CSI-EO **Community-Sourced Intelligence for Earth Observation**

Omanos combines satellite data analysis with community intelligence and other ground data sources to identify and monitor social and environmental impacts. CSI-EO provides a scalable, portable, streamlined and secure service for the collection of participatory ground data that can be applied to a host of problems including ground truthing of and additional context to satellite/remote sensing data, artificial intelligence (AI)/machine learning (ML) algorithm training and community mapping/data collection projects.

The system is built upon a free, open-source smartphone app, cloud-based data transfer/storage and delivery of bespoke data products for a range of potential sectors. It is end-to-end encrypted and supports GDPR-compliance.

Problem/Solution

Ground data is critical to the accurate interpretation of satellite EO data, and provides a way to increase community engagement, delivering:

- important layers of additional context
- local knowledge and insights
- constraints for the building of AI/ML training datasets •
- increased community cohesion and action

However, acquiring this type of data can be resource intensive, expensive and difficult to standardise at scale. CSI-EO overcome these barriers, building on our extensive experience operating at the intersection of satellite and ground data collection and analyses.





Product

- Delivered via a free, open-source smartphone app available on both iOS and Android
- Data is transferred and stored using a secure cloud-based service, with end-to-end encryption
 - Bespoke app configuration, including:
 - Options for collection of points, lines and polygons 0
 - Fully customisable, use-case specific data fields/types
 - Timestamped and geotagged photos + free-text notes
 - 0 Training for data collectors across a range of technical abilities
- Wide range of potential data products depending on customer requirements

Use Cases	Stakeholders	Data Products
Participatory Mapping	International NGOs	User-focused reports
Ground Truthing	Space Data Providers	Slide decks
AI/ML Algorithm Training Data	Communities	GIS products
Citizen Science Projects	Estate Managers	Interactive visualisations
	Government Bodies	Physical maps

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