

## ACTION GROUP 5



*To connect people electronically and promote  
accessibility to public services*

**WORK IN PROGRES**

## Survey on Smart Villages and Smart Regions in the Alpine area

Authors:

- Andrea Koch and Thomas Egger, Swiss Center for mountain regions SAB  
Co-Leaders of AG5

March 2021

## 1. Background

The Board of action group Leaders (BAGL) and the Executive Board (EB) of EUSALP chose the “Smart village” topic as one of five cross-sectoral topics within the project ALPGOV II. The larger background to this topic described in the *concept note* of the *cross-sectoral initiative “Smart Village”*. According to the concept, the first activity is to **“Establish an overview of existing Smart village and smart region initiatives in the Alpine area.”** There are already quite a lot of activities for Smart Villages / Smart Cities / Smart Regions going on in the Alpine area. But an overview is missing. This is hindering an exchange between these initiatives. The goals of this activity are:

- to get a clearer picture on the already ongoing activities in the alpine area;
- to create a database of stakeholders for the further activities (e.g. Exchange of experience, building a network);
- to identify potential best practice case for the later communication work

The following report and overview is based on a desk research and a small survey within the ALPGOV-Partners and the Actions Groups involved in the cross-sectoral initiative “Smart villages”. The survey is certainly not complete and gives an overview of the actual state of play. It will be amended, as soon as further information is available. The report is therefore marked as “work in progress”.

## 2. Definition and delimitation of Smart Villages in the EUSALP-framework

According to the EU Action Plan, Smart Villages are *“rural areas and communities which build on their existing strengths and assets as well as on developing new opportunities”*, where *“traditional and new services are enhanced by means of digital, telecommunication technologies, innovations and better use of knowledge”*.

The Smart Village concept in the EUSALP framework takes up this definition. At the same time, it always relies on a participatory approach, including the stakeholders within the communities. This allows the elaborated strategy for the use of digital solutions to be adapted to the needs and the different frame conditions in the various alpine communities or regions. An integrated participatory process will enhance the acceptance and therefore also the adoption of the new “smart” solutions.

## 3. First findings

Looking at the different smart solutions presented in the internet, many are sectoral (e.g. only for smart mobility or only for a certain value chain). Such solutions are for example listed and discussed in the ERND-thematic group “Smart Villages”, which elaborated a set of publications on this topic including best practice, guidelines, and policy briefs. In Germany and Austria apps for municipalities were developed with a broad range of functions. However, not all villages that used it, also followed a participative approach. Through the survey, those initiatives will be selected that built on a community or region-wide participatory approach, initially analyzing the needs of a community and finding out which digital solutions are useful for them.

## 4. Main initiatives and networks dealing with smart villages

### SMART ALPS - Network of Alpine Smart villages and regions

The Network of Alpine Smart villages and regions is a strategic initiative of the Macroregional strategy for the Alpine area EUSALP. It is composed of municipalities and regions, which correspond to the definition of Smart villages according to the EU Action plan. The Network tries to bring together all Smart villages and Smart regions within the Alpine area. It builds on the experiences of the Alpine Space Program project Smart villages (2018 – 2021) which was also a strategic initiative of EUSALP. The network will capitalize on the findings of this project, use its transferable tools such as the Digital Exchange Platform DEP and help to promote the Smart villages approach in whole Alpine arc. The network is at least in the starting phase a loose network without formal legal status. This should make it more flexible and attractive to join. There's no membership-fee. The secretariat will be assumed by AG5 of EUSALP. The launch of the network is foreseen at the Digital Alps Conference of 27/28 May 2021 (online). The network aims to

- encourage the exchange of information and experiences among Smart villages and Smart regions within the Alpine area,
- transpose a modern image of mountain and rural areas,
- foster contacts with similar networks and initiatives all over Europe.

More information will be available soon on the Website of AG5 of EUSALP on <https://www.alpine-region.eu/action-group-5>

### ERND Thematic group

'Smart Villages' is the current sub-theme of the broader ERND thematic work on 'Smart and Competitive Rural Areas'.

A Thematic Group (TG) is working on this topic between September 2017 and July 2020. It contributes to the EU Action for Smart Villages by enabling exchange on innovative ways of creating more vibrant, sustainable and attractive rural areas and by exploring how the Rural Development Programmes (RDPs), the EU's Cohesion policy and other financing instruments can be best used to support this.

In its first year, the TG explored ideas and initiatives around revitalising rural services through digital and social innovation. It looked at how rural services – such as health, social services, education, energy, transport, retail – can be improved and made more sustainable through the deployment of Information and Communication Technology (ICT) tools and through community-led actions and projects.

In its second year, TG acted as a sounding board for developing practical orientations for using all the policy tools available to help Smart Villages emerge and develop.

The TG “Smart villages” consolidated a variety of publications, including Collections on projects and best practices, policy brief, practical guides, etc. However, it does not initiate, assist or implement new smart village initiatives on its own.

### **Smart eco-social villages**

This EU-funded project, that ran between 2017-2019, mapped out challenges and opportunities in rural areas, aiming to provide a definition of 'Smart Villages', as well as identifying good practice examples and case studies on the topic. The objectives of the Pilot Project are expressed in its four distinct themes. The first Theme maps opportunities and challenges in rural areas. The second Theme proposes a definition of 'Smart eco-social villages', which is used to define the boundaries of the two further project Themes. The third Theme describes existing practice in detail: 15 best practices are identified, described and analysed. The fourth Theme investigates pathways to development into a Smart Eco-social Village: the process of planning, designing and establishing a Smart Village strategy has been investigated for six villages that expressed an interest in becoming a 'smart eco-social village'. The Smart eco-social village concept focuses less on the use of digital tools, the main characteristics are rather the participative, co-creative process including the citizens.

### **INTERREG Alpine Space – Project Smart villages**

This project's goal is to promote digitization in Alpine space rural communities in order to help creating highly needed jobs, improve the provision of services, and foster a favorable climate for entrepreneurship and social innovation, which result in inhibiting a brain drain. It also means to fight the digital divide between rural and urban areas. The INTERREG project promotes a smart-villages approach in the alpine regions with the aim to unlock the potential of local actors to make their region a more attractive place to live and work. The project analyses initiatives in 9 test areas. It creates a smartness-analysis-tool for mountain communities, a digital exchange platform on the topic, a toolbox that facilitates user engagement and the development of products with high value for the Smart Villages ecosystem in all Test Areas as well as Policy recommendations on municipal, regional, national and European level.

### **SMART RURAL 2021**

The 'Preparatory Action on Smart Rural Areas in the 21st Century' (Smart Rural 21) project is a two and a half-year project supported by the European Commission (DG AGRI) with the overall aim to promote and inspire villages to develop and implement smart village approaches and strategies across Europe, and to draw conclusions and support future policy interventions on smart villages. The project started in December 2019 and will conclude in June 2022. 5 villages were pre-selected for the project, now the aim is to promote smart village strategies all over Europe. Smart Village initiatives should be announced to the project and will regularly get tools and information about the different steps to take ("Come Along!" – Villages). The list of Initiatives is not yet public.

### **ERUDITE**

ERUDITE (Enhancing Rural and Urban Digital Innovation Territories) is an ERND INTERREG programme in its second phase. ERUDITE partners have successfully extended High Speed Broadband infrastructure to reach increasing numbers of urban and rural communities with the objective of enabling all stakeholders to contribute and benefit from the digital economy and society. However, the partners recognized that whilst digitalization and development of innovation capacity are essential elements of current policy instruments, the exploitation of new digital opportunities to support employment growth, quality of life and territorial attractiveness had been insubstantial. ERUDITE partners concluded that the development, design and implementation of effective digital services in Europe required an innovative re-thinking of all the processes through integrating digital demand stimulation, as well as digital education and training. Therefore, ERUDITE assists rural areas in adopting their own 'Smart Village' approach by elaborating and offering a collection of guides, links and support materials.

### **AURORAL (Architecture for Unified Regional and Open digital ecosystems for Smart Communities and wider Rural Areas Large scale application)**

AURORAL focuses on increasing connectivity and delivering a digital environment of smart objects interoperable services platforms able to trigger dynamic rural ecosystems of innovation chains, applications and services. Thus, AURORAL contributes to increase economic growth and create jobs in rural areas and to tackle significant societal challenges, contributes to overcoming digital divide between rural and urban areas and to develop the potential offered by increased connectivity and digitisation of rural areas. AURORAL digital environment is demonstrated by cost-efficient and flexible cross-domain applications through large-scale pilots in five European regions. It builds on an open, API-based, interoperable and federated Internet of Things (IoT) architecture and includes a reference implementation supporting flexible integration of heterogeneous services, bridging the interoperability gap of the smart object platforms and creating markets for services in rural areas. AURORAL started on January 1<sup>st</sup> 2021 and will last for 4 years. [www.auroral.eu](http://www.auroral.eu)

### **Living-in.eu**

The [living-in.eu](http://living-in.eu) platform creates the conditions to upscale digital solutions based on iconic projects. [Living-in.eu](http://living-in.eu) is a bottom-up movement which has the ambition to have a positive impact on the quality of life of at least 300 million European citizens by 2025. The initiative is a cooperation of [Eurocities](#), [Open & Agile Smart Cities \(OASC\)](#), [European Network of Living Labs \(ENoLL\)](#) and is supported by [the European Commission](#) and [the European Committee of the Regions](#). The platform will enable Cities & Regions to work together on societal challenges with the help of digital solutions. Through iconic projects, such as Urban Digital Twins, the Citizen Card and Urban Data Platforms, cities & regions are able to develop and implement the solution on a local level. The platform was launched at the beginning of 2021. [www.living-in.eu](http://www.living-in.eu)

### **Apps and digital solutions for community management in villages or regions**

In Germany, citizens and stakeholders from 3 different municipalities have developed the application “Digitale Dörfer” in a participatory process. The app covers different functionalities for the interaction between citizens, mobility, information to the citizens, etc. The application has been adopted in many municipalities within the EUSALP-Perimeter, including villages in Austria. In addition, Austria has developed a similar application (Gem2go) which is used by municipalities in Austria and Northern Italy. However, the implementation of the app in the different municipalities is not necessarily based on a participatory process. In the Swiss Association “Myni Gmeind” offers communities consultation for a participatory approach for the analysis of their needs in digitization. It also collected a wide range of digital solutions that can be offered accordingly to the analysis with the stakeholders.

### **Réseau rural (France)**

The aim of the “Rural Network” is to foster the rural development by using the funds from the European Agricultural Fund for Rural Development (EAFRD) accordingly. It therefore collected best practices of use of smart technologies and published information in order to support initiatives towards a smart transformation. It also actively participates in international initiatives in this field.

### **Other regional initiatives**

There are other regional initiatives, that are not listed as part of the above networks, initiatives or examples of best practice. These initiatives are usually started from stakeholders who want to solve a problem by implementing digital tools or just see an opportunity that can be seized by implementing

As an example, Aosta Valley Autonomous Region is developing a framework for the implementation of Smart Villages in the whole region, focusing the actions on the different dimensions of smartness that will be funded in the future European Programming with a multi-fund approach (EAFRD, EFRD, ESF). This framework for a transition to a Smart and sustainable region will merge enabling interventions at regional level, local-defined projects at municipal level and supporting tools as the application of the SEROI+ methodology.

### Research Projects

Within research projects (e.g. Horizon), some initiatives are supported and described. They are usually called “implementation initiatives”, “living labs”, “innovation actions” or similar in the project. An example is the DESIRA, where one “living lab” in the EUSALP-Perimeter will most probably meet the criteria smart village initiative.

### Request for further information

A list of Smart-Village- Initiatives in the EUSALP-perimeter can be found in the annex. This list is not exhaustive. Indications for further initiatives are welcome. We are especially interested in establishing an overview of municipalities and regions which are already Smart villages or Smart regions (according to the EU-definition) or are on the way to become so. So, if you’re a municipality or region active in this field, don’t hesitate to contact us!

### Contacts:

- **Thomas Egger**, Co-Leader AG5 of EUSALP, Director of the Swiss Center for mountain regions SAB ([thomas.egger@sab.ch](mailto:thomas.egger@sab.ch))
- **Carlo Vigna**, Co-Leader AG5 of EUSALP, Director of Technological Systems of Aosta Valley Region ([ca.vigna@regione.vda.it](mailto:ca.vigna@regione.vda.it))

## Annex

### List of Smart Village initiatives and networks in the Alpine area

*This list has been drafted by Action Group 5 of EUSALP based on a survey carried out in autumn 2020. The list may not be complete. Further input is welcome. We are especially looking for Smart villages and Smart regions, which are either already working in this field or are starting a process. The aim is to foster the exchange of information and experiences amongst those villages and regions within the Alpine arc. Please, don't hesitate to contact us!*

Place, Initiative	Country	1) Description participative process 2) If available: results of the participatory process	Website(s)	Person of Contact Evt.Role/Institution	E-Mail Phone-number
Interreg Alpine Space project Smart villages	CH, IT, SLO, DE, FR	1) Coordinating and initiating participatory smart-village initiatives in the Alpine Space territory. All partners use a participatory approach 2) Best practice, List of examples, Policy recommendations, etc.	<a href="https://www.alpine-space.eu/projects/smartvillages/en/home">https://www.alpine-space.eu/projects/smartvillages/en/home</a>	Peter Niederer Swiss Centre for Mountain Regions, SAB, 3001 Bern	<a href="mailto:peter.niederer@sab.ch">peter.niederer@sab.ch</a> <a href="mailto:muhamed.turkanovic@um.si">muhamed.turkanovic@um.si</a>
ERUDITE Project SMART Villages	EU	1) The Project ERUDITE elaborated a basis of how to enhance sustainable digital transformation (wholistic approach) 2) Contributed to different documents with guides and recommendations on how to implement smart village initiatives	<a href="https://www.interregeurope.eu/erudite/smart-villages/">https://www.interregeurope.eu/erudite/smart-villages/</a>	<b>Clive Peckham</b> (Nievre Numerique) and Emilija Stojmenova (University of Ljubljana)	<a href="mailto:c.peckham@nievrenumerique.fr">c.peckham@nievrenumerique.fr</a> <a href="mailto:emilija.stojmenova@lfe.org">emilija.stojmenova@lfe.org</a>
ERND SMART Villages Thematic Group	EU	1) European Network of involved stakeholders who foster smart village initiatives, with a strong connection to the policy level 2) A number of practical guides and documents on how to foster smart transformation in rural areas and villages; workshops and events on the topic	<a href="https://enrd.ec.europa.eu/smart-and-competitive-rural-areas/smart-villages/smart-villages-portal_en">https://enrd.ec.europa.eu/smart-and-competitive-rural-areas/smart-villages/smart-villages-portal_en</a>	Paul Soto	<a href="mailto:smart-villages@enrd.eu">smart-villages@enrd.eu</a> <a href="mailto:paul.soto@enrd.eu">paul.soto@enrd.eu</a>
Rural development measure 7	AT	1) Several measures according to the needs of the stakeholders. 2) Improving Basic Services according to the needs of the municipalities or regions	<a href="https://enrd.ec.europa.eu/sites/enrd/files/tg_smart-villages_project-compilation.pdf">https://enrd.ec.europa.eu/sites/enrd/files/tg_smart-villages_project-compilation.pdf</a>	Julian Gschnell	<a href="mailto:Julian.Gschnell@bmlfuw.gv.at">Julian.Gschnell@bmlfuw.gv.at</a>

			free. <a href="https://www.zukunftsraumland.at/projekte/1957">https://www.zukunftsraumland.at/projekte/1957</a> <a href="https://www.zukunftsraumland.at/projekte/1794">https://www.zukunftsraumland.at/projekte/1794</a>		
Smart eco-social villages	EU	<ol style="list-style-type: none"> <li>1) The Pilot Project on Smart eco-social villages, initiated by the European Parliament, <b>focusing more on participatory approach, than digitisation</b></li> <li>2) Documents with the definition of the concept “smart village”, good practice example, general insight on the mechanism and smart solutions</li> </ol>	<a href="https://op.europa.eu/en/publication-detail/-/publication/9ff90911-a0c9-11ea-9d2d-01aa75ed71a1/language-en">https://op.europa.eu/en/publication-detail/-/publication/9ff90911-a0c9-11ea-9d2d-01aa75ed71a1/language-en</a>  <a href="http://www.pilotproject-smartvillages.eu/">http://www.pilotproject-smartvillages.eu/</a>		<a href="mailto:Agri-evaluation@ec.europa.eu">Agri-evaluation@ec.europa.eu</a>  <a href="mailto:Smart.Villages@ecorys.com">Smart.Villages@ecorys.com</a>
Preparatory Action on Smart Rural 2021	EU	<ol style="list-style-type: none"> <li>1) Smart Rural 21 is an EU-funded project supporting take-up of the smart village concept across the EU</li> <li>2) New tools and resources; Direct support to 21 villages, clear policy messages (ongoing)</li> </ol>	<a href="https://www.smartrural21.eu/">https://www.smartrural21.eu/</a>		<a href="mailto:smart-rural@e40.eu">smart-rural@e40.eu</a>
DESIRA		<ol style="list-style-type: none"> <li>1) Horizon 2020 –Project with the aim to improve the capacity of the society to react to the challenges that digitalisation generates in agriculture, forestry and rural areas</li> <li>2) Different</li> </ol>	<a href="http://desira2020.eu/">http://desira2020.eu/</a>	Gianluca Brunori	<a href="mailto:gianluca.brunori@unipi.it">gianluca.brunori@unipi.it</a> <a href="mailto:info@desira2020.eu">info@desira2020.eu</a>
Living LAB Austria	A	<ol style="list-style-type: none"> <li>1) Participatory process including the economic sector (value chain), civil society and administration</li> <li>2) Open, , topic: timber industry &amp; civil society</li> </ol>	<a href="http://desira2020.eu/living-labs/">http://desira2020.eu/living-labs/</a>		<a href="mailto:info@desira2020.eu">info@desira2020.eu</a>
Living Lab Rhineland	D	<ol style="list-style-type: none"> <li>1) Participatory process including the economic sector, local communities and administration</li> <li>2) Open, one topic is access to technology for women</li> </ol>	<a href="http://desira2020.eu/living-labs/">http://desira2020.eu/living-labs/</a>		<a href="mailto:info@desira2020.eu">info@desira2020.eu</a>
Le réseau rural, usage du numérique	F	<ol style="list-style-type: none"> <li>1) fostering smart village initiatives and digitisation in rural areas nationwide</li> <li>2) best practice guide</li> </ol>	<a href="https://www.reseaurural.fr/centre-de-ressources/documents/limpact-des-usages-du-numerique-sur-le-developpement-rural">https://www.reseaurural.fr/centre-de-ressources/documents/limpact-des-usages-du-numerique-sur-le-developpement-rural</a>	??	<a href="mailto:contact@reseaurural.fr">contact@reseaurural.fr</a>
Myni Gmeind (CH)	CH	<ol style="list-style-type: none"> <li>1) Organisation with different partners that offers to assist a participative process in a village</li> </ol>	<a href="https://mynigmeind.ch/de/">https://mynigmeind.ch/de/</a>	Hannes Treier	<a href="mailto:hannes.treier@mynigmeind.ch">hannes.treier@mynigmeind.ch</a> ++41 31 387 37 97

		2) Offers different digital tools from different providers who are partners of the organisation			
Digitale Dörfer	DE / A	1) Participatory process with stakeholders from different municipalities to develop a community app with different options 2) App is available to villages who can adapt it to their needs. The process to define the needs of each village can be participatory or not....	<a href="https://www.digitale-doefer.de/das-projekt/">https://www.digitale-doefer.de/das-projekt/</a>	Annika Meier	<a href="tel:+4963168002194">+49 (631) 6800-2194</a>
Digitales Dorf Bayern	DE	1) Participatory processes in rural municipalities to explore the potentials of digital technologies. 2) Network at Länder-Level. 3) Support by the Government of the Bundesland	<a href="https://digitales-dorf.bayern">https://digitales-dorf.bayern</a>		
GemtoGo	A / IT	4) Participatory process with stakeholders from different municipalities to develop a community app with different options 5) App is available to villages who can adapt it to their needs. The process to define the needs of each village can be participatory or not....	<a href="https://www.gem2go.at/">https://www.gem2go.at/</a> <a href="https://www.gem2go.it/Gem2GoAltoAdige">https://www.gem2go.it/Gem2GoAltoAdige</a>		<a href="mailto:office@ris.at">office@ris.at</a> <a href="mailto:info@gvcc.net">info@gvcc.net</a>
Smart Land South Tyrol	South Tyrol	1) The project involves the local farmers of South Tyrol through an advisory association for agriculture (Beratungsring) to develop smart solutions for farming. First objectives concern the improvement of efficient irrigation. 2) The installed system in 60 orchards and wine yards inform the farmers about soil moisture and combines current weather and temperature data.	<a href="https://www.alperia-group.eu/de/newsroom/news-detail/news/smart-land-alto-adige-un-progetto-innovativo-per-uno-sviluppo-sostenibile-dellagricoltura.html">https://www.alperia-group.eu/de/newsroom/news-detail/news/smart-land-alto-adige-un-progetto-innovativo-per-uno-sviluppo-sostenibile-dellagricoltura.html</a>	Martin Thalheimer  Hansjörg Hafner  Sergio Marchiori (Business Unit Alperia Smart Region)	<a href="mailto:martin.thalheimer@laimburg.it">martin.thalheimer@laimburg.it</a>
Landwirtschaft 4.0	South Tyrol	1) Based on the experience of individual plant managers and the expert assessment of various trade associations, a potential analysis for selectively selected production types documents the need for technology. 2) Winegrowers and viticultural experts agreed that an adaptation of technologies for understock cultivation is needed. The need for irrigation according to the demand resulted as the most important need for of grassland farming.	<a href="http://www.eurac.edu/de/research/projects/Pages/projectdetail4395.aspx">http://www.eurac.edu/de/research/projects/Pages/projectdetail4395.aspx</a>	Christian Hoffmann (Eurac)	<a href="mailto:Christian.Hoffmann@eurac.edu">Christian.Hoffmann@eurac.edu</a>

Alpes Provence Verdon	F	1) Participative creation of a smart rural strategy for the territory, links with SmartVillages project 2) Improvement of broadband and mobile phone access, Support to digital inclusion places	<a href="https://reseau rural.maregionsud.fr/chantiers/acces-aux-services-smart-ruralite/">https://reseau rural.maregionsud.fr/chantiers/acces-aux-services-smart-ruralite/</a>	Christelle CASO, région PACA	<a href="mailto:ccaso@maregionsud.fr">ccaso@maregionsud.fr</a>
CEREMA	F	1) Support to french local authorities for smart cities / smart territories processes with a participative platform 2) Possibility to contribute to the platform, results not yet available	<a href="https://smart-city.cerema.fr/">https://smart-city.cerema.fr/</a>	Florent Boithias, CEREMA	<a href="mailto:Florent.boithias@cerema.fr">Florent.boithias@cerema.fr</a>
Nouveaux lieux, nouveaux liens	F	1) National public policy program to support new places, new relationships in all the France territory, with a special focus on rural areas, including third places, SGIs houses, digital support places, ... 2) Support for creation of numerous new places with territories stakeholders	<a href="https://agence-cohesion-territoires.gouv.fr/nouveaux-lieux-nouveaux-liens-56">https://agence-cohesion-territoires.gouv.fr/nouveaux-lieux-nouveaux-liens-56</a>	Marc Laget, ANCT	<a href="mailto:Marc.laget@anct.gouv.fr">Marc.laget@anct.gouv.fr</a>
LEADER Project SEROI+ Smart Villages	IT/IRL /FIN	1) Participatory process to enable rural communities to co-design and co-create the services and strategies for Smart Villages and rural territories of the future and understand what actions have the potential to add the most economic, social and environmental value to their local area and to their stakeholders' businesses, communities and services. 2) The project will start in December 2020 and it is the first step of smart village transformation of Aosta valley region, starting from the Unité des Communes Grand Paradis.	<a href="https://www.gal.vda.it/">https://www.gal.vda.it/</a>	Marta Anello (GAL Valle d'Aosta Coordinator)	<a href="mailto:ma.anello@gal.vda.it">ma.anello@gal.vda.it</a> <a href="tel:+390165524302">+39(0)165524302</a>
Unité des Communes Grand Paradis, Aosta Valley Region	IT/IRL /FIN	1) The SEROI+ Smart Villages Project will develop a package of training and support programmes and on-line tools that will enable the participating LAG's and their stakeholders to: a) Undertake local multi-stakeholder process to select, design and implement 'Smart Village' projects and strategic actions b) Evaluate or predict the social, environmental and economic impact or return on investment (ROI) of their planned actions and further improve their design and impact 2) The project will start in December 2020 and it is the first step of smart village transformation of Aosta valley	<a href="https://www.gal.vda.it/">https://www.gal.vda.it/</a>	Marta Anello (GAL Valle d'Aosta Coordinator)	<a href="mailto:ma.anello@gal.vda.it">ma.anello@gal.vda.it</a> <a href="tel:+390165524302">+39(0)165524302</a>

		region, starting from the Unité des Communes Grand Paradis.			
KlimaGemeinde/ComuneClima	IT	<p>The programme is based on the international certification European Energy Award, a holistic concept to foster sustainability and energy efficiency in municipalities in the areas of energy planning, mobility, waste management, communication towards citizens, management/governance in the municipality and local development and spatial planning.</p> <p>The process is accompanied by the “energy team”, an internal working group formed by technicians, official representatives of the municipality and citizens as well as interested stakeholders.</p> <p>Municipalities taking part in the programme, use an energy book keeping system to track their energy use and production which also helps them to identify potential energy saving measures.</p> <p>The representatives of the programme meet at least once a year, to receive their certification during an official ceremony. During the event, participatory frameworks such as world cafes are organized in order to share good practices and discuss issues that regard sustainability and energy policies in the municipalities.</p>	<a href="https://www.klimahaus.it/de/klimagemeinde-1559.html">https://www.klimahaus.it/de/klimagemeinde-1559.html</a>	Mariadonata Bancher	<a href="mailto:Mariadonata.bancher@klimahausagentur.it">Mariadonata.bancher@klimahausagentur.it</a> +39 0471 062163
FP7 project sinfonia		<p>The FP7 project focused on innovative smart city and deep refurbishment measures in the cities of Bolzano and Innsbruck.</p> <p>Different smart applications were developed and installed in a participatory way.</p> <p>1. E.g. smart appliances were introduced for tenants of apartments to be refurbished during the project. The applications were used by tenants to track their daily energy use to demonstrate how a change in habits (e.g. fresh-air ventilation techniques, cooking etc.) can cut energy use and emissions.</p> <p>2) Demo apartments for tenants were organized before the refurbishment where they could inform themselves about the planned refurbishment activities accompanied by technical staff of the project with the goal to give them</p>	<p>Video on participatory processes in refurbishment activities</p> <p><a href="https://www.youtube.com/watch?v=4ry09MlufxE&amp;list=PLtVp69Zrq6ORYQnjQf3xKeYyql2SEtTnb&amp;index=4">https://www.youtube.com/watch?v=4ry09MlufxE&amp;list=PLtVp69Zrq6ORYQnjQf3xKeYyql2SEtTnb&amp;index=4</a></p>	Uwe Staffler	<a href="mailto:Uwe.staffler@klimahausagentur.it">Uwe.staffler@klimahausagentur.it</a> +39 0471 062144

		information about energy efficiency aspects of the apartments.			
CO2-Rechner	IT	The CO2 Rechner Südtirol is an online application to measure the individual CO2 footprint in various fields of daily life such as living, mobility, consumption habits etc. on a yearly basis. The application is a tool to sensitize citizens for a more sustainable and energy efficient life style.	<a href="https://casaclima.co2-rechner.de/de_IT/">https://casaclima.co2-rechner.de/de_IT/</a>	Maren Meyer	<a href="mailto:Maren.meyer@klimahausagentur.it">Maren.meyer@klimahausagentur.it</a> <a href="tel:+390471062171">+39 0471 062 171</a>
Exhibition Climate & I	A	Exhibition Klima & Ich in St.Pölten. the exhibition will be showed until march 2021 and has a area future and I, where the concept of A Smart Village is shown	<a href="https://www.museumnoe.at/de/haus-fuer-natur/Sonderausstellung/starts-eite-klima-ich">https://www.museumnoe.at/de/haus-fuer-natur/Sonderausstellung/starts-eite-klima-ich</a>	Tino Blondiau	<a href="mailto:tino.blondiau@enu.at">tino.blondiau@enu.at</a>
CO2-Coach	A	CO2-Coach to measure the individual personal carbon footprint, with the focus of measures that can be taken by each person individually. The CO2-Coach helps to reduce the carbon footprint in every aspect of life and is available online	<a href="https://www.co2-coach.at/home">https://www.co2-coach.at/home</a>	Tino Blondiau	<a href="mailto:tino.blondiau@enu.at">tino.blondiau@enu.at</a>
Action Programme for a Green Economy in the Alpine Region		Initiated by the Alpine Convention (see <a href="#">Action Programme for a Green Economy in the Alpine Region</a> ), including pilot activities in different Alpine regions/villages		Hans-Joachim Hermann, Umweltbunde samt UBA Germany,	<a href="mailto:hans-joachim.hermann@uba.de">hans-joachim.hermann@uba.de</a> .

Last edited : 8th March 2021

Andrea Koch and Thomas Egger, Co-Leader AG5 of EUSALP, Swiss Center for mountain regions SAB. [Thomas.egger@sab.ch](mailto:Thomas.egger@sab.ch)