



HELLENIC REPUBLIC  
MINISTRY OF DIGITAL GOVERNANCE



GREEK NATIONAL  
SMALLSAT PROGRAMME

*FUNDED BY RRF*





# NATIONAL SMALLSAT PROGRAMME

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**€130 Million** divided into 4 distinctive areas of capacity building & capacity buying.

Axis 1.1 | Thermal

Axis 1.2 | SAR (Radar)

Axis 2 | GR EO Constellation

Axis 3 | Governmental Hub

**Programme milestone** | Q4 2025 (per RRF)

**small satellites** for cutting-edge space data, synergies with EU EO initiatives towards efficient environmental monitoring.

**Individual open ITT calls** for each of the Axes.





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## AXIS 1.1 | THERMAL SPACE SEGMENT





# AXIS 1.1 | Thermal Space Segment

Develop, deploy and launch part of **4 thermal sats** (minimum) by Q4/2025.

Deliver at least **4 images per day** (day & night acquisitions) for the GR AOI from Q2/2024

**Main Applications :** Pre/post-disaster services, preparedness & vulnerability assessment, early alerting, Urban heat island, Agriculture & irrigation, Industrial & Energy infrastructure, Border surveillance

## AXIS 1.1 Specs

### Budget

€20M

Space segment, ground segment (as a service), launching, & operations for at least 5 years

### Design Life

3 years (min)

Data and service provision must be provided for at least 5 years

### Design Specifications

GSD

The mission shall provide fire observation capability in the time frame of :

The mission shall allow multiple acquisitions within that timeframe & in the overpass of 12 hours later.

### KPIs

• **≤200 m** in the TIR spectrum

10.00PM - 6.00AM

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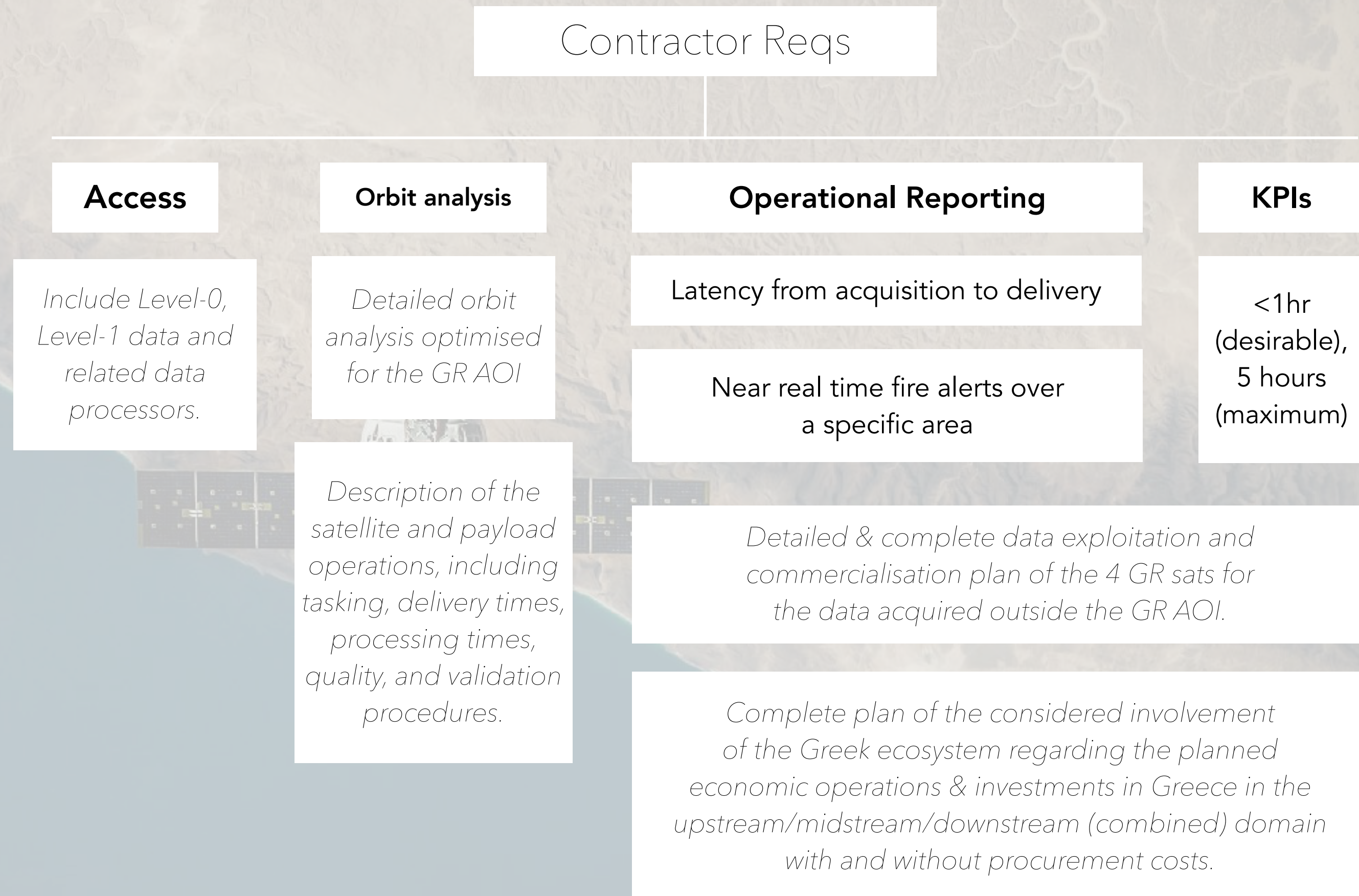
# AXIS 1.1 | Thermal Space Segment

## CONTRACTOR REQUIREMENTS

**Invitation To Tender (ITT)** will be opened to **all** EU Member States (**open tender**).

**Prime** contractor should be established in Greece & the **bidding consortium to target at least 30% of the overall contract value** of economic operations and/or investments in Greece.

If no Greek economic operators can deliver within the budget and schedule of the project and a non-Greek economic operator is proposed as a Prime or major subsystem subcontractor **a co-production line in Greece shall be established.**







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## AXIS 1.2 | SAR SPACE SEGMENT





# Axis 1.2 | SAR Space Segment

Develop, deploy and launch part of **2 SAR sats** (*minimum*) by Q4/2025.

Deliver **at least 5 images per day** for the GR AOI from Q2/2024.

**Main applications :** maritime situational awareness, Flood preparedness & monitoring, infrastructure monitoring, Landslides & micro-movements, IMINT, GEOINT, Feature extraction

## AXIS 1.2 Specs

Budget	Design Life	Design Specifications	KPIs
€33M	3 years (min)	Payload shall include SAR X-band payload with different Imaging Modes Sizes & Resolutions	0.5-15 m according to imaging mode
Space segment, ground segment (as a service), launching, & operations for <u>at least 5 years</u>	Data and service provision must be provided for <u>at least 5 years</u>	Day -night capability	
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# AXIS 1.2 | SAR Space Segment

## CONTRACTOR REQUIREMENTS

**Invitation To Tender (ITT)** will be opened to **all** EU Member States (**open tender**).

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## AXIS 2 | GR CONSTELLATION

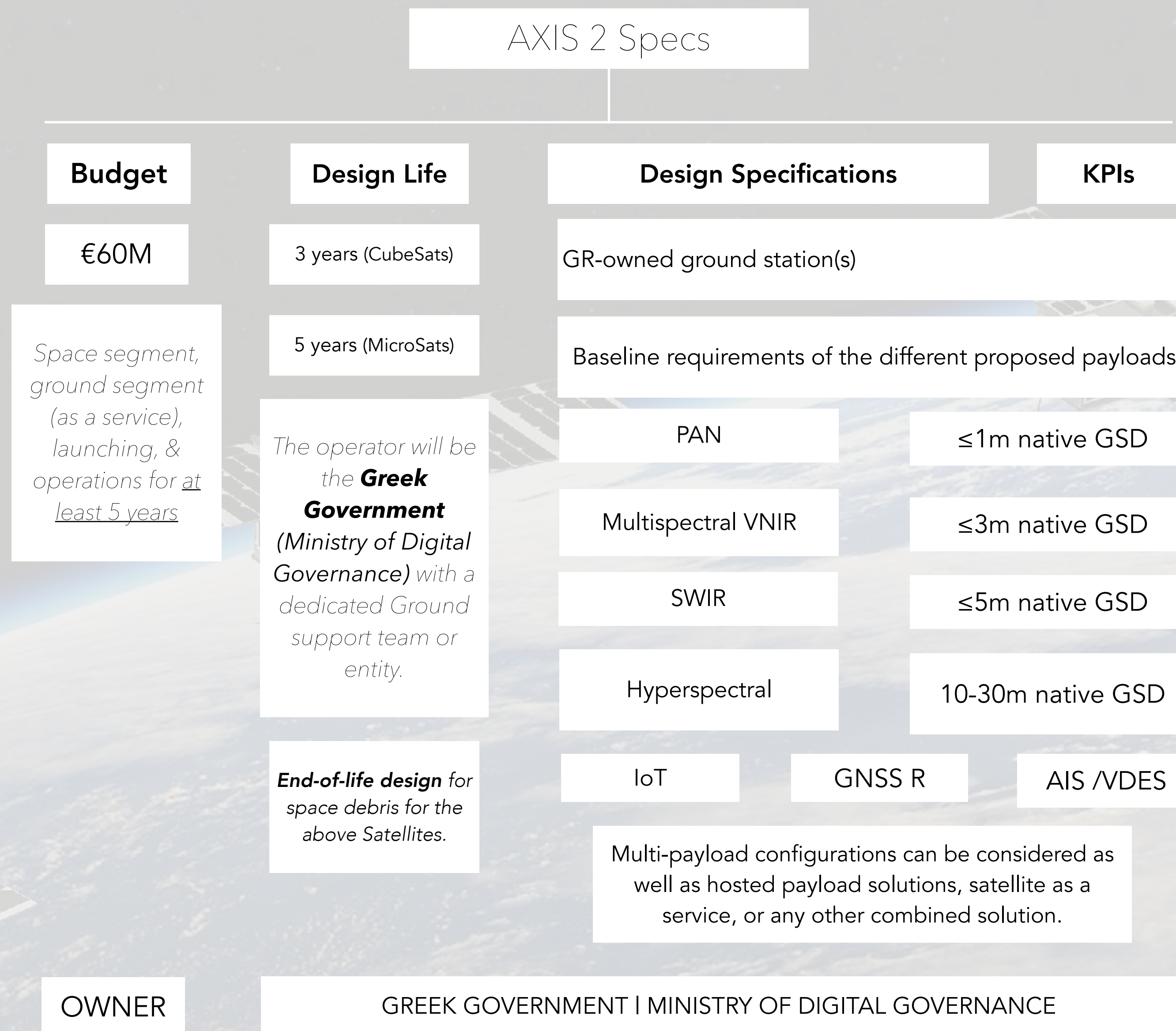




# Axis 2 | EU Constellation

Develop the **capacity** to **design** & develop SmallSats in Greece.  
Target the development of **>3 SmallSats by Q2/2026** with *optical, multispectral and hyperspectral payloads*.

**Main applications :** wide range of industry applications/needs : fisheries, Aquaculture/ Mariculture, precision Agriculture, Environmental monitoring, Forest monitoring, Land cover/uses, Coastal monitoring, Disaster monitoring







# AXIS 2 | EU Constellation

## CONTRACTOR REQUIREMENTS

**Invitation To Tender (ITT)** will be opened to **all** EU Member States (**open tender**).

**Prime** contractor should be established in Greece & the **bidding consortium to target at least 30% of the overall contract value** of economic operations and/or investments in Greece.

Satellites should carry cutting-edge computational capabilities for on-board processing such as **data compression, image processing & edge computing**.

### Contractor Reqs

#### Business Plan

Data exploitation & commercialisation plan of the GR sats.

Prove the market value of the acquired data

How data positions in the global market

Identify possible collaborations and sharing of Space segments with other EU countries

#### Operational Reporting

Indicate possible **sales channels** and the foreseen **return on investment** with qualitative and quantitative metrics.

A comprehensive plan for the **long-term sustainability** of the mission.

Investigate and propose **alignment with other EU initiatives** and national space programmes.

Orbit analysis optimised for the GR AOI that **maximises revisit time**.

Description of the satellite & payload operations, including tasking, delivery times, processing times, quality, and validation procedures.





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## AXIS 3 | GOVERNMENTAL HUB





# Axis 3 | Governmental Hub

Ready by Q2/2026 to **host and process data** from Axes 1.1, 1.2 & 2.

Opened **exclusively to the Greek industry** with 100% GR involvement.

The ITT will be formed in **different LOTS** Each tenderer will be able to bid for one, many or all LOTS.

## AXIS 3 Specs

### Budget

€17M

Platform component

Service component

### Architecture & Operations

Include operations and support services (e.g. updates, help desk, bug fixing, etc.) for at least 5 years.

Exploit national infrastructure such as G-cloud (GSIS), GRNET HPC.

Formed around ESA Common Architecture, EOEPKA and exploit Copernicus Data Space Ecosystem capabilities.

Developed based on Open Standards and Interfaces

Digital portal designed to provide both public administration and private users with secure, reliable access to analysis ready data (ARD), geospatial data and cutting-edge governmental services on top of Axes 1 & 2.

The suggested service solutions should be independent from any other or similar RRF funds and should be under the scope of innovation.





## LAND & AGRICULTURE

Crop-type mapping

Estimation of biophysical parameters

Biodiversity Mapping

Urban analytics (i.e. Urban heat island, health, air quality)

Soil moisture estimation

Land Use - Cover Mapping

## NATURAL DISASTER & FOREST MONITORING

Forest-type & Tree Cover Density

Flood monitoring & risk assessment

Fire hotspot detection & risk assessment

Change detection - Activity detection

Fuel mapping

Deformation - Ground Motion Monitoring

## WATER RESOURCES

Quantity monitoring

Quality monitoring

Traffic monitoring combined with AIS



# Thank you



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