

Ipsilum Serverless

Advanced geospatial analysis. From your browser. Without complexity.

What is Ipsilum Serverless?

Ipsilum Serverless is one of the most powerful components of the Ipsilum platform. It allows users to run complex geospatial processes directly in their browser, without the need to install software or rely on local infrastructure. It is designed to bring advanced spatial analytics to a broader audience, eliminating traditional technical barriers.

Key Advantages

- Fully browser-based: No installation required, accessible from desktop, tablet, or mobile.
- Executes directly on cloud-hosted data: No need to download or replicate datasets.
- Serverless architecture: Lightweight, fast and always available.
- Personalized workflows: Users can adapt predefined processes to their needs without coding.
- Data security and auditability built-in.

How It Works (From the User Perspective)

Users interact with a simple and intuitive interface. They choose an area of interest, select data layers, define a few parameters (like time range or threshold), and then run the process. Results are delivered within the same interface—on a map, as a table, or in a downloadable report.

No GIS expertise is needed. All the complexity is hidden behind a clean user experience, optimized for professionals in sectors such as urban planning, emergency response, infrastructure, and environment.

Data Compatibility

Ipsilum Serverless supports a wide range of modern geospatial data formats:

- GeoJSON, GeoParquet, and shapefiles
- Satellite and aerial imagery
- Cloud-optimized raster and vector formats
- LiDAR point clouds
- CSV, JSON, Excel
- Video streams synchronized with geolocation

It also works with large datasets stored in cloud environments such as S3-compatible storage systems, enabling scalable access to territorial, environmental or asset-related data.

Common Use Cases

- Urban zoning analysis
- Identification of risk zones (floods, wildfires, etc.)

- Infrastructure monitoring and inspections
- Emergency planning and live coordination
- Environmental change detection
- Spatial analysis in rural development projects
- Public services planning based on spatial demand models

Designed for Non-Experts

One of the main strengths of Ipsilum Serverless is that it's not made for GIS developers—it's made for domain experts. Whether you're in public administration, security, utilities or environmental monitoring, Ipsilum lets you interact with geospatial data meaningfully without learning a new technical language.

If you know your territory, Ipsilum gives you the tools to act on it—intelligently and efficiently.

Work Online and Offline

Ipsilum Serverless is also a Progressive Web App (PWA), meaning it works even when connectivity is lost. You can start a project in the office, continue in the field, and synchronize automatically once the connection returns.

This makes it ideal for emergency response, rural infrastructure, and mobile workforce coordination.

Want to See It in Action?

Request access to Ipsilum and discover how to put your spatial data to work—directly from your browser.