

Ethiopian Radiation Protection Authority (ERPA)

The Existing Activity and the New Initiative on Research Reactor

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Licensing NPP

Mebratu G. Kallo (Ph.D)
Berhanemeskel Kumbi Ruga

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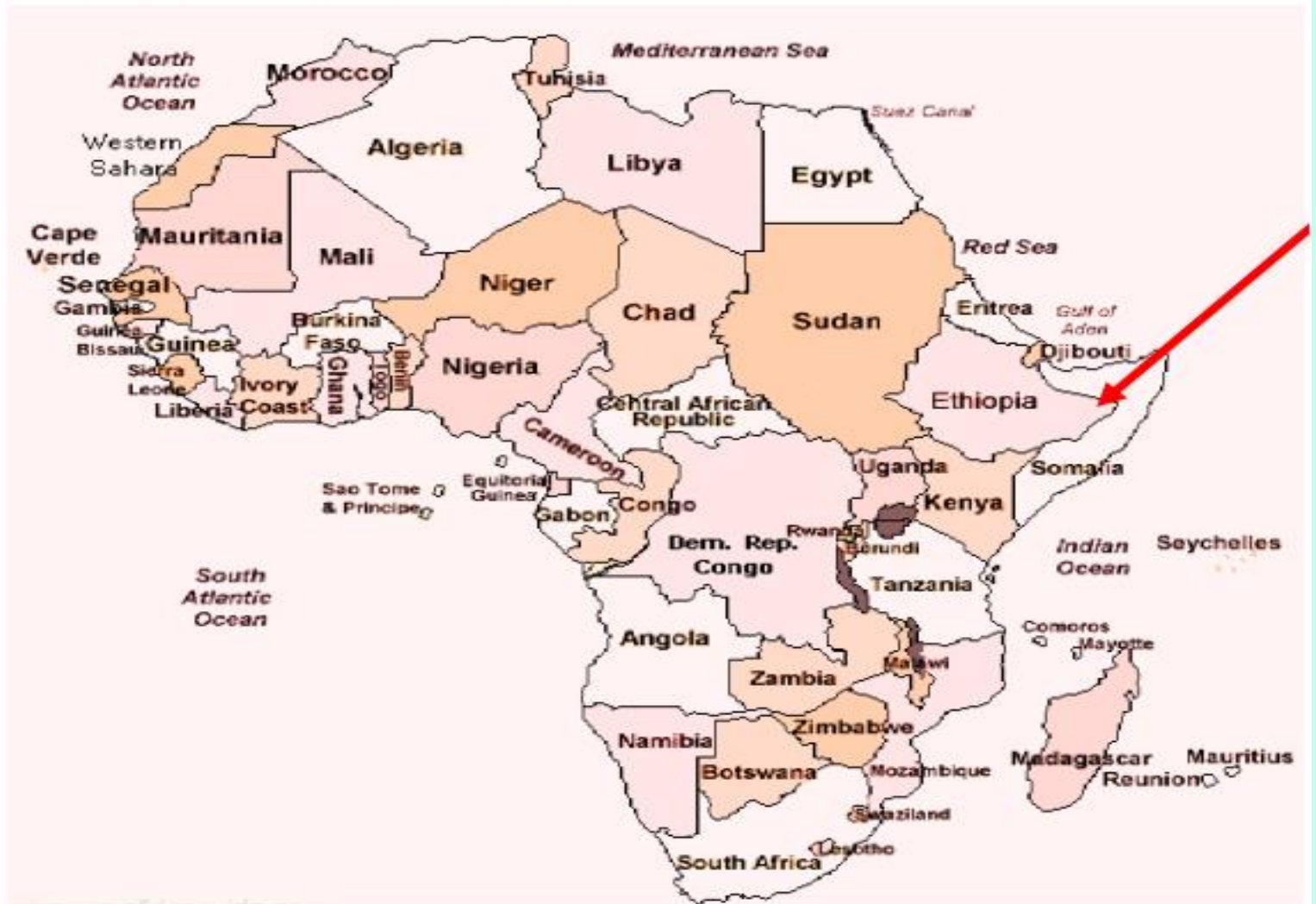
1. Introduction

2. Existing Activities /Status quo/

3. About Nuclear Research Reactor

Introduction

Location of ETHIOPIA



Introduction

Ethiopian Radiation Protection Authority (ERPA)
was **Established** by Proclamation

- The 1st legislation governing the regulatory control of ionizing radiation sources was in place since December 1993 – with the promulgation of the Radiation Protection Proclamation no. 79/1993
- The former National RP Law of 79/1993 is being replaced by 571/2008)
- New Proclamation (Proclamation No. 1025/2017 Nuclear and Radiation Protection Proclamation) including provisions on radioactive waste management, Control of Norm and the transport of radioactive materials among other things was approved by the member of the parliament in 2017

Introduction

The main objectives of the Authority (ERPA) as stated in the new Proclamation are to:-

- Regulate in respect to the safety, security and safeguards to ensure the peaceful use of radiation and nuclear technologies to support the national socio-economic and technological development.
- Protect individuals, the society, and the environment as well as current and future generation from radiation hazards.
- Promote research, in the subject of regulating radioactive materials and related activities and support the research activities.

Introduction

The Mission Statement of ERPA is:-

“To protect people, their property and the environment against the risk of damage from Nuclear and Radiation activities while ensuring the safe use of ionizing radiation and related nuclear techniques for the beneficial use of human kind and without causing undue burden to future generations in Ethiopia.”

Organizational Structure of ERPA

Ministry of Innovation & Technology

Director General

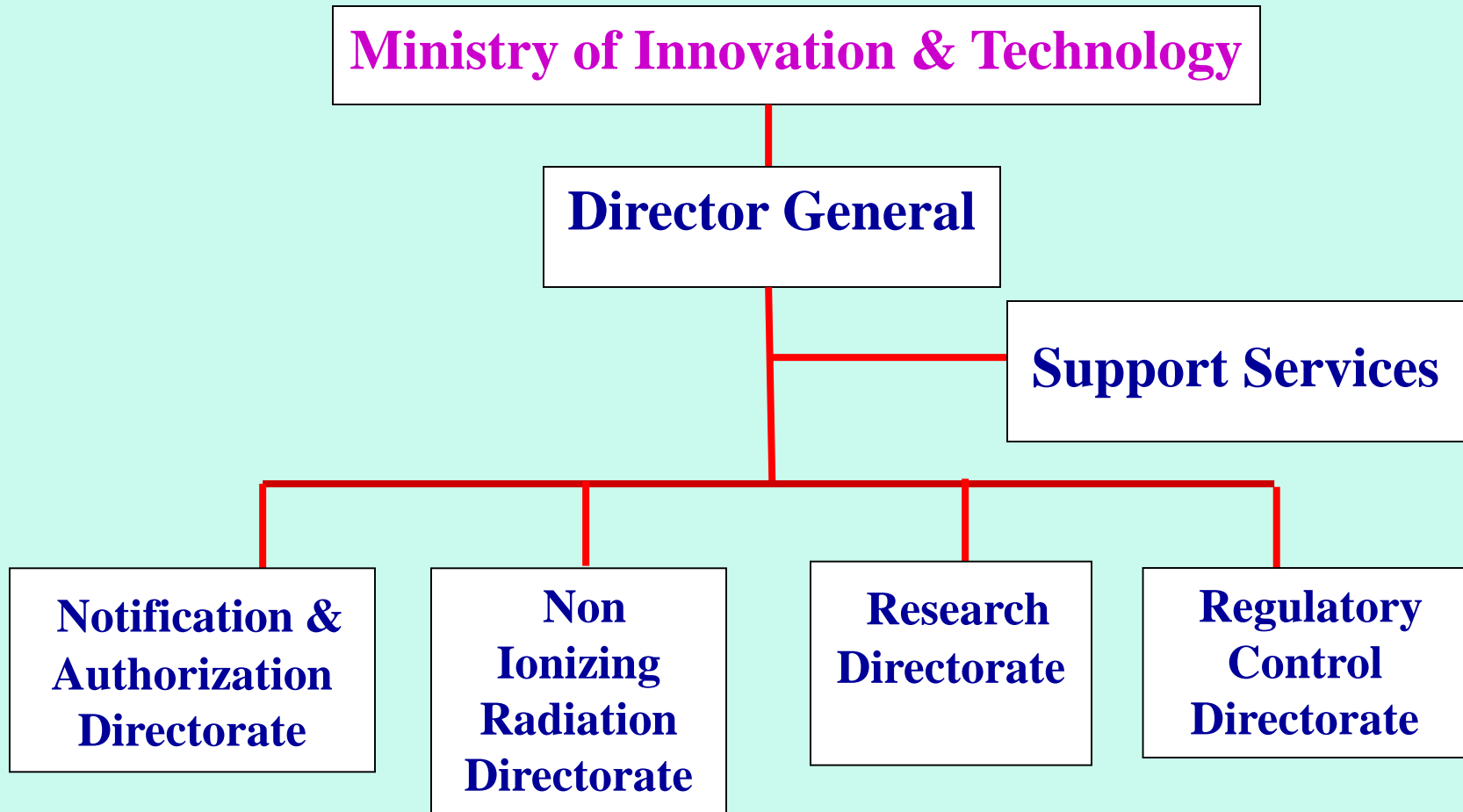
Support Services

**Notification &
Authorization
Directorate**

**Non
Ionizing
Radiation
Directorate**

**Research
Directorate**

**Regulatory
Control
Directorate**



Activities

Notification & Authorization Directorate

- Inventory of sources
- Handle Notification
- Authorization
- Awareness Training

Activities

Regulatory Control Directorate (RCD)

- Inspection of practices
- Handle Enforcement actions
- Environmental monitoring
- Radioactive waste management, Emergency preparedness and response

Activities

Search and Securing of radioactive waste conducted and stored

Transferring of NDG from
MIDROC Gold Mine to ERPA.



Activities

ERPA Central waste processing and storage Facility



Nuclear Research Reactor

In March 2018

- The Government signed an agreement with Russia to set up nuclear technology.

August 2018

- The Government gave mandate to the Ministry of Innovation and Technology to run the task
- The ministry Create a National task force which consists of different professionals

Nuclear Research Reactor

- The task force follows the specific requirements for RRS (Milestones for a Research Reactor Project) and
- Justify the need for New research reactor
- Provide strategic Plan to have research reactor based on IAEA requirements (NG-T-3.16)

Nuclear Research Reactor

- Ministry of Innovation and Technology made agreement with Russia to build Research Reactor with special focus on
 1. Agriculture
 2. Education
 3. Health
- The task force identify the potential stakeholders
- Prepare awareness training for those stake holders and potential users of the technology
- Prepare questionnaire for the stakeholder to get their feed back

Nuclear Research Reactor

- The task force follows the specific requirements for RRS (NP-T-5.1 Milestones for a Research Reactor Project) and
- Evaluate the response collected from the stakeholders and
- The task force reach an agreement to expand stakeholders composition as much as possible to get more reliable data
- Proposed ideal sites based on IAEA site selection requirement
- Site Survey and Site Selection for Nuclear Installations **NP-T-**

5.1

The way forward

- Requested IAEA expert mission and proposed for August 2019
- Site selection (experts are already assigned with different discipline) and proposed to finalize September 2019
- Technology selection and evaluation December 2019

National Drawbacks & Challenges

- Lack of trained personnel
- Poor awareness level by stakeholders
- Need to enhance Coordination of Stakeholders



Thank you!

