Astrid GeoPortal

VOTRE RÉSEAU SÉCURITÉ
COMMUNICATIE VOOR VEILIGHEID
What is ASTRID?

• A.S.T.R.I.D. N. V. is a corporation owned by the Belgian Federal Government (100%), created in 1998

• Products and customers defined by law.

• Operate the systems at cost level
4 basic services

1. Radionetwork (TETRA)
2. Paging system (POCSAG)
3. Computer Aided dispatching systems and control rooms for Belgian emergency services
4. MVN (Mobile virtual network)
3. Computer Aided Dispatching (CAD)

Computer aided dispatching and control rooms

- Emergency calls 100 (fire&medical), 101 (police) en 112 (european emergency number)
- 11 control rooms for Belgium
- Call taking and dispatching
- Management of units
- Computer Aided
- Support to units in the fields
- Integrated
- Intergraph Computer Aided Dispatching technology
- 3000 calls per Control room per day
Where is geographical information used by Emergency services?

Telephony
(Geographical information about the caller provided by the telecom operator, ...)

Vehicle Tracking
(GPS data, ...)

Computer Aided Dispatching
(Help for the decision and the management of intervention based on the geographical environment by analysing and displaying intelligent maps...)

Reports and Statistics
(thematics, proximity analysing, ...)

Field equipment
(Map and geographical data communicated to unit on terrain, ...)

Geographical Information Systems

Location of Units
(GPS/Satellites)

Location of Event/Intervention

Route calculation and means/unit recommendation

Spatial Analysis (query environment next to event, simulations, reports...)
The need of the geoportal next to the Computer Aided Dispatching system in the control rooms for emergency calls
2 complementary systems
CAD & GeoPortal

Computer Aided Dispatching
- Connect to local database
- Merge map and information into 1 unique map
- ! Contains operationnal critical information

GeoPortal
- Connect to internal and external webservice.
- Stack several maps in a same window as layers.

Operational intelligence
Geographical intelligence
How are maps used in the dispatching application?

Content:
- **TeleAtlas** 2004
- Maintenance/update: **NGI** since 2006 (ca. 7000 updates per year)
- **Address points**: Regional data set of addresses

Constraints:
- **Operational critical informations** must be maintained at 100%
- 1 map
- High maintenance costs

Technics:
- Map data must be **converted and integrated**
- Operational information must be **merged** with the map
How are maps used in GeoPortal?

Content:
- Map source: several map data/services (NGI, AGIV, Openstreetmap, tomtom, SPW, CIRB,...)
- Maintenance/update on map data: Regular copy on Geoportal local database
- Maintenance/update on map webservice: automatic due to direct connection to map data provider/owner

Constraints:
- Depend on SLA sources:
  - Response time
  - Corrections

Technics:
- Map data are copied or connected remotely. No transformation of data necessary
GeoPortal
With Geoportal, ASTRID creates a direct connection between map data creators/owners and the emergency services (end-users).
GeoPortal general

Available for:
- Desktop viewer (silverlight)
- Mobile viewer (HTML 5)

SLA: 24h/24h (SIGGIS)

Multitude of maps for:
- Secondary localisation
- Environment information
- Map annotation
Several map layers

Addres points

Live traffic data

And many more …
Add own data in Geoportal

Share location with the dispatching application:

Search address or information by themes:

And several additionnal functionalities...
National view on all available means
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