

International Brokerage Event  
Brussels, 26-27/10/2017



***Uni Research***  
***Center for Big Data Analysis***  
***Alla Sapronova***  
***Alla.Sapronova@uni.no***

# Description of the Organization

- Uni Research is non-profit multidisciplinary research institute based in Bergen, Norway (around 500 employees)
- Uni Reserach has six departments: Climate, Environment, Health, Computing, Social Science and Oil Research
- The University of Bergen is the main shareholder with 85 percent of the shares, while the foundation for University research Bergen owns the remaining 15 percent
- Have expertise on local (Regional Research Funds, Norwegian Research Council) and EU research grants.



# Research interest

- Center for Big Data Analysis, a part of Uni Research Computing, providing Big Data activities valuable for academia, the public sector and beyond
- Developing an operational Big Data IT infrastructure, realizing appropriate data assets and data analysis methods, establishing application areas using the two above, realizing corresponding services
- Involved in big data mining and analysis projects @ various fields, including engineering, biology, climatology, medicine, social sciences, ecology.
- Creation of a comprehensive data set, integrating all information available:
  - Sensors
  - Measurements
  - Video
  - Statistics
  - Related environmental data (weather, flow)
  - Regulations

***Avalanche/Landslides: awareness and response***

• **Objectives:**

- to develop model for the application of drones to increase the safety of surface transport, both passenger and cargo, including search and rescue applications.
- to develop technologies for real-time information processing for transport management (including emergencies), transport infrastructure condition monitoring, logistics, on-demand cargo and/or personal mobility using drones.
- to contribute to increase safety and security of the overall civil transport system

• **Expected results**

- Ready-to-implement model that receives, integrates, processes and uses drones and other related information (weather, traffic, date, etc.) to predict landslides/avalanches on complex terrain roads



# Consortium - profile of known partners *(if any)*



No	Partner Name	Type	Country	Role in the Project
01	Uni Research Climate	RTD	Norway	Numerical weather prediction
02	Uni Research CIPR	RTD	Norway	Geological data
03				
04				
05				
06				
07				
08				

# Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	Drone operator	SME		Operate drones and stream data (video)
02	Sensor producer	SME		Provide data from road sensors
03	Road administration	GOV		Provide historical data on landslides and validate the model
04				
05				
06				
07				
08				

**Alla Sapronova**  
**Uni Research**

Center for Big Data Analysis  
Norway

+47 41488643

*alla.sapronova@uni.no*

*uni.no*

---