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Cyber Security and CIIP
- RWANDA -

Cyber Security and CIIP

Towards a primarily knowledge based economy by the year 2020

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Agenda

- NICI Plan
- Challenges
- Strategies to overcome challenges
- Regulator Obligations

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NICI Plan

- NICI Plan: National Information and Communication Infrastructure Policy and Plan.
- 1999 - 2020, 20 years journey to reduce poverty
- Objective: Move from a primarily agricultural economy to a primarily knowledge based economy by the year 2020.
- 2000: NICI Plan framework created to achieve this ambitious mission.

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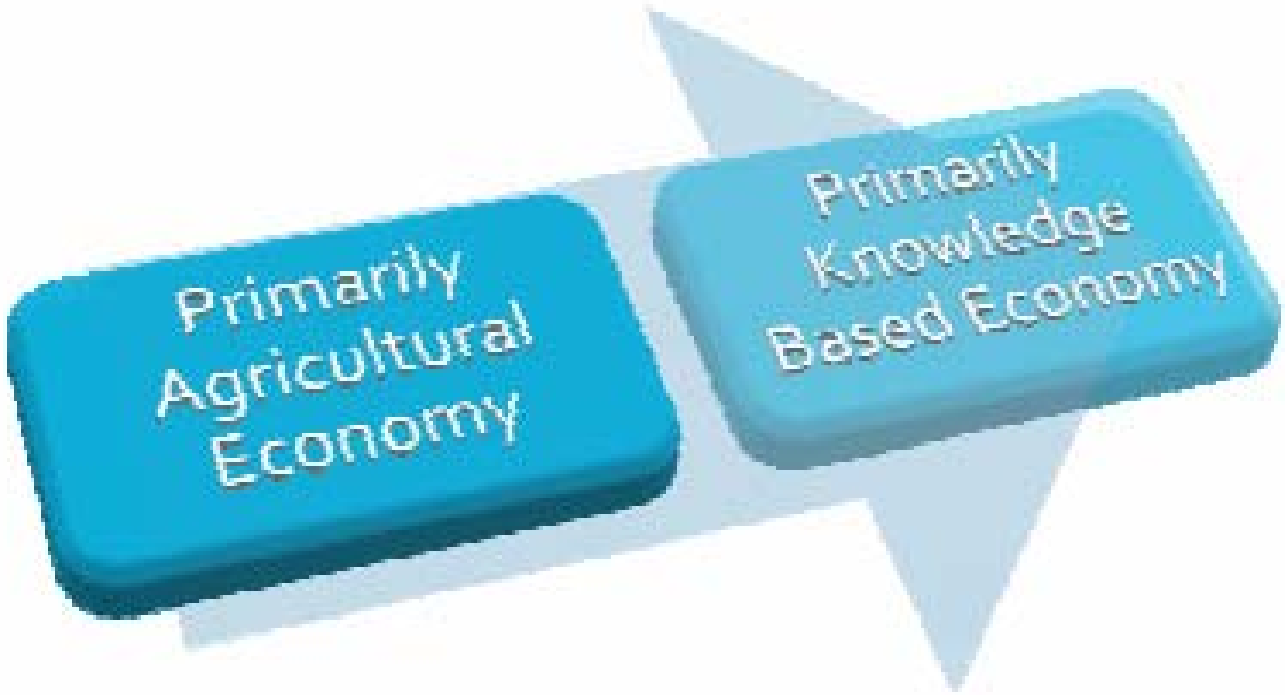
NICI Plan objective



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NICI PLAN phases

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Challenges

- 2006: <<Solution Building>> phase introduces new ICT applications and Cyber Security issues.
- Lack ICT applications policy and regulatory framework
- Lack of awareness of Cyber Security Issues.

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Strategies to overcome Challenges

- 2001: Creation of RURA (Rwanda Utilities Regulatory Agency)
- With mission to regulate certain public utilities, namely:

  - Telecommunication
  - ICT,
  - Water
  - Gas
  - Transport
  - Electricity

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Strategies to overcome challenges

- Security is a principal Concern
- Adoption of appropriate legislation against the misuse of ICTs for criminal or other purposes and activities intended to affect the integrity of our national CII.
- Targeted stakeholders:
  - Policy Makers: Ministry of ICT
  - Licensing and Regulatory Framework: Regulator
  - Judiciary power professionals
  - Business owners & Managers
  - IT providers and professionals
  - End Users

RURA: Organization Structure

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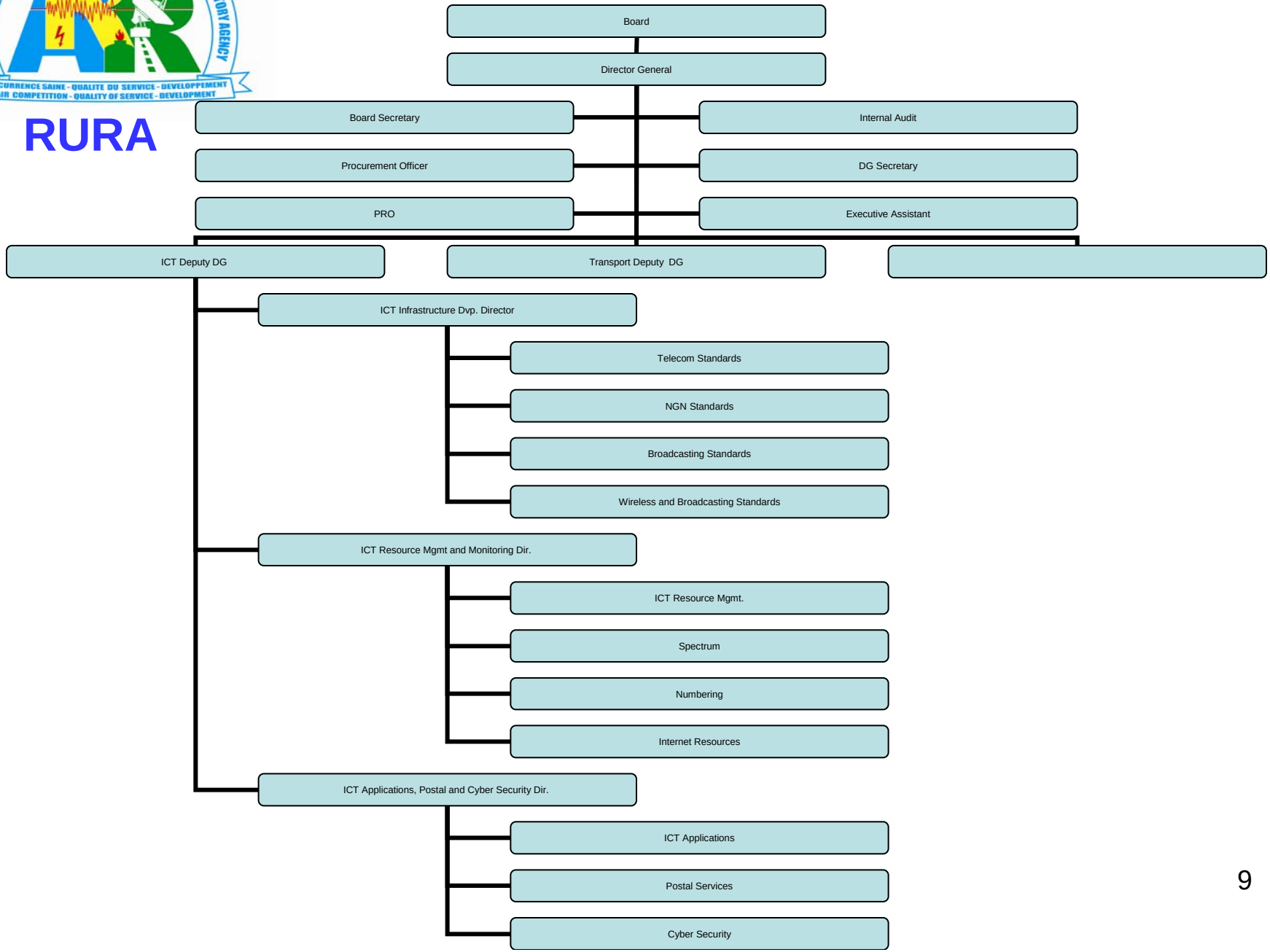

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Cyber Security & CIIP: Obligations

Regulator:

- ❑ Define National Cyber Security strategies and guidelines (ITU standards)

Judiciary Power professionals:

- ❑ Define a legal framework enforceable at a national level but compatible with international level
- ❑ Develop measures to fight against cyber crime and collaborate at international levels

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Cyber Security & CIIP: Obligations, contd.

Business owners & Managers

- ❑ Produce effective security processes
- ❑ Awareness of ICT related risks and security costs
- ❑ Collaborate with the Cyber Security regulator and technical professionals.

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Cyber Security & CIIP: Obligations, contd.

IT providers and professionals

Analyze, design, develop and implement efficient security tools and measures of protection that are:

- Cost effective
- user friendly
- Transparent
- Auditable
- Third party controllable

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Cyber Security & CIIP: Obligations, contd.

End-Users

Awareness among all users

- Adoption of a security behaviour for ICTs

  Help the end user to understand the threats (virus, spam, identity theft, data protection, privacy…):

  - Raise awareness of Cyber Cafe managers and school managers
  - To make them define practical recommendations for the safe use of ICT and communicate them to people they interact with.

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Cyber Security & CIIP: Obligations, contd.

End-Users

- Facilitate definition and deployment of national cyber security strategies and international cooperation:
  - Create local know how based on well recognized standards and answer specific local needs by integrating local cultural values in national standards derived from international standards and recognized best practices.

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Cyber Security & CIIP: Obligations, contd.

End-Users

- Vehicle a common understanding of what Cyber Security means to all.
- Educational events in partnership with local actors (schools, private or public institutions etc…)

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Thanks for your attention