

INDUSTRY / SPACE & AEROSPACE

Make the mission's data useful sooner.

A mission succeeds when payload, spacecraft and ground software work as one delivery chain. BELTO can help you prioritize what to process onboard, move through limited links and turn into usable ground products.

WHAT WE CAN BUILD FOR YOU

01 Prioritize the downlink

Build and benchmark onboard image filtering or ranking against representative mission data and payload hardware.

VALUE TO YOUR TEAM

Direct scarce downlink capacity toward priority imagery and give the ground team less low-value data to process.

02 Connect ground operations

Integrate telemetry ingest, command interfaces and mission-planning software across the agreed vendor boundaries.

VALUE TO YOUR TEAM

Give operators a clearer view of command status, data flow and the failure paths they must handle.

03 Deliver Earth-observation products

Build an imagery processing pipeline from collection through transformation and delivery, with quality checks and traceability.

VALUE TO YOUR TEAM

Move from raw collection to repeatable data products with a visible processing and recovery path.

WHY BRING BELTO INTO THE WORK?

One engagement can connect Space software, Satellite & payload AI, Edge inference, Data pipelines. We define the interfaces, build the agreed path and verify its behavior with the people who will operate it.

HOW WE MAKE THE VALUE VISIBLE

Useful data delivered / Time from collection to product / On-target power and latency

Export-controlled scope is reviewed before work. No clearance or export-authorization claim is made.

ILLUSTRATIVE APPLICATIONS / SCOPED TO YOUR SYSTEMS

Let's scope the first useful step.

Bring mission data, the downlink and compute budgets, and the ground interfaces that need to work together.

Talk to BELTO

SPACE & AEROSPACE / FROM SCOPE TO DELIVERY

Choose the capability your operation needs.

A starting scope can cover one specialist area or connect several into a complete workflow. The service map below shows the published coverage and the operating value each area is intended to support.

Earth Observation

Engineer the path from image acquisition to processed imagery and downstream data products. Shorten the route from collected imagery to a usable downstream product.

Ground Systems

Connect telemetry, antenna systems and ground-side data processing. Reduce gaps between vendors across telemetry and the ground data path.

Mission Software

Develop tools for mission planning, task scheduling and operational control. Give operators a clearer path through planning, tasking and exceptions.

Onboard Autonomy

Move selected processing and decisions onto the spacecraft within mission constraints. Use local decisions to manage limited communications and response windows.

Payload Compute

Choose payload compute and implement software for its hardware envelope. Make compute choices against measured mission, power and memory constraints.

WHAT YOUR TEAM RECEIVES

An agreed system boundary and interface map; working software or infrastructure for the contracted scope; tests tied to acceptance criteria; and operating documentation with named owners. The exact package is agreed before delivery.

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