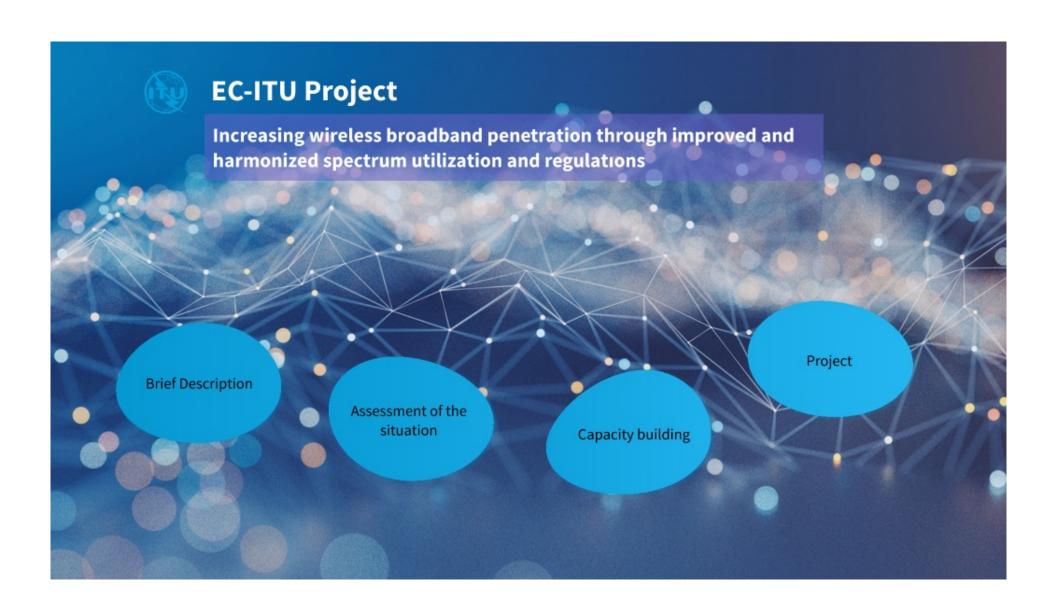
- To ensure its success, the project will harness the support of all relevant ICT stakeholders. As done in HIPSSA, the project utilizes a bottom-up approach and will give special consideration to a methodology designed to facilitate enhanced ownership by the beneficiaries to increase the impact of the project and ensure the sustainability of its outcomes.
- To this end, ITU will solicit the engagement of the regional and national key stakeholders from the inception of the Project to its final stage.
  - AUC
  - ATU and ASMG
  - RECs
  - · African regulators
  - African ICT Ministries and policy makers
  - · Regional broadcasting organizations
  - Operators and service providers

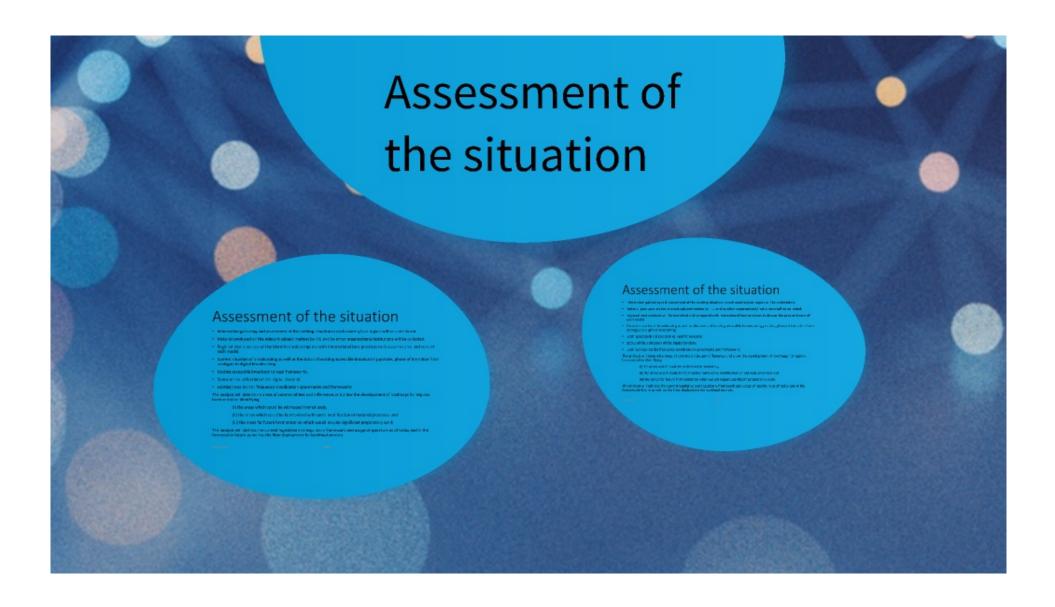
## Project methodology

- · Regional and national ownership
  - · Technical (Implementation) Committee
  - · Kick-off meeting
- Fellowship
  - · ITU rules and procedures
  - · DSA and travelling costs
- Cross-region fertilization
  - · Peer-to-peer learning across developing countries
  - · Transfer of knowledge from developed countries
- Benefits of local and international experts and regional sharing:
  - · Mixing international and local expert capacity
  - · Sharing best practice and experiences at the regional level and between different RECs/ROs
- Sticking to agreed actions:
  - the project will solicit and aim to accommodate feedback from beneficiaries on a plan of action
  - · help them to stick to the agreed plan of action.

25/95/2001

PRIOR





## Assessment of the situation

- · Information gathering and assessment of the existing situation in each country/sub-region will be undertaken.
- Material produced on the relevant subject matters by ITU and by other organizations/institutions will be collected.
- Regional best practices will be identified and compared with international best practices to discuss the pros and cons of each model.
- Current situation of broadcasting as well as the status of existing accessible broadcasting policies, phase of transition from analogue to digital broadcasting
- · Existing accessible broadcasting legal frameworks.
- · Status of the utilization of the digital dividend
- · Existing cross-border frequency coordination agreements and frameworks

The analysis will determine areas of commonalities and differences and allow the development of roadmaps for regional harmonization identifying

- (i) the areas which could be addressed immediately,
- (ii) the areas which could be harmonized with some modification of national processes and
- (iii) the areas for future harmonization which would require significant preparatory work.

The analysis will address the current legislative and regulatory framework and usage of spectrum as of today and in the foreseeable future as well as the fiber deployment for backhaul services.

25/85/2015 PRIDA

# Assessment of the situation

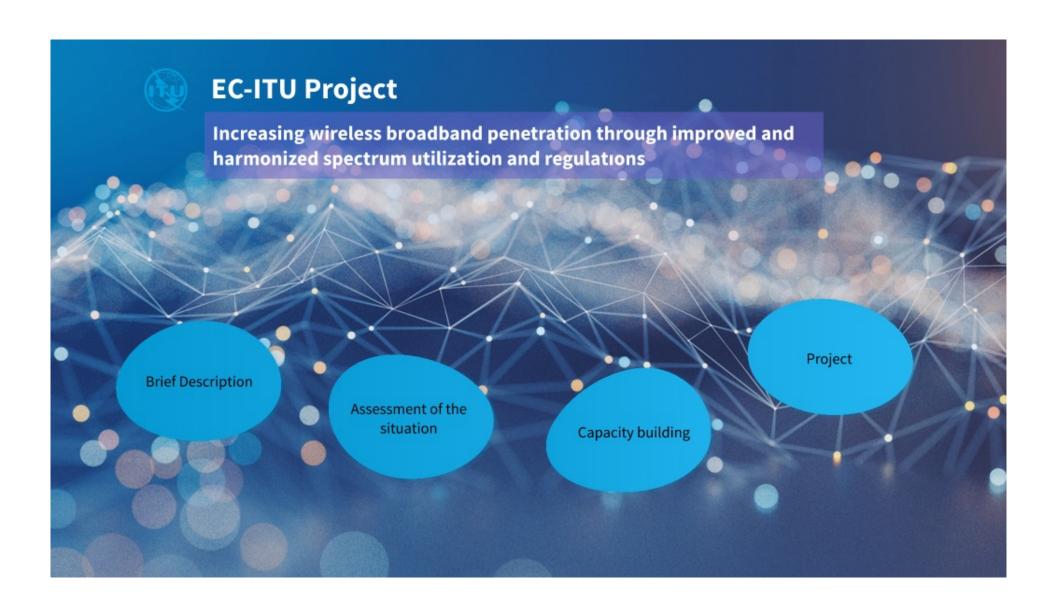
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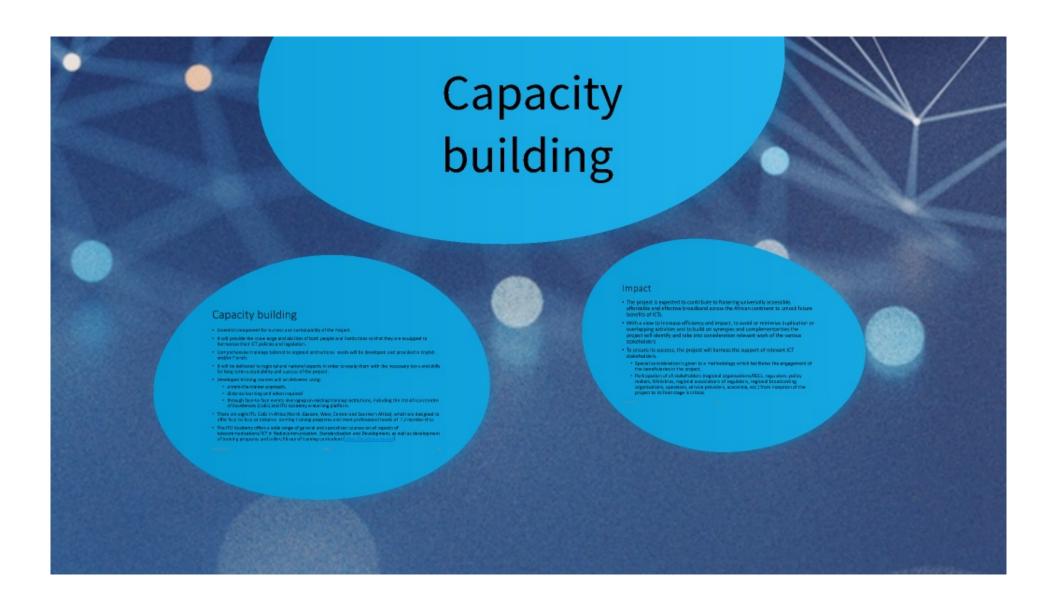
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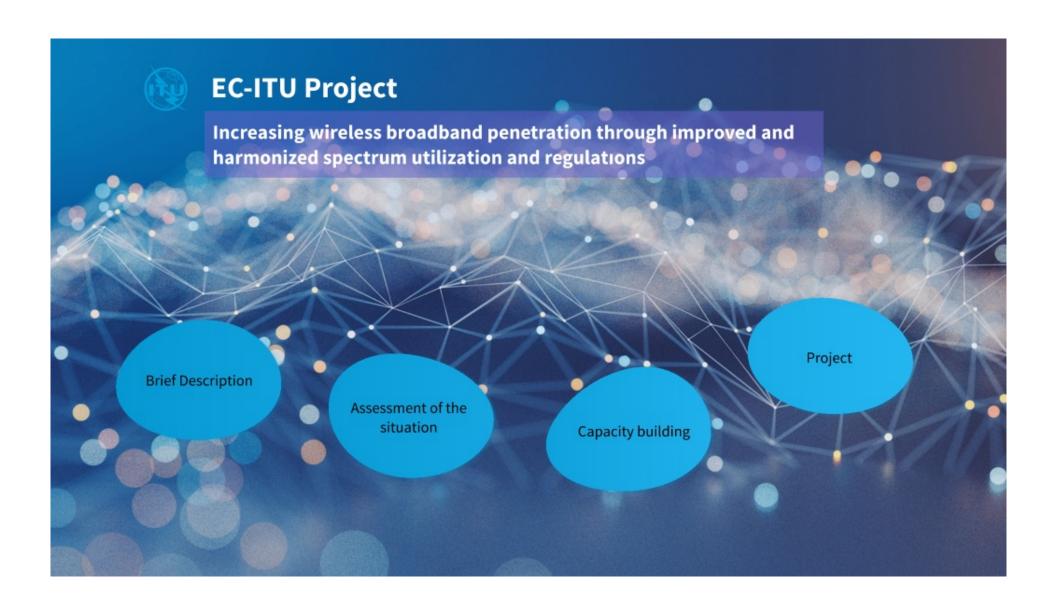


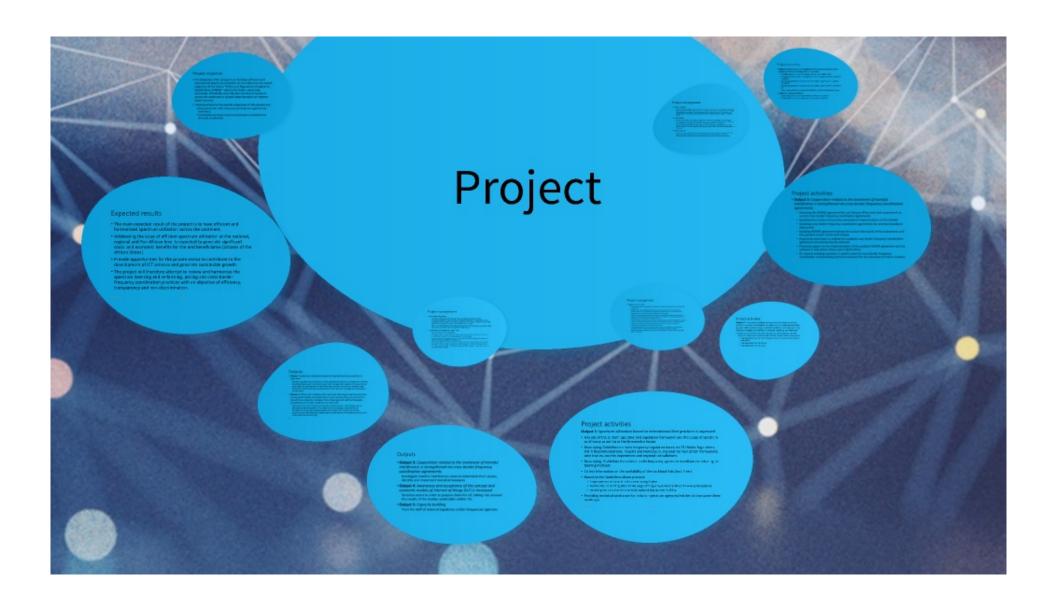
## Capacity building

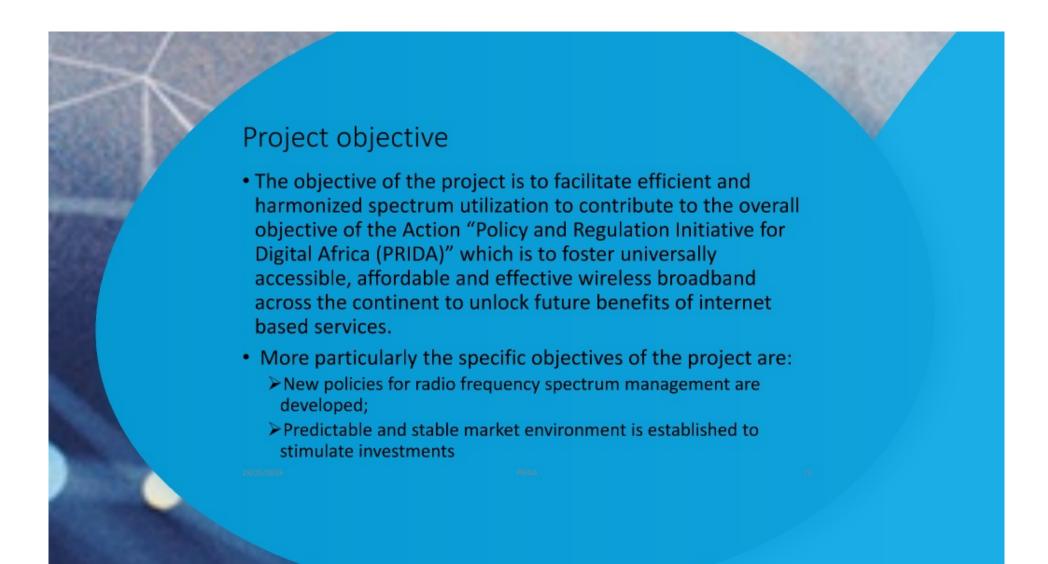
- · Essential component for success and sustainability of the Project.
- It will provide the knowledge and abilities of both people and institutions so that they are equipped to harmonize their ICT policies and legislation.
- Comprehensive trainings tailored to regional and national needs will be developed and provided in English and/or French.
- It will be delivered to regional and national experts in order to equip them with the necessary tools and skills for long-term sustainability and success of the project.
- · Developed training courses will be delivered using:
  - · a train-the-trainer approach,
  - · distance learning and when required
  - through face-to-face events leveraging on existing training institutions, including the ITU African Centre
    of Excellences (CoEs) and ITU Academy e-learning platform.
- There are eight ITU CoEs in Africa (North, Eastern, West, Central and Southern Africa), which are designed to
  offer face-to-face or distance learning training programs and meet professional needs of ITU membership.
- The ITU Academy offers a wide range of general and specialized courses on all aspects of telecommunications/ICT in Radiocommunication, Standardization and Development, as well as development of training programs and online library of training curriculum (https://academy.itu.int/)

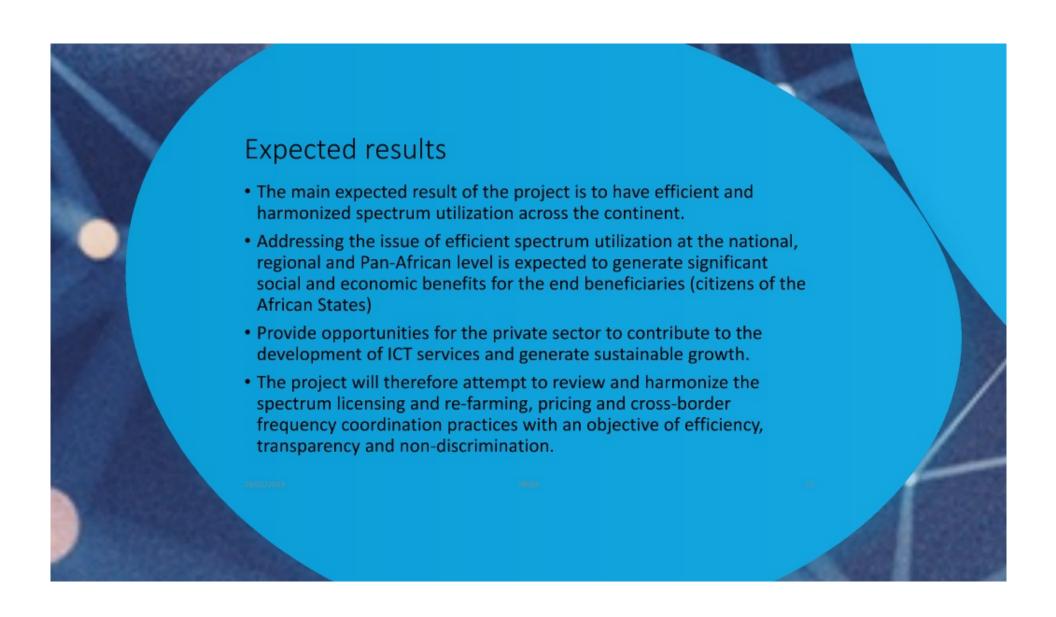
PRIDA 4

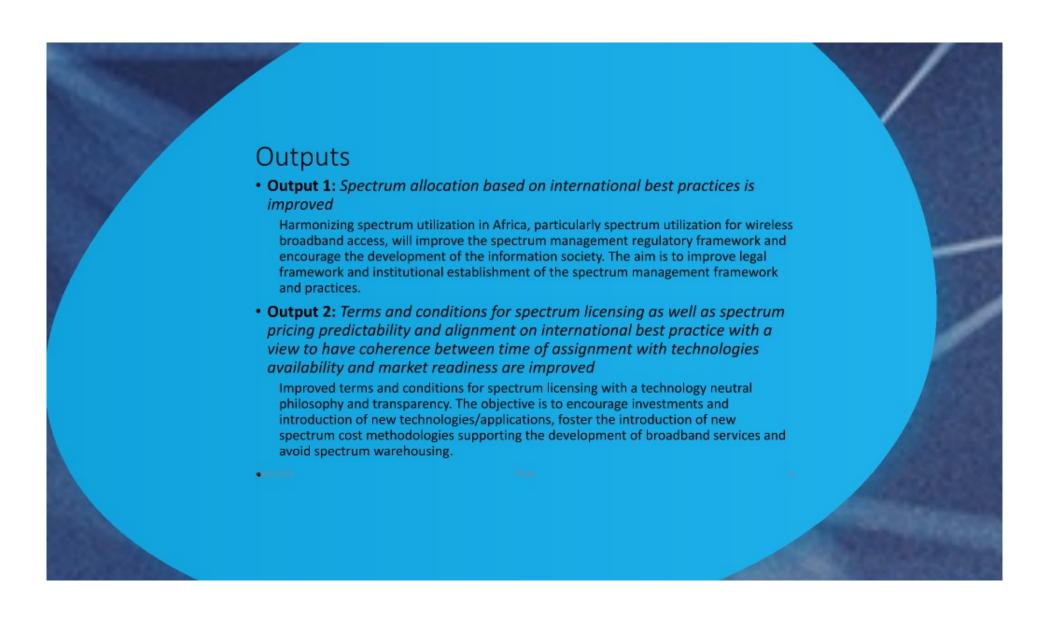
# **Impact** The project is expected to contribute to fostering universally accessible, affordable and effective broadband across the African continent to unlock future benefits of ICTs. · With a view to increase efficiency and impact, to avoid or minimize duplication or overlapping activities and to build on synergies and complementarities the project will identify and take into consideration relevant work of the various stakeholders · To ensure its success, the project will harness the support of relevant ICT stakeholders. · Special consideration is given to a methodology which facilitates the engagement of the beneficiaries in the project. Participation of all stakeholders (regional organizations/RECs, regulators, policy) makers, Ministries, regional associations of regulators, regional broadcasting organizations, operators, service providers, academia, etc.) from inception of the project to its final stage is critical.





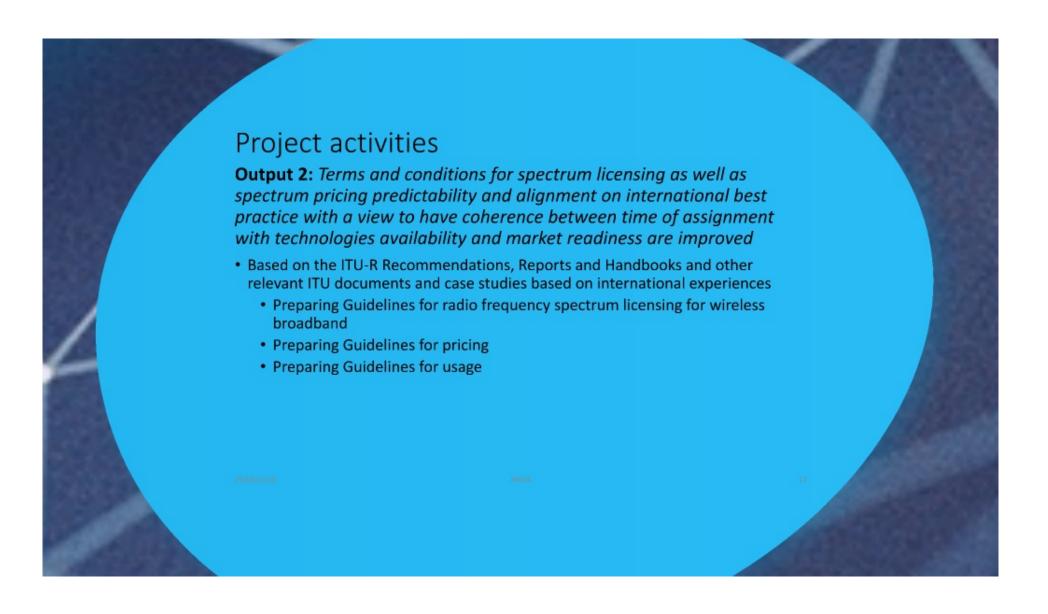


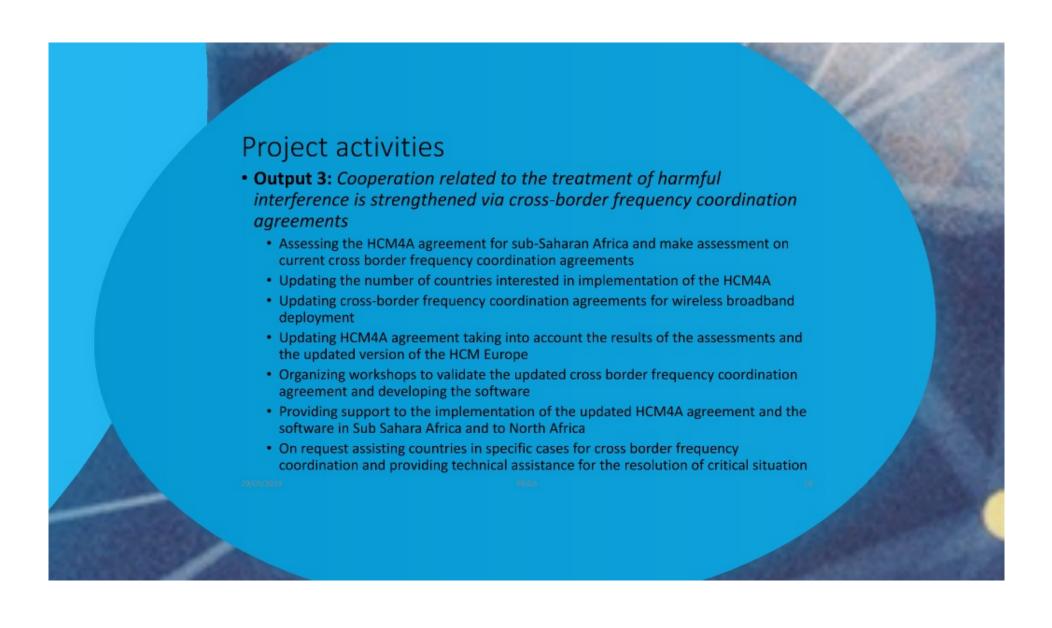




# Outputs Output 3: Cooperation related to the treatment of harmful interference is strengthened via cross-border frequency coordination agreements Investigate harmful interference cases to determine their causes, identify and implement remedial measures • Output 4: Awareness and acceptance of the concept and economic models of Internet of things (IoT) is increased Sensitize actors in order to prepare them for IoT, taking into account the results of the studies undertaken within ITU. Output 5: Capacity building Train the staff of national regulatory and/or frequencies agencies.

# **Project activities** Output 1: Spectrum allocation based on international best practices is improved · Analysis of the current legislative and regulatory framework and the usage of spectrum as of today as well as in the foreseeable future · Developing Guidelines on radio frequency regulation based on ITU Radio Regulations, ITU-R Recommendations, Reports and Handbooks, regional harmonization frameworks, case studies, country experiences and regional consultations · Developing Guidelines for national radio frequency spectrum coordination including refarming methods · Collect information on the availability of the backhaul links (incl. fiber) Based on the Guidelines above propose · improvements of national radio spectrum regulations · harmonized re-farming plans for the usage of frequency bands identified for wireless broadband · roadmap and priorities for wireless broadband deployment in Africa Providing technical assistance for national spectrum agencies/entities to transpose these roadmaps







### Project management

### · Project manager

A project manager (PM) at the professional level will be recruited by ITU for the purpose of managing
the project. The PM will be assisted by a Project assistant (administrative level staff). They will be fully
dedicated to the management and implementation of the project and both will be based in the ITU
Regional office in Addis Ababa and will be administratively supervised by the Regional Director for
Africa.

### · Project Officer

- A project officer (PO) at the professional level will be recruited for the purpose of supporting the implementation of the project. The PO will be based in the ITU Regional office in Cairo and will report to the PM while administratively supervised by the Regional Director for Arab States.
- the PO will be responsible for the coordination of the implementation and reporting of the project activities mainly in the North African countries and will assist the PM in the overall implementation of the project

### · Project assistant

 Under the supervision of the Project Manager and in close collaboration with ITU regional office for Africa, the project officer and BDT concerned Units in Geneva the Assistant will carry out all administrative tasks related to the implementation of the operational activities of the project.

## Project management

- · Support from ITU staff
  - ITU Human Resources Management Department: support with regard to recruitment of the project team.
  - ITU/BDT Financial and Budget Administration Division: guidance on ITU financial and administrative rules, regulations and procedures in liaison with ITU Financial Resources Department. Ensure sound financial management of the project.
  - ITU/BDT Telecommunications Network & Spectrum Management Division: guidance and expertise on the implementation of the project's deliverables, including quality assurance, in close liaison with ITU Radiocommunication Bureau.
  - ITU/BDT Project Support Division: guidance and backstopping in project management related issues, monitoring and evaluation of project implementation, advice on corrective actions.
  - ITU/BDT Promotion and Communication Division: support in project's visibility and communication towards beneficiaries and the public.
  - ITU Regional offices for Africa and Arab States: liaison and coordination with beneficiary countries in order to maintain direct contact with national authorities, regional telecommunication organizations and other key stakeholders as well as support the project team as necessary.

## Project management

- · Short term consultants
  - Under the supervision of the PM and in close collaboration with the ITU/BDT
     Telecommunication Network & Spectrum Management Division, the deliverables will be
     produced with the support of short term consultants who will be recruited for specific tasks
     when and as required during the implementation of the project.
  - Their role will be limited to provide technical expertise on the topics they are assigned. They
    will have no role in the overall management of the project.
- · Implementation (Technical) Committee
  - · Will be set up at the start of the project.
  - · It will advise ITU on technical matters pertaining to the implementation of the project's activities.
  - It will facilitate the political buy-in and synergies with other initiatives.
  - It will be composed of representatives from ITU (as chair), AUC, RECs and regional association of regulators and other stakeholders as appropriate.
  - The Implementation Committee will meet on a regular basis to be determined at its first meeting.
  - · However, the decisions (taken by consensus) of the Committee will solely be of advisory nature.
  - In coordination with the AFR and ARB Regional offices of ITU, the project manager will assume the secretariat of the committee

