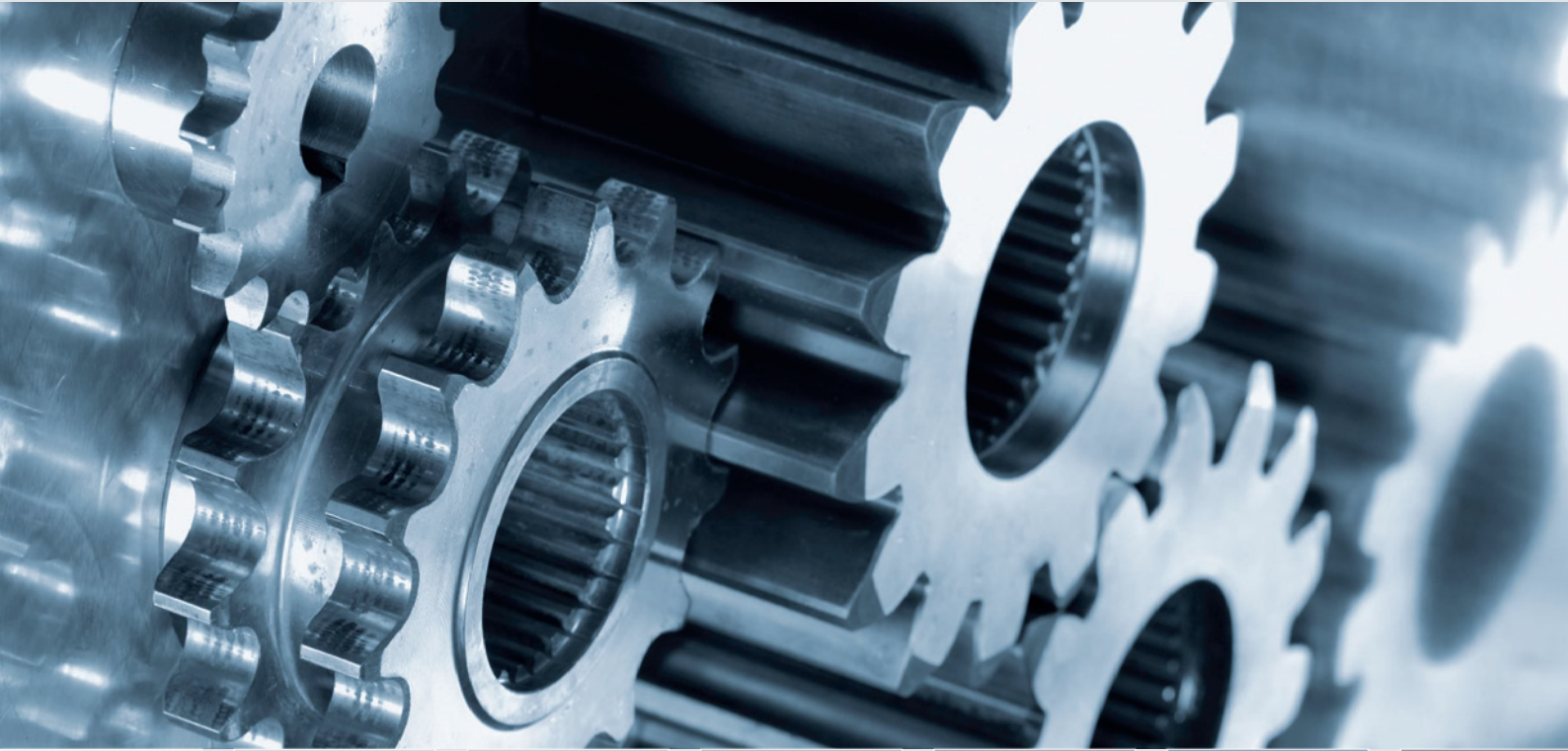


# Integrated Services





### **Integrated approach - The whole is more than the sum of its parts**

Building on its extensive expertise and experience in geo-information, remote sensing, GIS, and communication and information technologies, GAF applies a holistic approach in order to provide effective and efficient services and solutions. The ability of GIS to seamlessly integrate data of varying structures and scales is a key factor for multi-criteria analysis as well as decision making and planning processes. This is particularly true for the management of environmental risks and natural or man-made disasters.

### **From innovation to operational services - Bridging the gap between ideas and the market**

In concept studies, new services based on synergies between space technologies and geo-information are identified, defined and analysed. The aim of such studies is to initially demonstrate the feasibility and financial viability of the services and then to ascertain specific requirements by interfacing directly with users and stakeholders. GAF constantly seeks to develop and implement new applications and services for its clients.

### **Satellite communication and satellite navigation**

In locations where terrestrial communication infrastructure is not possible or available, GAF, together with its parent company, provides custom satellite connectivity solutions ranging from entry level to high performance. We implement closed corporate networks and secure private networks that interconnect a large number of peripheral stations or connect them to a central node.

# Consulting expertise

## Satellite communication

- Broadband and narrowband connectivity
- Land - maritime - mobile telecom services
- Data and voice transmissions, video conferences
- Fleet management
- Data telemetry
- Remote surveillance
- Telemedicine support

## Global Navigation Satellite Systems (GNSS)

- Positioning, navigation and tracking solutions
- Alpine search and rescue
- Precision farming
- Road surveys
- Land registration
- Ground-truthing

## Integration of space technologies

- Fleet management
- Route optimisation
- VIP monitoring
- Container and vehicle tracking
- Forecasting and warning systems

## Studies and consulting

- Market and demand assessment
- Concept and feasibility studies
- Prototyping, pilot projects and validation
- Cost benefit analysis
- Strategic consulting

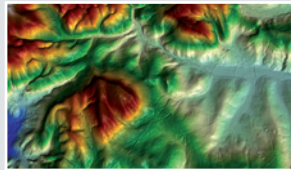
## Innovation and applications

- Product and services innovation
- Exploitation of synergies between ICT and geo-information
- Customer-centric approach - unbiased technology recommendations



Building on well-established in-house capacities and multi-national networks, the Integrated Services unit at GAF provides innovative and comprehensive services for complex projects and demands by implementing and combining technologies relating to satellite communication, satellite navigation, earth observation and geo-information. GAF provides cutting-edge technologies and high quality data resources to customers across the world, as well as pragmatic user-focused solutions.

## Services offered by GAF



### Geo-data store

- Earth observation data:  
raw imagery and products
- Digital elevation models
- Land cover data



### Data processing

- Digital image processing
- Mapping and monitoring
- Digital cartography and map production
- Virtual reality (3D)



### Information systems

- System analysis, integration and migration
- GIS/DB design and implementation
- Application development
- Spatial data structure concepts



### Software development

- Development of customised spatial software
- Standalone, internet and enterprise GIS
- SDI development
- Standards based development and integration



### Integrated services

- Solutions combining space & non-space technologies
- Integration of SatCom, SatNav and earth observation
- Application knowhow based on cutting edge technologies and high quality data resources



### Management consulting

- Institutional/sector assessment
- Know-how transfer and capacity building
- Project definition/supervision
- Research and sector analysis studies