Orbit/Spectrum ITU International Regulatory Framework

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ITU in brief

✓ Founded on 17 May 1865

Leading United Nations agency for *Information and Communication Technologies (ICTs)*

5 Elected Officials

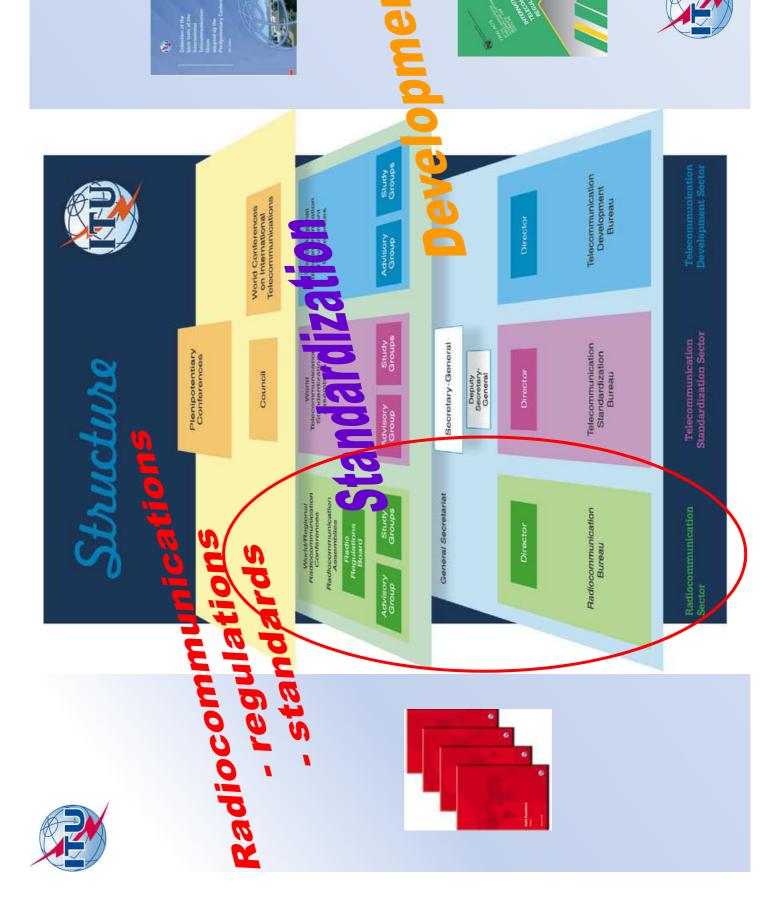✓193 Member States,
> 700 Sector Members , Associates
& *Academia*

✓750 staff & 100 nationalities

✓Annual budget = US$180,000,000

4 regional offices, 8 area offices
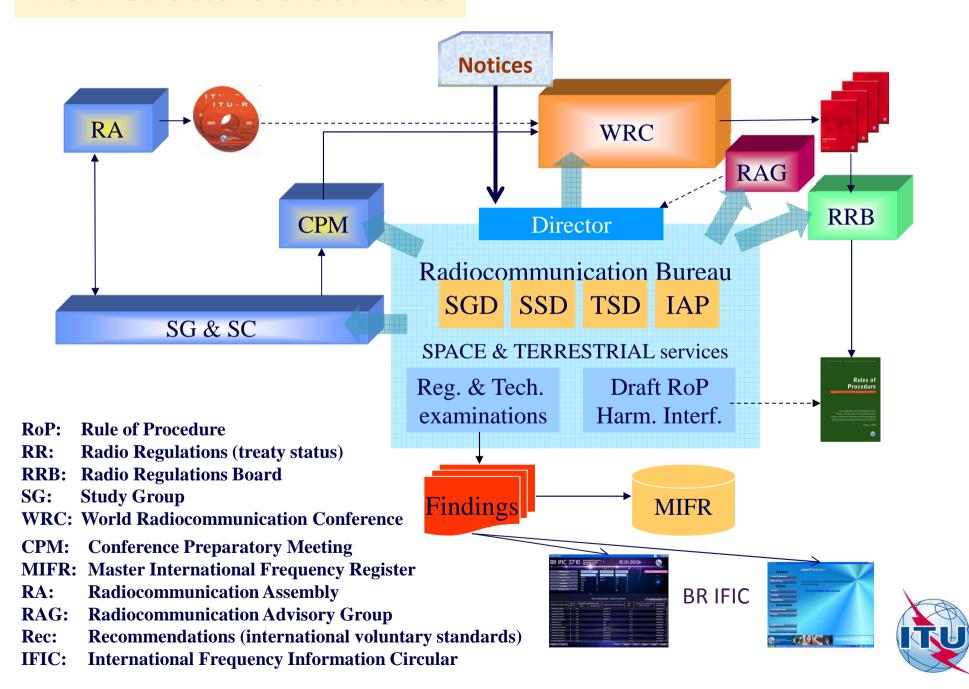HQ in Geneva, Switzerland

http://www.itu.int

MOSCOW
GENEVA
BRIDGETOWN
TEGUCIGALPA
DAKAR
CAIRO
BANGKOK
YAOUNDE
ADDIS ABABA
JAKARTA
SANTIAGO
BRASILIA
HARARE

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ITU-R structure & activities

Notices

WRC

RA

CPM

Director

RAG

RRB

SG & SC

Radiocommunication Bureau

SGD SSD TSD IAP

SPACE & TERRESTRIAL services

Reg. & Tech. examinations

Draft RoP Harm. Interf.

Rules of Procedure

Findings

MIFR

BR IFIC

RoP: Rule of Procedure
RR: Radio Regulations (treaty status)
RRB: Radio Regulations Board
SG: Study Group
WRC: World Radiocommunication Conference
CPM: Conference Preparatory Meeting
MIFR: Master International Frequency Register
RA: Radiocommunication Assembly
RAG: Radiocommunication Advisory Group
Rec: Recommendations (international voluntary standards)
IFIC: International Frequency Information Circular

ITU Key priorities

➢ **radio spectrum**

➢ **international standards**

➢ **emergency communications**

➢ **digital dividend**

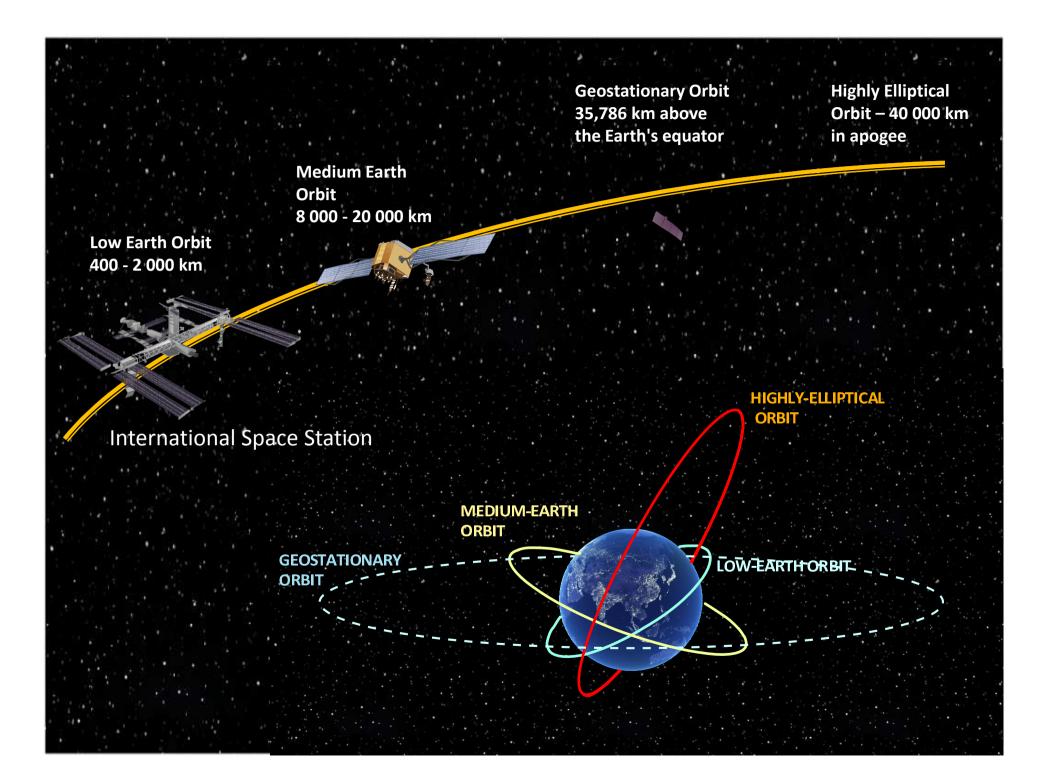➢ **cyber security**

Summarizing ...

The **ITU-R** coordinates global wireless communication and technical standards

The **ITU-D** provides technical assistance to the un-connected, emergency communication, ICT

The **ITU-T** produces interoperable technical ICT standards

The **ITU GS** provides *inter-sectorial* coordination, management, promotion for the whole organization

Geostationary Orbit
35,786 km above
the Earth's equator

Highly Elliptical
Orbit – 40 000 km
in apogee

Medium Earth
Orbit
8 000 - 20 000 km

Low Earth Orbit
400 - 2 000 km

International Space Station

HIGHLY-ELLIPTICAL
ORBIT

MEDIUM-EARTH
ORBIT

GEOSTATIONARY
ORBIT

LOW-EARTH ORBIT

```
ERROR: undefinedresult
OFFENDING COMMAND: makepattern

STACK:

[0.0 34.332 0.0 0 3467.19 -2.36305e+08 ]
-dictionary-
false
[0.0 34.332 0.0 0 3467.19 -2.36305e+08 ]
-dictionary-
```