

Designed for Precision 

Airborne

LASER SCANNING & AERIAL IMAGES

APPLICATIONS

Infrastructure inspection

- Complete 3D capture of power line infrastructure
- Highway and railroad mapping
- Pipeline monitoring and leak detection

Construction & urban planning

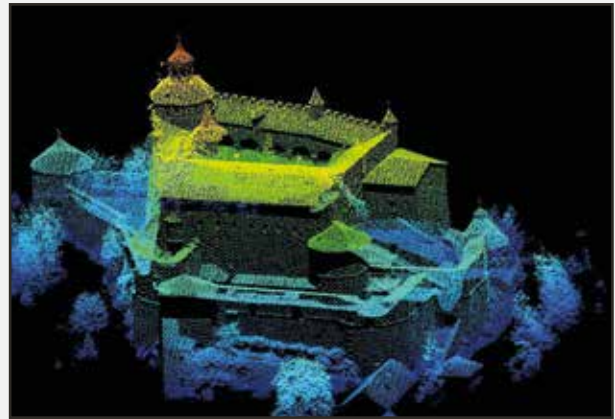
- 3D City modeling and building reconstruction
- City and urban planning
- Design and planning of corridors (pipelines, railroads, highways ...)
- Monitoring of construction site
- Analysis of solar energy capabilities (qualification of Roof Areas)

Environmental monitoring

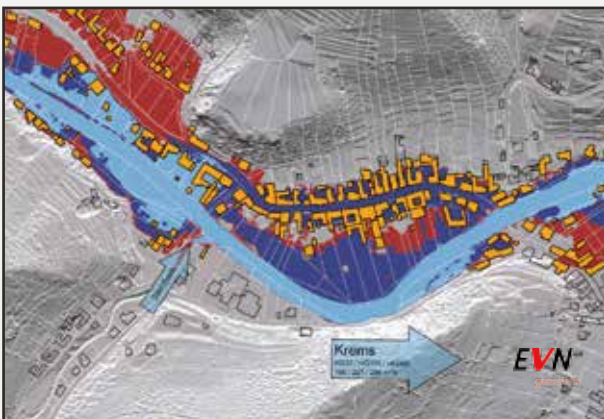
- Geo-hazard management
- Rockslide simulations
- Flooding calculations
- Avalanche surveys
- Forest/agriculture inventory
- Archeological research



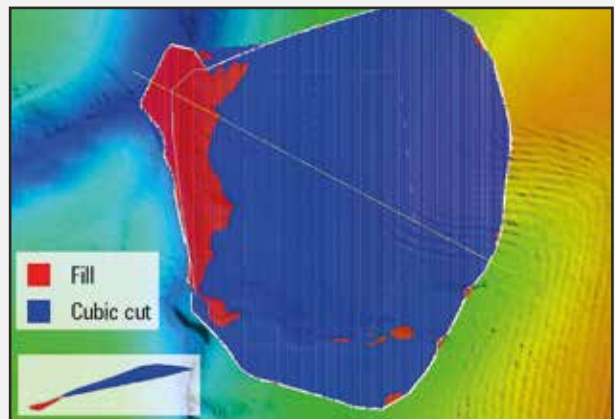
RGB image (UNO City, Vienna)



3D point cloud (Burg Hohenwerfen, Salzburg, Austria)



Flood mapping (Krems, Austria)



Volume calculation & longitudinal profile

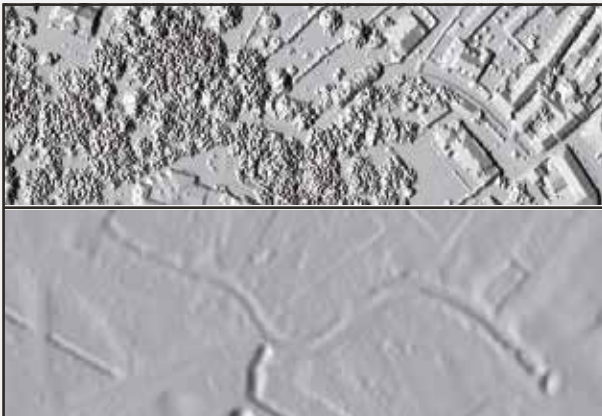
OUR REFERENCES

- 100.000 km² high resolution topographic surveys
- 10.000 km² forest inventory
- 45.000 line km corridor mapping
- 75 torrent and avalanche control missions
- 100 successful scientific research projects

COMPLETE SOLUTIONS

Airborne laser scanning (LiDAR) is a rapid, highly accurate and efficient technology for the geometric mapping of the earth's surface.

- Exact flight planning concerning the conditions of the terrain, requested project parameters and aviation controls
- Consistent laser data acquisition
- Capturing of aerial images (RGB or IR) simultaneously
- High precision data processing
- Comprehensive quality control
- Capability for huge projects



Digital surface model vs. digital terrain model



3D-model or promotion 3D fly over movie



Low voltage power line (3D point cloud + vectorized view)

OUR STRENGTHS

- 4 fully equipped sensor aircraft in our fleet
- Worldwide customized on-site solutions
- High point density - up to 36 points/m²
- Rapid data processing
- Simultaneous recording of up to 5 sensors
- Simultaneous recording of aerial images
- High flexibility of aircraft and crew
- Mountainous and rough terrains flight experience
- Long endurance missions



Our team combines and optimizes aviation, data acquisition and processing know-how.

EQUIPMENT

Airborne Laserscanner

- 3 Riegl LMS-Q680i

Aerial Imaging

- 3 IGI Medium Size Camera Systems
- 1 Thermal Camera

Imaging Spectroscopy

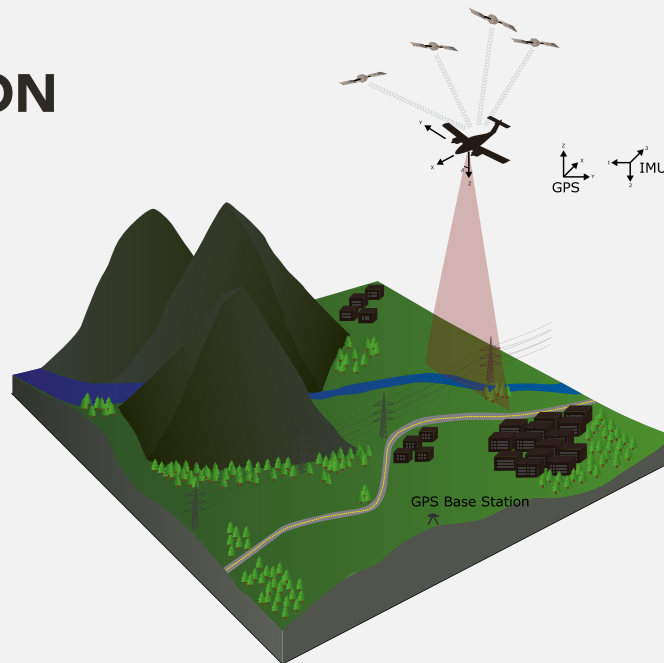
- 1 Hyspex VNIR-1600
- 1 Hyspex SWIR-320m-e
- Specim Eagle II



Sensor array of Airborne Technologies preferred manufacturers



DATA ACQUISITION



ABOUT THE COMPANY

We are an Austrian private limited company based at the Wiener Neustadt Airport. Our company consists of a team of experts in aviation, system engineering and geo-data acquisition.

Our scope of services includes the integration of any Airborne Remote Sensor into the customers' platform, the development of customized ISR Turnkey Solutions as well as the acquisition and processing of geo information for governments, police, military and many sectors of industry.

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