XI CONGRESO INTERNACIONAL DE ESPECTRO

HABILITADOR DE DESARROLLO Y COMPETITIVIDAD

What can we do for the spectrum?

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Director, ITU Radiocommunications Bureau

Nov/2021

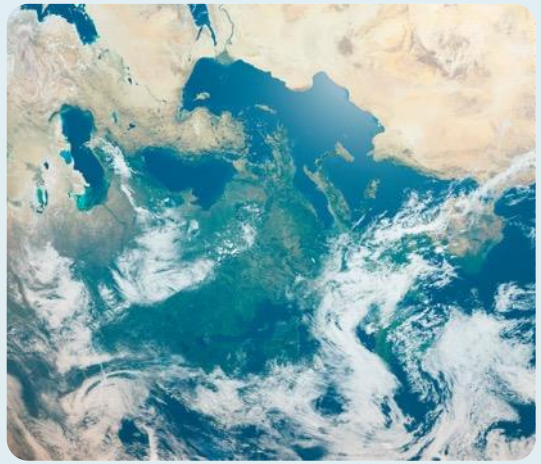
Spectrum in National, Regional, and International levels

National and Regional policies feed the International Framework

International Regulations feed the Regional and National Frameworks

Connectivity

Digital Transformation



Sustainability

Digital Inclusion

Spectrum Policies

What are the national priorities?

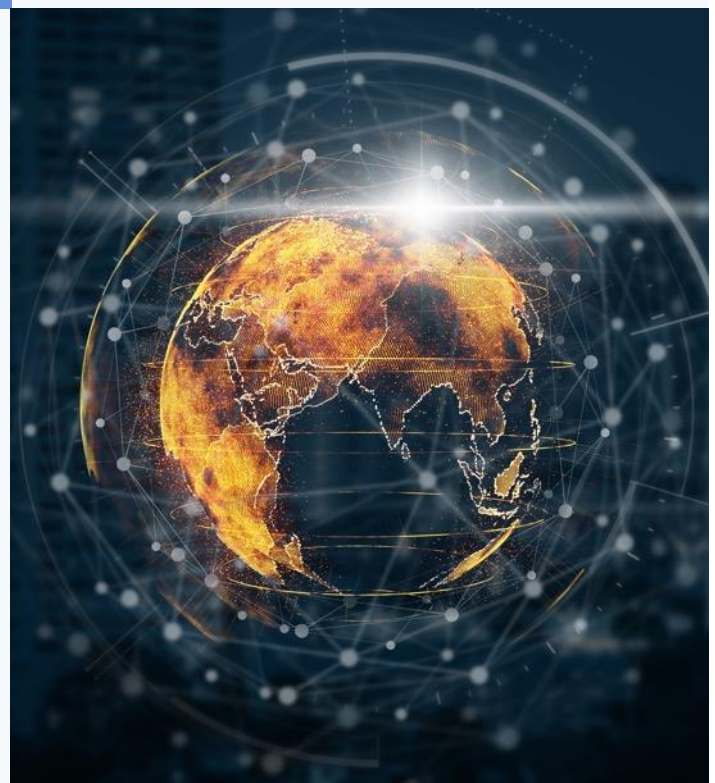
What problems are we trying to solve?

Terrestrial Services

- **Mobile Services (IMT, RLANs, including Wi-Fi)**
- **Fixed Services**
- **HAPS/HIBS**

Satellite Services

- **Satellite Services (GSO, non-GSO)**
- **MSS IoT**
- **Space Services**



Spectrum Regulation

What services could be used to address different spectrum policies?

How to balance the needs of different services?

Eliminate harmful interference

International Regulations

Ensure rational, equitable, efficient and economic use of spectrum by all services

How to address the needs of different countries while avoiding harmful interference?

International Standards

All radiocommunication services

- Emergency communications (publc protection and disaster relief, search and rescue)
- Aeronautical (unmanned aircraft systems, sub-orbittal vehicles)
- Maritime (safety of life at the sea, global maritime distress and safety system)
- Broadcasting (standards for television)
- Satellite systems (global radionavigation satellite systems, ESIMs, VSATs)
- Etc

Education

Health

Agriculture

Energy and Utilities

Spectrum Licensing

What licensing models to use?

How to address the needs of other sectors/verticals?

Integrated Approach

01. **Coverage**

Rural and remote areas have access to secure and high-quality broadband networks

02. **Affordability**

Services and devices are affordable to the end-user

03. **Digital skills**

People have the skills they need to use these services

04. **Relevant content**

Content is localized and meaningful

Environmental Impact & Resilience

New considerations in the post-COVID-19 era

- Environmental impact of radiocommunication devices (e.g. energy efficiency)
- Resilience of networks in facing increasing number of natural disasters and global pandemics

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Thank You

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