INFRASTRUCTURE COMPANY (ASFINAG) USING GIS
ASSISTING DECISION MAKERS AND STAFF

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AGENDA

The company: organization and tasks
ASFINAG Geographic Information System
WebMapping for management, staff and customers
Summary and perspective
ASFINAG plans, finances, maintains and tolls the entire Austrian motorway and expressway network covering 2,178 kilometers.

GIS since 2003 emphasizing on thematic maps

Establishment of a company-wide GIS

Intensive use of web technologies
Tasks and company structure according to OPERATION, CONSTRUCTION and TOLL

ASFINAG
Autobahnen- und Schnellstraßen-Finanzierungs-Aktiengesellschaft

- ASFINAG Bau Management GmbH
- ASFINAG Service GmbH
- ASFINAG Alpenstraßen GmbH
- ASFINAG Maut Service GmbH
- ASFINAG International GmbH
  - ASFINAG Cash Management GmbH
  - ASFINAG European Toll Service GmbH
Useful networking: Improving mobility, expansion and modernization

Safety: Construction of second tunnel tubes and modernization

Efficient economy and financial monitoring
Maintaining GIS architecture: geodata, software, server

GIS projects: conception, implementation and analysis

Map management

WebMapping: dynamic maps and distribution of specific ASFINAG information using web technologies
ASFINAG GIS

WebGIS is used by the customer and many ASFINAG departments (e.g. road service, maintenance teams, customer management)

Data and information
- Road network, topographical maps, aerial photo, owner information, 3D terrain model
- Survey and inventory data
- Information from different databases, e.g. SAP, SharePoint or document management system
Key figures and benchmark data

Motorway and expressway information

Analysis of geodata and publishing of thematic maps for reporting duty and public relations
Collaboration with different departments (road service, electrical engineering, traffic management, noise protection)

- Inventory data for business assessment
- "Graphenintegrationsplattform"
- Route network traffic management
- Production site analysis
- Property management, advertising
Supplying traffic management and services
Supporting customer management
Construction and property management
Access to sharepoint project information platform
Distribution of information concerning geodata and database information using web technologies (internet / intranet)

The web frontend (WebOffice) stands out for easy handling and high functionality.

High flexibility for the user (interactive thematic layers, searching, predefined views and various functions)
• different thematic layers
• searching box
• convenient layout
• motorway
• aerial photo, property
• infrastructure objects and inventory data
• identification of routes and objects
- motorway, minor road network
- office locations, rest areas
- traffic density
- overlaying information like noise and topographical maps
• motorway, minor road network
• administrative boundaries
• office location, rest area
• inclination along the motorway
• organization responsibility (e.g. route services)
• motorway, minor road network
• special toll network
• toll sticker and GO-Box
• corridor toll sticker and video toll card
• interchanges, tunnel
• vicinity search
• rest areas
Collaboration between departments and sharing of knowledge and information
GIS as a tool to support business workflows and processes
Geographical visualization of information from different departments using one frontend for all employees
Optimizing decision making and measures
Increasing collaboration
Optimizing ASFINAG data management

Improving processes

Supporting daily work

Mobile GIS

Disaster management
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