sarOS™
Search and Rescu Operating System

Mountain rescue Association of Slovenia
With cooperation of
What we had?

• Sophisticated system.
• Everything was written on paper as a protocol.
• Very good educational program from beginners to experts.
• Every year practical trainings all over Slovenia in different conditions.
• Exchange of knowledge with other rescue services in and out of Slovenia.
What we had and what we wish to have?

• We had raw digital maps which were useless because of limitation of different apps or to complicated software (OziExplorer).

• Everything was working manually – without support of any software and which takes me time and it is not 100% verifiable.

• All freeware software programs have too many limitations, professional one are too expensive, to complicated and we have bad feeling in case of cracking.
• We had/have knowledge and experiences.
• We had an idea and strategy.

And we had very limited budget …

… but because of dreams, idea and good connection with people who works on digital technology and mappings we started with a project search and rescue operating system in short sarOS.
... and what sarOS$^{\text{TM}}$ is?!  
sarOS$^{\text{TM}}$ represents sustainable methodology and results to integrate all relevant current and future requirements of search and rescue organisations into a “working modules based software solution” to conduct search and rescue operations.
Main Aspects

• standardisation of mapping system,
• integration of modern search and rescue techniques,
• covering relevant communication channels,
• standardisation of search and rescue in-filed data collection,
• implemented module can be used in search and rescue organisation on module by module basis without need to wait for further modules to be available,
• enable across border collaboration and hosting search and rescue teams from other countries,
• relatively short and easy learning curve.
Main Work Flow – Slovenia case

• Convert and unifying state level available mapping sources Scales covered: 1:1.000.000, 750K, 250K, 50K, 25K, 10K, 5K, Aerial imagery 25cm.

• Colour raster layers based on usage scenarios (2D view, Google Earth view, debriefing and reporting).

• Create local based Google Earth raster server.

• Create communication module to cover communications with logging.
• Convert special mapping sources and datasets into local Google Earth raster server.
• Lidar, digital model of terrain, local datasets.
• Create module to trigger and conduct search and rescue operation.
• Create module for debriefing and reporting.
The project sarOS is divided into three phases

• Maps.
• Communication.
• Rescue management.
Thank you for listening.