

 **EUSALP** EU STRATEGY FOR THE ALPINE REGION

# URBAN SENSING



## THE PROJECT

Cities are complex systems, with emerging qualities which cannot be reduced to static understandings or representations. Dynamic networks of human flows and social interactions are deployed within an evolving infrastructure and architecture that defines the urban morphology. New models and analytical work based on complexity science and network theory can inform our understanding of both what the city is and what it could be. Such studies, rely heavily on the availability of appropriate data at the city level, which has always been a serious problem for urban policy making.

Major economic data for measuring the health of the urban economy, like city product, investment, income disparity, and financial status and other data for measuring the living condition of the city, like infrastructure service levels and environment, are increasingly easy to access, especially in Western countries.

The fast-paced metabolism of the contemporary metropolis, though, makes more and more evident the lack of production in real-time knowledge at a fine grain, at the neighborhood scale, or even at level of the metropolitan subject, the mobile citizen. Urban real-time data are increasingly popular, but what is still missing is indicator capacity at all levels of government.

Real-time data can be processed to produce knowledge, in order to collect useful information on urban conditions and trends; to analyze this information to improve access to and coverage of basic services and other urban infrastructure; to improve targeting and operational performance of services; and to apply that knowledge in formulating and implementing urban policies and programs.

The UrbanSensing project will bring a new product to the urban design, city planning and urban management market: a platform extracting patterns of use and citizens' perceptions related or concerning city spaces, through robust analysis of User Generated Content (UGC) shared by the city users and inhabitants over social networks and digital media.

The platform will allow to analyze users' perceptions related to specific geographic areas and understand how population reacts to new urban policies within participatory mechanisms. It also gives insight in the lack of structures offered by institutions and city administrations and propose interventions, also within collaborative frameworks and to discover possible emergent structures and bottom-up initiatives responding to uncovered needs and desires.

Next to this it will help to understand how specific user groups use public spaces and for instance, identify locations suitable for design interventions.

The two-year \*UrbanSensing project involves six European Partners, that all contribute their specific expertise and skills in the fields of the project. The Consortium includes 3 SMEs: Accurat (IT), LUST (NL), sisu labs (ES) and 3 Research Performers (T-Connect (IT), IT4all (FR), Technical University of Kosice (SK). The UrbanSensing project is funded by the European Union, as part of the FP7 Framework Program.

The tools and services provided by Urban Sensing will support the SMEs involved in the consortium in their decision-making processes through a set of personalization of the platform in three main information domains:

- Urban Policy assessment (Accurat)
- Communication, Exhibitions, Events assessment (LUST).
- Public transportation, commuting assessment (sisu labs)



## THE FRAMEWORK

In the “Implementing Alpine Governance Mechanisms of the European Strategy for the Alpine Region – AlpGov”, the Urban Sensing framework has been identified and used to gather social media data surrounding topics linked to the Alpine macro-region and miscellaneous innovation themes.

In the following months the Action Groups responsible for creating original data for the project will single out four topics of analysis in order for the technical staff to point the \*Urban Sensing machines to capture these topics in specific locations. The data captured by this passive listening will be gathered and shared on the Platform of Knowledge both as raw data and graphical report monthly since the start of the project. As first topic the Action Group 1 chose 'MOUNTAIN & ALPINE REGION' with a five language matrix to better capture all the shades of this topic.

On a technical standpoint, in order correctly gather useful information the \*Urban Sensing framework needs a specific formatted input. The topics have to be presented in a matrix made from words and languages, while the geographical scope has to be clearly defined.

CATEGORY	EN	IT	FR	DE	SI
General	Mountain	Montagna	Montagne	Berg	Gora
General	Mountains	Montagne	Montagnes	Gebirge	Gore
General	Alps	Alpi	Alpes	Alpen	Alpe
General	Alpine Region	Regione Alpina	Region alpine	Alpenregion	Alpska regija
EU Networks	EUSALP				
EU Networks	MRI - Mountain Research Institute				
EU Networks	Euromontana				
EU Networks	ISCAR - International Scientific Committee on Research in the Alps				
EU Networks	Alpine Convention	Convenzione delle Alpi	Convention alpine	Alpenkonvention	Alpska konvencija
Mountain Activities	Ski	Sciare	Ski	Skifahren	Smucanje
Mountain Settlements	Village	Borgo	Village	Dorf	Vas

Example of matrix used in US1



# First Topic: Mountain & Alpine Region



CATEGORY	EN	IT	FR	DE	SI
Main Topic	Mountain	Montagna	Montagne	Berg	Gora
Main Topic	Mountains	Montagne	Montagnes	Gebirge	Gore
Main Topic	Alps	Alpi	Alpes	Alpen	Alpe
Main Topic	Alpine Region	Regione Alpina	Région alpine	Alpenregion	Alpska regija
Connected	Altitude	Altitudine	Altitude	Höhe	Nadmorska višina
Connected	Valley	Valle	Vallée	Tal	Dolina
Connected	Peak	Vetta	De pointe	Haupt	Vrh
Connected	Marginal area	Area marginale	Zone marginale	Randbereich	Marginalna površina
Connected	Inner area	Area interna	Zone intérieure	Innenbereich	Notranje področje
Connected	Rural area	Area rurale	Zone rurale	Ländliches Gebiet	Podeželje
EU Network	EUSALP				
EU Network	Alpine Convention	Convenzione delle Alpi	Convention alpine		
EU Network	MRI - Mountain Research Institute				
EU Network	ISCAR - International Scientific Committee on Research in the Alps			Alpenkonvention	Alpska konvencija
EU Network	Euromontana				
EU Network	FAO - The Mountain Partnership				
Mountain activities	Mountain Sports	Sport di montagna	Sports de montagne	Bergsport	Gorski športi
Mountain activities	Alpine Sports	Sport alpini	Sports alpins	Alpiner Sport	Alpski športi
Mountain activities	Ski/skying	Sciare	Ski	Skifahren	Smučanje
Mountain activities	Trekking	Passeggiare	Randonnée	Trekking	Treking
Mountain activities	Climb/climbing	Arrampicare	Escalade	Klettern	Plezanje
Mountain activities	Big game fishing	Pesca d'altura	Pêche au gros	Hochseefischen	Veliko divjad
Mountain activities	Hunting	Caccia	Chasse	Jagd	Lov
Mountain activities	Mushroom picking	Raccolta funghi	Cueillette de champignons	Pilzsammeln	Pobiranje gob
Mountain activities	Biking/Bike	Bici/Bike	Vélo	Radfahren / Fahrrad	gorsko kolo
Mountain settlements	Village	Borgo	Village	Dorf	Vas
Mountain settlements	Hut	Rifugio	Cabane	Hütte	Hut



CATEGORY	EN	IT	FR	DE	SI
Mountain settlements	Forest	Bosco	Forêt	Wald	Gozd
Mountain settlements	Pasture	Pascolo	Pâturage	Weide	Paša
Mountain settlements	Stream	Ruscello	Courant	Strom	Potok
Mountain settlements	Mountain cottage	Malga		Alm	Alm
Mountain settlements	Alpine cottage	Alpeggio	Pâturage	Weide	Pašnik
Mountain economy	Abandonment	Abbandono	Abandon	Aufgabe	Opustitev
Mountain economy	Product	Prodotto	Produit	Produkt	Izdelek
Mountain economy	Food	Prodotto alimentare	Aliments	Essen	Hrana
Mountain economy	Hospital	Ospedale	Hôpital	Krankenhaus	Bolnišnica
Mountain economy	Tourism	Turismo	Tourisme	Tourismus	Turizem
Mountain economy	Wellness/Health	Benessere	Bien-être	Wellness	Wellness
Mountain economy	Industry	Industria	Industrie	Industrie	Industrija
Mountain economy	Young entrepreneurs	Giovani imprenditori	Jeunes entrepreneurs	Jungunternehmer	Mladi podjetniki
Mountain economy	Farmers	Agricoltori	Les agriculteurs	Bauern	Kmetje
Mountain economy	Breeders	Allevatori	Éleveurs	Züchter	Rejci
Mountain economy	Research	Ricerca	Recherche	Forschung	Raziskave
Mountain economy	Innovation	Innovazione	Innovation	Innovation	Inovacije
Mountain economy	Tax	Tasse	Impôts	Steuern	Davki
Mountain economy	Tax exemption	Defiscalizzazione	Exonération fiscale	Steuerfreiheit	Oprostitev davka
Mountain economy	Young farmers	Giovani agricoltori	Jeunes agriculteurs	Junglandwirtet	Mladi kmetje
Mountain environment	Water	Acqua	Eau	Wasser	Voda
Mountain environment	Pure air	Aria pulita	Air pur	Pure Luft	Čisti zrak
Mountain environment	Avalanche	Valanga	Avalanche	Lawine	Plaz
Mountain environment	Landslide	Frana	Glissement de terrain	Erdrutsch	Zemeljski plaz
Mountain environment	Fire	Incendio	Feu	Feuer	Požar
Mountain environment	Climate change	Cambiamento climatico	Changement climatique	Klimawechsel	Sprememba podnebja
Mountain environment	Waste	Rifiuti	Déchets	Abfall	Odpadki



CATEGORY	EN	IT	FR	DE	SI
Mountain environment	Environmental change	Cambiamento ambientale	Changement environnemental	Umweltveränderungen	Okoljske spremembe
Mountain environment	Environment	ambiente	environnement	Umwelt	Okolje
Mountain environment	Drought	Siccità	Sécheresse	Dürre	Suša
Mountain environment	Snow?	Neve	Neige	Schnee	Sneg
Mountain environment	Alpine flora	Flora alpina	Flore alpine	Alpenflora	Alpska flora
Mountain environment	Alpine fauna	Fauna alpina	La faune alpine	Tiere der Berge/ Alpine Fauna	Alpska favna
Other	Accident	Incidente	Accident	Unfall	Nesreča
Other	Help / first aid	Soccorso	Premiers secours	Erste Hilfe	Prva pomoč
Other	Disaster	Catastofre/Disastro	Catastrophe	Katastrophe	Katastrofa



# Second Topic: Annual Forum





CATEGORY	EN	IT	FR	DE	SI
General Topic	Alps	Alpi	Alpes	Alpen	Alpe
General Topic	Alpine Region	Regione Alpina	Région alpine	Alpenregion	Alpska regija
General Topic	Interreg				
AlpGov	EUSALP				
AlpGov	EUSALP Annual Forum				
AlpGov	Alpine Convention				
AlpGov	EUSALP Presidency				
AlpGov	Macro Regional Strategy				
Action Groups	Research and Innovation	Ricerca e Innovazione	Recherche et innovation	Forschung und Innovation	Raziskave in inovacije
Action Groups	Economic Development	Sviluppo economico	Développement économique	Wirtschaftliche Entwicklung	Ekonomski razvoj
Action Groups	Labour market, Education, - - Training	Mercato del lavoro, Istruzione, - - formazione	Marché du travail, éducation, - - formation	Arbeitsmarkt, Bildung, - - Ausbildung	Trg dela, izobraževanje, - - usposabljanje
Action Groups	Mobility	Mobilità	Mobilité	Mobilität	mobilnost
Action Groups	Accessibility	Accessibilità	Accessibilité	Zugänglichkeit	Dostopnost
Action Groups	Resources	risorse	Ressources	Ressourcen	virji
Action Groups	Green Infrastructure	infrastrutture verdi	L'infrastructure verte	grüne Infrastruktur	Zelena infrastruktura
Action Groups	Risk governance	governance del rischio	Gouvernance des risques	Risk Governance	upravljanje s tveganji
Action Groups	Energy	Energia	Énergie	Energie	Energija
Action Groups	Action Group 1				
Action Groups	Action Group 2				
Action Groups	Action Group 3				
Action Groups	Action Group 4				
Action Groups	Action Group 5				
Action Groups	Action Group 6				
Action Groups	Action Group 7				
Action Groups	Action Group 8				
Action Groups	Action Group 9				