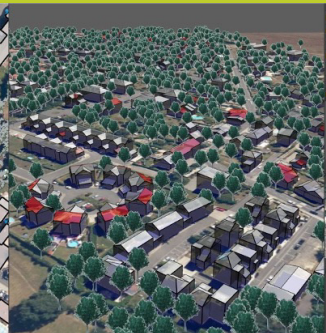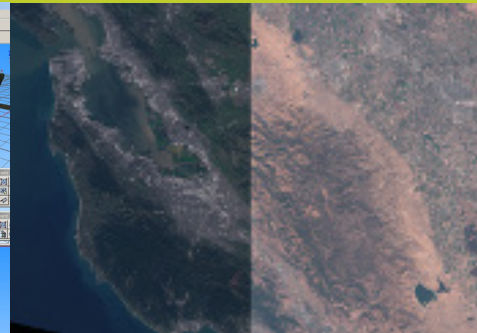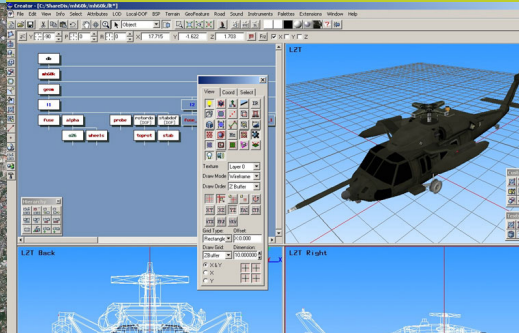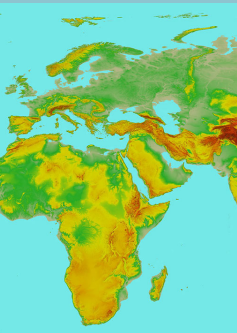# TERRA VISTA 2025

TERRA VISTA 2025

Agenium is pleased to announce the upcoming Terra Vista Ecosystem.

The trusted Terra Vista platform has evolved into a comprehensive ecosystem designed to meet the ever-growing demands of virtual terrain generation. Beyond the legacy software, the ecosystem now includes seamless data provisioning, advanced data preparation solutions, powerful new terrain generation tools, and enhanced interoperability.

This next-generation approach ensures faster, more efficient workflows while maintaining the reliability that Terra Vista users have trusted for decades. Explore a smarter, more integrated way to create virtual terrains.

AGENIUM

DATA PORTFOLIO

DATA

\ Imagery

\ Elevation

\ Vectors

\ GIS Data

\ 3D model

DATA PACKAGES

\ World PlanetSAT 10m, 40m , 150m

\ Power your visualization & simulation solutions, GIS tools and mapping platforms with a complete and up-to-date global imagery basemap offering exceptional sharpness and clarity at the highest zoom levels

\ World PlanetDEM 30 m, 90 m

Rely on trusted global elevation data for accurate and reliable civil and military mapping, simulation projects and solutions

\ Other resolution on demand

CREATOR

by Presagis - CAE

BUILD, MODEL, OPTIMIZE

\ Creator is a powerful 3D modeling software designed for real-time simulations, offering advanced tools to build, edit, and optimize models.

KEY FEATURES

\ 3D Modeling and Optimization: Create, edit, and optimize detailed 3D models for simulations

\ Productivity Tools: Rapidly build objects with wizards and support for many file formats

\ Simulation-Ready: Validate and optimize models for high-performance simulations

\ Customizable and Extensible: Adapt workflows with plug-ins, scripting, and a flexible interface

\ Visual and Functional Realism: Enhance models with advanced textures, LOD, and physics-based features

IMPUT - OUTPUT

\ Creator supports a wide range of import and export formats, ensuring interoperability across 3D modeling platforms. Import formats include OpenFlight (.flt), FBX (.fbx), 3D Studio (.3ds), Collada (.dae), AutoCAD (.dxf), and more. Export options also cover OpenFlight, FBX, Collada, and additional formats like VBS/P3D (.p3d) and X-Plane Object (.obj).

PIXELBLENDER

RADIOMETRIC HARMONIZATION

\ Harmonize heterogeneous geo-referenced imagery into homogeneous, seamless mosaics

\ Quickly process large datasets, adjust tile size and resolution with ease

\ Integrate data from different formats and quality levels into a consistent visually coherent output

KEY FEATURES

\ Ensure visual consistency across images with different lighting or exposure levels

\ Define specific areas of interest or exclude unwanted regions

\ Uses advanced algorithms to blend image borders, eliminating visible seams

\ Apply global corrections based on reference imagery, ideal for integrating highresolution imagery into larger datasets

IMPUT - OUTPUT

\ Import: Load ortho-rectified aerial or satellite imagery in standard formats

\ Export: Generate high-quality image tiles in GeoTIFF, JPEG2000, JPEG, or PNG formats for use in your production tools

DIGIBATI

3D DATA EXTRACTION FROM A MONOSCOPIC IMAGERY

\ Single Imagery Input: Transform monoscopic images into detailed 3D models

\ Efficient and user-friendly interface: intuitive, customizable, and efficient production workflow
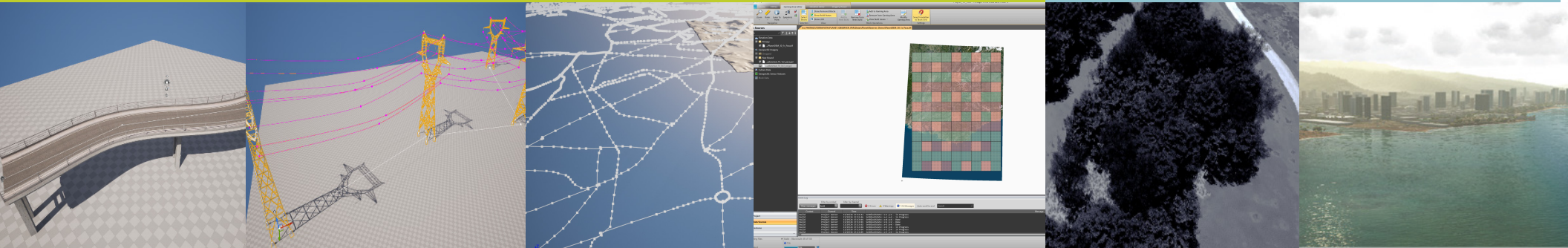
KEY FEATURES

\ Building footprint extraction & edition (LOD0)

\ Building height evaluation & edition (LOD1)

\ Building roof shape extraction & edition (LOD2)

\ Trees extraction & edition

\ DTM reshaping

ADVANCED FEATURES

\ Real-Time immersive 3D visualisation, industrial geospatial data production Tools, customizable facade texture & roof textures extracted from the imagery

IMPUT - OUTPUT

\ Import: Imagery (Ortho-rectified aerial or satellite imagery), DTM (Digital Terrain Model) and Shapefile

\ Export: Buildings, Other Features, Trees, Building Location Points, DTM, Textured 3D Models

AG 3D TOOLS

INTEROPERABILITY

AG GEO

\ Import of SHP vector files:
• Geopositioning them within the 3D Engine relative to the geographic coordinates of the project center
• Importing the SHP attributes to make them usable within a 3D engine.
• Embedding the SHP vectors into the target code to apply graphical processing (e.g., embedding linear features into code that generates roads)

AG ROAD

\ Road or railway segments Generation Tool. The module is based on DataAssets libraries where the road or railway section to be duplicated along the linear path is configured, along with numerous specific parameters

AG LINEAR

\ Generation of 3D models along a linear path.
The linear path can either be drawn by the user or imported from a SHP vector file. The module relies on prebuilt libraries (DataAssets) where the 3D model is configured to be duplicated along the linear path. This enables the creation of various libraries for walls or fences, which can be swapped dynamically

AG POWER LINES

\ Allows the generation of power lines. The linear path can either be drawn by the user or imported from an SHP vector file.
The module includes the following selections of 3D models: pylons, cables & hooks

AG BUILDINGS

\ A Building Generation Tool. The surface can either be drawn by the user as a closed linear shape or imported from an SHP vector file. The module includes the following parameters: Switching building representation, Configuring building height, Creation of flat or sloped roofs, Generation of a foundation, floors and ceilings

AG BRIDGES

\ Allows the generation of bridges. The linear path can either be drawn by the user or imported from an SHP vector file.
The module includes the following parameters:
• Selection of a 3D model for the bridge section (deck)
• Selection of a 3D model for pillars
• Spacing between pillars
• Option to include or exclude pillars at the beginning and end of the linear path

\ By supporting a wide range of industry-standard data formats, image generators, and network simulation standards, Terra Vista is ideal for building virtual environments for ground, air, maritime, and urban military operation

Correlated Output Formats
OGC CDB
VBS
UNREAL
Autodesk FBX
OpenFlight
MetaFlight
OneSaf(OTF)
CTDB
JCATS

** NEW CDB to 3D Tiles **

AGENIUM

WWW.AGENIUM.COM

All features and tools listed in this document are subject to change

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