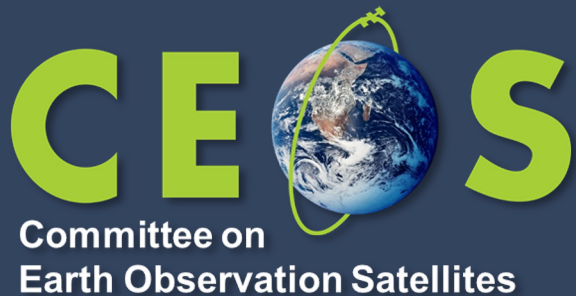


37th CEOS Plenary

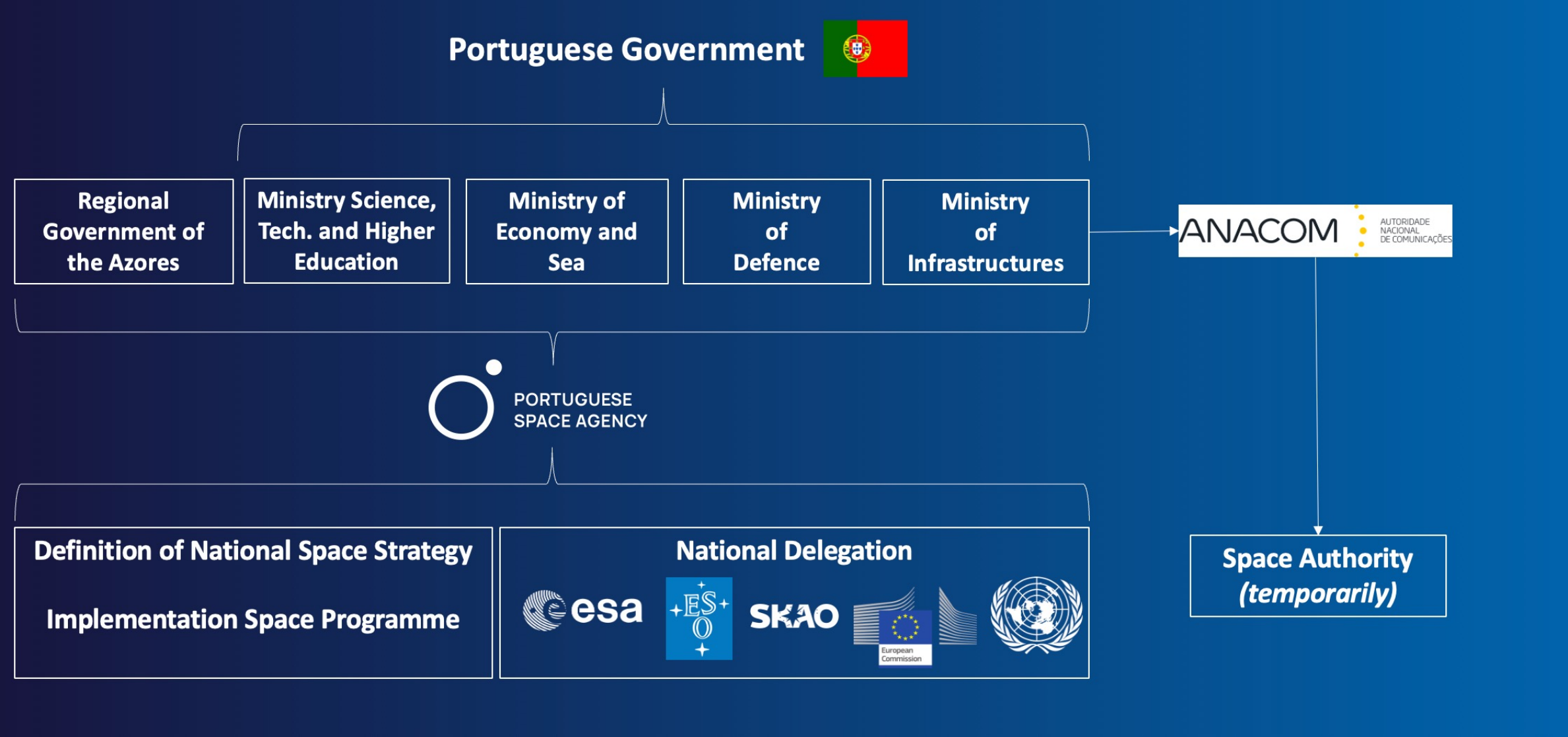


PORTUGUESE
SPACE AGENCY

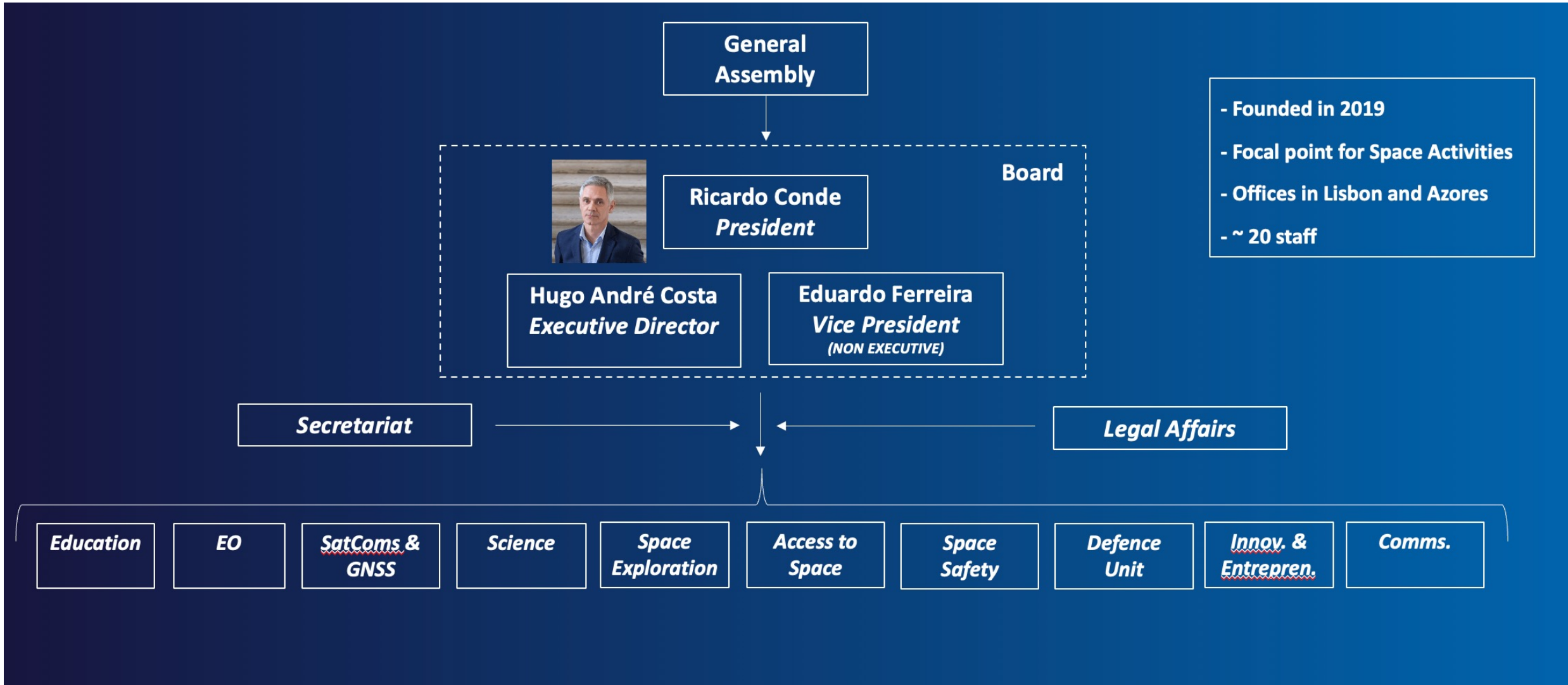


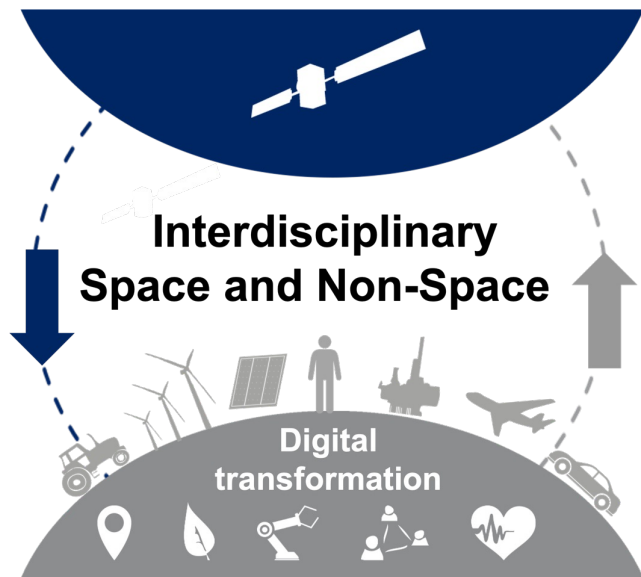
Hugo André Costa
Agenda Item 3.2
37th CEOS Plenary
15 - 16 November 2023
Chiang Rai, Thailand
Hosted by GISTDA

Portuguese Space Agency - Overview



Portuguese Space Agency - Overview





Public
administration

Academia and
Research
Institutes

Companies
and start-ups

Uptake and training:

- ❖ Identifying skills and needs
 - Identify current and potential users;
 - Map existing skills, resources and needs.
- ❖ Raise awareness
 - Dedicated info sessions;
 - Conferences;
- ❖ Build capacity
 - Training courses;
 - International co-operation.
- ❖ Create business opportunities
 - Business innovation events;
 - SMEs internationalization.



O programa Europeu para a Observação da Terra
Ciclo de Sessões Informativas Online
#1: 29 de Janeiro de 2021 - Serviços e aplicações no meio marinho

O programa Europeu para a Observação da Terra
Ciclo de Sessões Informativas Online
#3: 13 de Maio de 2021 - Oportunidades de Negócio

CONFERÊNCIA NACIONAL COPERNICUS
ÉVORA
13 e 14 de dezembro 2021

Webinars

- Thematic with local use-cases

National Copernicus Conference – biannual (next in 2024)

- >100 in person participants – all thematic areas
- Academia, Public administration and Companies
- Booklet of the first edition (PT/EN):
https://ptspace.pt/wp-content/uploads/2022/03/Brochura_Conferencia_Nacional_Copernicus-.pdf





Energy Sector

- End users and service providers presentations
- Match-making
- Training hands-on sessions

Smart Cities

- End users and service providers presentations
- Match-making
- Training hands-on sessions

Sentinel 3; Marine and coastal applications;
Sentinel 2; Land applications

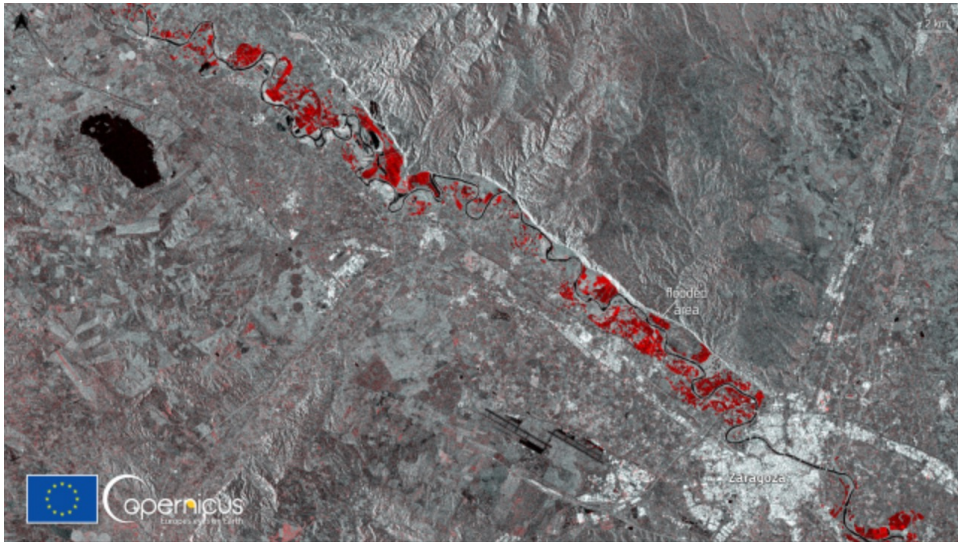
December 2023: Forestry; Agriculture



Copernicus uptake in Higher Education

- Mapping status, gaps and opportunities
- MOOC
- Workshops
- Final challenge





Copernicus4Schools – Disaster challenge

- High schools students
- Using the Copernicus data to learn about disaster management
- Students from different European countries sharing their experience





Copernicus Uptake in Africa – Training of Trainers

- The Portuguese Space agency is responsible for implementing the activities in Angola and Mozambique
- AIR Centre will implement the activities in STP and Cape Verde
- Training 10 African trainers in Portuguese language





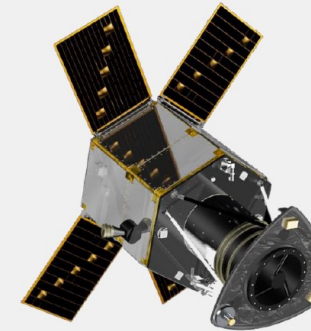
GEOSAT

GEOSAT 1



- ▶ 625km swath @ 22m
- ▶ 2-3 days of revisit
- ▶ 3-bands
 - ▶ Red
 - ▶ Green
 - ▶ NIR

GEOSAT 2



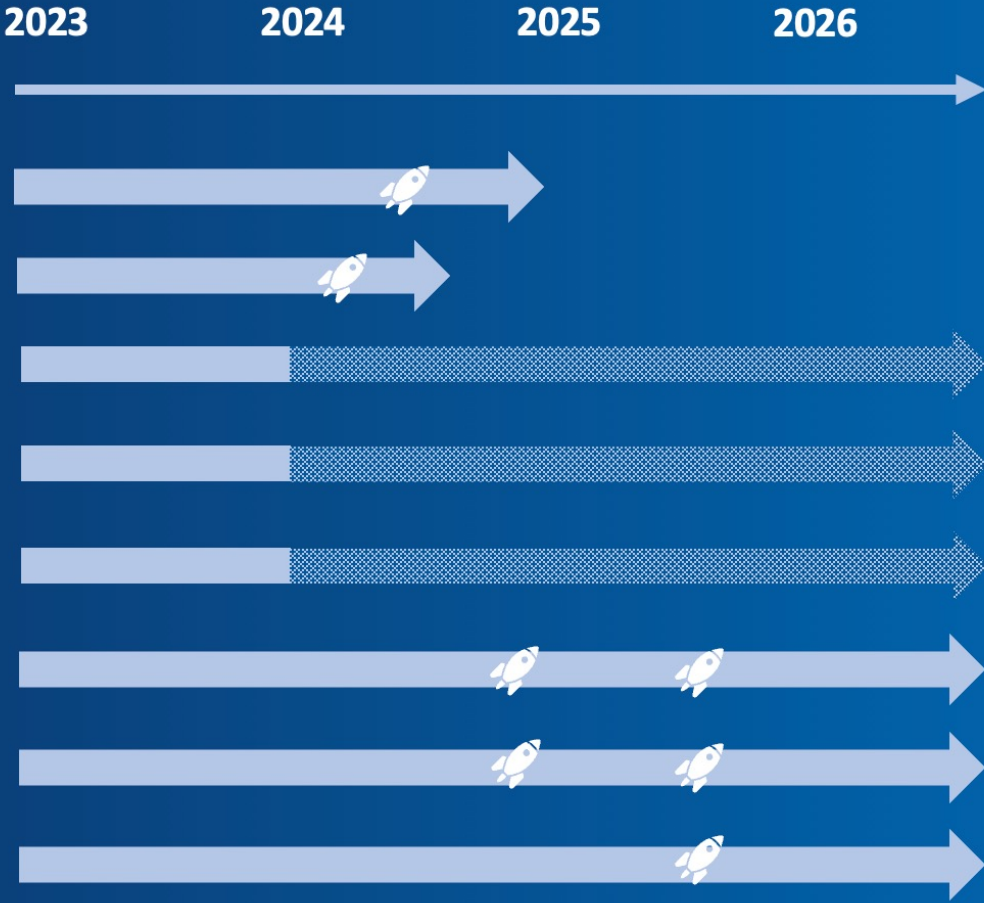
- ▶ 12km swath @ 75cm ; Super-resolution @40cm
- ▶ 2 days of revisit
- ▶ 5-bands
 - ▶ Panchromatic
 - ▶ Red
 - ▶ Green
 - ▶ Blue
 - ▶ NIR

Upstream activities



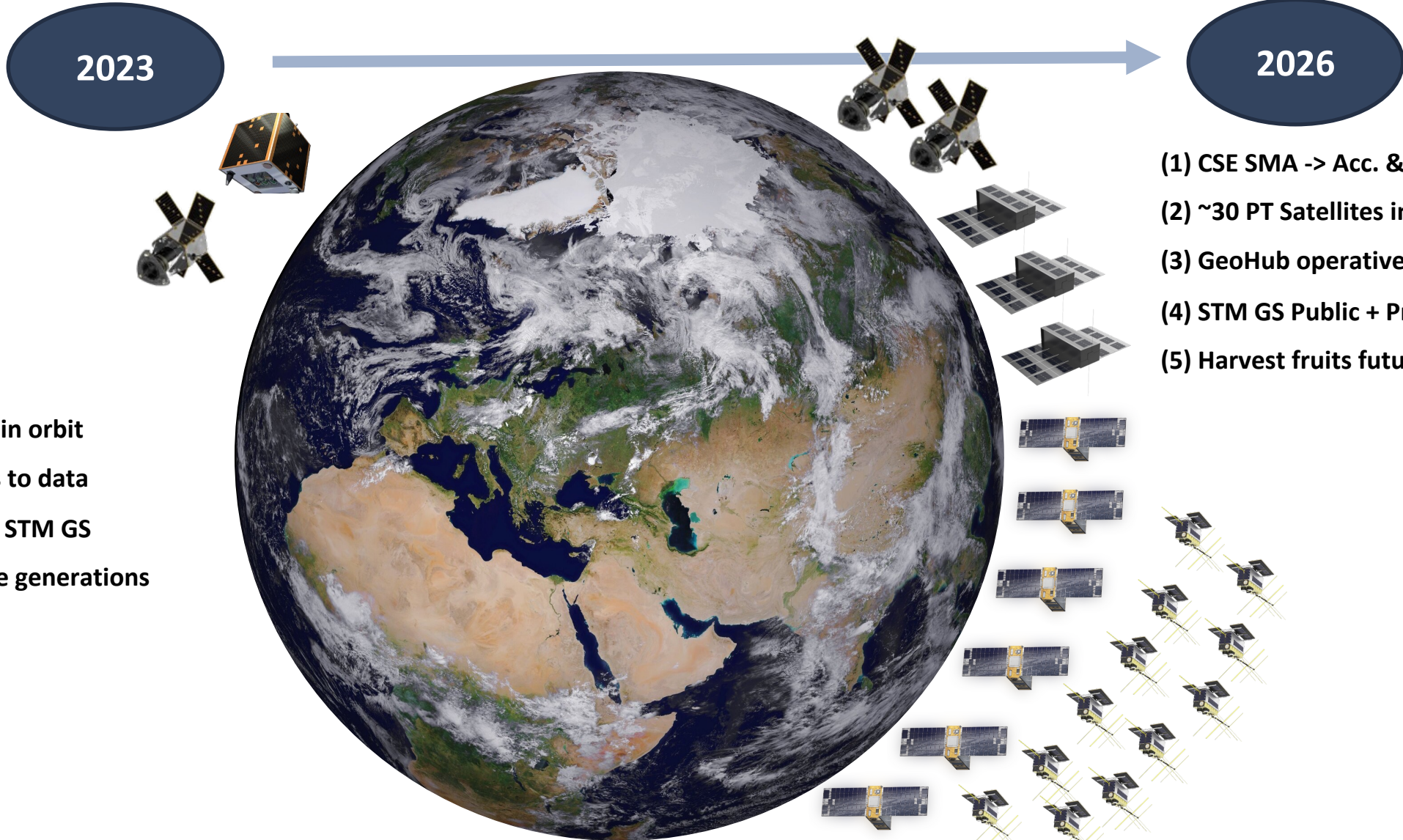
Initiative (*)	Leader	Objective
ISTSat-1	IST	1 Sat ADS-B
<u>Aeros</u>	<u>Edisoft</u>	1 Sat EO Hyperspectral + RGB
<u>Magal</u>	<u>Efacec</u>	1 Sat EO Radar Altimeter
<u>uPGRADE</u>	<u>Spin.Works</u>	1 Sat EO Gravimetry
<u>Newsat</u>	Stratosphere / INEGI	1 Sat EO Thermosphere Character.
Optical Const.	<u>Geosat</u>	8 Sats EO Optical HR 3 Sats EO Optical VHR (50cm)
VDES Const.	Lusospace	12 Sats VDES
SAR Const.	<u>idD / Tekever</u>	3 Sats EO SAR

(*) Industry led initiatives



~30 Satellites to be launched until 2026

Capacity Building

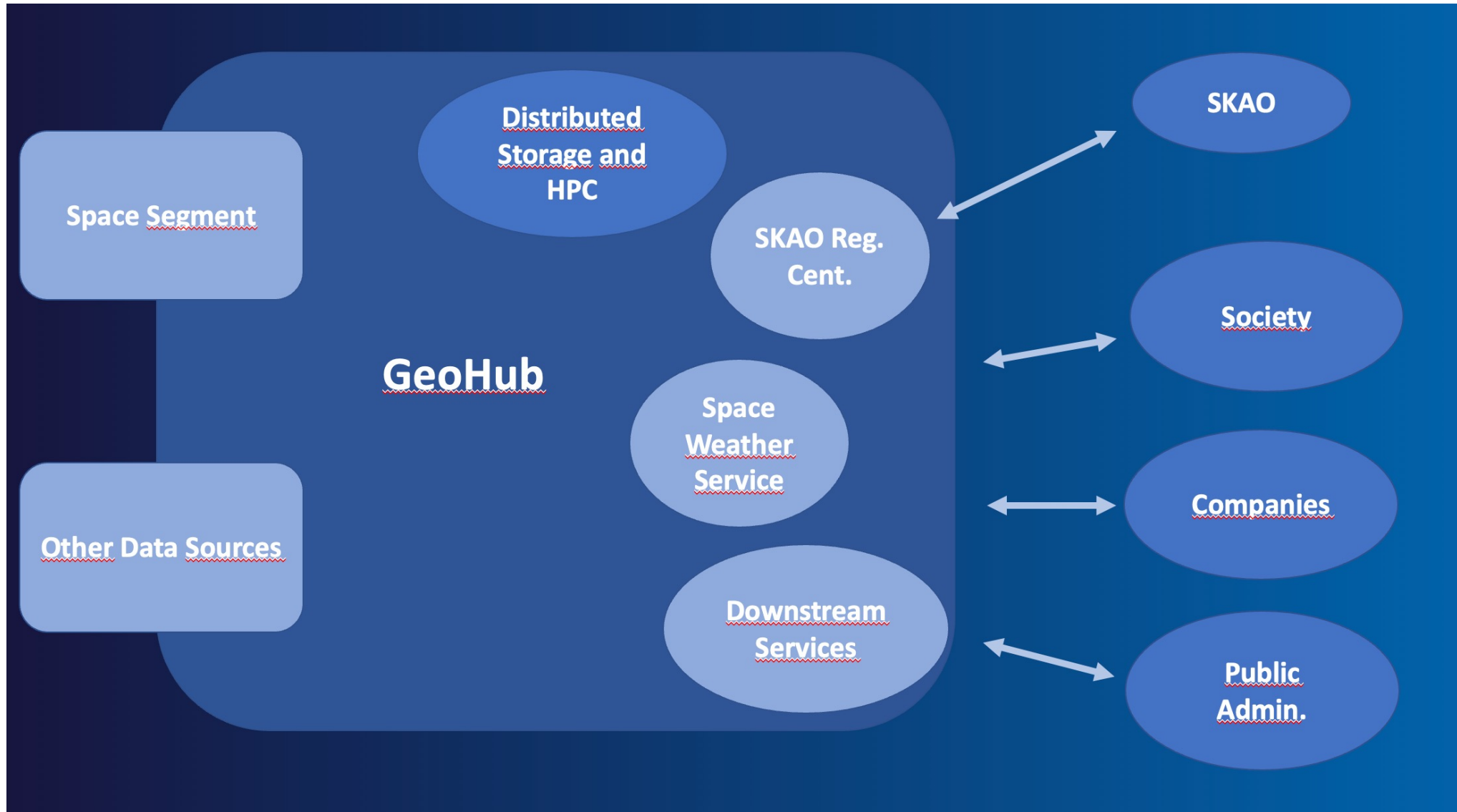


2023

2026

- (1) SMA Teleport
- (2) 2 PT satellites in orbit
- (3) Limited access to data
- (4) Limited public STM GS
- (5) Seed for future generations

- (1) CSE SMA -> Acc. & return from space
- (2) ~30 PT Satellites in orbit
- (3) GeoHub operative
- (4) STM GS Public + Private
- (5) Harvest fruits future generations



Obrigado! ขอบคุณ ครับ !



Lisbon area, Portugal
GEOSAT-1 | NRG 20m