



VELOCITY5D

Digital twin of the earth for action, simulation, and collaboration



PRESAGIS



VELOCITY5D

VELOCITY5D (V5D) provides ultimate flexibility to rapidly create or consume geospatial 3D digital twins using a secure and scalable solution so you can **simulate, collaborate,** and make better **decisions.** We help bring context to your data, so you can focus on what matters.

Our world has become vastly more complex. An explosion of data from a variety of devices, and connected possibilities, will see our world generate

10,000 times more data than is already in existence. Agencies, companies, and countries are consistently collecting more data than they can process and analyze – impacting the need for critical and complex decision making.

So how does one deal with this tsunami of data?

Presagis has developed V5D: an efficient and customizable software that creates realistic, data-rich environments that help provide real-time location intelligence and improve decision-making.



V5D + GIS DATA

V5D is a software ecosystem that revolutionizes the way in which you manage the production of digital twins and large virtual environments. By combining best-of-breed tools with next generation architecture, V5D provides breakthrough performance in geo-localized content management.

From 2D to 3D, you can seamlessly transform diverse GIS data streams into rich, multi-spectral environments, complete with pattern of life, humans, crowds, traffic, interactions, and behaviors. The result is a digital twin that delivers more than area, space, and time – it delivers the fifth dimension: context.

A BETTER WAY TO BUILD DIGITAL TWINS



- \ **Automates** the creation, generation, and updating of large-scale 3D virtual environments and digital twins
- \ **Leverages AI/ML** algorithms to extract and create large amounts of content for areas with little to no data
- \ **Flexible and customizable** architecture to answer specific customer database requirements



The V5D Advantage

V5D provides an automation framework designed to maximize every possible resource and scenario – from human, manual processes to highly automatable and repeatable processes.

\ V5D CREATES SIMULATION-READY, HIGH FIDELITY 3D CONTENT:

- Rapid generation of 3D content with simple to use workflow and repeatability.
- Live-editing capabilities, view and review data live and not after it has been generated.
- Massive library of 3D Building Templates for enhancing realism for a specific location

\ V5D IS FLEXIBLE:

- From big data to no data, V5D has the flexibility to ingest vast amounts of GIS data to create geospatial 3D digital twins.
- AI/ML algorithms can extract building footprints, vegetation and automatically generate 3D content.
- Transform data from one format to another and integrate other tools or existing workflows.

\ V5D IS SCALABLE AND MODULAR:

- Cloud infrastructure allows rapid digital twin creation at scale, enabling country-scale production in hours, not days/months.
- MOSA (Modular Open Systems Approach) allows users to break the big problems into smaller ones. The software development approach that Presagis utilizes is based on open APIs to support the hundreds of third-party vendors that use our tools, and to support a growing market that is increasingly asking for interoperability.

Converging Automation & Integration

AUTOMATED CREATION/GENERATION

Production of **simulation-ready** 3D environments

Reliability: Standardize workflows

Stay up-to-date with **updates** of sources

Fuse new data into existing base map

Ensure **correlation:** multiple outputs with the same inputs

Maintain quality – **Repeatable** processes are key to QA

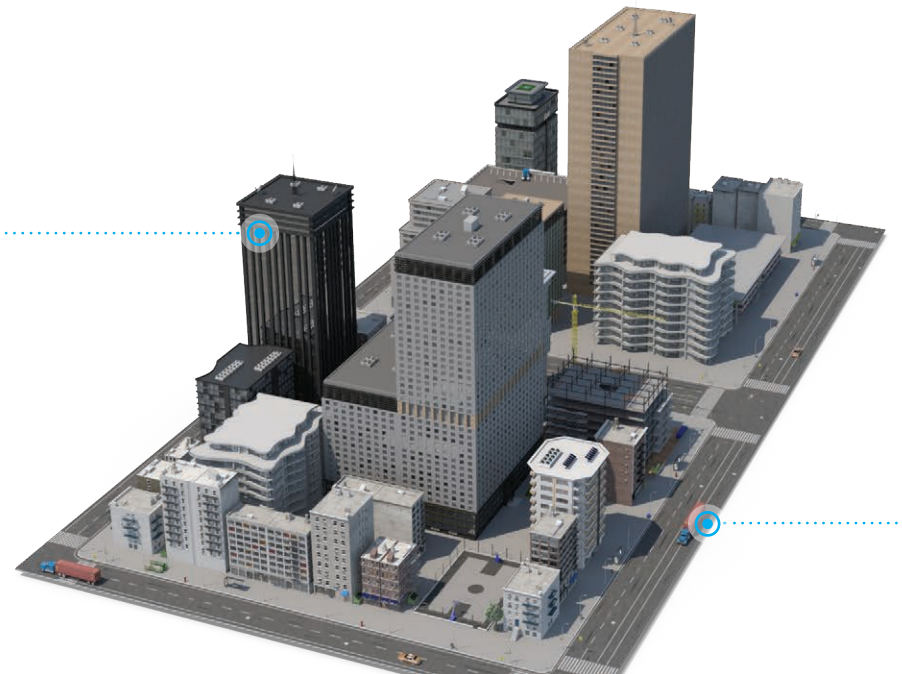
AI-powered extraction of content when vector source information is missing or is out of date

INTEGRATION OF GEOSPATIAL DATA + REAL-TIME ANALYTICS

Support **rapid** decision making

Interaction of users with scenarios

Support **critical and complex** decision making through simulation as a service



Prioritizing Collaboration



A cloud-based application, V5D is a new approach aimed at streamlining and integrating massive amounts of GIS data to produce large, realistic 3D virtual environments. Flexible, cross-platform, and cloud-ready, V5D offers a way forward for organizations looking for a centralized asset management approach that scales with evolving requirements, and promotes easy collaboration across departments, organizations or cities.

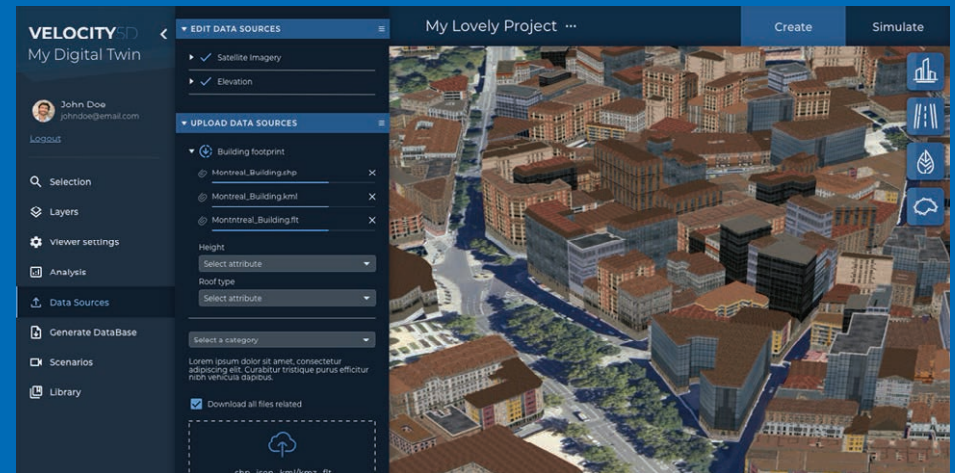
V5D FOR CLOUD FEATURES

Integrates with your processes and data by using service-oriented architecture (SOA) and employing a cloud-enabled platform

Allows for **faster delivery** times and higher quality

Supports **all major industry formats**

Interoperability of geospatial data and simulation environments



Why Presagis?

Presagis is a global leader in the creation of 3D dynamic virtual environments and simulation applications for decision-support in Defense and National Government sectors, as well as the emerging markets of Disaster Preparedness and Infrastructure Management.

Presagis' long history in MOSA development, 3D terrain generation, 6 DOF flight dynamics, and sensor emulation has brought rigor and flexibility to the global MS+T market for over 30 years and today can be found in digital twins, cloud-to-edge applications, and commercial game engine integration.



V5D Digital Twins can help decision makers in these segments:



Defense



Mapping Agencies



Disaster Preparedness



Public Security



Infrastructure Management

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