

## Jahresforum der EU-Alpenstrategie 24. November 2017, BMW-Welt, München

### Annual Forum of the EU Alpine Strategy 24 November 2017, BMW-Welt, Munich

#### Workshop 3

#### Research, innovation and networking for the Alpine Region

1. **Anna Giorgi** - Research, Innovation and Networking for the Alpine Region
2. **Emanuela Zilio** - Re-search Alps: A project to map labs in the Alpine region
3. **Margherita Russo** - **MORE-Alps**: A research & teaching project on Regional Development Policies within the EUSALP Strategy
4. **Guido Piccoli**- ALP-GOV : Technical Assistance and Consultancy Service for strategic analysis and design activities under the ALP-GOV Project.
5. **Umberto Bondi** - Scale(up)Alps: Alpine Space, the leading hub for scaling up business
6. **Prof. Dr. Krautblatter** - AlpSenseBench: Alpine remote sensing of climate-induced natural hazards
7. **Klemen Risto Bizjak** - Greencycle: Introducing circular economy system to Alpine Space to achieve low-carbon targets
8. **Dr. Borut Vrščaj** - Links4Soils project
9. **Prof. Markus Rhomberg** - International Lake Constance University





**EUSALP** EU STRATEGY FOR THE ALPINE REGION

[www.alpine-region.eu](http://www.alpine-region.eu)

# Research, Innovation and Networking for the Alpine Region

**ANNA GIORGI**

Action Group 1 Leader – Munich, 24.11.2017



**Regione  
Lombardia**



80 million people, 7 countries, 48 regions,  
mountains and plains addressing together  
common challenges and opportunities



**Interreg**  
**Alpine Space**  
AlpGov



The project is co-financed by the European Regional Development Fund.

## ACTION GROUP 1

- **Action Group Leader:** Ms. Anna Giorgi (Lombardy Region)
- **Members:** 18 members from 6 EUSALP Countries
- **Active projects:** AlpGov, Re-Search Alps

→ **MISSION:** *to develop an effective Research and Innovation Ecosystem to promote networking, competitiveness, attractiveness and quality of life in the Alpine Region.*



80 million people, 7 countries, 48 regions,  
mountains and plains addressing together  
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## Operative Sub-groups

- AG1 subgroup 1

Objective: *To map and analyze the 3S Strategies in the innovation areas, their topics and results*

- AG1 subgroup 2

Objective: *To map top level Research and Innovation Centers and clusters in the Alpine area*

- AG1 subgroup 3

Objective: *To map EU programs that can support EUSALP concrete actions concerning Research and Innovation*

- AG1 subgroup 4

Objective: *To map regional and national policies concerning Research and Innovation*

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common challenges and opportunities





## What we are implementing

The EUSALP Platform of Knowledge (Pok)

The Map of R&I Centers, Labs and Clusters working in R&I

The Map of regional and national policies related to R&I

The Map of EU, national and regional funding for R&I

80 million people, 7 countries, 48 regions,  
mountains and plains addressing together  
common challenges and opportunities



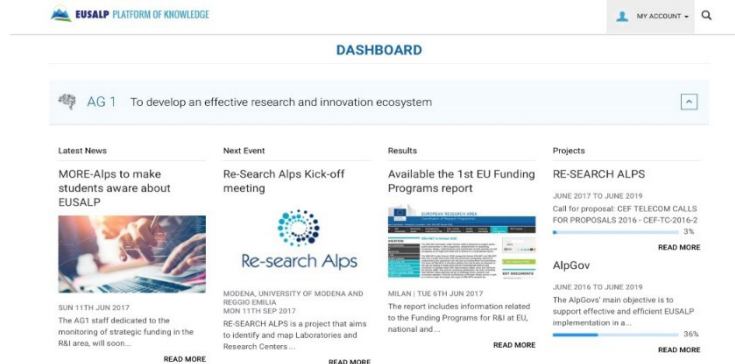
**Interreg**  
Alpine Space  
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## The EUSALP Platform of Knowledge (Pok)

The PoK will support EUSALP Bodies and Groups, policy makers, stakeholders, researchers, and citizens by providing a **single place where stakeholders can find relevant data concerning the Alpine Region.**

- a 3D map
- an urban sensing tool
- an eLearning platform
- a complete collection of information about EU, national and regional funding and policies concerning R&I; and a media area

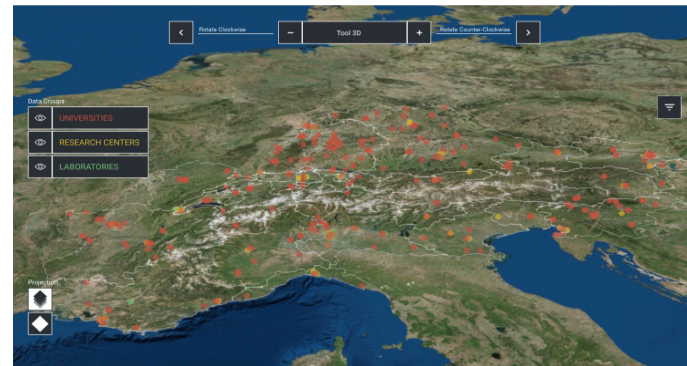


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## The Map of R&I Centers, Labs and Clusters working in R&I

Action Group 1 is working to put together **a comprehensive knowledge database and map** of public/private Research and Innovation Centers and Labs in the Alpine Region.



- This database and map will be useful to Higher Education Institution managers, intermediaries, researchers from various fields, business professionals and policy makers.
- **The Re-Search Alps project and Action Group 1 Subgroup 2 are spearheading this activity.**

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## The Map of EU, national and regional funding for R&I

Action Group 1 is collecting information about all the **programs and calls for funding in the Research and Innovation** field and publishing them in the PoK.

- Users can browse programs and calls
- The PoK allows viewers to identify awarded project proposals and to view all working consortia as interactive networks in the 3D map.
- Periodic reports and infographics will be available for a comprehensive overview.
- **Action Group 1 Subgroup 3** is leading this activity

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## The Map of regional and national policies related to R&I

Action Group 1 is working to map regional and national policies related to Research and Innovation has at its foundation the implementation and promotion of the **triple helix principle**.

- Action Group 1's activities draw on ERA, EUROPA 2020/Innovation Union and EHEA policies and focusing them on the EUSALP Territory.
- **Action Group 1 Subgroup 4** has taken the lead on this activity and is arranging a proposal for an instrument of **public-public partnerships** and the resulting **joint programming**.

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## Topic of the Action Group 1 WORKSHOP

Action Group 1 members will present and discuss the projects and actions they are carrying on to tackle its challenge. Moreover, **some best cases from ongoing Alpine Space Projects** and related to AG1 priority fields of interest will be presented.

- ***Research Laboratories in the Alpine Area (RE-SEARCH ALPS)***

Emanuela Zilio, University of Milan (IT)

- ***From regional policies to a macroregional policy. Preliminary results from a comparative analysis on EUSALP regions***

Margherita Russo, Ministry for Education, Research and University (IT)

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## Topic of the Action Group 1 WORKSHOP

- ***Technical Assistance and Consultancy Service for strategic analysis and design activities under the ALP-GOV Project***

Guido Piccoli, ALOT (IT)

- ***The SCALE(up)ALPS project - fostering the scaling up phase of start-ups in the Alpine Space***

Umberto Bondi, USI - University of Italian Switzerland (CH)

- ***AlpSense: Alpine remote Sensing of climate-induced natural hazards***

Michael Krautblatter, Technische Universität München (DE); Christoph Mayer, Bayerische Akademie der Wissenschaften, Ulrich Münzer, Ludwig-Maximilians-Universität; München, Florian Siegert, 3D RealityMaps GmbH and Markus Keuschnig, Georesearch (AT)

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## Topic of the Action Group 1 WORKSHOP

- ***The ASP-Greencycle Project***

Klemen Risto Bizjak, Municipality of Maribor (SI)

- ***The ASP-Links 4 Soils Project***

Dorothea Palenberg, Blue! Advancing European project (SI)

- ***A good example for cross-border cooperation in science and research in the Alpine region***

Markus Rhomberg, International Lake Constance University IBH (DE)

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**Thank you!**  
**[ag1.leader@alpine-region.eu](mailto:ag1.leader@alpine-region.eu)**  
**[www.alpine-region.eu](http://www.alpine-region.eu)**

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**Interreg**  
**Alpine Space**  
AlpGov





Re-search Alps

# A project to map labs in the Alpine region

INEA CEF-TELECOM Project

AGREEMENT No INEA/CEF/ICT/A2016/1296967

EUSALP Annual Forum | 24 November 2017 | Munich BMW Welt

Emanuela Zilio (Unimont - University of Milan, IT)

Project Coordinator: Prof. Francesco Guerra (University of Modena and Reggio Emilia, IT)



Re-search Alps

The idea behind the RE-SEARCH ALPS  
**labs as valuable assets**

**Scientific and technical laboratories, research centers, innovation centers** (both public and private)...

- + are pillars for the supply of scientific and technical knowledge to the society
- + constitute an asset to support economic and social development



Re-search Alps

## The idea behind the RE-SEARCH ALPS labs as valuable assets

Data on those infrastructures...

- + are valuable for **enterprises, public administrations, universities, service centers**, among others
- + are complementary in industrial policy measures supporting SMEs in using knowledge-intensive services and research activities provided by labs in the area





Re-search Alps

The idea behind the RE-SEARCH ALPS  
**a web tool to access that asset**

The goal of EUSALP Action Group 1:

→ to support with this knowledge the systemic goal to enhance  
innovation ecosystems

**BUT this knowledge is not available today for potential users!**

→ Need of a tool to know and map Laboratories and Research  
Centers in the Alpine Macroregion



Re-search Alps

The idea behind the RE-SEARCH ALPS  
**a web tool to access that asset**

Our solution: **Re-search Alps**

**Connecting Europe Facility 2014-2020 | CEF TELECOM CALLS  
FOR PROPOSALS 2016 | CEF-TC-2016-2**



Re-search Alps

## Three main goals

1. definition of a **set of metadata** able to represent the relevant **characteristics of laboratories, research and innovation centers** – “labs”
2. **creation of an open dataset** describing the “labs” in the seven countries of EUSALP → focus on the 48 Regions of the Alpine Area
3. development of a **semantic and multilingual web application** for:
  - querying the dataset
  - retrieving the results in open and structured formats
  - visualizing geo-referenced data



## Re-search Alps **Methodology: metadata**

### **Development of a metadata model**

standard coding to be inserted in the European Data Portal

### **Possible structure**

- + **master data** section includes all the details for identifying (legally and geographically) the entity
- + **capacity section** includes metadata describing the size in terms of staff, facilities, funded projects, supplied services, patents, publications, ...
- + **activity section** includes metadata reporting the research areas, the types of services supplied, the expertise, ...
- + **cooperative section** includes Research projects for which data is available at the national or European level
- + **publication section** describing papers available at the national or European level
- + **patents section** describing patents available in European repositories



Re-search Alps

## **Methodology: integration and update**

- + allow to “virtually” integrate the local, national datasets, by mapping their schemas into the common dataset
- + integrate in a unique dataset selected data which are already available in specific datasets and websites

→ in this way, updates at the local level will be automatically propagated to the RE-SEARCH ALPS dataset and the process for generating a new release of the dataset simplified



# Re-search Alps

## The French ScanR



MINISTÈRE  
DE L'ÉDUCATION NATIONALE,  
DE L'ENSEIGNEMENT SUPÉRIEUR  
ET DE LA RECHERCHE



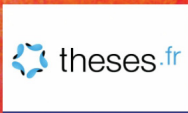
# scanR

Moteur de la Recherche et de l'Innovation  
BÊTA

Ex: biotechnologies, "open government", "Institut Pascal", "UMR 7534", "Projet DYNOTEP" ...

RECHERCHER

[Accéder directement à la recherche avancée](#)







# Re-search Alps The French ScanR



Ex: biotechnologies, "open government", "Institut Pascal", "UMR 7534", "Projet DYNOTEP" ...

RECHERCHER

BETA

Filtrer par :

TYPE D'ENTITÉ >

TUTELLES >

THÉMATIQUES >

GÉOGRAPHIE >

PROJETS >

CARACTÉRISTIQUES >



Exporter

de 1 à 20 sur 837 résultats - Page 1 sur 42

VUE LIS

## Vascular Research Center of Marseille (VRCM)

Label numéro : U 1076

Numéro national de structure : 201220160R

Localisation : Marseille 5e (13)

Tutelles : Aix-Marseille université (Amu)  
Institut national de la santé et de la recherche médicale (Inserm)

Recherche trouvée dans :  
Domaine d'activité : public health : aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacology  
Contenu du site web : Accueil 201220160R : VRCM Vascular Research Center of Marseille Unité de recherche (situation 2017) Responsable(s)  
Label : Vascular Research Center of Marseille  
Publication : 55th Annual Meeting and Exposition of the American-Society-of-Hematology - New Orleans, LA 2013

Effacer la sélection

Chercher



176



123



98



77



72



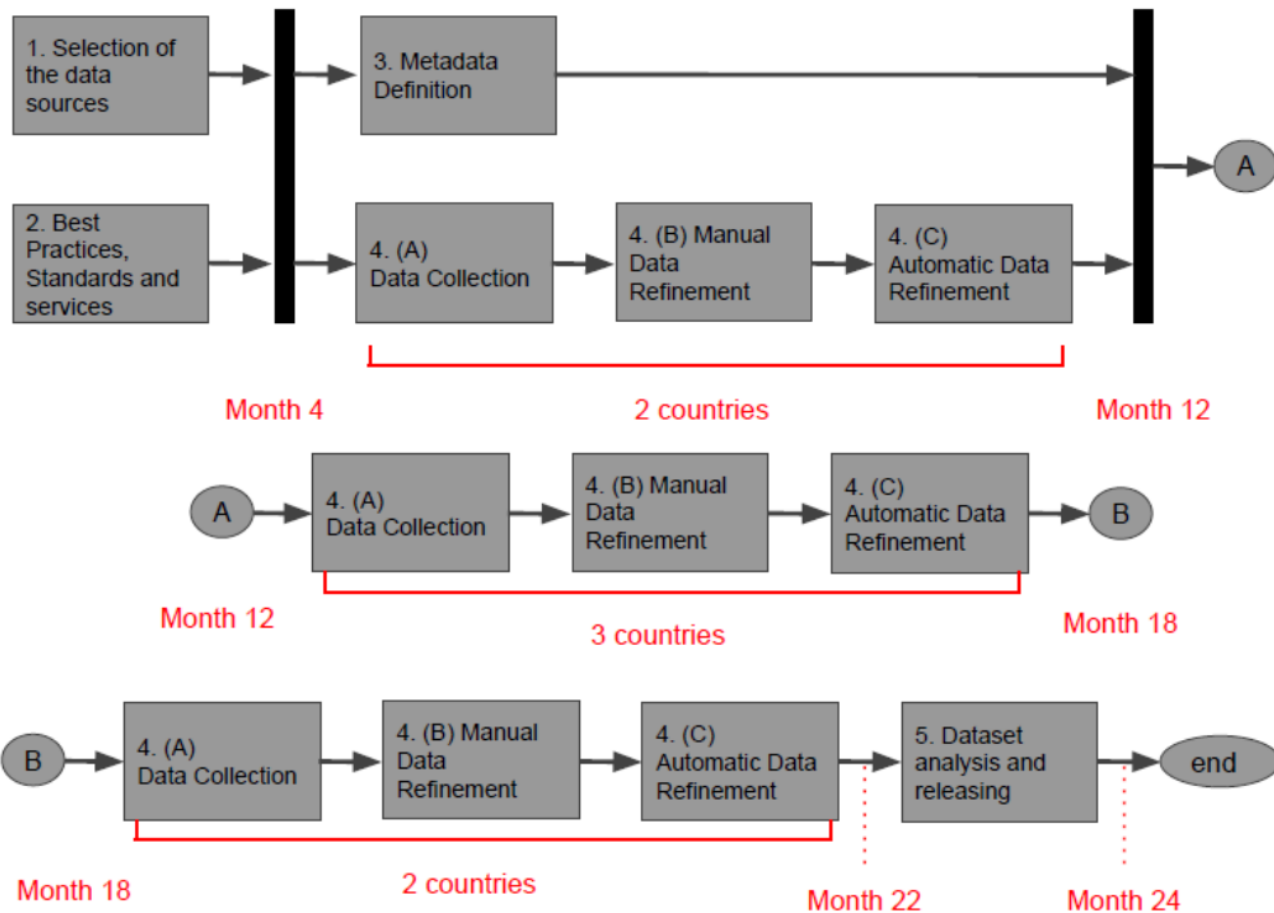
70

APPLIQUER



Re-search Alps

## Project phases





Re-search Alps **Consortium**

**2 Academic organizations (IT):** UniMORE and UNIMI

**1 SME (FR):** Data Publica C-Radar

**2 Ministries for research:** MENSUR (FR) and MIUR (IT) - *data provider*  
supported by:

**EUSALP Action Group 1** - **other PAs** participating in EUSALP will be involved in the project directly as providers of data and user requirements

**AGIRE Foundation**, Switzerland

**FTI Burgenland**, Austria

**Ministry of Education Science and Sport**, Slovenia

**Elsevier**, The Netherlands - *data provider* (Scopus)










Re-search Alps

## Eusalp National and regional authorities role

Re-Search Alps **needs the support of EUSALP members and authorities** that:

- indicate already existing solid / certified data collections
- provide a list of research centers, existing and active in their areas, and facilitate the communication with them
- become testers and then users of the developed tools
- participate in project meetings
- help in the dissemination and communication process

The University of Milan is managing the communication  
**between Re-Search Alps Consortium and EUSALP members**

| Country       | Search   | Available data  | Use   |
|---------------|--|---|---|
| Austria       | - subject to payment   | - subject to payment  |                                   |
| France        | <i>normal search:</i> by name / by SIREN - SIRET code<br><i>• additional search:</i> by address / municipality name or postal code | <ul style="list-style-type: none"> <li>• Company name, address</li> <li>• SIREN/SIRET code</li> <li>• Legal organization form of the company</li> <li>• Business activities by NAF code</li> <li>• Total number of employees</li> </ul> | Open data<br>                    |
| Germany       | <i>normal search:</i> by name / by legal form.<br><i>advanced search:</i> by federal state   | company address; financial statements   |                                  |
| Italy         | • by name; by NACE code  | company address; legal form; business activities  |                                  |
| Liechtenstein | • by name; by legal form   | company address   |                                  |
| Slovenia      | <i>normal search:</i> by name<br><i>advanced search:</i> legal form; NACE code; location   | company address; contacts; VAT number   |                                  |
| Switzerland   | <i>normal search:</i> by name, by IDI<br><i>advanced search:</i> by canton, municipality, place; by legal form                     | company address; VAT number   | Further investigation needs<br> |



Re-search Alps

## Existing data collections: a review

Business registry **cannot be used for identifying private labs**

A review of the existing data collections performed

- + Websites
- + Datasets in various format

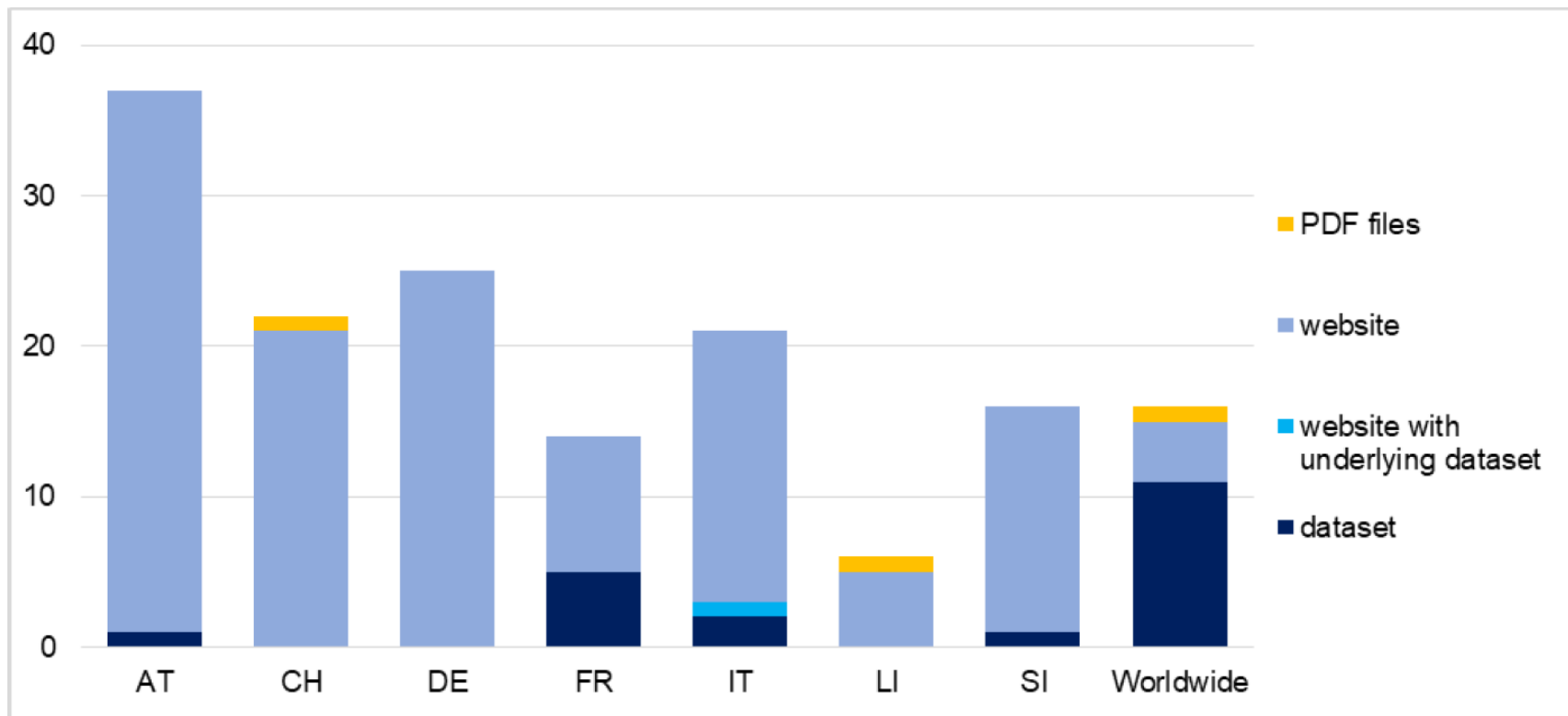
**157 candidate datasets found**





Re-search Alps

## Existing data collections: a review





Re-search Alps

## Existing data collections: a review

Typically not structured (i.e. machine readable)  
high quality data.

**We need help from the local authorities!**



Re-search Alps

**Re-Search Alps goals meet Eusalp goals**

Two key objectives established by **EUSALP** (especially AG1)

- + to **know and map** Laboratories and Research Centers all across the Alpine Macroregion
- + to **carry out comparative analysis** while **developing useful tools for users** (enterprises, public administrations, universities, service centers, among others)



Re-search Alps

**Re-Search Alps goals meet Eusalp goals**

**Re-Search Alps** can support the achievement of EUSALP objectives with a dataset of Laboratories and Research Centers insisting in the Alpine Region :

- + a query engine for an easy access to the dataset
- + a tool for visualizing geo-referenced data



Re-search Alps

**How to contribute now!**

**We need national/regional datasets and list of websites** describing labs and their research activities

Please fill in the form available at

<http://bit.ly/RAproject>

**Or contact**

[emanuela.zilio@unimi.it](mailto:emanuela.zilio@unimi.it)

[francesco.guerra@unimore.it](mailto:francesco.guerra@unimore.it)



Re-search Alps

**Thanks for your attention!**

web: [researchalps.eu](http://researchalps.eu)

twitter: [@re\\_alps](https://twitter.com/re_alps)

Further information:

[emanuela.zilio@unimi.it](mailto:emanuela.zilio@unimi.it)

[Francesco.guerra@unimore.it](mailto:Francesco.guerra@unimore.it)



**UNIMORE**  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA

**CAPP** Centre for the  
Analysis of Public Policies

# **MORE-Alps**

A research & teaching project  
on

Regional Development Policies within the EUSALP Strategy

**Margherita Russo**

Francesco Pagliacci, Paola Bertolini, Enrico Giovannetti, Simone Scagliarini

Dipartimento di Economia Marco Biagi, Università di Modena e Reggio Emilia

CAPP – Centro di Analisi delle Politiche Pubbliche [www.capp.unimore.it](http://www.capp.unimore.it)

**EUSALP Annual Forum | Munich, November 24<sup>th</sup> 2017**

## Goal: research & teaching on AG1's focus

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**research activities** involving students  
on issues regarding AG1's focus

→ “**potentials, synergies and challenges to be addressed  
in order to develop  
an effective innovation ecosystem in the Alpine Region**”

**teaching** (multidisciplinary, multilevel, multidepartment) with

- Master thesis for students in the Master course in *Languages for Communication in International Enterprises and Organizations* [at least two EU languages]
- Empirical application for students in “Analysis of territorial systems”, in the Master course in *Economics and Public Policy*

a **cooperation proposal for universities in the Eusalp area**  
at present, there are **no extra funds for such activities**,  
but an Erasmus+ proposal may be presented



## AG1 & MORE-Alps: key issues

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### Key issues tackled by MORE-Alps

- Identification of the key strategic sectors for cooperation in supporting Research & Innovation (R&I)
- Mapping of existing clusters, competence centres related to the economic regional landscape
- Matching value chains and capabilities related to key areas of competence with regard to smart specialisation strategies

# MORE-Alps: strategy of the research & teaching programme 1/2

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## 1\_Analysis of original documents [in original languages]

in order **to provide a comprehensive framework**

a. of the many **institutional settings** within the Eusalp area

→ *forms of state and administrative functions*

b. of the **vision of each region/country members**

with regard to the AG1's issues

→ *2014-20 Operational programme, Partnership agreement, RIS3 documents*

c. of the **ongoing collaborations within the Interreg framework**

→ *list of projects: regions involved, themes, resources, results*

## 2\_Analysis of economic data

- Eurostat and national statistics  
*[demography and economic activities]*
- Atlas of Economic Complexity  
*[product space from international trade]*
- European competitiveness index  
*[innovation, competition] (missing data for Switzerland)*

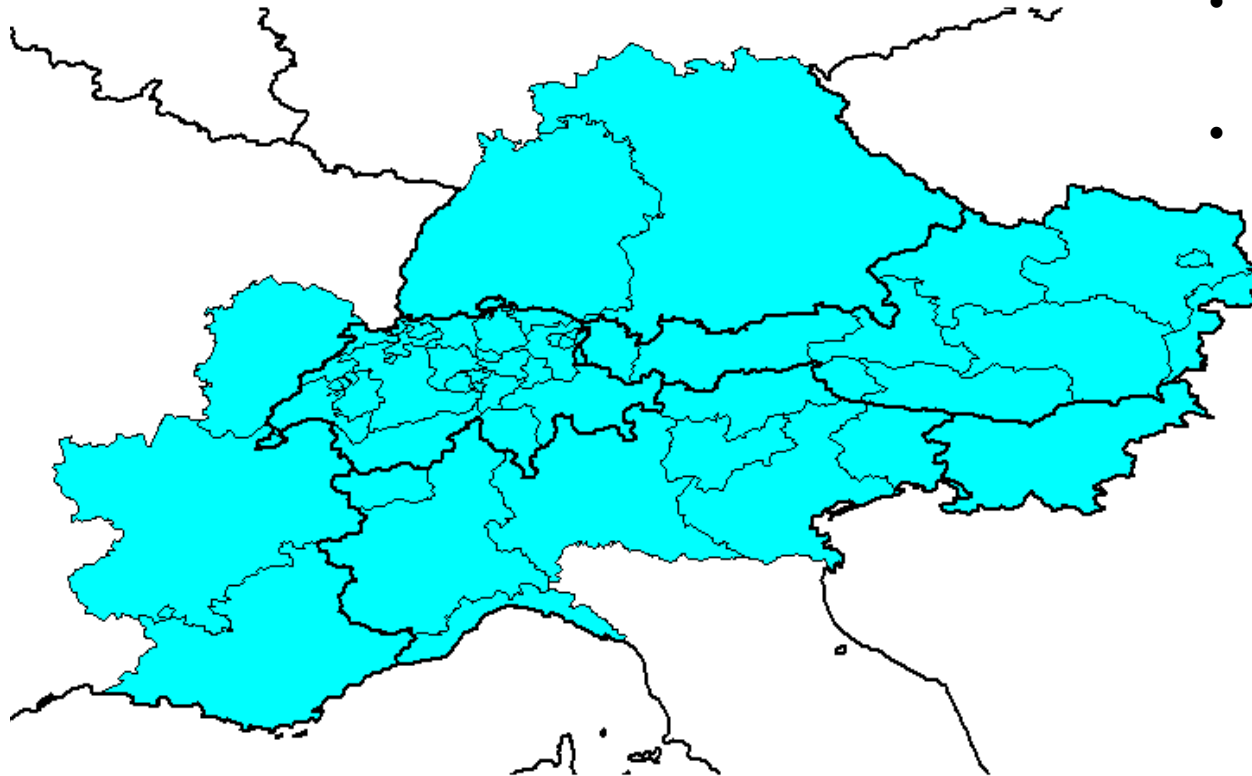
in order **to frame a comparative perspective**  
**of socio-economic conditions**

→ **from the national perspective to the multiregional focus**

# EUSALP Strategy – territorial structure

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## The area covered by the EUSALP Strategy



At the administrative level, the Strategy is implemented at:

- **Country level**  
(Liechtenstein and Slovenia)
- **Regional level** (48 regions).
  - **NUTS 1 level:**  
**Germany** (Länder)
  - **NUTS 2 level:**  
**France** (Régions),  
**Italy** (Regioni and Province Autonome),  
**Austria** (Länder)
  - **NUTS 3 level:**  
**Switzerland** (Cantons)

Given the administrative structures involved

**Q1. Are the *policy tasks* comparable across the NUTS levels?**

On the basis of thematic objectives addressed by the OPs

**Q2. Which are the *policy measures* implemented at regional/country level that could be more effective in enhancing the innovation ecosystem potential in the Alpine Region?**

On the basis of the comparative analysis of the RIS3

**Q3. Which is the common set of S3 that could support the innovation ecosystem in the Alpine Region?**

Given the product space [Atlas of Economic Complexity]

**Q4. What is the core of complexity in the Alpine Region and what is the corresponding feasibility space?**

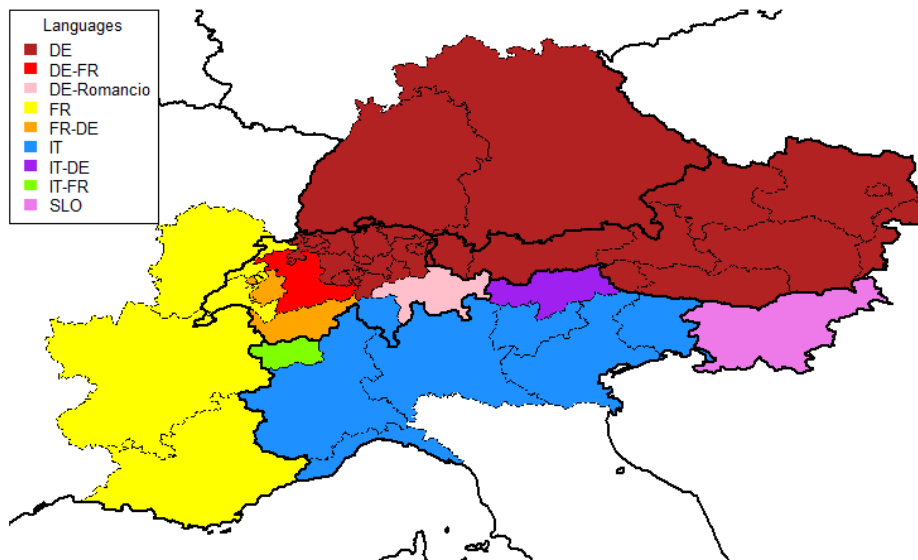
On the basis of past and ongoing Interreg projects

**Q5. Which are the topics and the practices implemented in the Alpine Region?**

## MORE-Alps Project – language

The analysis of regional/national policy documents is carried on in several different languages.

Official languages of the regions covered by EUSALP:



| Language  | Number of territorial units |
|-----------|-----------------------------|
| German    | 31                          |
| French    | 9                           |
| Italian   | 9                           |
| Slovenian | 1                           |
| Total     | 50                          |

**English language:** for any communication within the research group as well as for the report production and dissertation thesis

## MORE-Alps Project – research products [in English]

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### Master thesis on

[December 2017]

- Baden-Württemberg
- Bayern (I)
- Rhône-Alpes

[February 2018]

- Austria
- Bayern (II)
- PACA
- Val d'Aosta
- EUSALP:  
interrg & product space

### Reports on

[January 2018]

- Franche-Comté
- Legal and politic guidelines  
for the research policy in  
Baden-Württemberg  
*(translation of the summary  
prepared by S.Hockling)*

### DEMB Working paper on

Comparative analysis of constitution laws in the EUSALP countries  
by Prof. Simone Scagliarini [March 2018]

### International workshop to be held in Modena [Spring 2018]

to present the results of the first phase of MORE-Alps  
and

to discuss issues in a comparative perspective on the macroregional strategies within the  
EU policy (next programming period)



## MORE-Alps Project – next steps

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### Another cohort of students

- other regions [Italy, Switzerland, Slovenia]
- other thematic objectives for the regions already examined
- An overview on RIS3
- comparative analysis on policy measures  
[calls, background activities, beneficiaries, impact, ...]

### Field work/on site interviews

On site interviews and analysis will be possible according the availability of funds

### Future collaboration

- with the EUSALP Strategy, and in particular with **Sub groups 4** in AG1
- with other EU institutions (JRC, Eurostat, ESPON, ...)
- with other universities from the countries involved in the strategy

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**Thank you for your attention!**

**Questions?**

For information, please contact

Prof. Margherita Russo [margherita.russo@unimore.it](mailto:margherita.russo@unimore.it)

Dr. Francesco Pagliacci [francesco.pagliacci@unimore.it](mailto:francesco.pagliacci@unimore.it)



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# ALP-GOV

*Technical Assistance and Consultancy Service for strategic analysis and design activities under the ALP-GOV Project.*

**Guido Piccoli**

Action Group 1 - [ag1leader.euprograms.staff@alpine-region.eu](mailto:ag1leader.euprograms.staff@alpine-region.eu)



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The project is co-financed by the European Regional Development Fund.

## EUSALP & ALPGOV: MISSION and OBJECTIVE

### EUSALP ACTION GROUP 1

**MISSION:** the development of an effective innovation ecosystem in the Alpine Region

#### SPECIFIC OBJECTIVES

- Identification of the key strategic sectors where cooperation in R&I can impact either in economic or societal terms
- Mapping of existing clusters, competence centres related to the economic and academic landscape in the Region
- Mapping and matching of specific value chains and capabilities related to key areas of competence related to national/regional smart specialisation strategies
- Working towards joint pilots with industry participation in areas of smart specialisation to demonstrate opportunities for scaling up innovations for co-creating joint value chains
- Further coordinating efforts between the Alpine countries and JRC activities
- Enhanced capacity building of research institutions, networks and infrastructure with an Alpine Region dimension
- Taking into consideration existing international research / innovation coordination activities of EUSALP

### ALP GOV

**MISSION:** supporting a joint approach for the implementation of EUSALP strategy

#### SPECIFIC OBJECTIVES

- Support the operation of EUSALP Action Group;
- Harmonize and share content and knowledge of common interest;
- Monitor processes and results (through the "Platform of Knowledge"), map and analyze the current situation at a macro-regional level with regard to institutional frameworks, actors in the territories and funding available for projects and actions;
- Support governance in a macroregional perspective;
- Analyze the state of the art and capitalize on existing heritage and assets and good practices;
- Identifying and promoting high leverage projects and actions.

**AG1 FOCUS: Research and Innovation**

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## MAIN ACTIVITIES

1. Data collection, comparative analysis, mapping and graphical/infographic representation of the framework of funding instruments, available in the field of Research and Innovation in EUSALP area;
2. Identification of funding programmes and actions useful to implement the objectives of the Action Group 1;
3. Identification, facilitation and support in the regional, national and international strategic relations within the framework of EUSALP Action Group 1 activities;
4. Support to the identification, promotion and development of project ideas in strategic areas for the Action Group 1 objectives

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### OUTPUTS

- I. Database with synthetic fiche (integrated within the Platform of Knowledge) of all financial instrument for R&I available at EU, National, regional level + infographic
- II. Calendar with synthetic fiche of available open call of all financial instrument of the database
- III. Database with list of key actors in the field of R&I in EUSALP with descriptive and graphical representation of strategic relations and input in Knowledge of Platform.
- IV. Support to the definition of 5 project proposals compliant with AG1 objectives to be structured according to the Logical Framework approach with preliminary needs and individual context analysis, and to structuring of the project idea through definition of overall and specific objectives, expected results, actions and activities, target groups, outputs, deliverables

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## FINANCIAL INSTRUMENT FOR R&I DATABASE

➤ Each funding tool/ programme will contain following items with reference to 2014-2020 Programming period:

- Programme Name and web link
- Level (EU, national, regional)\*
- Eligible areas (NUTS 1,2,3)
- Managing authority
- Short objectives description
- Eligible thematic in line with ERC\*
- Eligible thematic in line with and S3\*
- Actions typologies\*
- Total available budget
- Beneficiaries and type of eligible institutions\*
- Programme contribution (%)
- Min and Max project budget
- Min and Max project duration
- Link to funded projects under each Program
- Link to events organized by each Program

\* Field has been standardized for search and filter by a web search engine; other fields are descriptive

### PROGRESS and DELIVERIES

- “*State of the art*” of funding instruments at EU level; graphical representation – 30.06.2017
- Report on funding instrument at national level (7 countries); graphical representation – 30.12.2017
- Report on funding instruments at regional level (48 regions); graphical representation – 30.06.2018
- Report on regional, national and European funding instruments; comparative analysis of the instruments and GAP analysis – 30.12.18

➤ Data will also allow a final comparative analysis and GAP analysis among the EUSALP regions.

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mountains and plains addressing together  
common challenges and opportunities



## OPEN CALL CALENDER

- For each funding instrument/programme analyzed in activity 1, open/opening call for proposals will be identifies, with particular attention to programmes that promote mixed partnerships based on triple/quadruple helix;
- Detailed report, containing following information:
  - Title/general and specific objectives for identified call for proposal;
  - Matching Action Group 1 objectives and call for proposal objectives;
  - Expected results and their indicators;
  - Actions/activities listed within terms of reference;
  - Target group and beneficiaries
  - Budget

### PROGRESS and DELIVERIES

- 30.06.17 – agenda of open calls at EU level financial instruments
- 30.07.17 - 30.11.17 agenda monthly update
- 30.12.17 – agenda of open calls at national level financial instruments + EU level update
- 30.01.18 – 30.05.18 agenda monthly update
- 30.06.18 - agenda of open calls at regional level financial instruments + EU and National level update

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## ACTIVATION OF STRATEGIC RELATIONSHIP

➤ Development of the database of the stakeholders / key actors of R&I in EUSALP to exchange information with them and to identify possible synergies

- Definition of the list of stakeholders / key actors:
- For each stakeholders / key actors will be developed a short descriptive card
  - ✓ Name – country – region
  - ✓ Type of institution (public body – industry – research)
  - ✓ Type of interesting action to be developed
  - ✓ Main field of interest
  - ✓ Nr of Researcher
  - ✓ Main project / research programme developed
  - ✓ Main R&I partners
  - ✓ Main regional and local Financial Instrument used
  - ✓ Main contacts

### PROGRESS and DELIVERIES

- First lists of R&I stakeholders -key actors 30.06.17
- Report and graphical representation of strategic relations activated in the field of Research and Innovation –  
31.12.2017;  
30.06.2018;  
31.12.2018;  
30.06.2019

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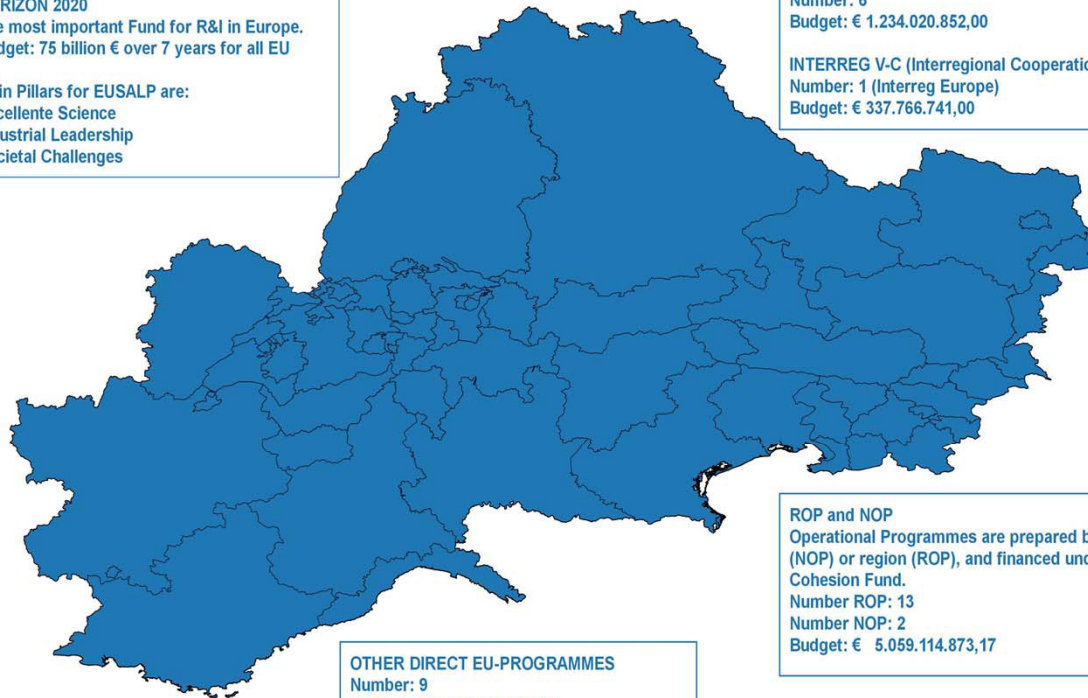


## EUSALP & ALPGOV

Population: 80 million  
7 Nations  
48 Regions

**HORIZON 2020**  
The most important Fund for R&I in Europe.  
Badget: 75 billion € over 7 years for all EU

Main Pillars for EUSALP are:  
Excellente Science  
Industrial Leadership  
Societal Challenges



**INTERREG Programme**  
It is funded by ERDF for the cooperation between european regions.  
Number: 23  
Budget: € 2.686.532.460,00

**INTERREG V-A (CB-Cooperation)**  
Number: 16  
Budget: € 1.456.270.352,00

**INTERREG V-B (Transnational Cooperation)**  
Number: 6  
Budget: € 1.234.020.852,00

**INTERREG V-C (Interregional Cooperation)**  
Number: 1 (Interreg Europe)  
Budget: € 337.766.741,00

**ROP and NOP**  
Operational Programmes are prepared by each Member State (NOP) or region (ROP), and financed under ERDF or the Cohesion Fund.  
Number ROP: 13  
Number NOP: 2  
Budget: € 5.059.114.873,17

**OTHER DIRECT EU-PROGRAMMES**  
Number: 9  
Badget: € 24.844.871.274,00  
Type of Fund: Grants and Loans

## FIRST RESULTS: ACTIVITY 1 - FINANCIAL INSTRUMENT AT EU-LEVEL

Currently we have mapped 48 programmes at EU-Level that concerning R&I in wide meaning. Depending on the characteristics of the funds, they were clustered in four categories

## 1. HORIZON 2020

H2020 offers a series of funds, setting in three main pillars:

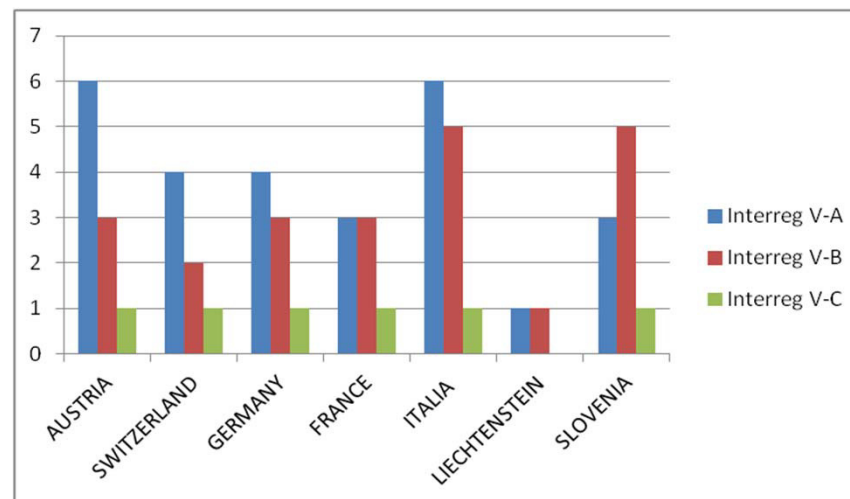
- I. Excellent Science* has the aim to extend the excellence of the Union's science base and to consolidate the European Research Area in order to make the Union's research and innovation system more competitive on a global scale.
- II. Industrial Leadership*, increasing Europe's industrial leadership through research, technological development, demonstration and innovation and help innovative European SMEs to grow into world-leading companies.
- III. Societal Challenges*, a challenge-based approach will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities, for this analysis we mapped each challenge defined in this pillar.
  - Health, demographic change and wellbeing;
  - Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;
  - Secure, clean and efficient energy;
  - Smart, green and integrated transport;
  - Climate action, environment, resource efficiency and raw materials;
  - Europe in a changing world - inclusive, innovative and reflective societies;
  - Europe in a changing world - inclusive, innovative and reflective societies;
  - Secure societies - protecting freedom and security of Europe and its citizens

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## 2. INTERREG PER EACH EUSALP MS

| Interreg for each EUSALP M | Total | Interreg V-A | Interreg V-B | Interreg V-C |
|----------------------------|-------|--------------|--------------|--------------|
| AUSTRIA                    | 10    | 6            | 3            | 1            |
| SWITZERLAND                | 7     | 4            | 2            | 1            |
| GERMANY                    | 8     | 4            | 3            | 1            |
| FRANCE                     | 7     | 3            | 3            | 1            |
| ITALIA                     | 11    | 6            | 5            | 1            |
| LIECHTENSTEIN              | 2     | 1            | 1            |              |
| SLOVENIA                   | 8     | 3            | 5            | 1            |



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The project is co-financed by the European Regional Development Fund.

## 2a. INTERREG V-A

| Name   | Total Program Budget |
|--|----------------------|
| INTERREG V-A France - Germany - Switzerland (Rhin supérieur-Oberrhein) | € 103.122.668,00     |
| INTERREG V-A France - Italy (ALCOTRA)                                  | € 186.943.708,00     |
| INTERREG V-A France-Switzerland*                                       | *€ 61.937.075,00     |
| INTERREG V-A Austria - Hungary   | € 74.117.008,00      |
| INTERREG V-A Austria - Germany / Bavaria (Bayern - Österreich)         | € 51.209.381,00      |
| INTERREG V-A ABH - Alpenrhein - Bodensee - Hochrhein                   | € 36.817.240,00      |
| INTERREG V-A - Austria - Czech Republic                                | € 91.946.038,00      |
| INTERREG V-A Austria - Slovakia  | € 71.339.121,00      |
| INTERREG V-A Germany / Bavaria - Czech Republic                        | € 97.172.640,00      |
| INTERREG V-A Italy - Slovenia  | € 73.254.157,00      |
| INTERREG V-A Italia - Austria  | € 77.304.535,00      |
| INTERREG V-A Italy - Croatia   | € 189.275.787,00     |
| INTERREG V-A Italy - France (Maritime)                                 | € 159.520.267,00     |
| INTERREG V-A Italy - Switzerland                                       | € 94.208.179,00      |
| INTERREG V-A Slovenia - Austria  | € 44.988.355,00      |
| INTERREG V-A Slovenia - Croazia  | € 43.114.193,00      |

**Total Interreg V-A Budget in  
 EUSALP Region  
 € 1.456.270.352,00**

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Development Fund.

## 2b. INTERREG V-B

| Name                          | Total Program Budget |
|-------------------------------|----------------------|
| INTERREG VB North West Europe | € 372.366.282,00     |
| INTERREG VB Danube            | € 208.298.873,00     |
| INTERREG VB Central Europe    | € 231.786.426,00     |
| INTERREG VB Alpine Space      | € 109.637.339,00     |
| INTERREG VB Adriatic - Ionian | € 92.648.553,00      |
| INTERREG VB Mediterranean     | € 219.283.379,00     |

**Total Interreg V-B Budget in  
 EUSALP Region  
 € 1.234.020.852,00**

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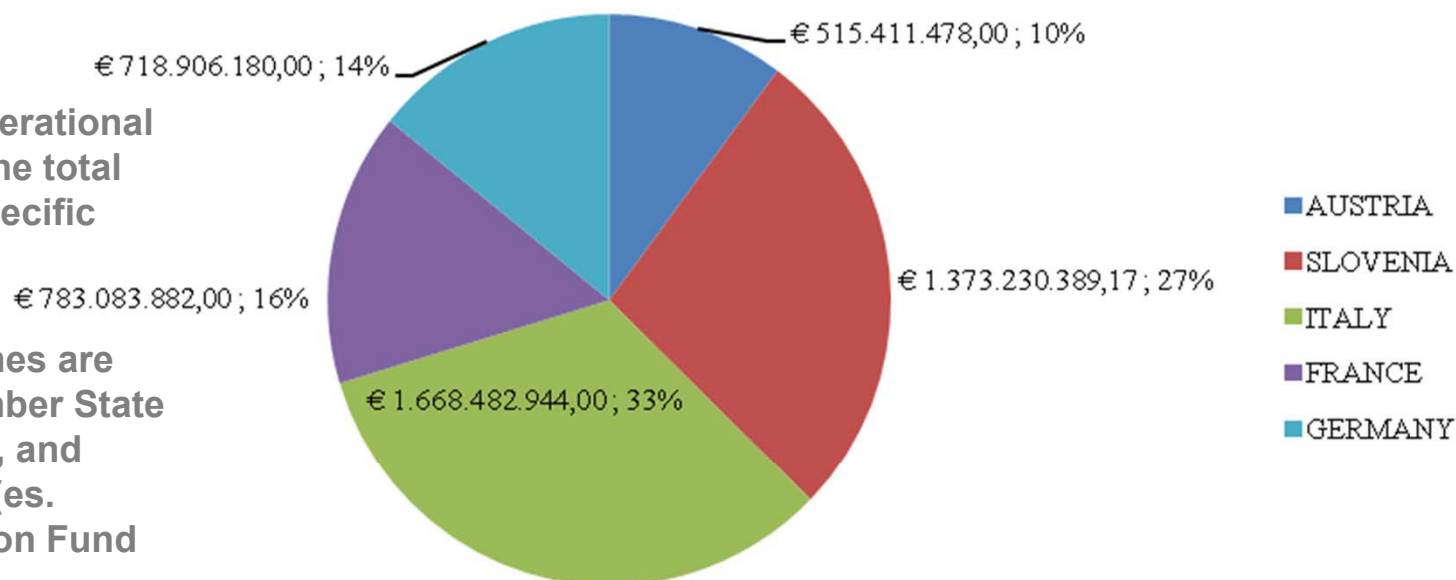
### 3. NATIONAL/REGIONAL – OPERATIONAL PROGRAMMES

The Operational Programmes aim to reduce regional disparities.

The budget of each operational programme refers to the total amount and not the specific area of R&I.

Operational Programmes are prepared by each Member State (NOP) or region (ROP), and financed under ERDF (es. Austria) or the Cohesion Fund (es. Slovenia).

**PON/POR Budget for each EUSALP Country  
(€ and %) (No Fund for Switzerland and Liechtenstein)**



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## 4. OTHER DIRECT EU-PROGRAM

| Name  | TOTAL PROGRAM BUDGET |
|---|----------------------|
| <b>3rd HEALTH PROGRAM</b>   | € 449.394.000,00     |
| <b>LIFE PROGRAM</b>   | € 3.456.655.000,00   |
| <b>EIB - EUROPEAN INVESTMENT BANK</b>                                   | n.a*                 |
| <b>ENI-CBC MED</b>  | € 188.152.030,80     |
| <b>COSME</b>  | € 2.298.243.000,00   |
| <b>CEF - TELECOM</b>  | € 1.141.602.000 ,00  |
| <b>ISA<sup>2</sup></b>  | € 130.928.000,00     |
| <b>Development Cooperation Instrument - DCI II</b>                      | € 19.661.639.000,00  |
| <b>Partnership Instrument for cooperation with third countries - PI</b> | € 954.765.000,00     |
| <b>Total Other EU-Programs</b>  | € 28.281.378.030,00  |

\* It's not reported a specific amount, but we highlight that Audit Committee Annual Report (2016) defines as at the end of 2016 outstanding debt securities in issuance held by the EIB's investors amounted to EUR 485 bn, while disbursed loans amounted to EUR 471 bn. It is a multiannual cumulated data referred at the end of 2016, but it is important to define the size of potential loans in EUSALP region.

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The project is co-financed by the European Regional Development Fund.



## The First Project Idea: The Challenge

- Alpine Region is one of the most innovative places in Europe, but it is affected by limited joint research on topics of specific Alpine importance and limited common vision and effort to transfer the main results of R&I into strategies and policies at the transnational level.
- The project will address the opportunity to set up a common Alpine Regional framework within which an agreement on several R&I topics can be promoted as a basis for a joint Alpine Region S3 strategy.
- Therefore Interreg Alpine Space, Programme priority Priority 4 - Well-Governed Alpine Space, Programme priority specific objective SO4.1 - Increase the application of multilevel and transnational governance in the Alpine Space
- Therefore

### **A-RING “Alpine Research and INnovation Capacity Governance”**

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## The First Project Idea: «A-RING» EOI AS

- The Alpine Research and Innovation Capacity Governance (A-RING) project proposes an innovative **bottom-up process to align R&I strategies and objectives among AR PAs**, gathering expectations of business communities and innovation potential from universities and research centres.
- A-RING's results will ensure:
  - improved transnational multilevel governance by the definition of **roadmap for a common S3 strategy** to promote a sustainable development in AS
  - improved dialogue of PAs with academic and business communities to **define a R&I agenda** involving all the research and innovation “chain” in AS area
  - more targeted research and innovation activities to better meet the socio-economic development needs of Alpine Region (AR), **increased institutional capacity building of PAs to define more effective R&I policies**.
- The harmonization of policies will be supported by the setup of a **permanent multi-stakeholder Alpine R&I Capacity think tank**.

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## A-RING Partnership

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1. University of Milan (LEAD PARTNER) - IT
2. Slovenian Ministry of education, science and sport - SI
3. University of Ljubljana - SI
4. Steinbeis Technology Transfer Ltd - AT
5. Éupolis Lombardia - Institute for research, statistics and training - IT
6. Union of the Chambers of Commerce, Industry, Agriculture and Crafts of Lombardy - IT
7. University of Lugano - CH
8. National Union of Mountain Municipalities, Communities and Authorities – Piedmont Delegation - IT
9. University of Kempten - DE

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The project is co-financed by the European Regional Development Fund.

## Project Specific Objectives

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A-RING outputs will be aimed:

- To increase the skills of PAs responsible for regional and national research and innovation policies
- To ensure a shared awareness on the R&I strategic positioning of alpine territories enhancing the stakeholder participation
- To anticipate and fast-track any necessary regulation in AR promoting a joint S3 focused on the alpine sustainable development

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The project is co-financed by the European Regional Development Fund.

## Project Main Activities

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### **WPT1 Sharing Knowledge :**

- T1.1: Collection of data, collection of best practices related to regional implementation of S3 strategy – capitalization of the existing Best practices
- T1.2: Training actions (training material, courses, study visit, etc.):
  - 1) how to write the policies;
  - 2) how to communicate with RC and Company;
  - 3) How to create local and regional political engagement and commitment for Smart Specialisation Strategy development and implementation with transnational activities

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The project is co-financed by the European Regional Development Fund.

## Project Main Activities

### WPT2 R&I Ecosystem

- T.2.1: Virtual Open science LAB: integration of existing platforms at regional level (R&I stakeholders), link to PoK ALPGOV and other JRC tools to promote the partnership on research and innovation – mapping of business angels - Definition of transnational communities defined by topic
- T.2.2: Think Tank: representatives of universities research centres, business sector and PA – selection of Scientific Committee to validate roadmap and Research topics agenda

### WPT3 R&I Pattern

- T.3.1: Definition of a Roadmap through the involvement of the S3 platform stakeholders to build a fast track for AR S3;
- T.3.2: Research Agenda: selection of topics to include in the AR S3
- T.3.3: MoU to collect the commitment of the relevant stakeholder to define an AR S3

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**EUSALP** EU STRATEGY FOR THE ALPINE REGION

[www.alpine-region.eu](http://www.alpine-region.eu)

*Grazie !*

**ALP-GOV**

<http://www.alpine-space.eu/projects/alpgov/en/home>

**Interreg**  
Alpine Space



AlpGov

**AlpGov**

Implementing Alpine Governance Mechanisms of the EU Strategy for the Alpine Region

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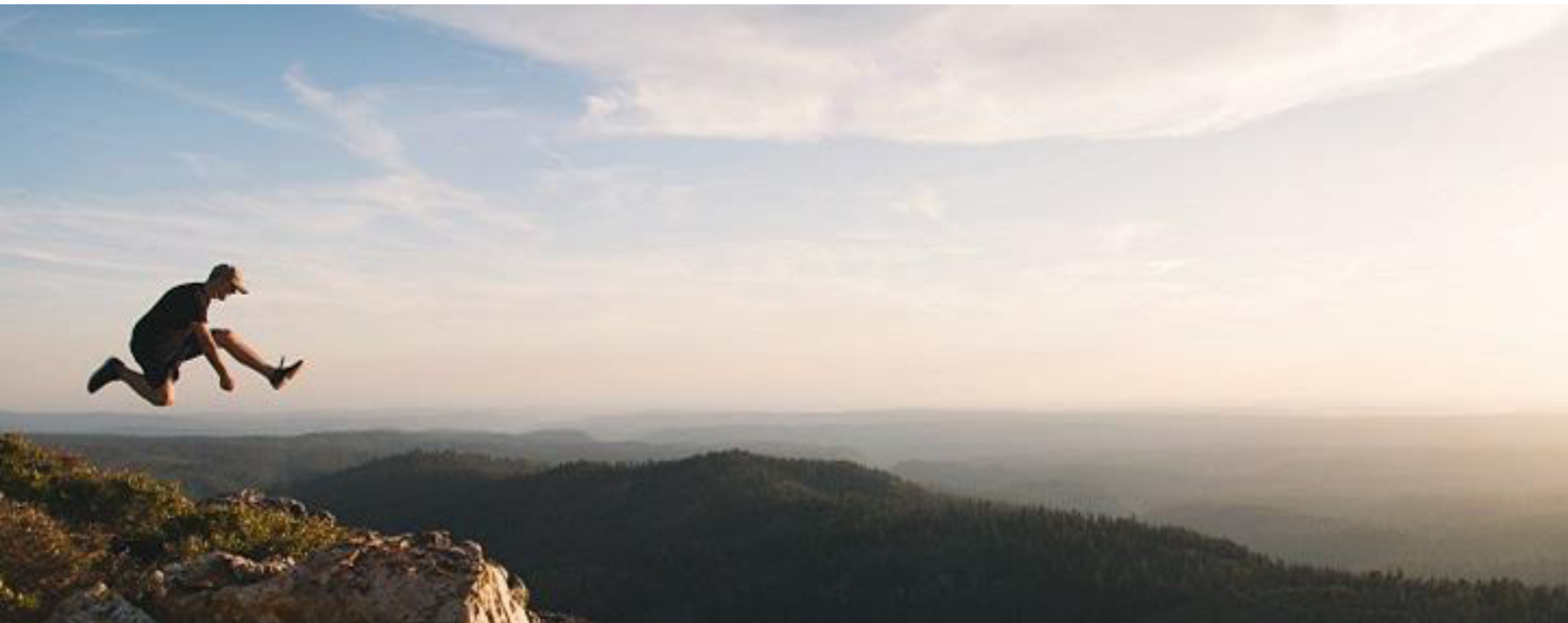


**Interreg**  
Alpine Space  
AlpGov

The project is co-financed by the European Regional Development Fund.



# ***“Alpine Space: the leading hub for scaling up business”***





# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ AGENDA



- Introduction
- Background
- About the Project
- Who we are
- Get in touch with us

# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ Introduction

### SCALE(up) ALPS Accelerate and promote the Alpine Start-up Ecosystem

- The Alpine Space includes **top innovative areas** in Europe with great potential to grow an innovative entrepreneurship. Local and regional **innovation ecosystems** successfully support the creation of **new business**.
- **Scale(up)Alps** aims to lead the way for making the **Alpine Space (AS)** as an **innovative hub** on the international level. The project focuses on one of the most critical phases of the enterprise lifecycle: the **scaling up phase**.

# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ Background

### Interreg Alpine Space Programme

- The Alpine Space programme is a European transnational cooperation programme for the Alpine region
- Financing: European Regional Development Fund (ERDF); public and private cofinancing from partner countries



#### INNOVATIVE

Services of general  
interest  
Knowledge transfer  
Eco-innovation  
Smart businesses



#### LOW CARBON

Mobility  
Transport  
Energy-efficiency  
Modal shift



#### LIVEABLE

Biodiversity  
Ecosystem services  
Cultural & natural  
heritage  
Natural risk  
management



#### WELL-GOVERNED

Participation  
Governance  
Voices  
Multilevel  
Policy instruments

SCALE (up) ALPS is co-financed by the European Regional Development Fund  
through the Interreg Alpine Space programme

# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ About the Project (1/2)

The project's main activities will be:

- **Connecting** Alpine Space ecosystem policies and communities of practice
- **Selecting** policies that expand the quantity and the quality of AS serial entrepreneurs and fast-growing scalable ventures;
- **Producing** a mid-level feasibility plan with high level recommendations on start-up ecosystems' growth and reducing fragmentation and therefore increasing collaboration across disciplines & stakeholders;
- **Designing & testing** innovative public-private support schemes, matching corporate and capital, attracting talent, opening up market access and improving innovation within the entrepreneurial life cycle

# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ About the Project (2/2)

1<sup>st</sup> November 2016

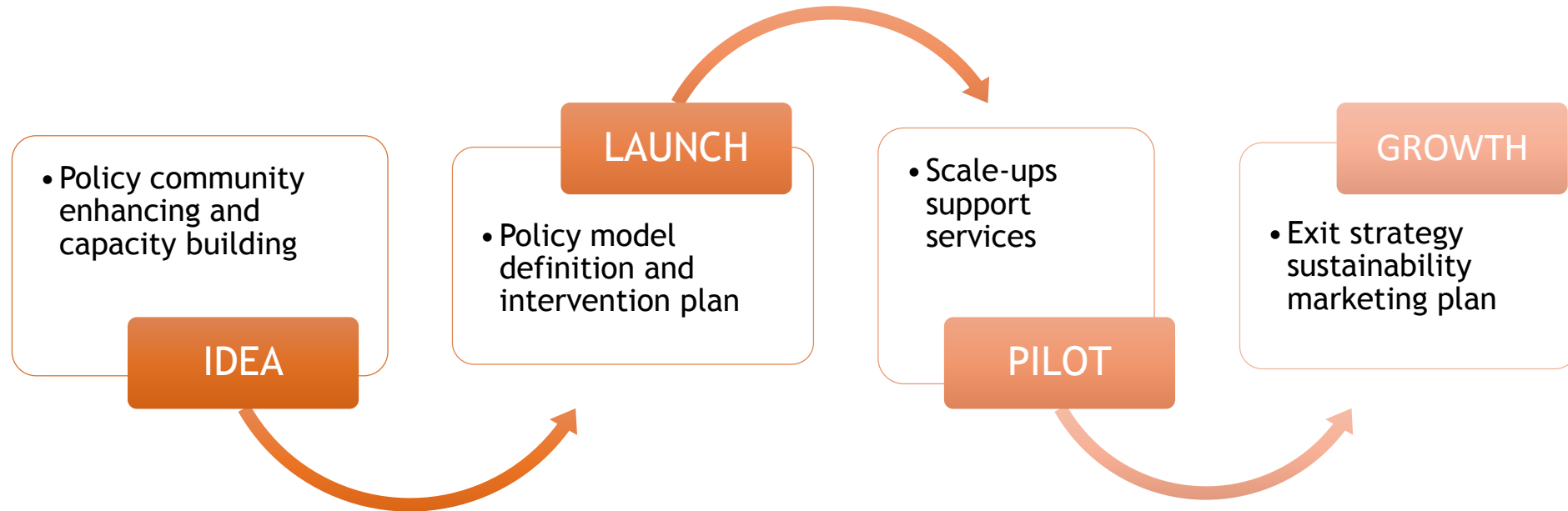


€ 1.793.944,55  
( ERDF 1.424.602,12)

30<sup>th</sup> April 2019

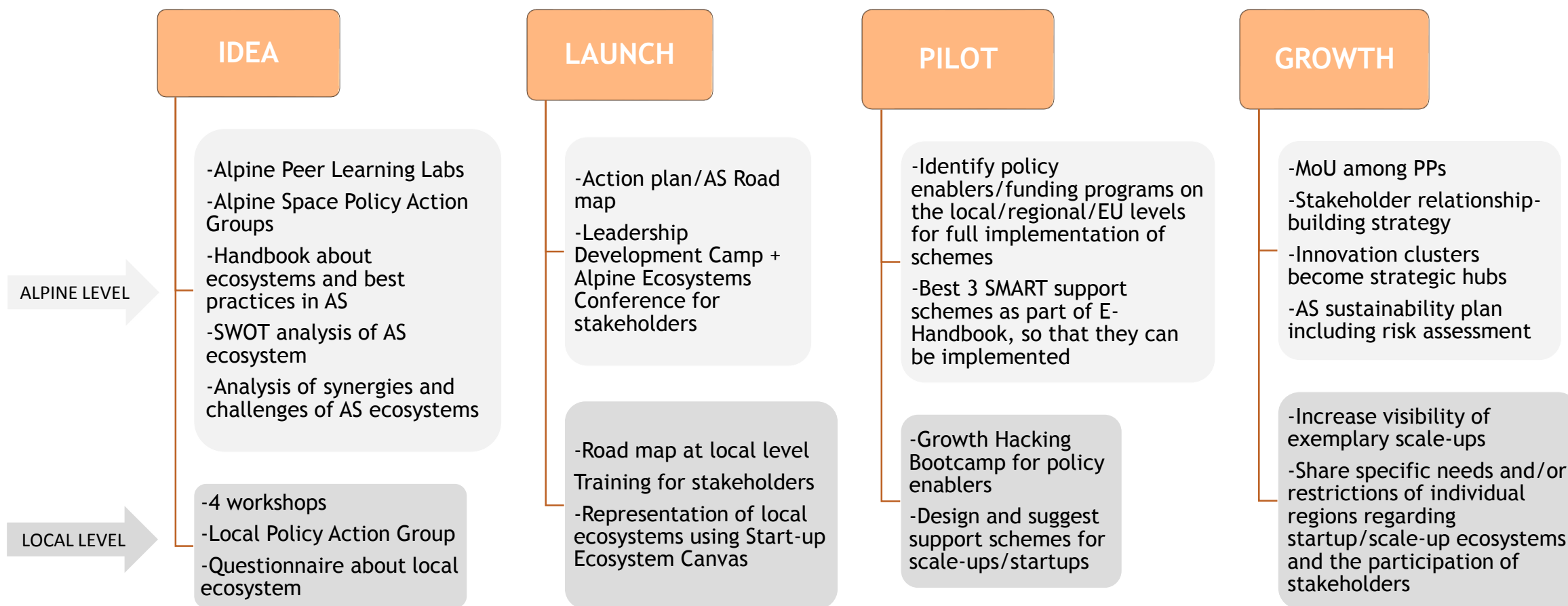
# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ The Process (1/2)



# *“Alpine Space: the leading hub for scaling up business”*

## ⇒ The Process (2/2)



# ***“Alpine Space: the leading hub for scaling up business”***

## **⇒ WHO WE ARE (1/2)**

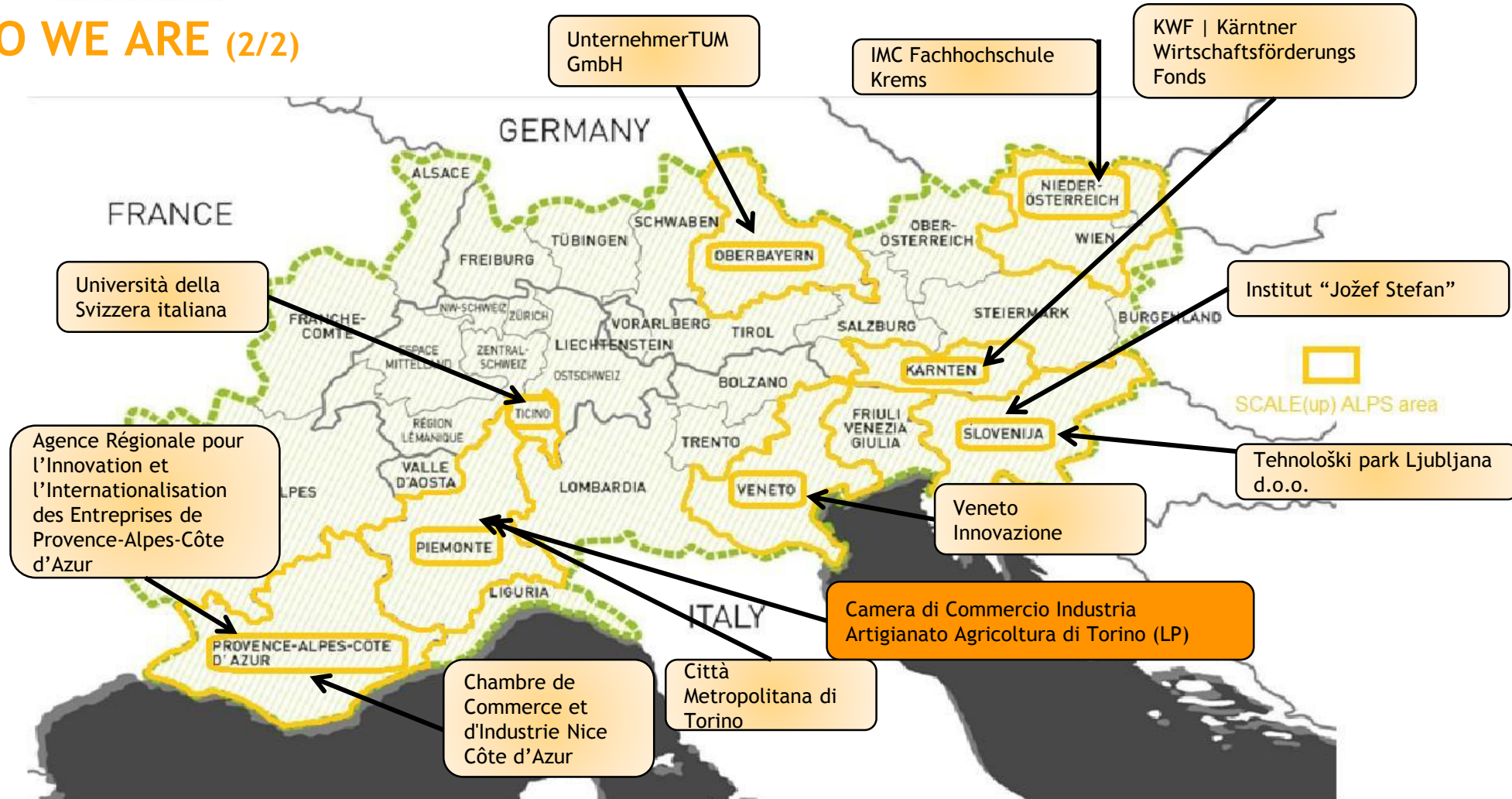
### **PARTNERS:**

1. **Torino Chamber of commerce (coordinator), Torino, Italy**
2. **Metropolitan City of Turin, Torino, Italy**
3. **Veneto Innovazione, Venezia, Italy**
4. **Institut "Jozef Stefan", Ljubljana, Slovenia**
5. **Tehnoloski park Ljubljana d.o.o., Ljubljana, Slovenia**
6. **UnternehmerTUR GmbH, Garching, Germany**
7. **Università della Svizzera italiana, Lugano, Switzerland**
8. **KWF Karntner Wirtschaftsförderungs Fonds, Kòagenfurt am Worthersee, Austria**
9. **IMC University of Applied Sciences Krems, Krems, Austria**
10. **French Riviera Chamber of Commerce and Industry, Nice Cedex 1, France**
11. **Regional Agency for Innovation and Internationalisation of companies in Provence-Alpes\_Cote d'Azur Region, Marseille, France**



# “Alpine Space: the leading hub for scaling up business”

## ⇒ WHO WE ARE (2/2)



# *“Alpine Space: the leading hub for scaling up business”*

⇒ GET IN TOUCH WITH US



[www.alpine-space.eu/projects/scale-up-alps/en/home](http://www.alpine-space.eu/projects/scale-up-alps/en/home)



[scalealps@to.camcom.it](mailto:scalealps@to.camcom.it)



[@ScaleupAlps](https://www.facebook.com/ScaleupAlps)



[@ScaleupAlps](https://twitter.com/ScaleupAlps)



# AlpSenseBench: Alpine remote sensing of climate-induced natural hazards (Benchmark Project)

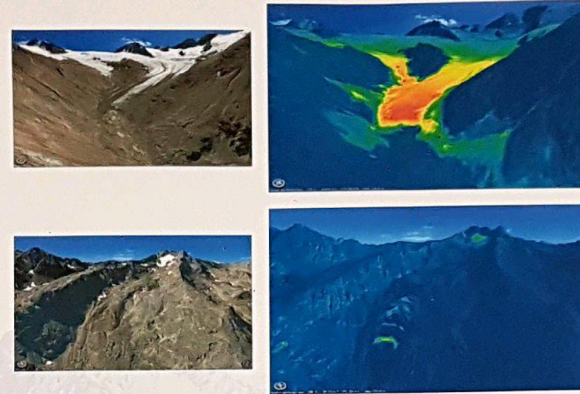
Prof. Dr. Michael Krautblatter: Technische Universität München: Ingenieurakultät Bau Geo Umwelt, Fachgebiet Hangbewegungen  
Dr. Christoph Mayer: Bayerische Akademie der Wissenschaften/Kommission für Erdmessung und Glaziologie  
Dr. Ulrich Münzer: Ludwig-Maximilians-Universität München Department für Geo- und Umweltwissenschaften, Sektion Geologie  
Prof. Dr. Florian Siegert: 3D RealityMaps GmbH, Baierbrunn

## Alpine Hazards in the EUSALP Space

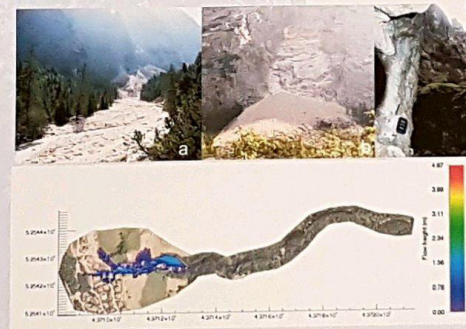
- **Key function:** global water, energy, and traffic infrastructure as well as tourism
- **Population:** 12% of the global population live in mountain areas
- **Water supply:** 50 % mountain regions contribute relevantly to foreland water supply
- **Tourism:** Alps 4% of the global tourism
- **Infrastructure:** Valleys, Tunnels and Passes vulnerable non-redundant infrastructure
- **Landslides:** 32,322 fatalities in 2620 (non-seismic) landslides 2004-2011 (Petley 2012)
- **Debris flows:** 77,779 casualties in 213 debris flows 1950 to 2011 (Dowling and Santi, 2014)
- **European Alps:** 4000 fatalities and 46 billion € direct losses in 150 events 1951-2009
- **PlanAlp:** 100 billion € Alpine Nat. haz. protection structure in the Alps
- **major reinforcements (billions) in Alpine safety in the near future!**



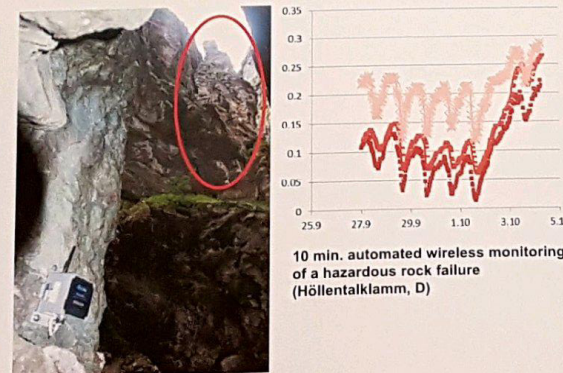
## AlpSense: WP 1: Identification of Hazard Hotspots



## AlpSense: WP 2: Process dynamics in hazard hotspots



## AlpSense: WP 3: Near Real Time Monitoring of High Risk Objects



## AlpSense: Study Sites

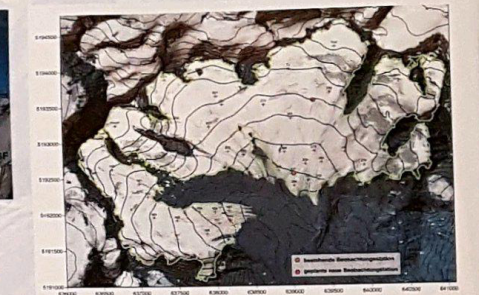


Zugsplitze/Wettersteing. (D/A): Benchmark Site for rapid hazardous permafrost vs. Infrastructure

Hazards:  
Ice-filled dolines (D) - Temporal lakes above permafrost (F)  
Creeping ice filled permafrost bodies (E) - Frozen rockfall prone rock masses (P)  
High-magnitude rock slope failure (G)



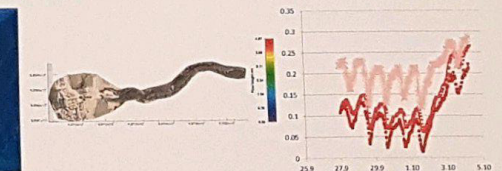
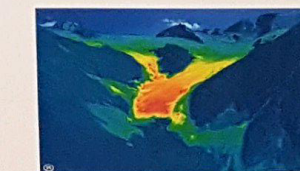
Kitzsteinhorn/Hohe Tauern (A): Benchmark Site for rapid hazardous permafrost and glacier change vs. Infrastructure



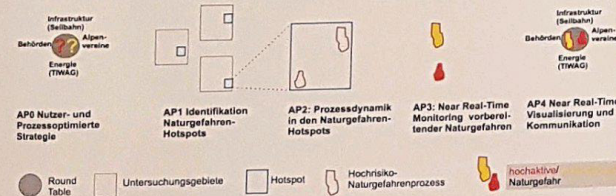
Ötz/Schnalstal (A/I): Benchmark Site for rapid hazardous glacier change vs. Infrastructure

## AlpSense: Role in EUSALP

1. Coordinating international expertise: across EUSALP borders (D, A, CH, I, F, Slo)
2. Fostering international networks: by establishing/confirming networks
3. Preparing a European Project on Alpine Safety
4. Preparing Sustainable Risk Governance: for Alpine Hazards



## AlpSense: Monitoring, Anticipation & Communication



Alpine Hazards: Monitoring, Anticipation & Communication  
AP 0: Stakeholder and user-defined strategy: from the beginning  
AP 1: Identification of Hazard Hotspots: High resolution remote sensing satellites, airplanes, UAVs – visible and infrared spectrum  
AP 2: Process dynamics in hazard hotspots: Subsurface reconnaissance and modelling > identifying most risky objects (MRO)  
AP 3: Near Real Time Monitoring of MROs: Anticipative process models  
AP 4: Near Real-Time Visualisation and communication: with stakeholders





## Priority 2: Low Carbon Alpine Space



Annual Forum of the EU Alpine Strategy (EUSALP)  
Munich, Germany / 24. November 2017



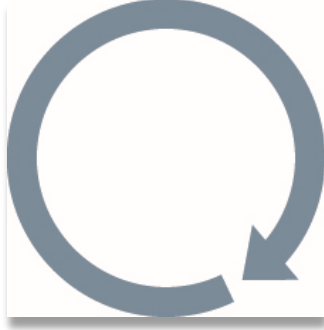
**Introducing circular economy system to Alpine Space to achieve low-carbon targets**



GreenCycle, Maribor municipality - LP (Slovenia), Klemen Risto Bizjak

# PROJECT OBJECTIVES

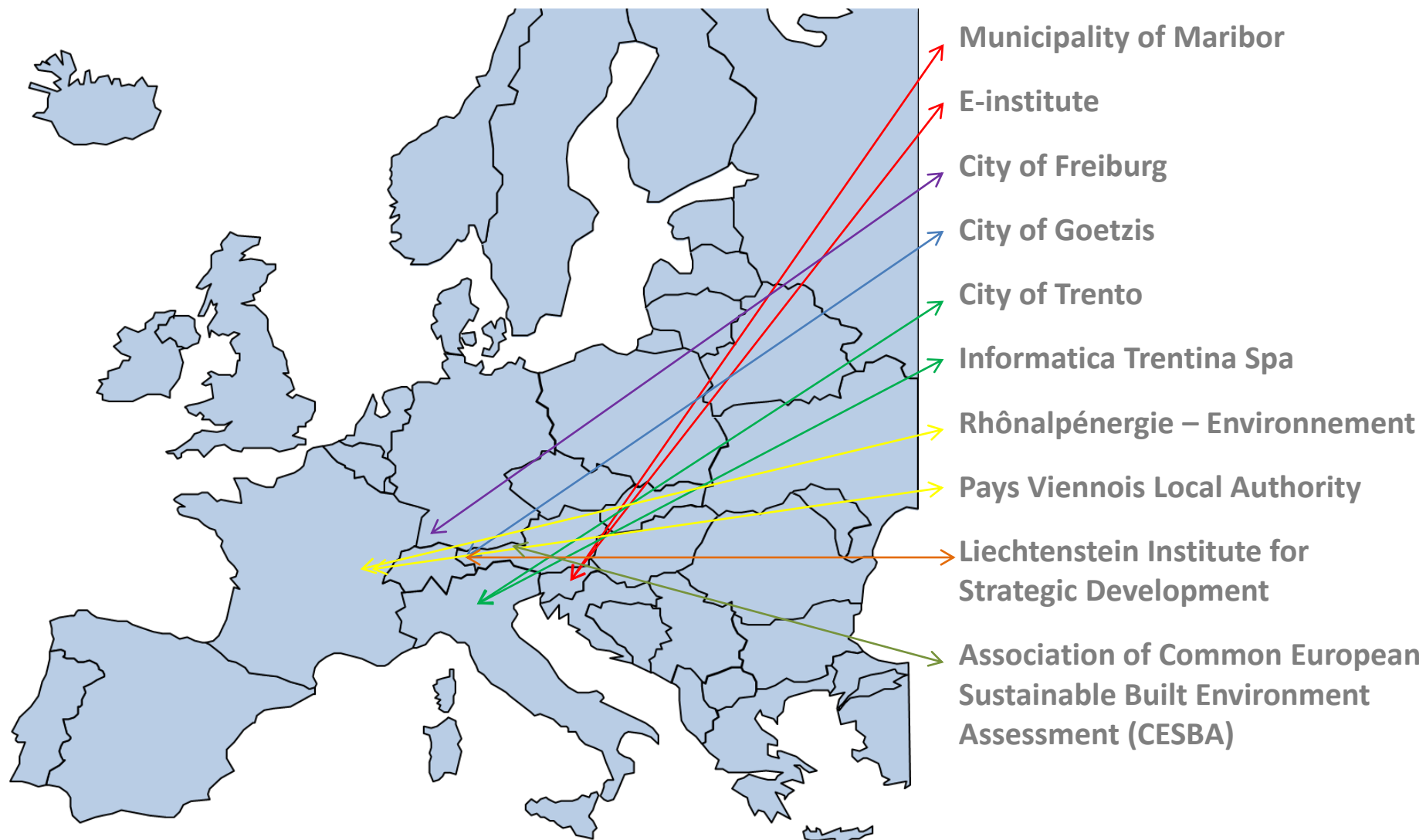
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To achieve low-carbon objectives of the participating cities and AS through introduction of the holistic system of circular economy into urban management.

“making the Alps a circular economy hotspot”

# PROJECT PARTNERS



# PROJECT BACKGROUND

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- Cities are big producers of waste, users of energy, consumers of material as well as good base for creation of green jobs;
- Environmental & Economy related strategies are in place, but cross-sectoral approach to circular economy is missing;
- CE supporting tools for cities are missing, as well as good real-case practice examples;
- Critical mass of specific materials is not easy to achieve in single city – transnational approach might change this;

# MAIN OUTPUTS

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**URBAN CE STRATEGIES**

**PILOT MODELS**

**CE TOOLBOX**

**MARKET PLACE AND  
KNOWLEDGE PLATFORM**



# MAIN OUTPUTS

## URBAN CE STRATEGIES

Project will provide implementation strategies and establish cross-sectoral cooperation and governance

## PILOT MODELS

Testing of toolbox by pilot project implementation in all partner cities.

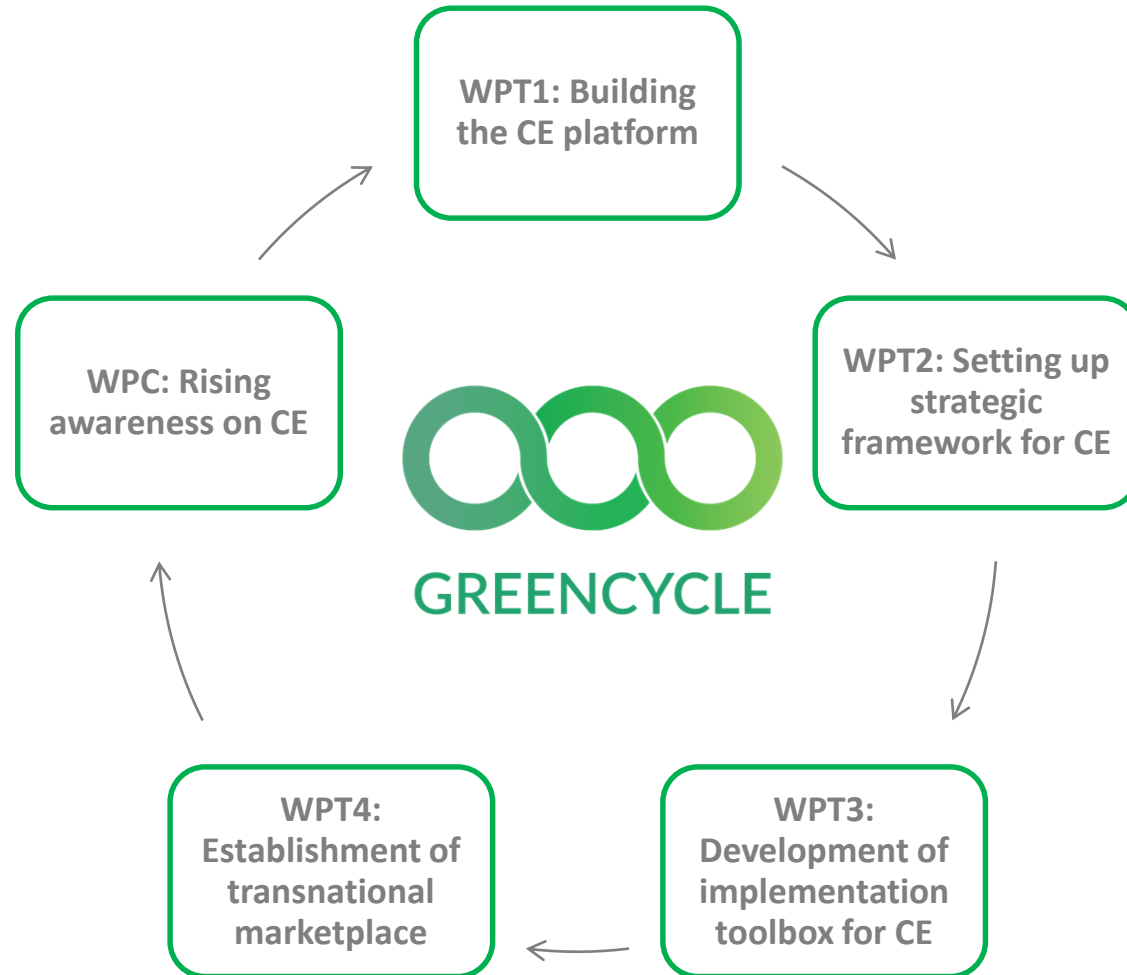
## CE TOOLBOX

Development of toolbox for the implementation of CE strategies (planning and monitoring e-tool, expert database)

## MARKET PLACE AND KNOWLEDGE PLATFORM

A transnational AS marketplace for CE outputs & cooperation platform for local and regional governments of AS presenting governance systems, best practices etc.

# APPROACH



# CONTACT

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Municipality of Maribor, GreenCycle



<http://www.alpine-space.eu/projects/greencycle/en/home>



[klemenristo.bizjak@maribor.si](mailto:klemenristo.bizjak@maribor.si)



+386 (0) 22201160



# *Links4Soils project*

Linking Alpine Soil Knowledge for Sustainable  
Ecosystem Management and Capacity Building

Dorothea Palenberg  
blue! advancing european projects  
Dr Borut Vrščaj  
Agricultural Institute of Slovenia

Caring for Soils – Where Our Roots Grow.

# *Air, water and soil*

## *- three key environmental media*

- **Our environment** is defined by properties and availability of **three key media: air, water, and soil**
- Air and water are relatively ‘simple’:
  - air and water can relatively rapidly (ex)change
  - clean-up can be much faster
- Soil? – not that simple → difficulties we constantly face due to:
  - Very slow soil genesis (young soils: n x 10k years) → soil is a non-renewable (civilisation)
  - Soil, a perfect trap for contaminants
  - Soil is a property

# *Soil is ....*

- Complex to manage
- Cross-sectoral
- Not easy to communicate

# *Soil is a complex media*

- Again, in relation to air and water – the soil features extremely wide number of parameters that can be measured
- Simple and ‘simple’ chemical, physical, biotical parameters
- The combination of soil parameters → soil properties → variable soil suitability, capacities → that need different management...
- The complexity of soils ranges in a wide extent



# *Soil is a cross-sectoral topic*

- **Agriculture** (food quantity & quality, energy crops, sustainability of agricultural production ....)
- **Forestry** (biomass/fibre/wood production forest ecosystem management...)
- **Water management** (water retention, filtration, quality, flood prevention & mitigation, ...)
- **Planning** – infrastructure development (soil bearing capacity, physics, waterlogging, ponding, mass stability...)
- **Natural disaster prevention** (land sliding, severe erosion...)
- **Nature conservation** (above ground and soil biodiversity, *gene pool* → *used in e.g. human medicine*)
- **Archaeology, paleontology** (from Vikings, Romans to Mammoths and Trilobites..)
- **Military** (e.g. land trafficability...)
  - .... + several others
- **Climate change mitigation** (CO<sub>2</sub> sink ↔ soil C budget, ...)

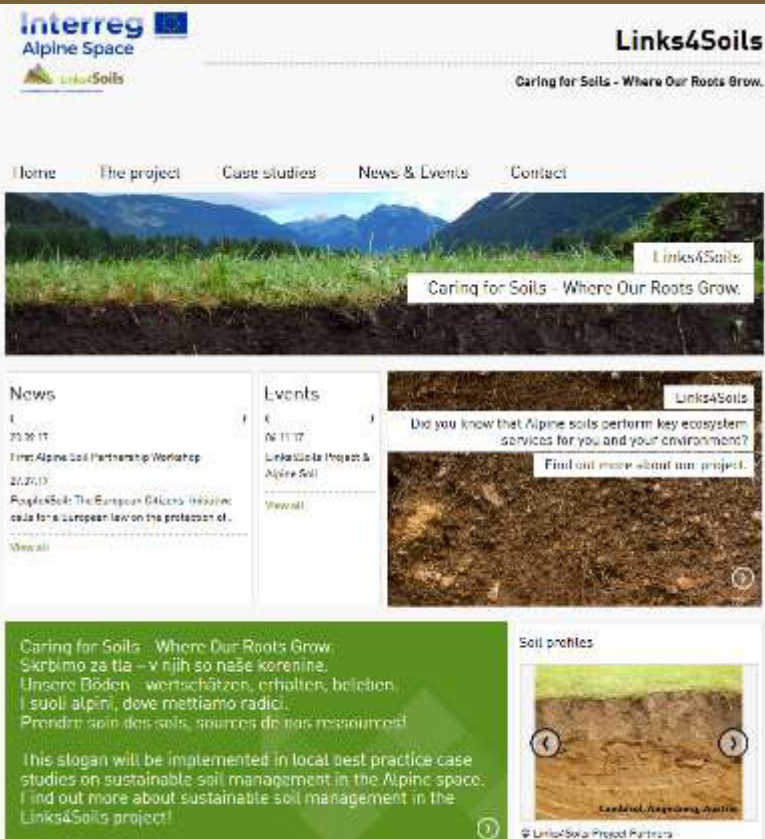
→ **Soil information needs**



# *Resume*

- There is **no sustainable development, nature protection, climate mitigation, ... without a sustainable management of soils**
- Alps, a specific region, where countries can benefit on cross border collaboration in soil protection and sustainable soil management
- Soil data & soil information needed: available, focused, applicable, and understandable...

→ **Alpine Convention Soil Conservation Protocol**



## Caring for Soils – Where Our Roots Grow

# *The Links4Soils project*

# *The Links4Soil project*

Aims to contribute to the sustainable management and protection of soils and soil ecosystem services in Alps

Main goals:

- To review, develop and share **good soil management practices**
- To **link users and soil experts in a community** (Alpine Soil Partnership) committed to sustainable soil management
- To **support cross-border cooperation on soil protection and management** in Alps
- To **initiate comparable cross-border soil information**
- To **raise awareness on soils ...**

# Partners

## 10 Links4Soils partners

*Caring for Soils – Where Our Roots Grow.*

Kmetijski inštitut Slovenije

[www.kis.si](http://www.kis.si)

([http://www.kis.si/en/Project\\_collection/Links4Soils](http://www.kis.si/en/Project_collection/Links4Soils))

Regione autonoma Valle d'Aosta

[www.regione.vda.it](http://www.regione.vda.it)

([http://www.regione.vda.it/territorio/Progetti\\_europei\\_e\\_transfrontalieri/progetti\\_europei/progetti\\_2014\\_2020.aspx](http://www.regione.vda.it/territorio/Progetti_europei_e_transfrontalieri/progetti_europei/progetti_2014_2020.aspx))

LAND-PLAN Büro für landschaftsökologische Gutachten und Planung

[www.land-plan.de](http://www.land-plan.de)

(<http://www.land-plan.de/link4soils.html>)

Klimabündnis Tirol

[tirol.klimabuendnis.at](http://tirol.klimabuendnis.at)

(<http://tirol.klimabuendnis.at/aktuelles/neues-boden-projekt>)

Universität Innsbruck - Institut für Geographie

[www.uibk.ac.at/geographie](https://www.uibk.ac.at/geographie)

(<https://www.uibk.ac.at/geographie/bola/projekte/links4soils.html>)

Markt Kaufering

[www.kaufering.de](http://www.kaufering.de)

(<http://www.kaufering.de/?language=DE&kat=rathausleitbildzukunft>)

Institut national de recherche en sciences et technologies pour l'environnement et l'agriculture, Grenoble

[m.irstea.fr](http://m.irstea.fr)

(<http://m.irstea.fr/institut/nos-centres/grenoble/emgr/pier-protection-ingenierie-ecologique-restauration/prise-en>)

Amt der Tiroler Landesregierung

[www.tirol.gv.at](https://www.tirol.gv.at)

(<https://www.tirol.gv.at/landwirtschaft-forstwirtschaft/agrar/boden-und-pflanzen/alpine-space-projekt>)

Zavod za gozdove Slovenije

[www.zgs.si](http://www.zgs.si)

([http://www.zgs.si/slo/zavod/mednarodni\\_projekti/projekt\\_links4soils/index.html](http://www.zgs.si/slo/zavod/mednarodni_projekti/projekt_links4soils/index.html))

Università degli Studi di Torino - Dipartimento di Scienze Agrarie, Forestali e Alimentari

[www.disafa.unito.it](http://www.disafa.unito.it)

([http://www.disafa.unito.it/do/progetti.pl/Show?\\_id=71jz](http://www.disafa.unito.it/do/progetti.pl/Show?_id=71jz))





# *What makes us special?*

- 2 transnational outputs: Information Platform & Alpine Soil Partnership
- Good cross-sectoral case studies
- Intense cooperation between municipalities, authorities & research

## *Links4Soils project activities, Wp's*

- M – Project Management *(AIS, blue! advancing European projects)*
- T1 – Alpine Soil Partnership *(Office of the Tyrolean Provincial Government)*
- T2 – Strengthening Alpine Soil Management Information Sources *(Agricultural Institute of Slovenia)*
- T3 – Sustainable soil and ecosystem service management implementation in case studies *(Autonomous Region of Aosta Valley)*
- T4 – Capacity Building and Knowledge Transfer *(LAND-PLAN Bureau for Landscape Ecology)*
- C – Communication *(Climate Alliance Tyrol)*

*Two key project results:*

*1 the Alpine Soil Partnership  
&  
2 the Alpine Soil Platform*

**Borut Vrščaj & Thomas Peham**

Caring for Soils – Where Our Roots Grow.

Global Soil Partnership  
European Soil Partnership

1

# ***THE ALPINE SOIL PARTNERSHIP***



# Global Soil Partnership (GSP)



A global, FAO-lead initiative / programme towards better protection and sustainable management of world's soil resource.





# *Global Soil Partnership*

- World regions: African, North, South, American, ... Asian, Australian and ...



# European Soil Partnership (ESP)



Interreg  
Alpine Space



## A regional partnership initiative European and Eurasian



**Food and Agriculture Organization  
of the United Nations**

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### Global Soil Partnership

[Home](#) | [Overview](#) | [Regional partnerships](#) | [Intergovernmental Technical Panel](#) | [Pillars of action](#) | [World Soil Day](#) | [Resources](#)

[Africa](#)

[Asia](#)

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[Europe](#)

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[Near East and North Africa](#)

[North America](#)

### European Soil Partnership



The aim of the **European Soil Partnership** is to bring together the various scattered networks and soil related activities into a common framework, open to all institutions and stakeholders willing to actively contribute to sustainable soil management in Europe.

In October 2013, taking the opportunity of the **second Global Soil Week**, the Global Soil Partnership (GSP) secretariat convened a workshop to **launch** the establishment of the European Soil Partnership. The **Berlin communiqué** consolidated the European Soil Partnership (ESP), whose Secretariat is hosted by the European Commission DG JRC in Ispra, Italy. The sub-regional Eurasian Soil Partnership is established within the European Soil Partnership and its Secretariat is based in Moscow, Russian Federation.

#### Status of the World's Soil Resources

 Chapter 11: Regional Assessment of Soil Changes in Europe and Eurasia

#### European Implementation plan

 The Regional implementation plan (RIP) defines the outcomes, actors, partners, time frame, potential resources



# *Global & European Soil Partnership - Vision*



The mandate of the GSP is to:

- improve governance of the limited soil resources of the planet in order to
  - assure healthy and productive soils for a food-secure world and
  - support the capacities to provide soil ecosystem services and functions
- all in accordance with the sovereign right of each State over its natural resources.
- The GSP should become an interactive and responsive partnership (FAO, 2017).

# Global / European Soil Partnership



- 5 pillars of action

## The 5 pillars of action



Soil management



Awareness raising



Research



Information and data



Harmonization

# *The Alpine Soil Partnership (ASP)*

- The Alpine Soil Partnership: a voluntary community committed to sustainable soil management and protection in Alps – a ‘bottom-up’ approach
- Alps: to a large extent specific area (mountain soils, vulnerable, increased threats, diverse mountain soil management practices; local adaptations, ‘fine-tuning’...)
- ASP follows the GSP/ESP activities in relation to sectoral needs  
(agriculture, planning, forestry, nat. disaster prevention, climate change adaptation & mitigation, ...)

# *The ASP mandate and activities*

- To cooperate on soil protection (national and intl. level) in Alps
- To practice and promote sustainable soil management and protection (in cont. 'SMP')
- To develop and exchange best SMP practices
- To give political support to widely introduce SMP practices on national and int.. level
- To support and act towards a better implementation of the [Soil Conservation Protocol](#) of the Alpine Convention
- To raise awareness on importance of soils in Alps
- ...

# *Alpine Soil Partnership Members*

- Authorities
  - Local and regional governments
  - Municipalities
  - National/regional agencies (e.g. environment protection, sectoral agencies, national data centres, etc.)
- Soil & soil-related Experts
  - National soil science societies and
  - Soil research institutions, universities
  - Individual soil experts
  - (Soil) consultancies and companies (e.g. soil remediation, planning...)
- NGOs
- Individuals
- ... other



2


‘The Platform’:

an information node / hub for Alpine soil information, knowledge exchange and cooperation

## ***THE ALPINE SOIL INFORMATION AND DECISION SUPPORT PLATFORM***

# Main functionalities of the Alpine Soil Platform

- Information on soils, soil ecosystems services, and soil functions



The screenshot displays the homepage of the Alpine Soil Platform. At the top, the tagline "Caring for Soils - Where Our Roots Grow" is visible. The main header features the platform's logo, a large landscape image of an alpine valley, and navigation menus for "Soil Protection Partnerships", "Alpine organizations", and "Soil Awareness". Below the header, a secondary navigation bar includes links for "ABOUT SOILS", "SOIL INFO", "BEST PRACTICES", "ASK & DISCUSS", "SOIL EXPERTS", and "ASP". A sidebar on the left offers language selection ("in national languages: AT DE FR IT SI CH") and a search bar. The main content area is titled "The Alpine Soil Information & Decision Support Platform" and describes the platform's purpose: to encourage stakeholders from various sectors to benefit from a comprehensive soil information system. It lists several key functionalities: knowledge about soils and ecosystem services, tailored soil data, best management practices, workshops for authorities, end-user training, decision support tools, and other project results. A "RECENT" section at the bottom left shows news updates from August 2017 and May 2017. A "Join the ASP" button is located in the top right corner.

Caring for Soils - Where Our Roots Grow

Soil Protection Partnerships Alpine organizations Soil Awareness

**The Alpine Soils Platform**

ABOUT SOILS SOIL INFO BEST PRACTICES ASK & DISCUSS SOIL EXPERTS ASP

Alpine Soil Partnership Members  
Join the ASP

in national languages:  
AT DE FR IT SI CH

Search

The Platform is a result of the  
**Interreg Alpine Space**  
**Links4Soils**

**RECENT**

NEW NEWS August 7, 2017  
LINKS4SOILS PROJECT PARTNERS  
May 25, 2017  
May 25, 2017

## The Alpine Soil Information & Decision Support Platform

The web based Platform encourages stakeholders from cross-cutting sectors like forestry, agriculture, spatial planning to benefit from the first Alps-wide soil information system that includes an expert Soil Consultancy Service, sectoral best-case practices etc. in order to integrate them into local and regional management and planning. Alpine Soil Web-Platform disseminates:

- knowledge about soils and ecosystem services they provide
- soil data and tailored soil information
- best soil management practices
- workshops for authorities
- end-user training web-tool
- tools for decision support and capacity building
- other Links4Soils project results

# Main functionalities of the Alpine Soil Platform

- Access to national Alpine soil data and soil information systems



# Main functionalities of the Alpine Soil Platform

- Public Alpine soil data web GIS  
(a prototype, initial development at the time)

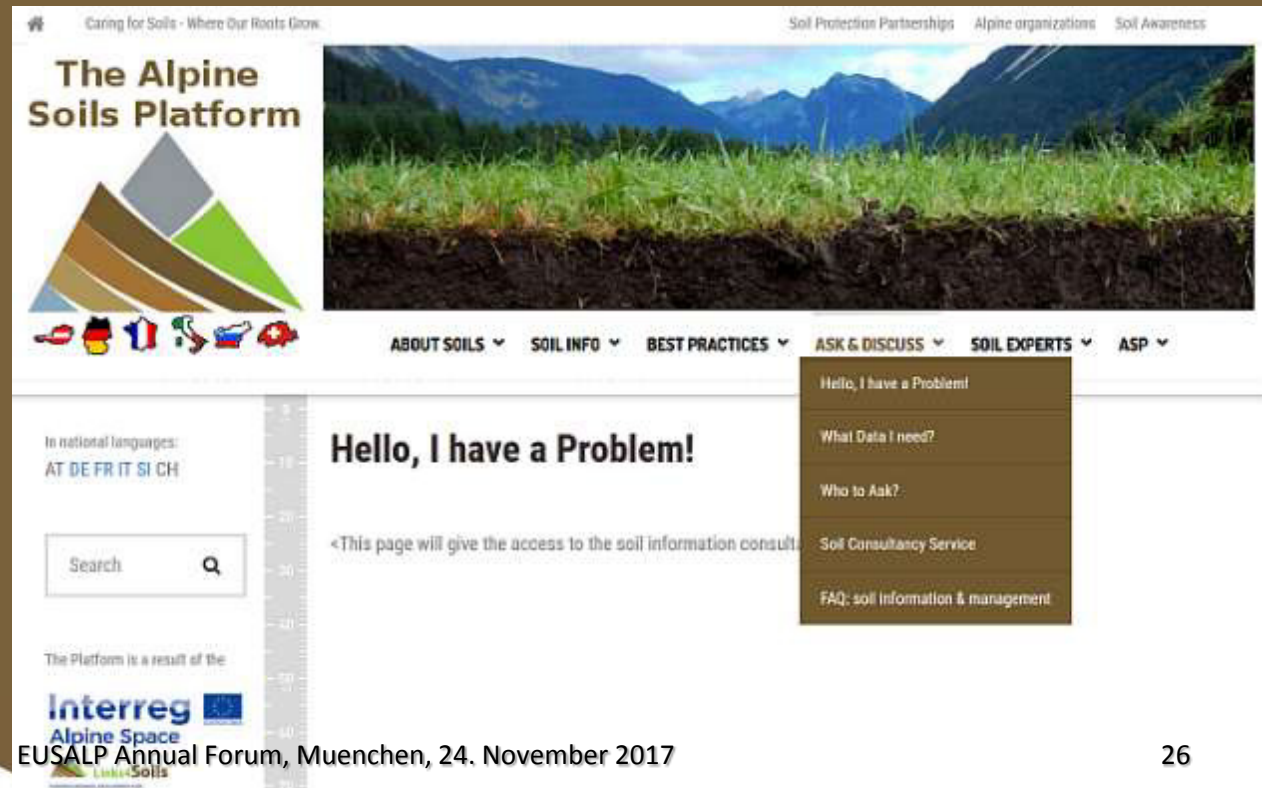


- when L4S is completed – the web GIS is transferred to the [JRC European Soil Data Centre](#) to upgrade the [Alpine Soil Information System \(ALPSIS\)](#)



# Main functionalities of the Alpine Soil Platform

- **The Soil Consultancy Service** (how-to, who to ask-, where to find best practices, how to process the raw soil data.... ← moderated by soil experts)
- Frequently asked (FAQ)
- **Who to ask**  
- experts



# Main functionalities of the Alpine Soil Platform

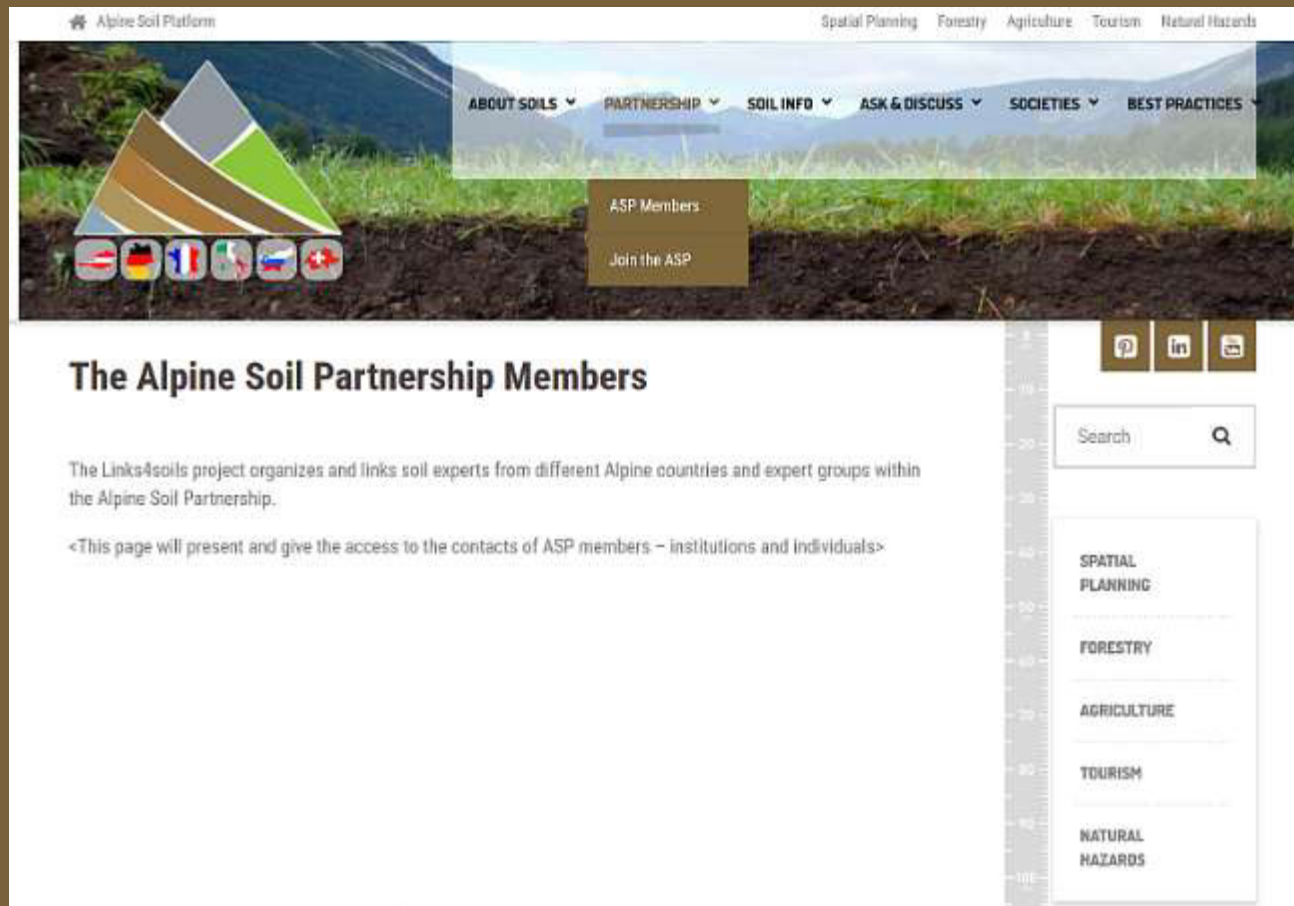
## Best practices:

- Tools and methods
- Cross-border dissemination & exchange
- Sectoral approach,  
mainly
  - Planning
  - Forestry
  - Agriculture
  - Nature protection
  - Tourism
  - ...?



# Main functionalities of the Alpine Soil Platform

- The ASP member information node





# Main functionalities of the Alpine Soil Platform

- The possibility of development of national Alpine soil web pages
- Hopefully in national languages  
← source of data, information, how to... for regional/local authorities...



The screenshot displays the homepage of 'The Alpine Soils Platform'. The header includes the tagline 'Caring for Soils - Where Our Roots Grow.' and navigation links for 'Soil Protection Partnerships', 'Alpine organizations', and 'Soil Awareness'. A large banner image shows a mountain landscape with a cross-section of soil layers. Below the banner is a navigation menu with links: 'ABOUT SOILS', 'SOIL INFO', 'BEST PRACTICES', 'ASK & DISCUSS', 'SOIL EXPERTS', and 'ASP'. The main content area features a section titled 'Piattaforma Web Suoli Alpini' with a sub-header 'Realizzazione della Piattaforma Web Suoli Alpini per la condivisione delle informazioni sui Suoli delle Alpi con gli utilizzatori finali.' and a list of bullet points describing the platform's goals and services. A sidebar on the left includes a search bar and a list of national languages: AT, DE, FR, IT, SI, CH.

Caring for Soils - Where Our Roots Grow.

The Alpine Soils Platform

Soil Protection Partnerships Alpine organizations Soil Awareness

ABOUT SOILS ▼ SOIL INFO ▼ BEST PRACTICES ▼ ASK & DISCUSS ▼ SOIL EXPERTS ▼ ASP ▼

In national languages:  
AT DE FR IT SI CH

Search

The Platform is a result of the  
Interreg Alpine Space

## Piattaforma Web Suoli Alpini

### Realizzazione della Piattaforma Web Suoli Alpini per la condivisione delle informazioni sui Suoli delle Alpi con gli utilizzatori finali.

- Offerta di strumenti e attività formative per migliorare le competenze degli utilizzatori finali, includendo i servizi ecosistemici del suolo nelle usuali pratiche di gestione ambientale e territoriale.
- Diffusione delle conoscenze e degli esempi di buone pratiche per favorire la gestione sostenibile del suolo e i processi decisionali nelle Alpi.
- Presentazione di data-sets, di strumenti e di un elenco di FAQ per la gestione del suolo.
- Fornitura di servizi di consulenza.

Il rafforzamento della cooperazione.



- Many thanks for your attention!

Credits & thanks:

Borut.Vrscaj@kis.si







## International Lake Constance University IBH

A good example for cross-border cooperation in science and research in the Alpine region

EUSALP First Annual Forum | 23.11.2017 | Munich

Prof. Dr. Markus Rhomberg | Managing Director | [www.bodenseehochschule.org](http://www.bodenseehochschule.org)

# Structure

1. Who we are
2. Our aims and goals
3. How do we work
4. IBH-Labs | Enhancing Research, Innovation & Cooperation

# 30 Universities – 4 Countries – 1 Network



A network of universities  
from Austria, Germany,  
Liechtenstein &  
Switzerland

- 100.000 students
- over 300 degree programs
- 20.000 researchers & staff
- 3'000 professors

# Who we are

## Governance model

- Founded in 2000 by the International Lake Constance Conference (IBK)
- Member countries and cantons:
  - Germany: Baden-Württemberg, Bayern
  - Switzerland: Schaffhausen, Zurich, Thurgau, St. Gallen, Appenzell Ausserrhoden, Appenzell Interrhoden
  - Austria: Vorarlberg
  - Principality of Liechtenstein
- Supervised by the IBK-Commission on Education, Science & Research
- Organized by a general assembly with members of each university
- Managed by the IBH-Secretariat

# Who we are

## University Types, Areas of Research & Studying

- Full Universities, Universities of Applied Sciences, Universities of Teacher Education, Art & Music Colleges, Cooperative State Universities
- Agriculture & Forestry, Aquatic Resources, Arts, Biotechnology, Economics, Education, Energy, Environment & Climate Action, Health, ICT, Innovation, Planning & Architecture, Social Sciences & Humanities, Transport & Mobility

# Our aims and goals | IBH is a network to enhance

## General goals

- Promoting an active network among the member universities in research, teaching and university services
- Building synergies among the members to mutual advantage
- Embracing the role of science and research in regional systems to promote innovation
- Establishing spheres of dialogue between universities, other social fields, civil society and the public sphere
- Connecting research with regional challenges

# Our aims and goals | IBH is a network to enhance

## Specific Goals for 2018-2021

- Enable its member universities in research, teaching and knowledge transfer
- Strengthen the region as an innovative economic, scientific, educational and living space
- Fund projects to cope with social challenges
- Build capacities in interdisciplinary research
- Promote dialogue at the interface of science and society
- Contribute to the cultural identity of the Lake Constance area



# How do we work

## Project Funding

- Regional challenges
- Issue-based focus (e.g. Social Innovation, Migration)
- Innovations in teaching
- Seed projects

## Capacity Building & Creating Synergies

- Working Groups among the universities to promote networks (International strategies, career paths, knowledge and technology transfer, gender & diversity, communication)

## Networking

- Promoting dialogue and cooperation among science, policy, administration, economy, civil society, arts & culture
- Multi-level approach (regional, national, international)

# IBH-Labs | Enhancing Research, Innovation & Cooperation

A new approach in funding projects in the Lake Constance area 2017-2020  
funded by “Interreg Alpenrhein | Bodensee | Hochrhein” and “ERDF”

## Goals

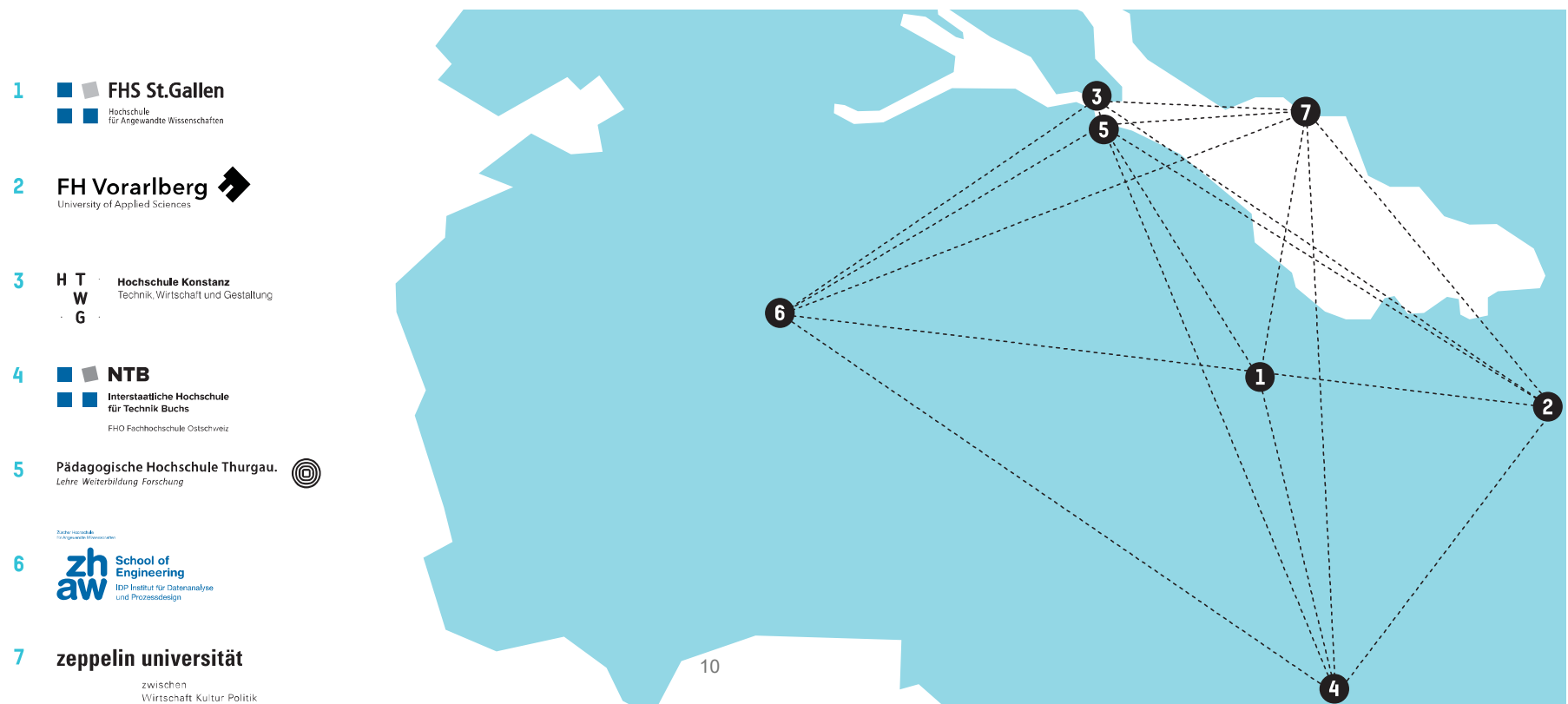
- Combining expertise crossing borders and disciplinary fields
- Building innovative networks of research and practice
- Promoting the region as innovative economic, scientific, educational and living space

## Cluster

- Social and economic change (Lab “Active & Assisted Living”)
- Knowledge and education (Lab “Seamless Learning”)
- Innovation, Digitalization and regional competitiveness (Lab “KMU Digital”)

## Innovation, Digitalization and regional competitiveness

### 6 universities from Austria, Germany & Switzerland



### Innovation, Digitalization and regional competitiveness



#### 3 Projects (3 more to come in 2018)

1. I4production: developing a cross-border process-mapping with 3 model factories
2. DigiNav: supporting SMEs to enhance their digital strategies
3. Digital Agenda Lake Constance: analysing political and social frameworks in the region and model cross-border cooperation

<http://www.kmu-digital.eu/de/>

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