



Ipsilum transforms the access and processing of geospatial information. Thanks to its advanced technology and serverless approach, any user - whether technical or not - can visualize, process, and analyze geospatial data in real time, from any device.

Why Ipsilum?

- ✓ **True serverless processing:** Combines processing capabilities across frontend, backend, and cloud without the need for servers or local installations.
- ✓ **Real-time analysis:** Instant results directly from the browser, with no downloads required.
- ✓ **AI Ready:** A platform designed to work seamlessly with artificial intelligence, machine learning, and big data models.
- ✓ **Full traceability:** Every event is logged and audited to ensure security and control.

Ipsilum Ecosystem Modules

Ipsilum Core: Serverless flow and analysis engine.

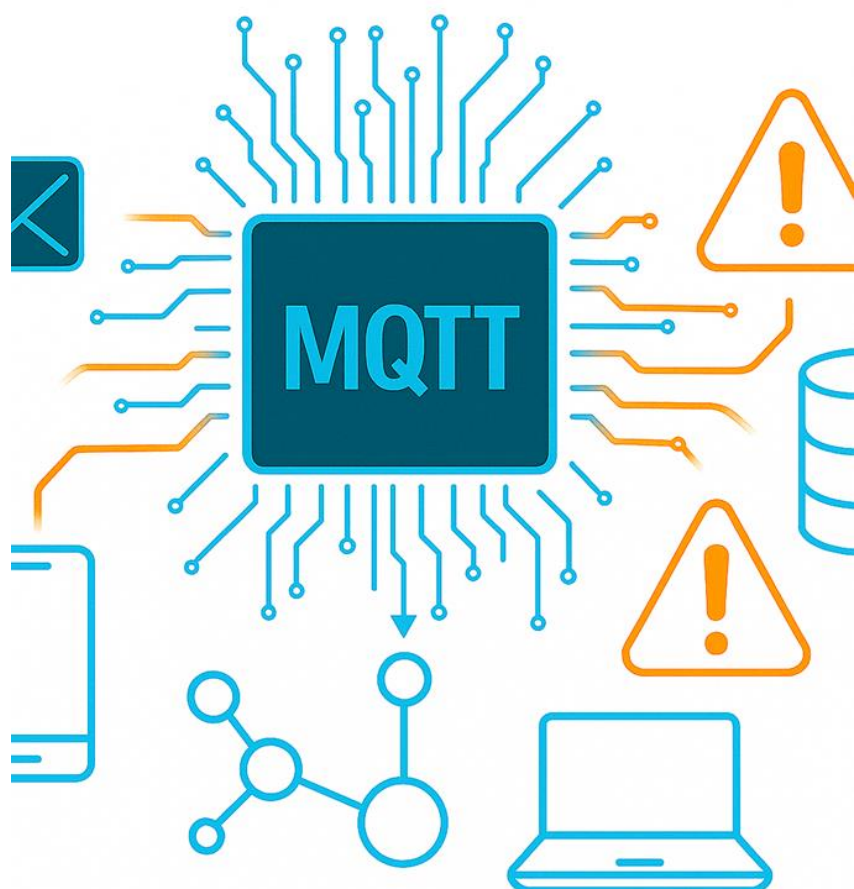
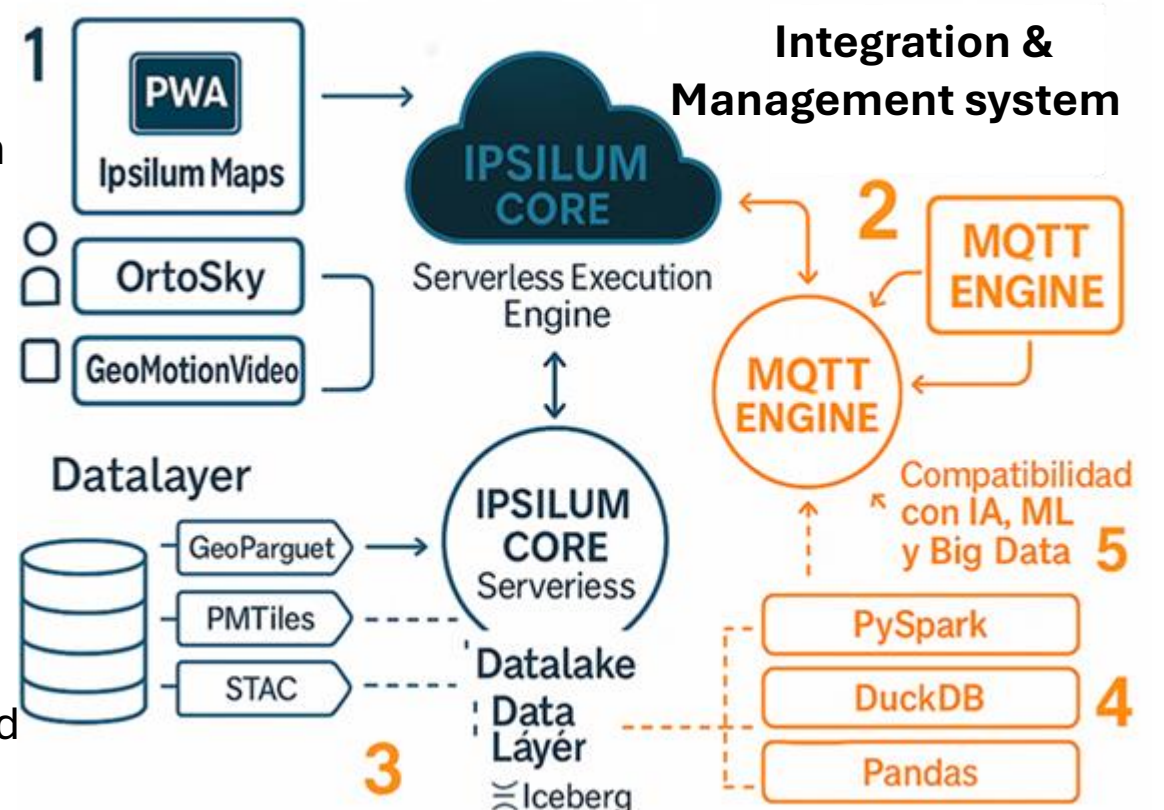
Ipsilum Maps: Advanced geospatial analysis from any browser.

GeoMotionVideo: Synchronized visualization of maps and geo-referenced videos.

OrtoSky: Desktop tool for LiDAR, stereoscopy, and restitution.

Key Challenges Solved

- ✓ Efficient handling of large volumes of data in real time.
- ✓ Accessibility for users without GIS training.
- ✓ Coordination of field teams in crisis situations and large projects.
- ✓ Bidirectional communication among all involved stakeholders.
- ✓ Integration of AI-ready data.



Integrated Technologies

MQTT Protocol: Integration and messaging system based on a lightweight, real-time communication protocol.

Cloud-native data access: HTTP, S3, databases, datalakes.

Serverless processing: Integration with PySpark, DuckDB, Dask, Pandas, GeoPandas.

Main Application Sectors

- Territory management
- Emergency management
- Infrastructure management