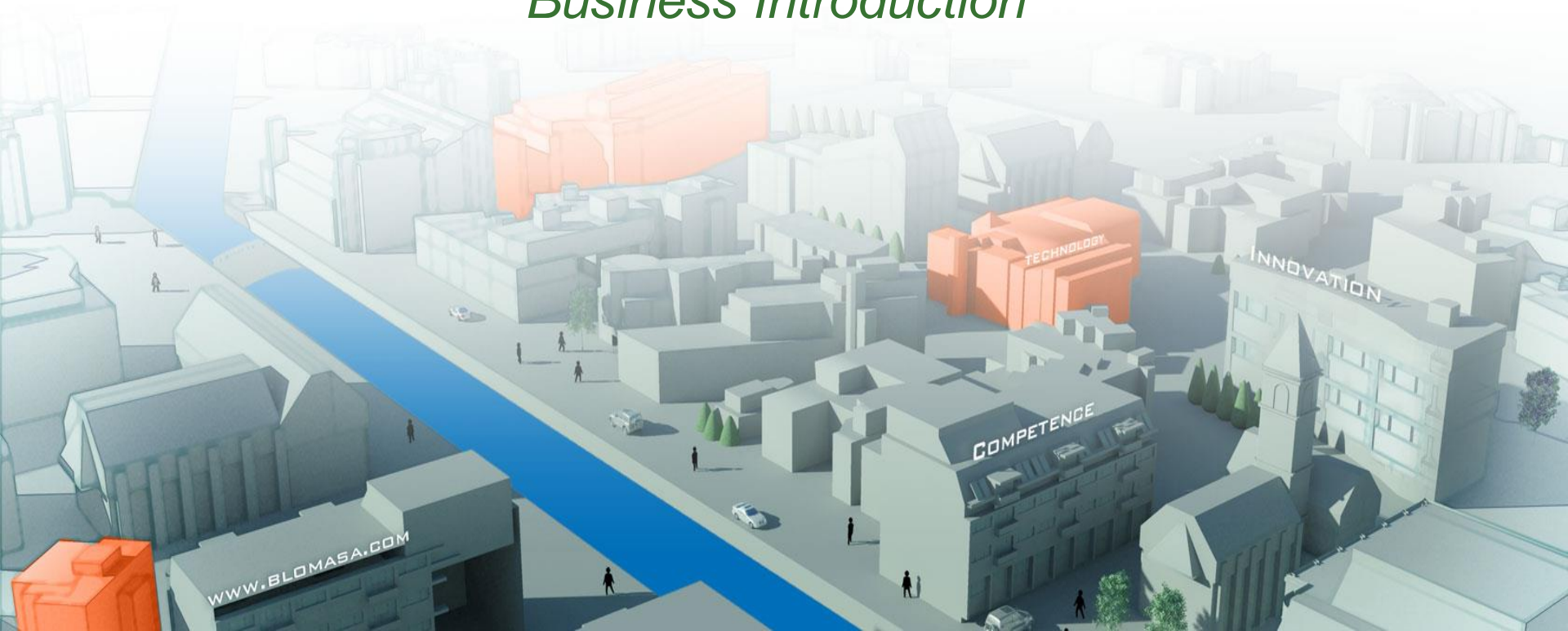


Blom International Operations S.R.L.

Business Introduction



- **Company**
- **Highlights**
- **Geospatial services at a glance**
- **BIO top management and BIO offering**
- **Organizational Chart**
- **Simplified value chain perspective**
- **Business scopes and development opportunities**
- **Key Financial figures**

Blom International Operations S.R.L. (BIO) was established by externalizing process in 2012 as the geospatial services competence center for the Norwegian BLOM Group and is located in Targoviste, Romania. Since June 2017, BIO is fully owned by the Romanian HEVECO Group (www.heveco.ro)

With currently about 80 staff, BIO is one of the largest and most experienced European providers of geospatial data services, both for European public administrations and private industry. Among the international clients of BIO are Cyient Europe (UK), NIRAS (DK), Airbus and Thales (F), Tom Tom (LU), Cowi (Dk).

The geospatial data services offered by BIO enable our customers and partners to use existing GIS systems, or develop their own Geo-IT applications to represent, analyze and monitor valuable infrastructure assets.

BIO holds an impressive portfolio of completed contracts since Blom Romania being established in 2008 and currently provides services in the areas of digital mapping, GIS data production, GeoInformatics, 3D modeling, stereo photogrammetric data capture, image processing, mobile and terrestrial mapping, airborne and terrestrial LiDAR processing, data conversion, BIM and geospatial database management.

Ongoing projects at BIO are originating mainly from Germany, France, UK, Denmark, Norway, Sweden, Finland, Netherlands, Austria, Spain and Italy, but also from non-European clients in Africa, the Middle East, Asia, South America.

I

*Geospatial services experts
with efficient set-up*

BLO is a geospatial expert providing advanced acquisition, modelling and processing solutions of geographical data for advanced applications.

II

*The need for advanced
geographical data is growing*

With about 100 employees in Romania, the company has an efficient set-up combining proximity to key end markets in Western Europe via partners combined with high-quality processing and modelling capabilities in Romania.

III

Recurring, solid customer base

The market for advanced geographical data is growing driven by e.g. increasing digitalization of geographical information and the heavily increased use of sophisticated map applications for both customers and governmental institutions.

IV

*Revenue growth and
attractive profitability*

A cost competitive set-up has allowed for sound EBITDA margins in the range of 11 - 19 % during the last 5 years.



Acquisition methods



Users and segments



Application areas

Airplane photo acquisition

Fixed/ Rotary Wing LiDAR

Unmanned Aerial Vehicle

Ground & mobile based acquisitions

Satellite data and Imagery

Other acquisition methods

Governmental and public admin

Defence and security

Railway companies

Construction companies

Engineering consultancies

Architects and urban planners

Energy and utilization

Resource and environment

Navigation system providers

Other users and segments

Navigation

Aerospace

Forestry and agriculture

Infrastructure management

Asset management

Urban planning

Environmental assessment studies

Maps and geodata sets

Energy potential assessment

Infrastructure planning

Geospatial based consultancy

Other application areas

High-quality geospatial data is used by several different user groups in a wide array of applications



Ralf Schroth

German national, studied Geodesy at Stuttgart University, PhD in Photogrammetry and legal surveyor. About 45 years of experience in the management of a variety of international companies in Europe, the Middle East and Africa. Experienced in project management, company operations and general contracting. Lecturer at different Universities in Europe.

Managing Director



Octavian Chiscareanu

Romanian national, B. Sc. in Economics at Valahia University from Targoviste. More than 15 years in Blom with experience in various projects at different levels like: production, technical support and development and project/team management.

Department Manager



Valerica Soare

Romanian national, M.Sc. in Finances Valahia University of Targoviste. About 10 years in Blom with experience in Human Resources and Finances with a main focus on human resources, health and safety, payroll and general management.

Department Manager




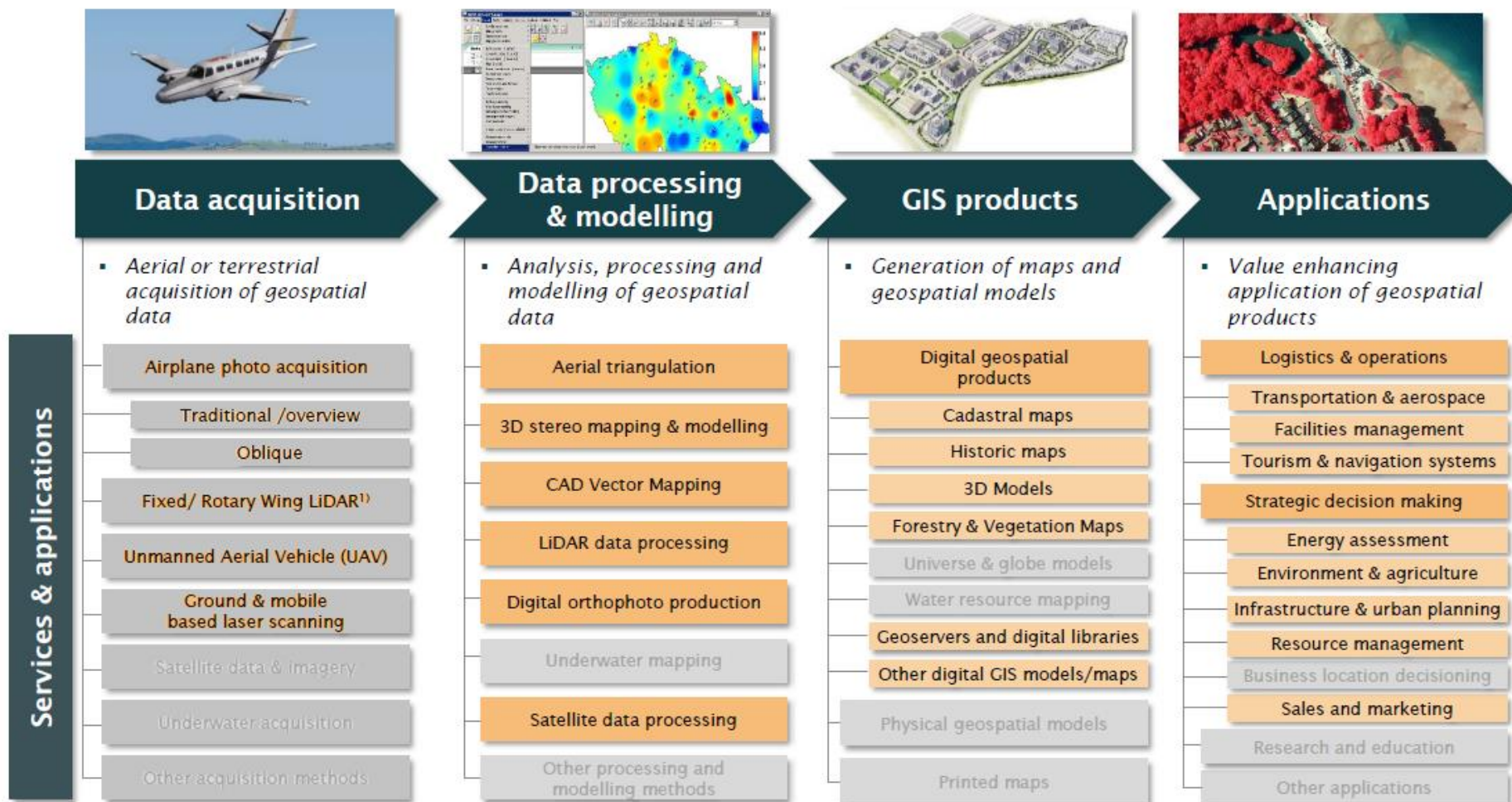
Alexandra Dancus

Romanian national, M.Sc. in Finances Valahia University of Targoviste. More than 15 years in Blom with experience in GIS Data Conversion, Quality Management and Project Management, specialized in Defense Mapping.

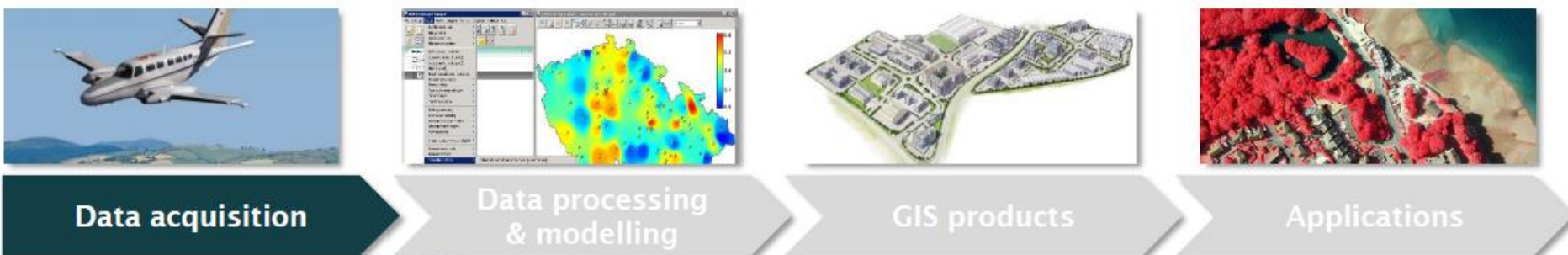
Deputy Department Manager


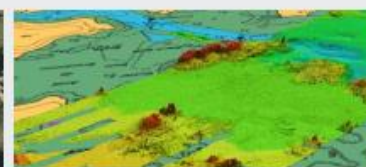
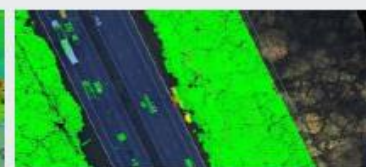


Geographic Information System (GIS) Value Chain

 Covered
 Not covered

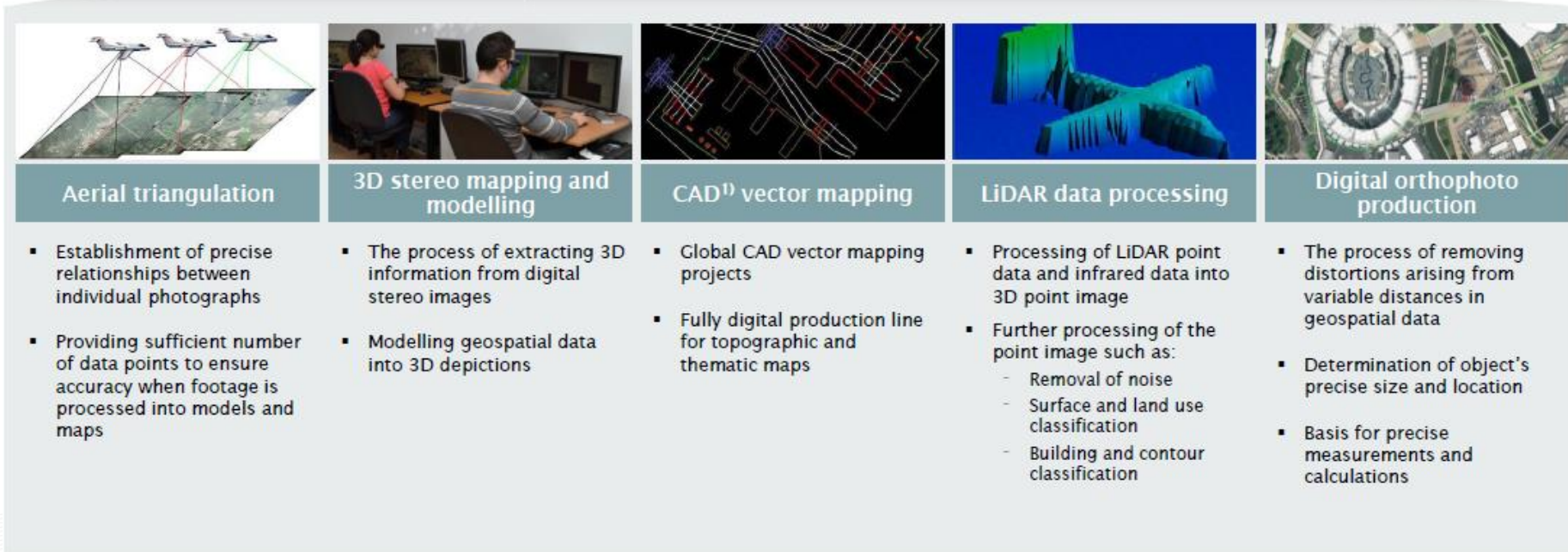
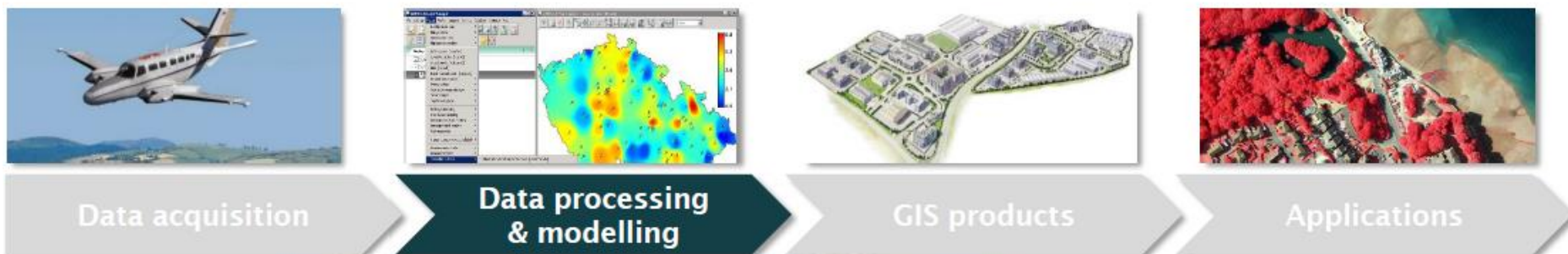


Geographic Information System (GIS) Value Chain

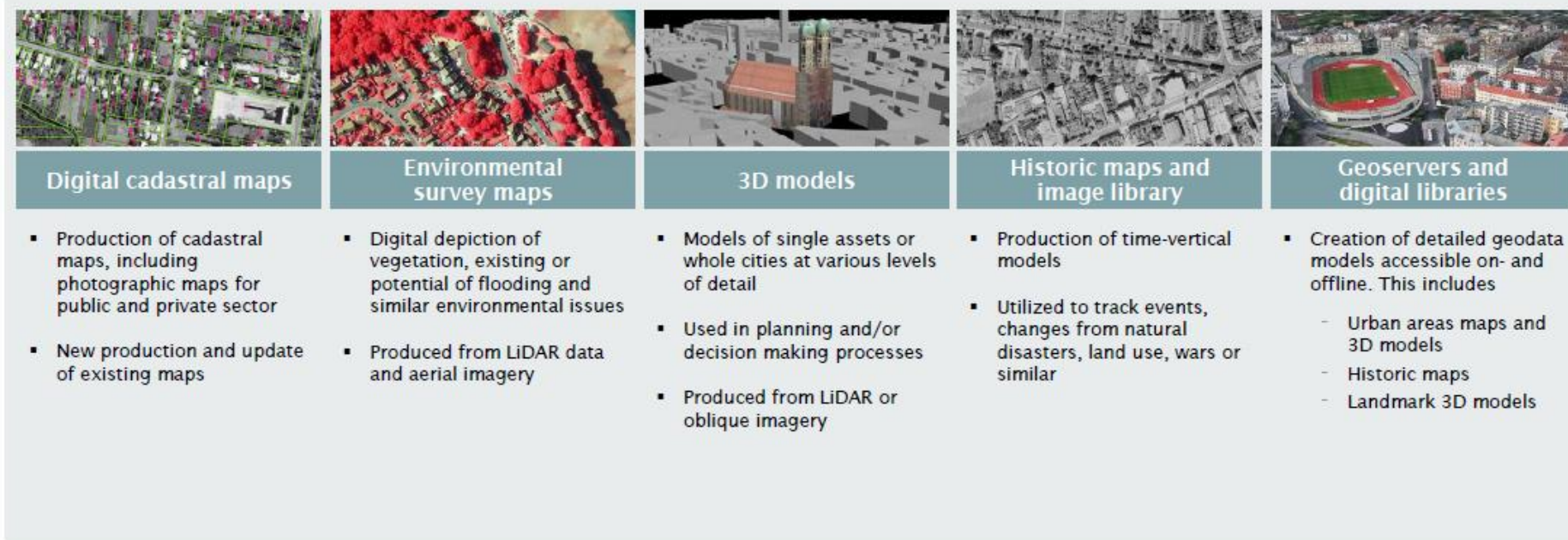
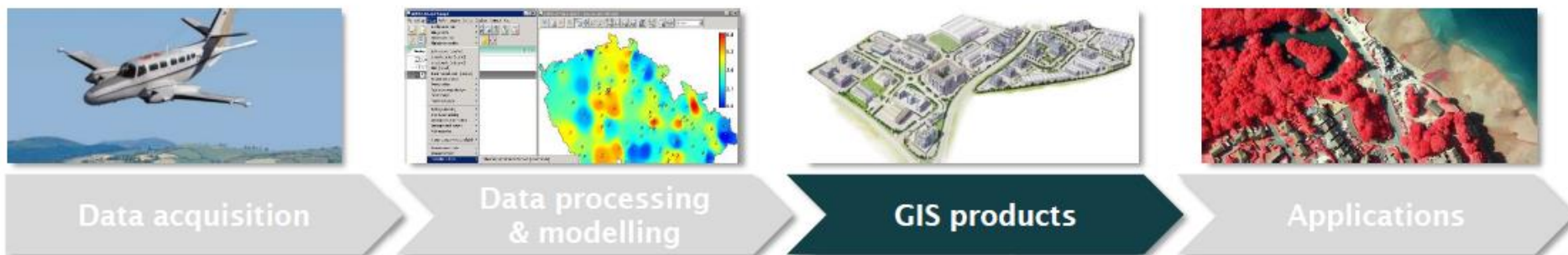


				
Fixed wing aerial acquisition	Fixed/rotary wing LiDAR	Laser scanning	Ground and mobile based acquisitions	Other data acquisition methods
<ul style="list-style-type: none"> ▪ Capture at resolutions from 2-40 cm ▪ Benefits with regards to rapidity and accuracy of data capture ▪ Suited for large areas ▪ Enables access to dangerous areas 	<ul style="list-style-type: none"> ▪ Both fixed wing, for large area mapping, and rotary wing, for corridor surveys and vegetation penetration ▪ Applications found in geotechnical assessment, route planning, inventory and management of assets and habitat 	<ul style="list-style-type: none"> ▪ An accurate and fast way of capturing 'point cloud' information¹⁾ ▪ Suited for corridor mapping such as road and rail networks ▪ Applications found in technical and topographic mapping for asset management and maintenance 	<ul style="list-style-type: none"> ▪ Land surveying using vehicle mounted or tripod mounted systems ▪ Applications found in asset maintenance and management ▪ Benefits with regard to costs, portability and accuracy 	<ul style="list-style-type: none"> ▪ Processing of third party captured satellite images ▪ UAV aerial photography, typically used for corridor mapping

Geographic Information System (GIS) Value Chain



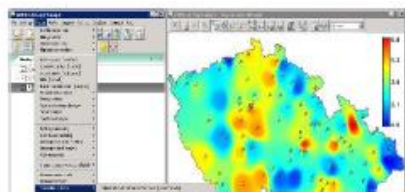
Geographic Information System (GIS) Value Chain



Geographic Information System (GIS) Value Chain



Data acquisition



Data processing
& modelling



GIS products

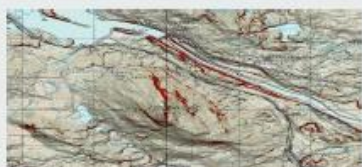


Applications



Tourist guides and
navigation systems

- 3D models used in navigation devices
- Display of landmark and additional geo-information for online 3D guides and tours
- Remote city simulation for tourism



Geospatial datasets for
public planning & admin.

- Update and creation of national datasets for governments
- Input for public maps and geospatial database



Asset and infrastructure
management

- Laser scanning utilized for maintenance and surveillance of roads, railways and other facilities:
 - Measuring and mapping critical components
 - Spotting irregularities
 - Surveillance of natural resources



Environmental
assessment studies

- LiDAR and 3D models utilized for e.g.
 - Potential of flooding
 - Prediction of future growth of trees
 - Storm damage analysis
 - Harvesting planning
 - Forestry management



Energy and
infrastructure planning

- LiDAR based 3D models utilized for e.g.
 - Prediction of solar potential
 - Power line planning
 - Telecommunication planning



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