

Satellite Applications for mountain search and rescue

**Lessons learned working with alpine search and rescue
organisations**

SATELLITE APPLICATIONS FOR THE ALPS

About Eurisy

- **Facilitator:** We design and manage events as platforms that help participants teach, learn, and innovate together across sectors.
- **Catalyser:** We add value to various innovation projects by involving users, championing their point of view, and by facilitating the dialogue between them and space stakeholders.
- **Match-maker:** end-user communities and technology experts. Understanding patterns and links, and creating them for mutual benefit of those involved, is second nature.
- **Adviser:** we document factors of success and failure in the adoption of innovation. Then we inform decision-makers on how to smooth the path.

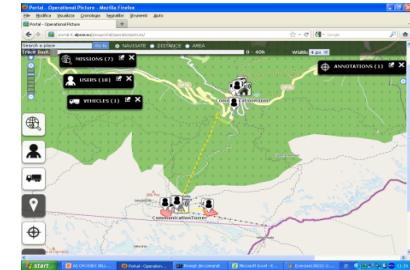


SATELLITE APPLICATIONS FOR THE ALPS

Satellite applications for search and rescue

Satellite navigation

To obtain caller's location and improve team coordination.



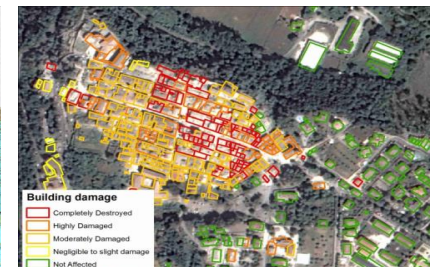
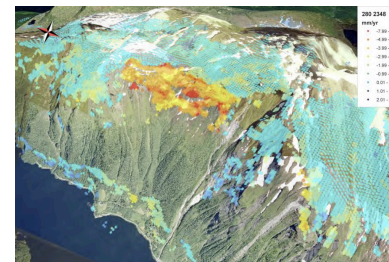
Satellite communication

To provide connectivity in remote areas for emergency calls and coordination.



Earth observation

To map risk, provide post-disaster imagery and improve maps.



**If these technologies are already available
why are they not yet used in
every
emergency response operation?**

Satellite Applications for search and rescue Eurisy Alps project

GOALS



















- **Map** the current use of satellite systems
- **Document** and report challenges
- **Share** success stories between different Alpine regions
- **Build** a community of experienced and interested users
- **Connect** service providers, space agencies and stakeholders to the right users

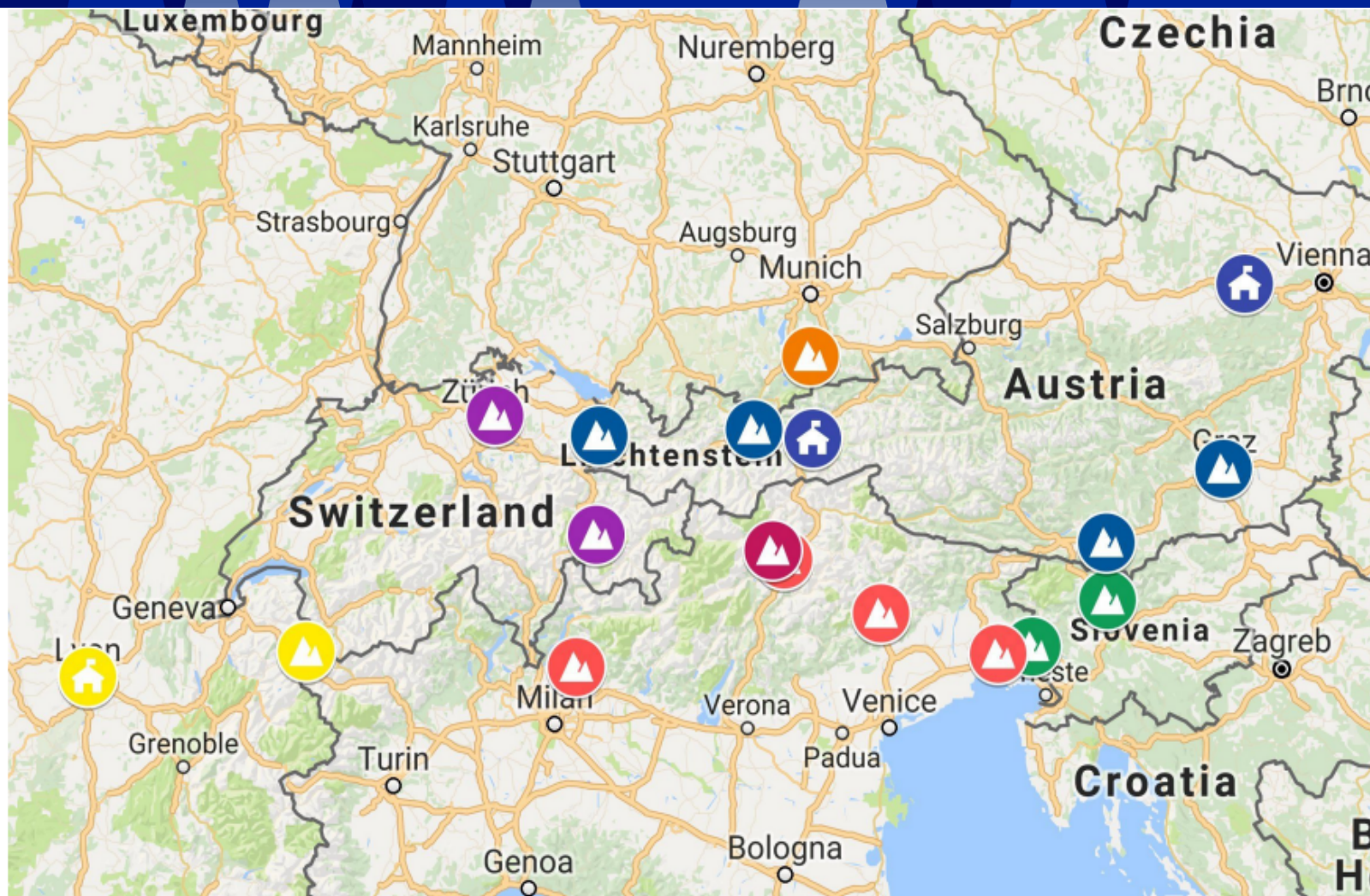
ACTIVITIES

- **Interviewed users** in Austria, France, Germany, Italy, Slovenia and Switzerland
- **Document needs and success stories** from different regions and organisations
- **Organised a conference** for search and rescue in the Alps at the International Mountain Summit
- **Report on findings** of initial survey and conference discussions
- **Extend** projects to other European regions

SATELLITE APPLICATIONS FOR THE ALPS

Search and Rescue Organisations

-  Mountain Rescue Service Slovenia
-  Slovenian Administration for Civil Protection and Disaster Relief
-  Bergwacht Bayern
-  Bergrettung Carinthia
-  Bergrettung Tirol
-  Bergrettung Styria
-  Bergrettung Vorarlberg
-  Tyrol Regional Operations Centre
-  NOTRUF Lower Austria
-  CNSAS
-  Civil Protection of the FVG Region
-  CNSAS Belluno
-  CNSAS South Tyrol
-  BRD Südtirol
-  Alpine Rescue Grisons
-  Swiss REGA and Alpine Rettung Schweiz
-  La Chamoniarde
-  SDIS 73





SATELLITE APPLICATIONS FOR THE ALPS

Challenges

- poor collaboration and exchange of information between organisations
- need for all staff to be trained
- lack of experts in-house at local/regional levels
- different organisations rely on different applications → Incompatibility of existing IT systems
- budget constraints limiting adoption of new services and sustained use after project funding ends
- lack of expertise in-house to procure and evaluate services they are not familiar with

Opportunities

- shared standards for geo-information and location data
- common Alpine protocols and standards for training and use of services coordinated nationally and for the Alps
- compatible coordination platforms that can exchange information seamlessly
- aggregating regional demand to reach a critical mass
- evaluating the extent to which new technologies can partly replace existing ones for which budgets are already ear-marked
- involving space experts to accompany the process

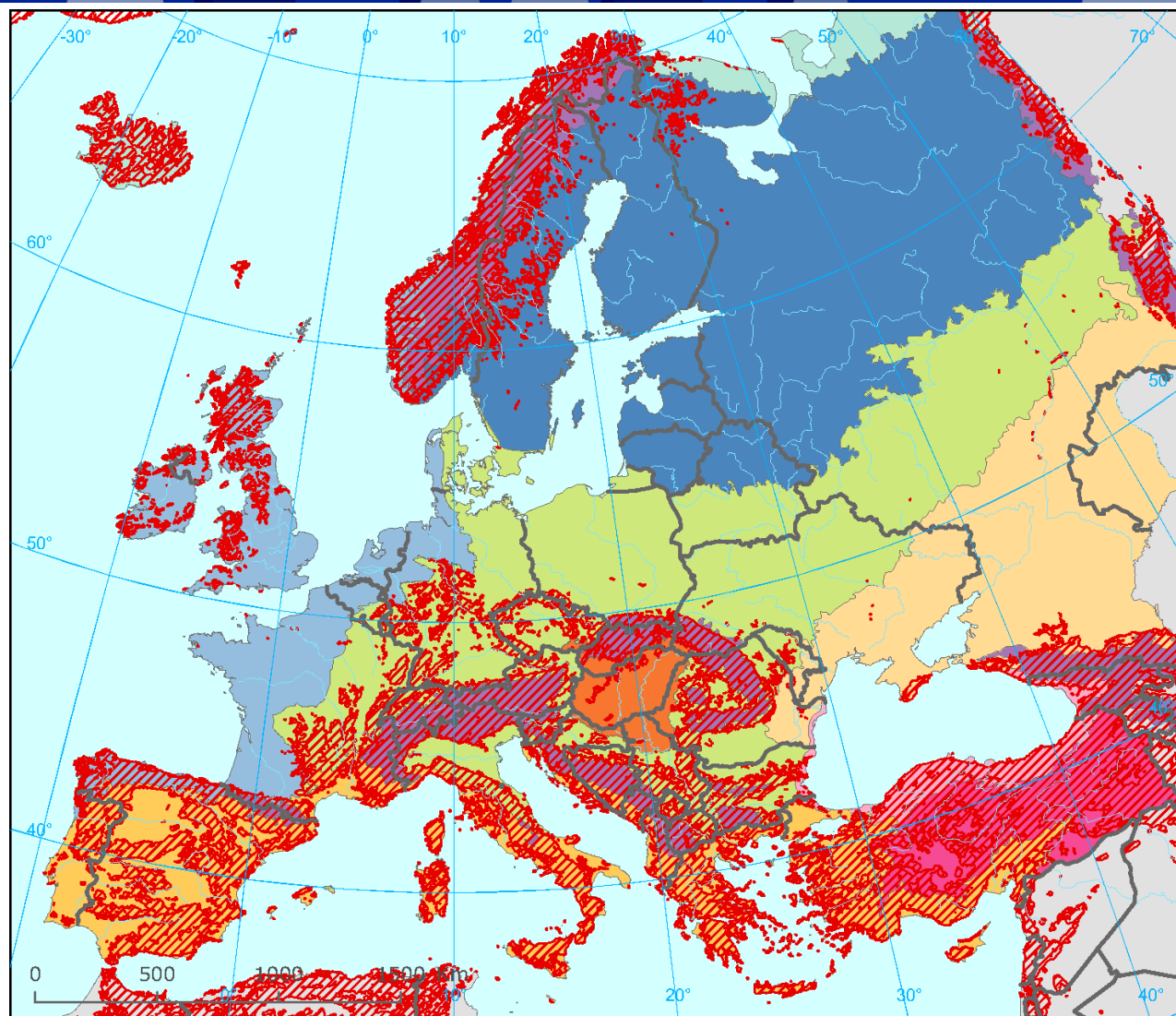


Eurisy recommendations:

- Make location sharing when calling the emergency number a European standard.
- Establish common data standards to allow team coordination systems to exchange information.
- Support a community of end users in the uptake and implementation of compatible solutions.

Find the conference report and project summary on our website [here](#)

SATELLITE APPLICATIONS FOR THE ALPS



Biogeographic regions with overlay of mountain area

 Mountains

Biogeographic region

-  Alpine
-  Anatolian
-  Arctic
-  Atlantic
-  Black Sea
-  Boreal
-  Continental
-  Macaronesia
-  Mediterranean
-  Pannonian
-  Steppic
-  Outside data coverage

Want to learn more of how space can benefit search and rescue, or think we could work together?

Get in touch!

Contact

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