

Our vision: "To help our customers tame and profit from the flood of digital geospatial imagery"

Prioritization of data – the right data to the right people at the right time

Rigorous photogrammetry – highest data quality for analysis





Keystone Concept – service based





Fast

Bluestone – the ORCA Concept



Bluestone[®] on Board gives the user the experience of having full access to image data onboard air or space platforms, using little bandwidth. This is a gamechanger, as Earth observation platforms generate ever-increasing data volumes, vehicle-to-ground links being bottlenecks. Bluestone[®] is patented in Europe.

Current AI projects

Autonav

- "Autonomous Navigation Support from Real-Time Visual Mapping"
- Innovair project 2019 2022
- Co-operation with a Royal College of Technology

Innocloud

- "Advanced Image Handling and Cloud Detection On Board Aerial Vehicles"
- Innovair project June 2020 June 2021
- Will create on-board functionality using high-performance mini-computers
- SAAB contributes with requirement work

Al-supported Bluestone

In spite of Bluestone, it still makes sense to decrease the amount of data, already on board. This should be done with AI, for example discerning between "ground pixels" (typically of interest) and "non-ground pixels" (typically not of interest). Our basic idea is to:

1. Place Bluestone on a mini-computer (Bluestone® on Board; work on-going)

- 2. Fly Bluestone® on Board (HW+SW) on UAVs / aeroplanes. (Work on-going. See https://business.esa.int/projects/docs-2)
- 3. Apply AI to minimise the image data to be dealt with on board (work on-going)
- 4. Space-qualify Bluestone® on Board (HW+SW) (Work not yet started.)
- 5. Fly Bluestone® on Board (HW+SW) on board satellites (Work not yet started.)

It is item 3 of the above that we hope to address under this Eureka Call. Ideas for collaboration are welcome.