# PRIDA

# Policy and Regulation Initiative for Digital Africa

### **Project Focal Points meeting** 7-9 June 2023, Sao Tomé





### What is PRIDA Project ?



### **Policy and Regulation Initiative for Digital Africa**







Duration: 15 May 2024



Budget € 8m

#### **Objective**

The objective of the ITU managed **Component 1** project is to <u>facilitate efficient and harmonized</u> <u>spectrum utilization</u> to contribute to the overall objective of the PRIDA EU+ AUC+ ITU action, which is to foster universally, accessible, affordable and effective wireless broadband across the continent to unlock future benefits if Internet based services.





**PRIDA** : Policy and Regulation Initiative for Digital Africa

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#### **5 Outputs identified:**

- 1- Spectrum allocation based on international best practices is improved
- 2-Terms and conditions for spectrum licensing and pricing are improved
- 3- Cooperation related to the treatment of harmful interference is strengthened
- 4- Awareness and acceptance of the concept and economic models of Internet of things (IoT) is increased.
- 5- Capacity building









### Significant dates







### Where do we stand?



Since March 2020 until end of 2021

No more Face-to-face meeting, No Training nor capacity building activities



#### **Questions financières:**

Remaining Budget: + 3 million € Implementation level : 87 %

#### About the project contract:

Date de fin du project : 15 Mai 2024 Implementation time: Less than 10 months.

### Mai 2024





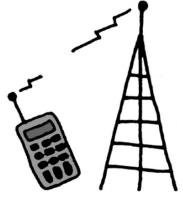


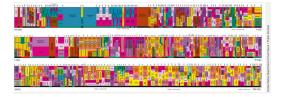




### **PRIDA Track 1: Scope**

More than 25 activities identified, mainly related to Spectrum management and fostering universally, accessible, affordable and effective wireless broadband across the continent to unlock future benefits if Internet based services.





Spectrum allocation and harmonization



Spectrum licensing and pricing



Cross-border frequency coordination



**Internet of things** 







Implementation strategy: Priority to beneficiary countries' requests

# Call for additional activities during Focal meetings

Abidjan, Côte d'Ivoire, July 2022

Addis-Ababa, Ethiopia, December 2022

16 additional activities identified.This induced 29 activities to be organized.

8 Training (28,57%) 12 technical assistance activities (39,28%) 5 studies (17,86%) 4 Worshops (14%)







#### PRIDA Project (Track 1) - Additional activities

### **16** additional activities (1)



N°	CATEGORY	IDENTIFIED ACTIVITY	DESCRIPTION	TARGET
1	Training	Digital enablement and financial impact of Spectrum Management	This training is designed for Regulators and policy makers. There will be a focus on economic and financial aspects of spectrum management	Regulators and Policy Makers (one training session per REC)
2	Training	Spectrum Monitoring	New methods and technologies of spectrum monitoring will be presented to participants.	All 54 African countries
<u>3</u>	Technical assistance	Survey on 5G awareness and 5G private networks and its penetration in Africa	ITU, in collaboration with the ATU, the GSMA, the ASMG (Arab Spectrum Management Group) will launch a survey to be conducted in all African countries, targeting Regulators, Governments, and users. The aim will be a real status and a deep knowledge of the 5G evolution in 54 African countries. A status report on the emerging trends on 5G private networks and their licensing (e.g., set- asides spectrum, network sharing/ slicing, spectrum sharing etc.)	All 54 African countries (in collaboration with GSMA, ATU and AUC.
4	Technical assistance	Coexistence of the IMT and WIFI in the 6GHz (Newer 5G technologies)	The aim is to understand the possible coexistence scenarios between Wi-Fi and IMT.	All 54 African countries
<u>5</u>	Technical assistance	digital dividend in Madagascar, Comoros, and Djibouti (Digital Migration activities)	The modernization of audio-visual broadcasting and the imminent advent of digital television are naturally leading to the extinction of analogue television, thus freeing up part of the terrestrial spectrum with technical characteristics that make it suitable for multiple uses. Tech Roadmap for the Digital migration will be revisited.	Madagascar/Comoros and Djibouti (Indian ocean French speaking countries)

# Training: 5 activities (31.25%)







#### PRIDA Project (Track 1) - Additional activities

## **16** additional activities (2)



# Technical assistance: 9 activities (56.25%)

<u>6</u>	Training	Special online training on DTT and Spectrum issues	Increasing awareness of the impact of DTT and Spectrum issues on innovation and Socioeconomic development.	Young African Women (Engineers)
Z	Training	Spectrum aspects of IoT and private networks (vertical industries)	Enhance awareness of the role of spectrum management in IoT and private networks	Policy makers and regulators in 54 African countries.
<u>8</u>	Training	Aeronautical and Maritime communications services.	<ul> <li>Update knowledge of attendees on the coordinated use of frequencies in the band allocated to the aeronautical mobile services.</li> <li>Update knowledge of attendees on maritime communication services including search and rescue services and Global Maritime Distress and Safety System (GMDSS)</li> </ul>	All 54 African countries
<u>9</u>	Study	Satellite broadband	<ul> <li>A study on satellite broadband covering national licensing requirements in the 54 countries in Africa and benchmarking them with other countries from other regions as well as proposals for technical conditions for licencing as stipulated in the ITU RR and ITU-R publications.</li> <li>Workshop on satellite broadband (trends in satellite industry and national licensing requirements)</li> <li>Technical assistance for up to 15 countries to develop their national regulations.</li> </ul>	54 countries in Africa (1 study per region, workshop per region and direct technical assistance for up to 3 countries in each region)
<u>10</u>	Study	Wireless Local Area Networks (WLAN)	<ul> <li>A Study on WLANs covering the conditions for RLAN spectrum usage</li> <li>Workshop on RLANs regulations and case studies on their usage for the provision of internet services (e.g., in local communities)</li> <li>Technical assistance for up to 25 countries to update their national regulations</li> </ul>	54 countries in Africa (1 study per region, workshop per region and direct technical assistance for up to 5 countries in each region)







#### PRIDA Project (Track 1) - Additional activities

# **16** additional activities (3)



# Study: 2 activities (12.5%)

11	Direct Technical assistance	IMT spectrum harmonization and spectrum licences awards	Support the adoption of harmonized technical conditions for IMT spectrum bands harmonized by ATU and ASMG. Direct technical assistance to countries wishing to refarm or award such spectrum bands (e.g., on license technical conditions, spectrum refarming roadmaps. Etc.)	54 countries
12	Direct technical assistance	Development of National Tables of Frequency Allocation	Technical assistance on the development of NTFA	Primarily LDC countries
13	Technical assistance and study	Technical assistance and study on emerging spectrum sharing techniques.	<ul> <li>The aim is to assess the current practices and trials of spectrum sharing in Africa and provide best practices.</li> <li>Conduct study on emerging dynamic spectrum sharing techniques that involves centralized spectrum database for spectrum monitoring and assignments (e.g., TV white spaces, CBRS,etc.).</li> <li>Organize workshops to create awareness about spectrum sharing and its relevance in Africa</li> </ul>	54 countries
14	Technical Assistance	Developing Guidelines on maritime communication	The national policy and regulations should be compliant with international regulations concerning maritime communications, including implementation and management of shore-based facilities and fulfilment of Search and Rescue responsibilities	Most of African Countries
15	Technical Assistance	EMF compliance	Develop a framework and conduct sensitization on EMF standards compliance	5 Countries (1 in each region)
16	Technical assistance	National Plan for emergency communications	Technical assistance on the application of ITU guidelines for national emergency communications plans, as well as the harmonized frequencies for emergency communication in Africa	All 54 African countries





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#### Implementation Plan :

1 Digital enablement and financial impact of Spectrum I	Management Training	
2 Spectrum Monitoring	Training	
3 Guidelines on Spectrum Management	Study	
4 5G awareness and 5G private networks	Study	
5 Coexistence of the IMT and WIFI in the 6GHz (Newer 5	G technologies) Tech. Assist.	
6 Valuation of the digital dividend	Tech. Assist.	
7 DTT and Spectrum issues (Hybrid training)	Training	
8 Spectrum aspects of IoT (vertical industries)	Training	
9 Aeronautical and Maritime communication services	Training	
10 Satellite broadband	Study	
Satellite broadband (trends in satellite industry and lice	ensing requirements) Workshop	
Satellite broadband national regulations	Tech. Assist.	
11 Business Plan for Broadband Network	Training	
12 Wireless Local Area Networks (WLAN)	Study	
RLANs regulations and case studies (Usage and Intern	et services) Workshop	
WLAN national regulations update (25)	Tech. Assist.	
13 IMT spectrum harmonization and spectrum licenses a	wards Tech. Assist.	
14 Development of the NTFA	Tech. Assist.	
15 Emerging spectrum sharing techniques	Study	
Awareness on spectrum sharing and its relevance in A	frica Workshop	
16 Guidelines on maritime communication	Tech. Assist.	
17 EMF compliance	Tech. Assist.	
18 National Plan for emergency communications (NETP).	Tech. Assist.	
National Emergency Telecommunications Plan (NETP)	) Training	
19 Direct Technical assistance on request (Not counted as	s new activities) Tech. Assist.	
20 HCM4A Software development	Tech. Assist.	
HCM4A agreement Training for trainers (Not part of th	ne new activities) Training	
HCM4A implementation workshop	Workshop	
21 Technical Know-how to Microwave links Monitoring a	nd Measurement Tech. Assist.	
22 Spectrum engineering and Audit	Training	
23 SMS4DC Training	Training	





#### Implementation constraints

1- Scope of the project (Number of activities to implement)

- 2- Finding technical experts
- 3- Implementation time
- 4- Beneficiary countries activism and participation

5-ITU Internal procedures

- Recruitment procedures
- Procurement process

- More than 29 activities
- A minimum of 80 technical experts to hire
- Less than one year (Deadline February 2024)
- Beneficiary countries are not responsive
- 3 months required to organize a meeting (Training or workshop)
- A minimum of 2 months required to hire a consultant





#### New implementation strategy to speed up the implementation process



#### **Two options**

**1- Hiring Senior Consultants** 

2- Signing LTA with consultants firms

Easier process considering ITU Experts database

Quick contract signature

Implementation follow up by the project team

Flexibility of the contract management

LTA signature process too long Many implementation constraints Legal risks identified Reputation risks identified

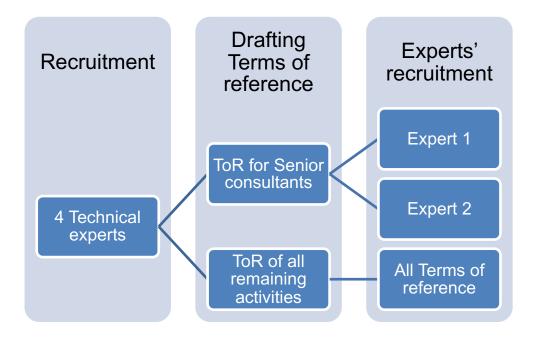






#### New implementation strategy to speed up the implementation process

#### **1- Hiring Senior Consultants**



#### Advantages:

Easy recruitment of Technical experts from the ITU database.

Outsource the experts' recruitment process and organizational issues

Easy contract management

Controlling the implementation process

Shortening the implementation process (4 months maximum)

#### Identified risks:

Finding qualified and experienced Senior consultants

ITU validation procedures (Qualifications and contract value)

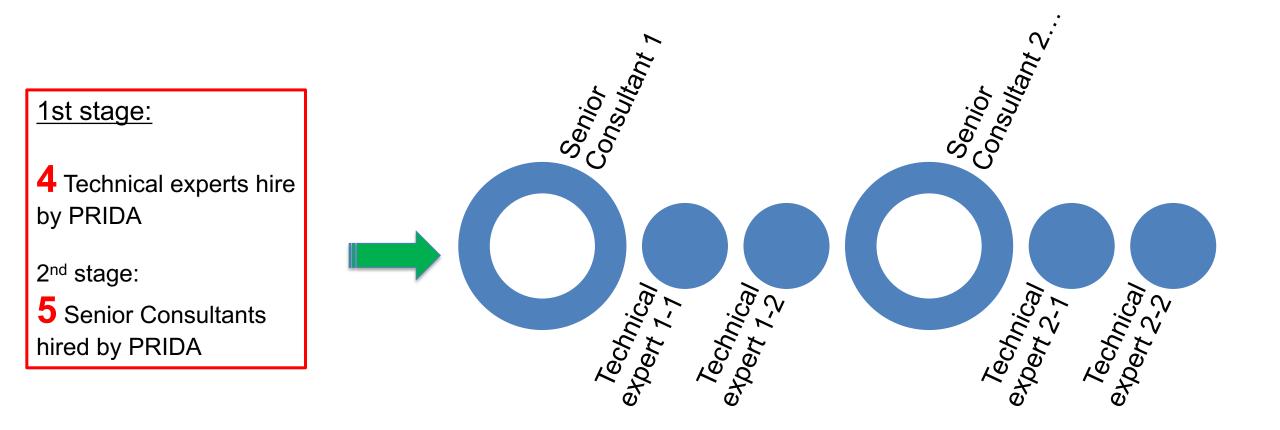
Legal aspects of the contracts management.





#### Implementation strategy











#### **Technical assistance requests received from countries**









#### **Technical assistance requests received from countries**

Coexistence of the IMT and WIFI in the 6GHz (Newer 5G technologies) : 34 Satellite broadband national regulations : 32 Technical know-how for Microwave links Monitoring and Measurement : **31** IMT spectrum harmonization and spectrum licenses awards : 29 National Plan for emergency communications : 27 EMF compliance : 26 Emerging Spectrum sharing : 21 Guidelines on maritime communication : 17 Cross Border Frequency Coordination - Training of trainers : 16 Development of Spectrum Fees calculation methods : 16 WLAN national regulations update : 15 Valuation of the digital dividend : 14 Development of the NTFA : 14 National Emergency Telecommunications Plan (NETP): 12 Assisitance for HCM4A implementation : 12 Spectrum Pricing : 4 OIT - Internet of Things / Internet des Objets : 3

# **340 requests** for technical assistance







### What's your role?

How many groups of activities can we create?

Keep in mind:

- The number of Senior Consultants to be hired.
- Project scope
- The implementation time
- Potential synergies to be aware of.
- Logistic constraints during the implementation process









# Thank you!! Let's discuss.



