



Bringing Space Data into your Business

Miranda Saarentaus,
ESA Business Applications Finland/Geowise

10.8.19

Space Economy Forum
Wasa Future Festival

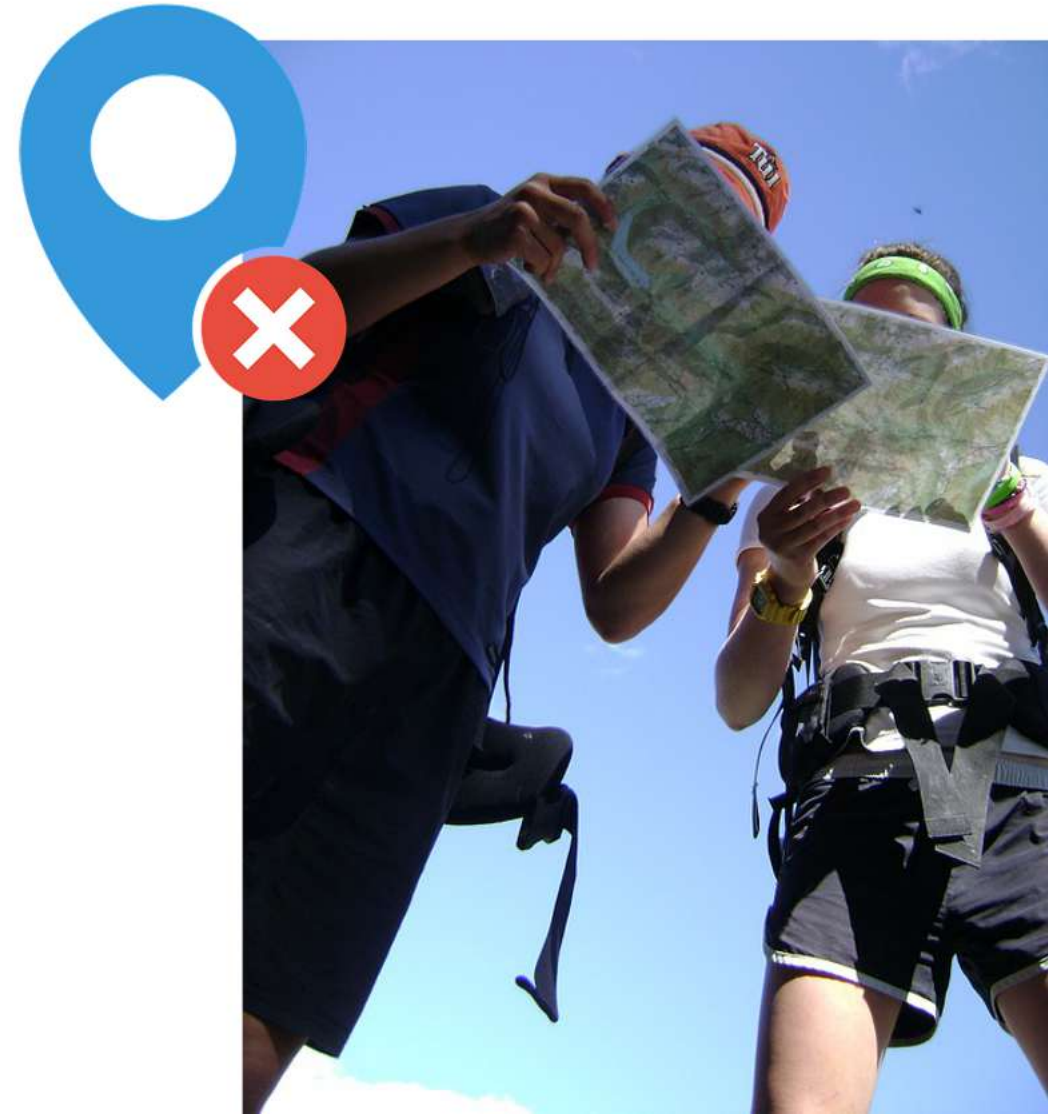
business.esa.int

@ESAbusinessapps

European Space Agency

LIFE WITHOUT SATELLITES – Navigation GNSS – no GPS/Galileo/Glonass/Beidou

In a world without satellites, forget about your friendly GPS. If you want to get somewhere in your car, unless you have a really good sense of direction you'll have to go back to 20th century technology: the map!



LIFE WITHOUT SATELLITES – Satcom – no dial tone ... bridging the digital gap

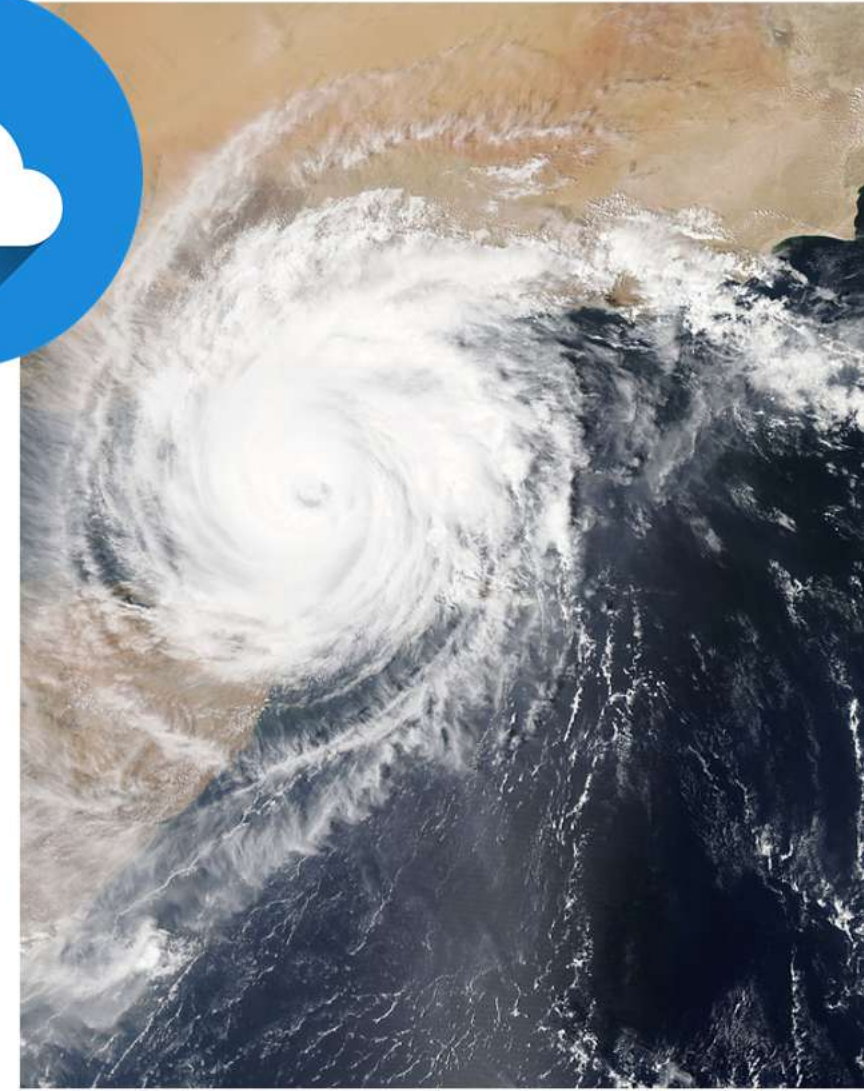
Satellites reach just about everywhere today! Without these telecom satellites, we would no longer be able to see major sports events live from halfway around the world.

Likewise, without satellites **over-the-air re-transmitters** would no longer work. Data transmissions would be limited to land lines and submarine cables.



LIFE WITHOUT SATELLITES – Earth Observation – no weather satellites

You're about to take a vacation, and you'd like to know what kind of weather you should expect... Without satellites, impossible to know what the weather will be a few days from now...



LIFE WITHOUT SATELLITES –

Earth Observation –
no environmental monitoring

Satellite data gather help us keep an eye on our environment. Earth observation satellites provide optical or synthetic aperture radar (SAR) data.

SAR data can see through clouds, day or night, and under almost any weather conditions. Optical data covers the visible colours and also the infrared part.



LIFE WITHOUT SATELLITES



<https://youtu.be/5sgM7YC8Zv4>

→ COPERNICUS & SENTINEL SATELLITES



Media Events News Contact | Login search English

Services Opportunities Access to Data How to Library Use Cases About Copernicus

Europe's eyes on Earth

Looking at our planet and its environment
For the ultimate benefit of all European citizens

OBSERVER: Inspire, Explore, Act - How the Copernicus 'Eyes on Earth' Roadshow is nurturing a new generation of Earth Observation enthusiasts and experts

Mont St Michel, France - Copernicus Sentinel 2 data (2018) processed by the Copernicus Support Office

- Atmosphere
- Marine
- Land
- Climate Change
- Security
- Emergency



GLOBAL SATELLITE MONITORING

Detect changes, gain insights and make better decisions.

ICEYE provides broad access to timely and reliable radar satellite imaging for a variety of industries.



FINNISH HIGHLIGHTS –
Iceye – New
Micro-SAR
Constellation

SERVICES AND
PARTNERSHIPS



LAND APPLICATIONS



SEA APPLICATIONS



RESOURCES & INFO



FINNISH HIGHLIGHTS – **Cloud Asset** – IOT/DATA/Analytics and Decision Support

- RAMP – A digital command and control platform for deeper awareness, control, decision making & response

Use AI and machine learning to harness your data



Connect all your devices and databases



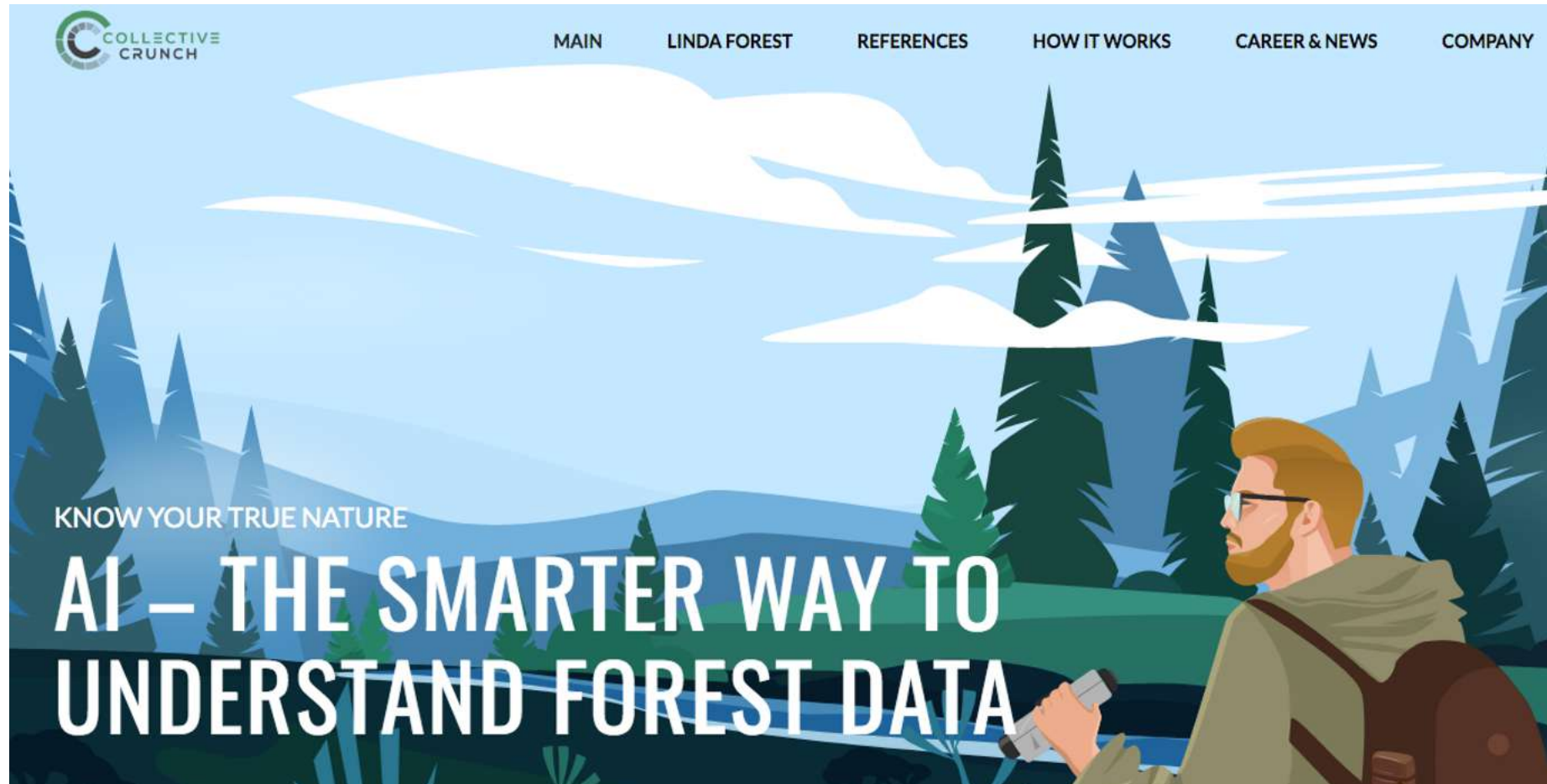
Digitize and visualize for full situation awareness



Act fast with an intelligent decision support system



FINNISH HIGHLIGHTS – Collective Crunch – Forestry and AI



Reshape your view on the world

Terramonitor is the world's most dynamic, comprehensive and cloud free mapping and analyzing platform of the globe, which consists of over 100 million images. Terramonitor gives professionals the power to analyze, build and organize geographical information into actionable insights by leveraging up-to-date satellite data and AI.

COMPANY EMAIL ADDRESS

Get started for free



FINNISH HIGHLIGHTS – Terramonitor – Satellite Data as a Service

- Enables the use of any satellite data
- Integrates satellite data into the client's system
- Enriches the use of satellite data

ESA BIC Finland

- Opened December 2017
- 10 STARTUPS PER YEAR
- 12 STARTUPS SELECTED SO FAR
- 20+ PARTNERS JOINED
- 500K EUR FUNDING/YEAR
- Located at Aalto University campus in Espoo, at the new A Grid start-up and innovation center.
- <https://esabic.fi/>

75.000 EUR PER PROJECT +
UP TO **10 MILLION EUR**
FOR GROWTH!

**FIND OUT MORE &
GET IN TOUCH!**

Also for Non-EU teams

Spin your business

From **EARTH** to **SPACE**
From **SPACE** to **EARTH**

→ **START-UPS** Apply now - Spin your startup to new heights!

APPLY NOW

NEXT DEADLINE: 2 September 2019!



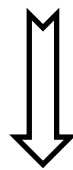
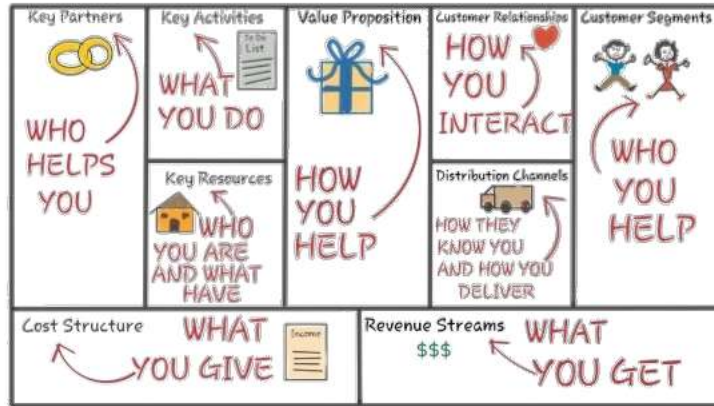
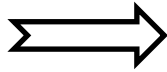
ESA Business Applications

European Space Agency - <https://business.esa.int/>

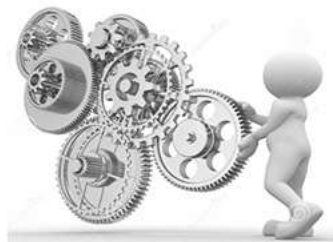
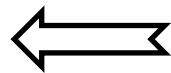


Having an Idea

→ Innovation turns in a Business



design

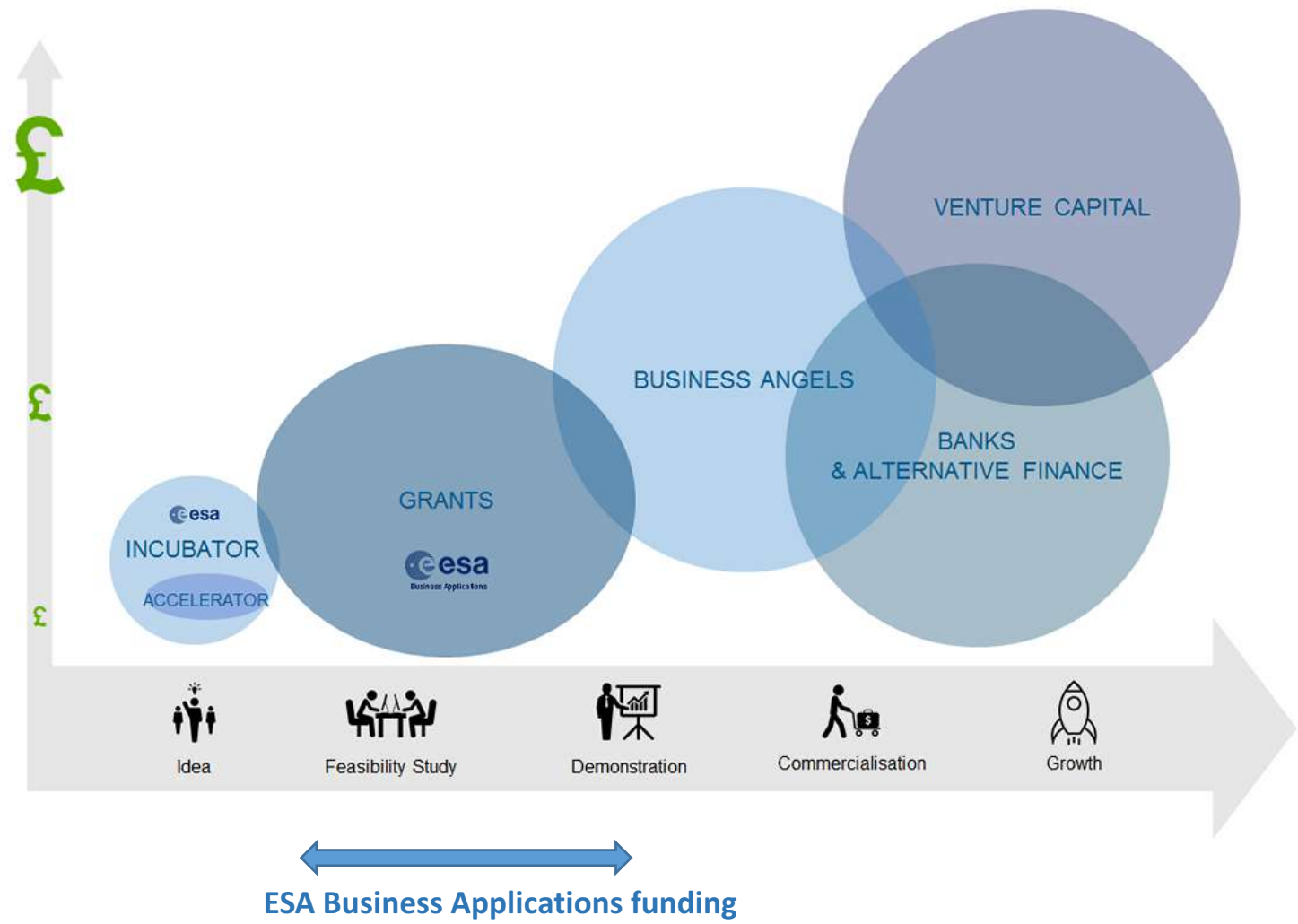


develop & integrate

validate with alpha customers



→ HOW DO THEY POSITION



→ ESA OPEN TENDERS – AI KICK-STARTS

<https://business.esa.int/funding/invitation-to-tender/artificial-intelligence-kick-start>

Topics (not exclusive):

- Retail, Electric Utility, Manufacturing, Transport and Logistics, Healthcare, Social good.

Webinars:

- 28/08/2019 (opening 2 Sept, closing 11 Oct)
- 01/10/2018 (opening 11 Oct, closing 29 Nov)

Project funding 75%, funding 60 k€, budget 80 k€



→ EVENT: YOUR BUSINESS POWERED BY SPACE



SOFTWARE
E-BUSINESS
FINLAND



esa business incubation centre
Finland

YOUR BUSINESS POWERED BY SPACE

Wednesday 4 September 2019
at 8.30 - 10.30
Fennia-house Auditorium,
Kyllikinportti 2, Länsi-Pasila, Helsinki



<https://ohjelmistoebusiness.fi/tapahtumat/4-9-2019-your-business-powered-by-space/>

A satellite with gold-colored components and solar panels is shown in orbit against the backdrop of Earth. The satellite is positioned on the left side of the frame, with its solar panels extending outwards. The Earth is visible on the right, showing continents and oceans.

Thank you!

For more information:

Miranda Saarentaus

Ambassador Platform Finland

Twitter: @EsaAPFin

Email: miranda.saarentaus@geowise.fi

<https://geowise.fi/esa-business-applications/>

<https://business.esa.int/>

GEOWISE