



Challenges for Satellite ICT & e-infrastructure

Enrique Pacheco-Cabrera

Deputy Director for Space Science and
Technology

Mexican Space Agency



Priorities for the AEM

Help to solve national problems and needs

- Using the capabilities that offer the space

Jobs creation

- Using the capabilities that offer the space

Challenges

Economic

**Time and Cost of
Projects**

**Government as sole
source of funding**

**Necessities and short
time vision**

Organizational

Management

Technical Knowledge

Long Term policies

Social impact perception

Space Infraestructure

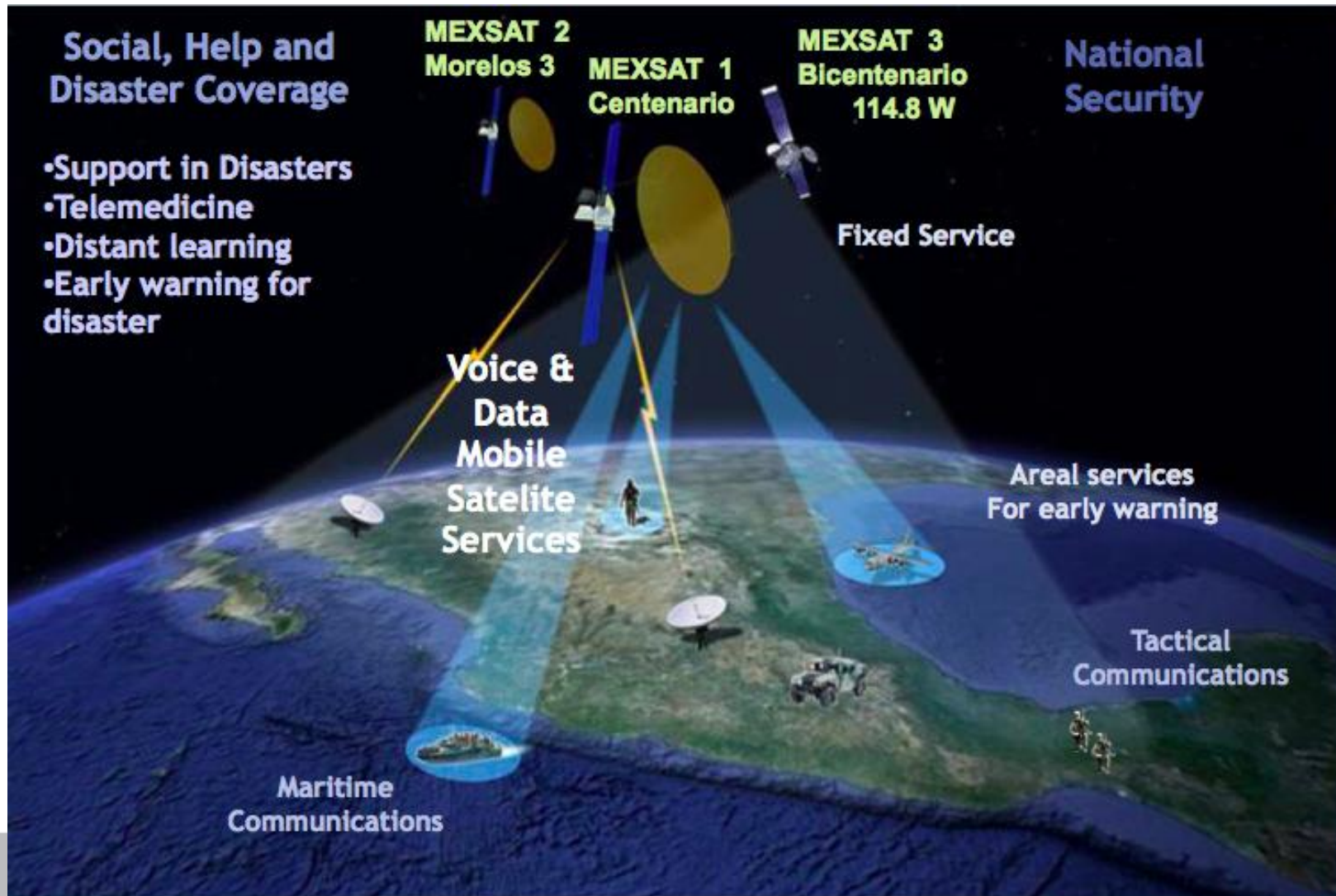
Space infrastructure is the backbone that supports and connects satellite space systems for national security applications, disaster management and early warning, **connectivity**, social benefits, environmental sustainability and scientific and technological research

Space Infraestructure

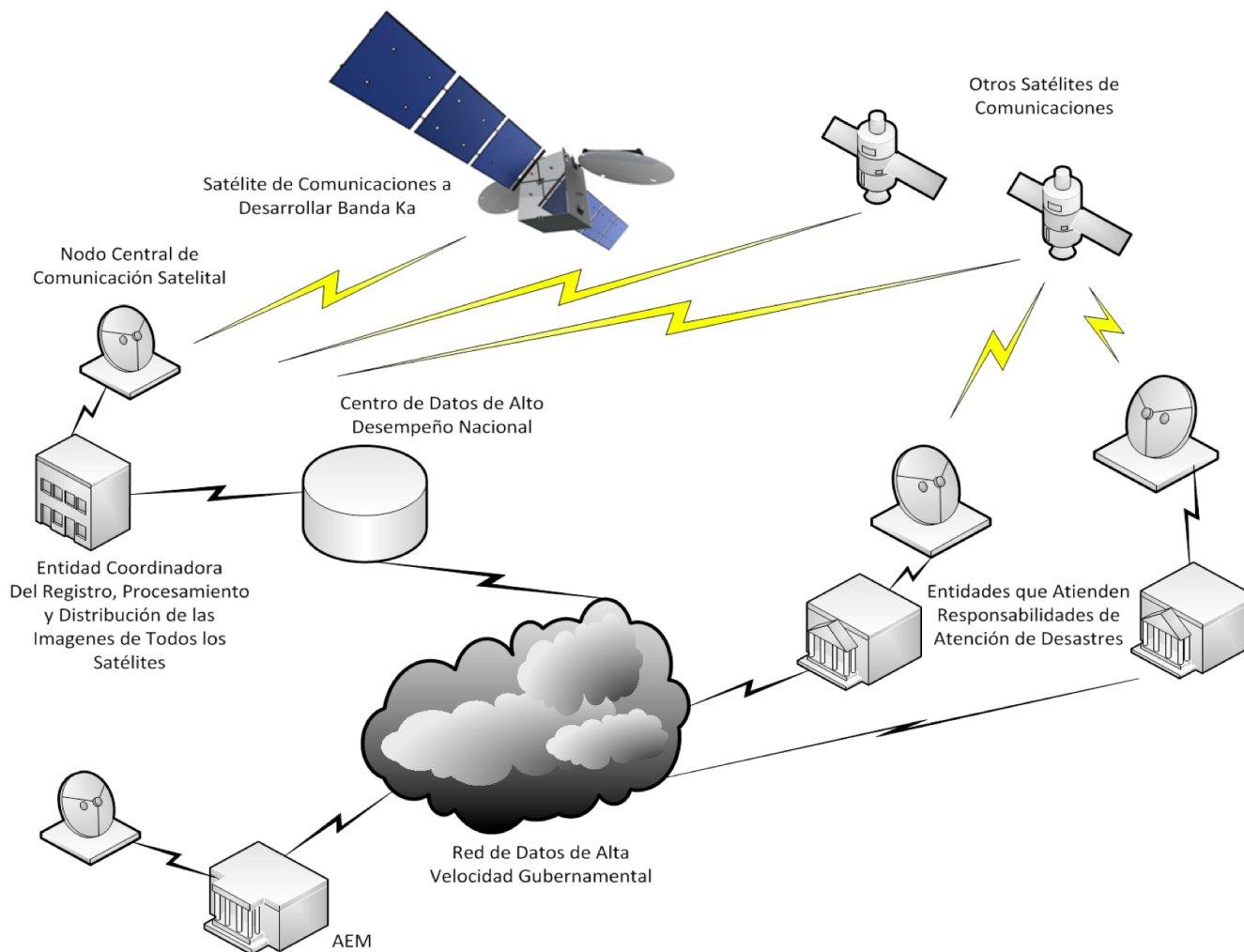
The set of tangible and intangible assets needed for the study, access, exploration, use and exploitation of space

- Tangible assets include rockets, launch platforms and systems, suborbital vehicles, satellites and other spacecraft, instrumentation, payloads, ground stations, teleports, receiving antennas, user terminals and other devices for link control.
- Intangibles assets include orbital positions and frequencies associated, laws, regulations, technologies, patents, licenses, concessions, trademarks and "know-how".

MexSat Satellite System

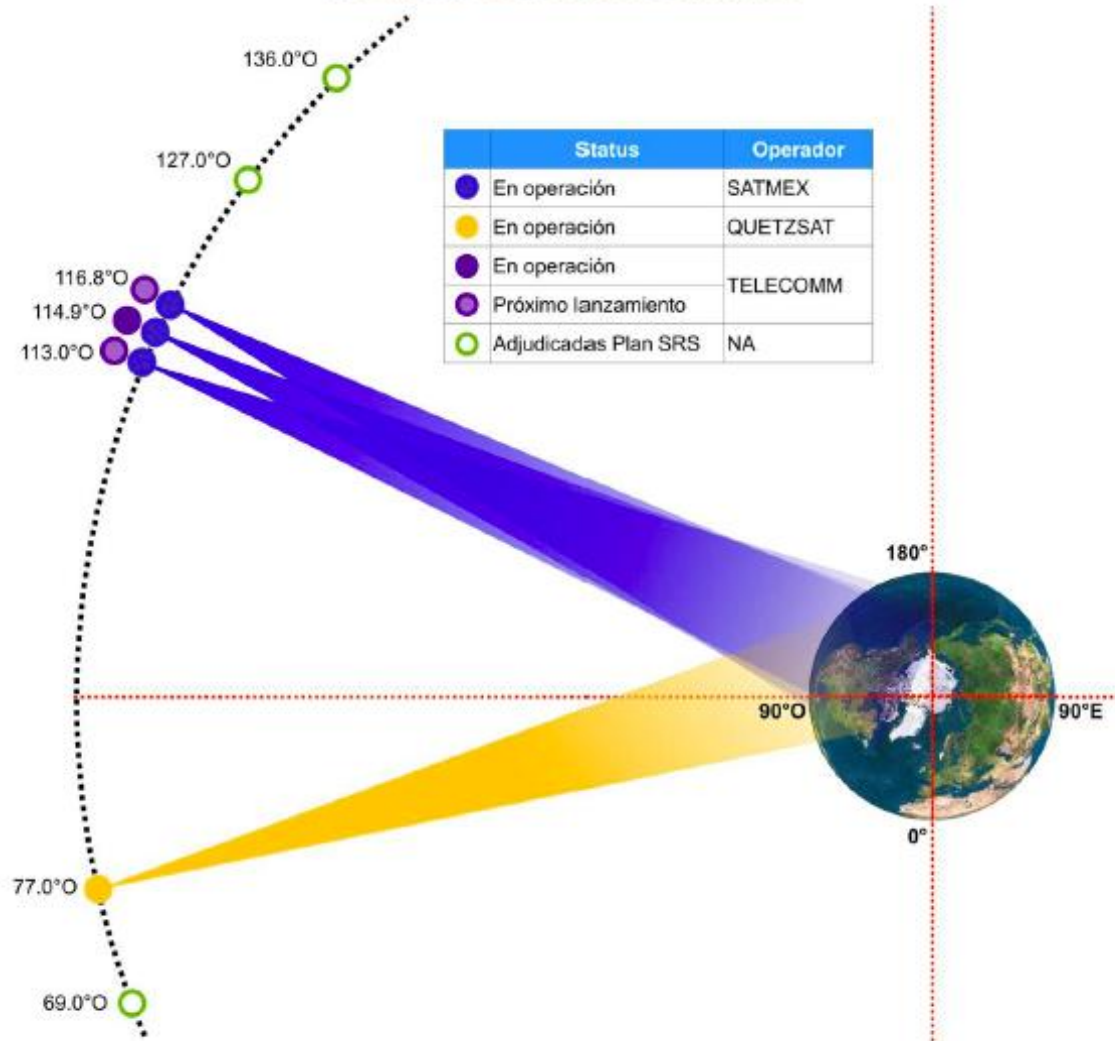


Space infrastructure for Satellite Communications

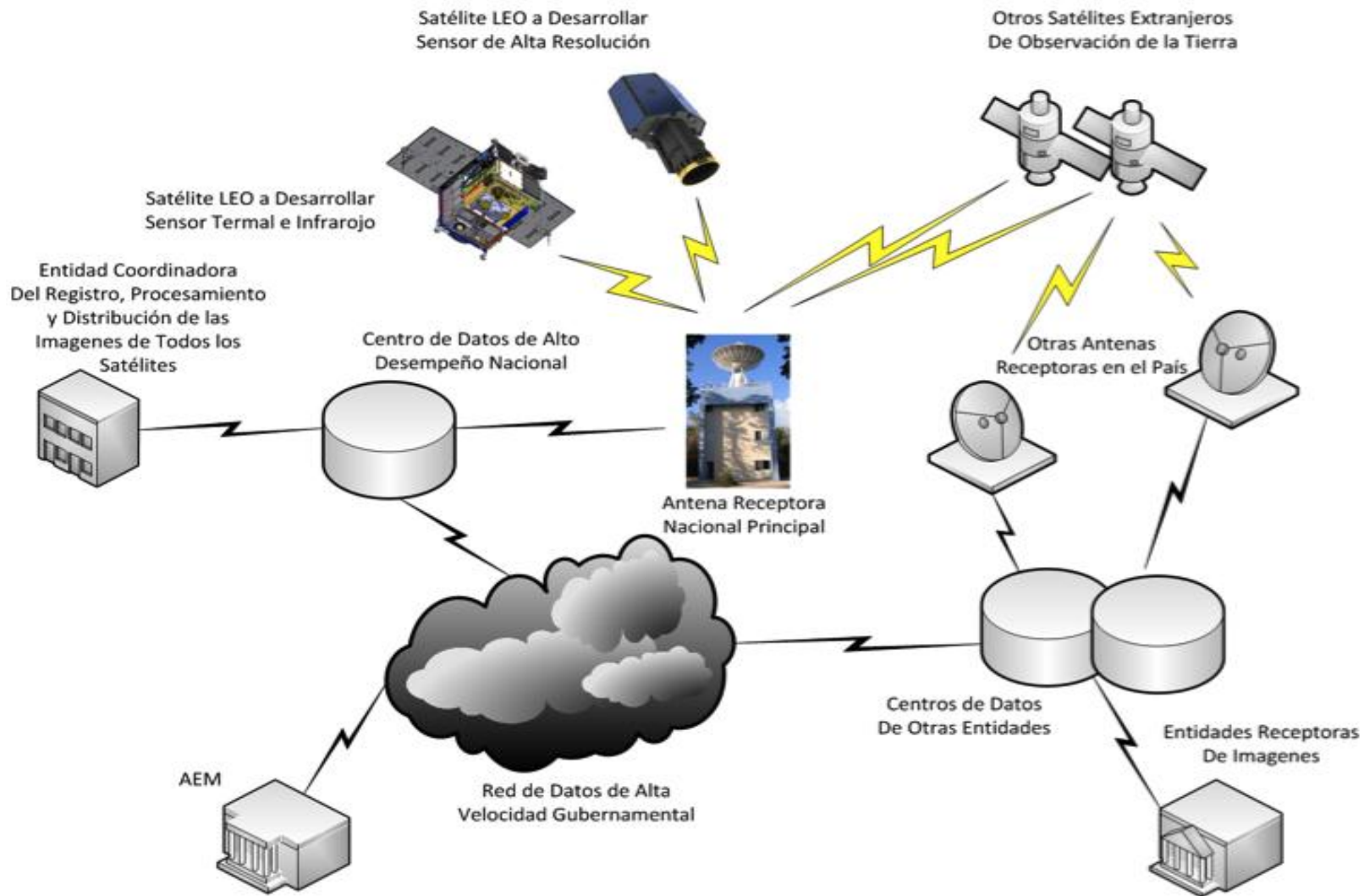


Space infrastructure for Satellite Communications

Resumen de recursos orbitales



Space infrastructure for Earth Observation



Summary

- **Space infrastructure a change of vision**
- **Big-data problem associate with the use of space infrastructure.**
- **Capacity building base on the early warning system project.**

Gracias



pacheco.enrique@aem.gob.mx