



ACCELERATE
YOUR SPACE DATA
APPLICATIONS
SECTOR WITH THE

MINI.SPACE.BOX

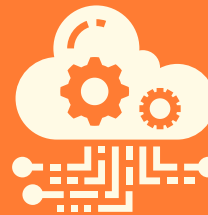
ONE SINGLE ULTRA POWERFUL MACHINE



What is limiting the space data application **growth?** ?



High dependency of existing infrastructure on network coverage



Unreliability and inadequate cloud infrastructure availability



Segmented access to Earth Observation (EO) data by different providers

BUT ALSO...

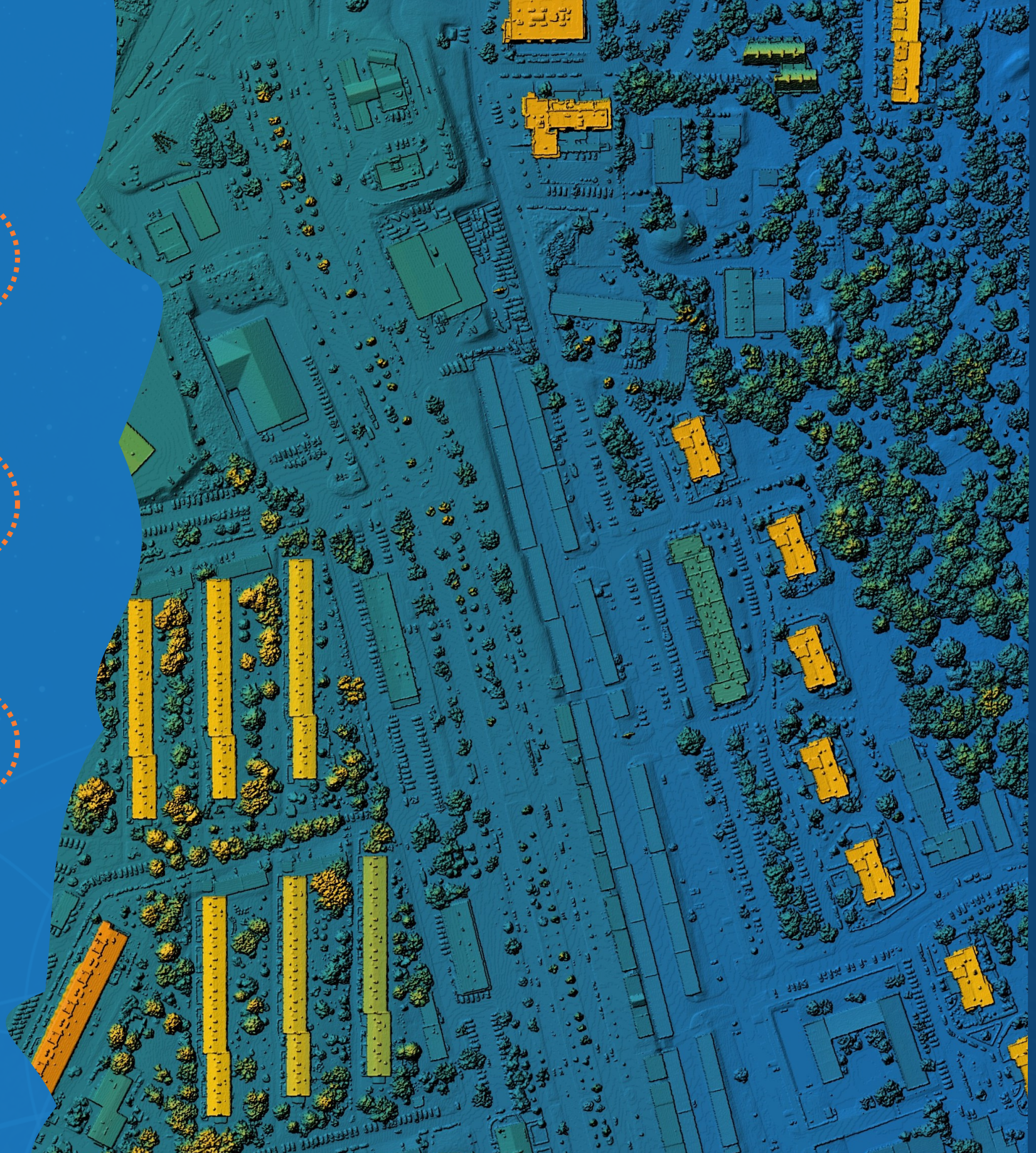
Poor interoperability and limited flexibility of data exploration platforms



Limited capacity building for EO data applications



High internet costs to access heavy-bandwidth data. (High internet costs)





Our solution

MINI.SPACE.BOX

Space Data Application Accelerator

Ready to use hardware
and software infrastructure

Embedded processing workflow
and professional services
(agriculture, urban planning, etc.)

Autonomous and resistant to
unreliable internet access

Access to diverse kinds of earth
observation data

BENEFITS OF THE MINI.SPACE.BOX

Ideal for :

- ✓ Space agencies
- ✓ Training Centers
- ✓ Space data companies

Plug-and-play yet customisable

Use the turnkey applications
or develop new functions
and algorithms
(easily customizable to local
needs)

Integration friendly

**Automate EO Data
Download from major free
sources and add
commercial data if needed
(Centralise EO data
automatically)**

Easy-to-use:

Enjoy a simple UI/UX design
platform accessible to
individuals with
varying technical capacities for
easy exploration, visualisation,
and analysis
(simple exploration,
visualisation, and analysis)



BENEFITS OF THE MINI.SPACE.BOX

Open source

Access clear documentation to promote autonomy in future development

Global standards

Work with established technology standards like STAC & OGC compliant web services (promoting global standards)

Knowledge transfer

Take advantage of training to develop personal skills for processing workflows and professional services

Sustainable

Environment friendly and cost effective

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Practical example with urban vegetation monitoring SpaceSeed

Collect and Store



Collects all "cloud free" Sentinel-2 images over a urban area and over a an annual vegetation cycle

Process

Process a permanent Urban Vegetation Mask through the calculation of an annual Normalized Difference Vegetation Index (NDVI) composite image using the serie of Sentinel-2 images



Results for Decision support

Based on the Urban Vegetation Mask, create ad hoc indicators using the embedded GIS capabilities e.g.

- Vegetation Cover index at Urban Morphological Unit level
- Plant Vigour Index at Local Administratif Unit level

API

Access Asset Services

Provided out-of-the box

Can be further elaborated by local user

Must be developed by local user

EXAMPLES

PRACTICAL

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facilitating & acceleration earth observation data access to easily build applications for data-driven decision making SpaceSeed

Collect and Store diverse EO data (Sentinel, etc.)



1



Processing workflow and algorithms (agriculture, urban planning, etc.)

opened to external developments by students, teachers, scientists, space agencies,

2

API

Access Asset Services

Execute Workflow

3

Results for Decision support



Ex: Detect anomalies in the development of plant cover

4



BREAK BARRIERS TO
EARTH OBSERVATION
INSIGHTS

GET IN TOUCH