BROCHURE

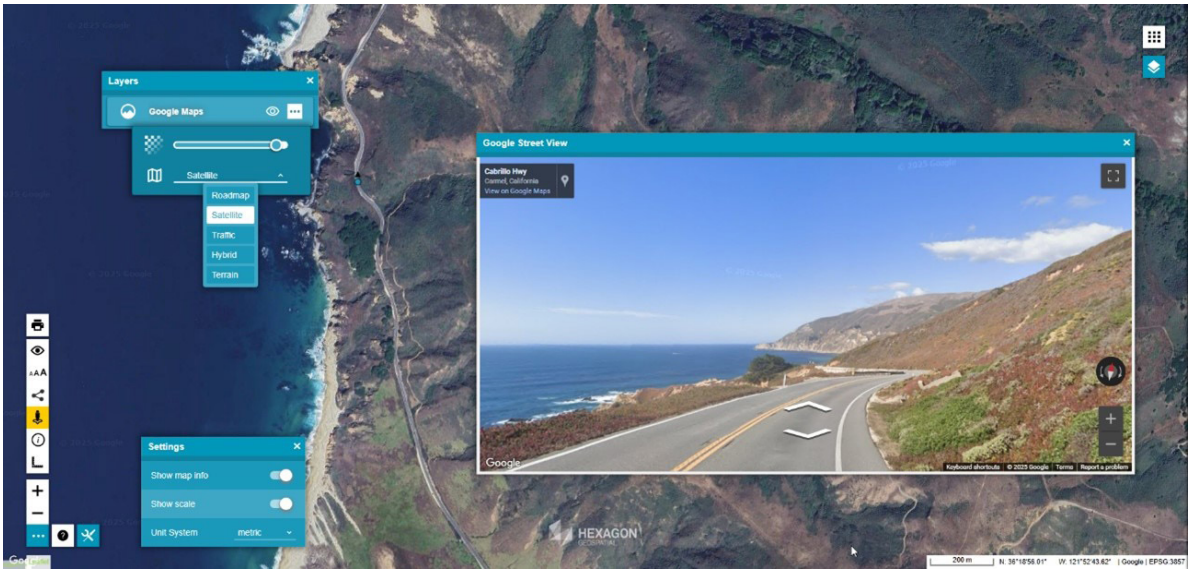
Octave GeoMedia Portal

Interactive access to geospatial information using open web services

Overview

Octave GeoMedia Portal (formerly Geospatial Portal) is a browser-based, multilingual web application that can be used for finding, viewing, querying, analyzing and consuming geospatial data and web services. These web services can be published with other Octave solutions or by third-party products.

GeoMedia Portal offers advanced client-side discovery, connection and interaction through a simple client geo-browser that provides an intuitive and attractive user experience. In addition, it integrates multiple sources into a single 2D or 3D map view that can be easily navigated.



Using integrated Google services allows you to see your GIS data in a wider geographical context.

Flexible access

GeoMedia Portal powers the next generation of web applications, providing a far wider community with simple and interactive access to geospatial information using open web services. Its flexibility enables it to connect to a variety of web services based on open standards and proprietary services. Those services can originate from Octave's products, other server technologies or a combination of both. GeoMedia Portal greatly optimizes the client browsing experience when connecting to spatial data infrastructure (SDI) services.

Modern navigation and tools

GeoMedia Portal simplifies the process of finding, connecting to and displaying spatial data published through web services and provides a modern and attractive user experience. It delivers a seamless user experience through intuitive navigation and advanced technologies such as asynchronous communication, enabling smooth panning and zooming without delays caused by server response times. GeoMedia Portal further enhances usability with powerful tools for area and

distance measurement, customizable map layers and the ability to save and revisit preferred map configurations. It also provides comprehensive support for web services and open standards, making it a robust and fully compliant client application for modern spatial data infrastructure (SDI) environments.

Integration with Google services

View more, explore more and discover more with seamlessly integrated Google and Azure mapping services. GeoMedia Portal users can display Google Maps layers and search for interesting objects by using the Google Maps Places search service. Pins show search results and feature details can be displayed in the Feature Info dialog. All available Google Map types — roadmap, hybrid, traffic, satellite or terrain — are supported. Explore the real Street View, in the user-friendly Consumer Portal. Integration with Azure Maps expands mapping options with extra layers and visualization capabilities for even greater flexibility.

Geocoding and location-based searches

GeoMedia Portal offers a rich search experience by supporting connections with various search engines. These include Open Geospatial Consortium (OGC) standards WFS-G (Web Feature Service – Gazetteer) and OpenLS – Location, those from third-party providers like Google, Octave GeoMedia WebMap's proprietary LUWS and 64-bit Geocoding services or direct database queries. End users can leverage them to find geographic locations, points of interest and other features efficiently. The Consumer Portal also comes with a built-in capability to locate a map by simply inputting a set of geographic coordinates.

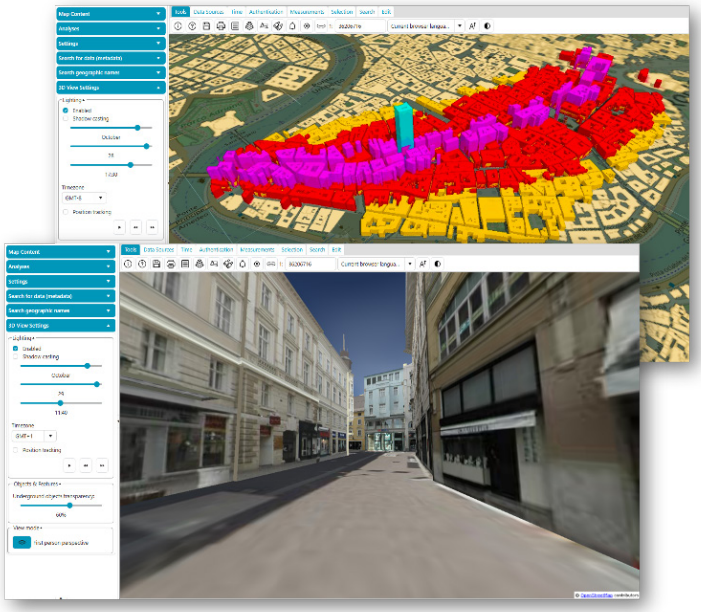
Easy editing

GeoMedia Portal allows users to create and update attribute data. The editing workflow is supported by the OGC Web Feature Service (WFS)-T industry standard, used to edit, update and delete features in a database.

Exciting 3D experiences

GeoMedia Portal provides a modern 3D view based on Octave visualization technology that lets users visualize data in a real-world context and view it from a new perspective. The globe view supports a base map and can display numerous raster and vector data sources from OGC Web Map Service (WMS), Web Map Tile Service (WMTS) and WFS on top of 3D terrain. Using the mTransformer tool, 3D object models and terrain users can produce and display scenes in GeoMedia Portal.

- Extrude vector data to update view based on the latest warehouse content
- Highlight vectors to gain valuable insight into attribute data via tooltips
- Visualize sunlight and shadows for more accurate urban planning
- "Walk through" data with a new perspective using the 3D first-person view



Visualize your data in 3D and view it from a new perspective.

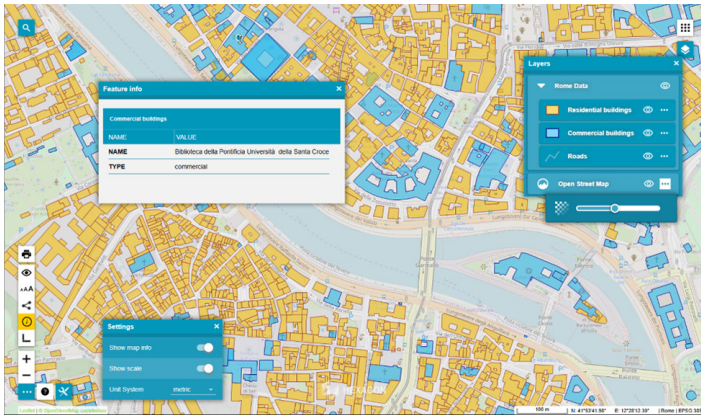
Consumer Portal

Simplified and user-friendly for entry-level layout for nonprofessional consumers of geospatial data, Consumer Portal is ideal for end users who use maps for discovery and visualization, with minimum clicks required. It is optimized for performance and user experience and takes advantage of the most up-to-date web technologies and standards. The modern and fresh-looking user interface is designed to enhance the most important user workflows with the displayed data, including accessibility features.

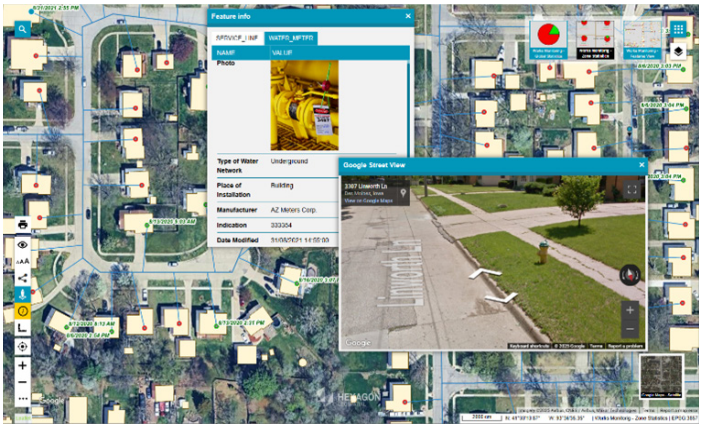
Consumer Portal, integrated with Google, Azure Maps and other third-party services and search engines, allows users to find information with minimal effort and better understand GIS data by placing it in the appropriate geographical context.

Multilanguage capabilities

As a multilingual application, GeoMedia Portal includes a variety of language settings. In addition, the list of languages can be extended to fully localize the product. GeoMedia Portal detects web browser language settings and attempts to conform to that language. It supports both LTR (left-to-right) and RTL (right-to-left) direction of written languages. The application layout is automatically adapted to the language type.



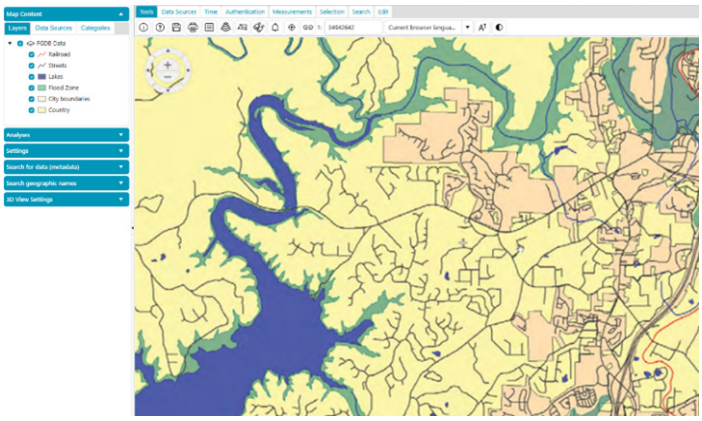
Better understand your GIS data by placing it in the appropriate geographical context.



Through the integration of WebGIS products, GeoMedia Portal and Consumer Portal can be used by various authorities or agencies to manage and monitor the work of technicians, surveyors or other field operatives who use the GeoMedia WebMap Mobile application.

Customize and extend

The powerful GeoMedia Portal software development kit (SDK) allows developers to create customized portal workflows and experiences using extensive APIs, documentation and reusable code examples. The SDK can also be used in conjunction with other Octave server products that include GeoMedia Portal as the client application, such as GeoMedia WebMap.



Use proprietary services by building websites and web services that natively access Esri File Geodatabase (FGDB) geospatial data, along with many other data types.

Offerings

Octave's SDI solutions support geospatial industry standards, including those from International Organization for Standardization (ISO) and OGC, as well as U.S. National SDI, Canadian Geospatial Data Infrastructure and the United Nations SDI. GeoMedia Portal enables organizations to collaborate with government agencies, commercial businesses and the public — all while adhering to government mandates to ensure users have access to authorized data. GeoMedia Portal supports development of SDIs by providing discovery, view, download and transformation services. It also supports infrastructure control with results of the monitoring process shown on the map or in tabular form. Detailed information on a particular service and its performance can also be presented as a pie chart.

One connected solution

GeoMedia Portal is an integrated client that supports all browser-based geospatial server products in the Octave Alto portfolio (formerly Luciad) — a seamless solution to geo-enable an enterprise.

Supported standards

Supported protocol and encoding standards include WMS 1.3.0 (time dimension), WMS 1.1.1 (time dimension), WMTS 1.0.0, WFS 1.1.0, WFS 2.0.0, WFS(G) AP 1.1.0, CSW 2.0.2, ISO AP 1.0, WCTS 0.3.0, OpenLS (OLS)1.1, WMC 1.1, GeoRSS, FE 1.1 and GML 3.2.1, according to the technical specifications listed in the product documentation.

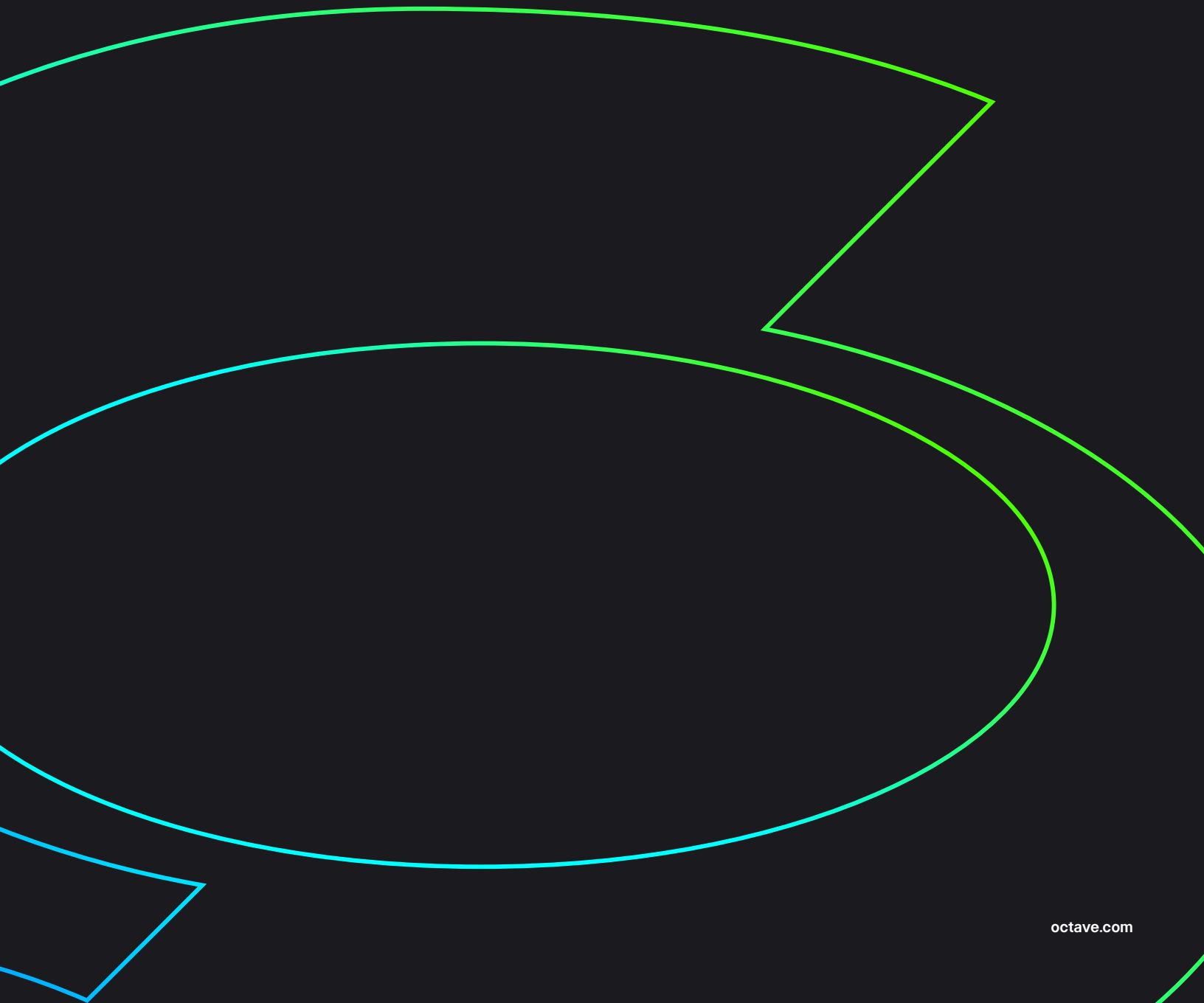
GeoMedia Portal follows INSPIRE Technical Guidance, is INSPIRE compatible and works with INSPIRE Network Services. The INSPIRE directive establishes an infrastructure for sharing spatial information among public authorities in Europe.

Join the community

To better support extending and customizing the GeoMedia Portal platform by our large, global development community, we provide the means for these experience-builders to connect with each other, share knowledge and, ultimately, build better solutions. Participate in the **community forum** and get access to the most recent information about the SDK, APIs and code samples from the product team.

Product and interaction
GeoMedia WebMap uses GeoMedia Portal as an integrated web client for web map publishing.
GeoMedia Portal SDK enables creation of customized portal workflows and experiences using extensive APIs, documentation and reusable code examples.
GeoMedia Portal complies with ISO/OGC standards and enables Infrastructure for Spatial Information in the European Community (INSPIRE) services to support secure and compliant access of web services delivered by Octave GeoMedia Data Infrastructure (formerly Geospatial SDI).

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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