Project screening results

Aim

Screening of previous projects for relevant data that can be integrated into the Smart Altitude WebGIS and the publication of the results in WIKIAlps (Deliverable D.T1.1.3)

Results

All screened Alpine Space projects are listed below categorised by theme (this list may be updated during the course of the project).

Project Name	End date	Geodata	Algorithms	Potentially useful ideas/pilot areas
WebGIS, Wiki Platforms				
AlpES	12/2018*	yes	yes	yes, checked by IGF/ÖAW
WIKI Alps	12/2014	no	no	yes, checked by IGF/ÖAW
ECONNECT	11/2011	yes	(yes)	yes
Renewable energy potential and use				
Recharge.green	06/2015	yes	yes	yes, checked partly IGF/ÖAW
SHARE	07/2012	no	no	yes
NEWFOR	08/2014	no	no	yes
Energy storage				
AlpEnergy	12/2011	no	no	yes
AlpStore	12/2014	no	no	yes
Alp-Water-Scarce	10/2011	no	no	yes
Energy efficiency buildings, including user behaviour change				
THE4BEES	12/2018	no	no	yes
ClimAlpTour	09/2011	no	no	yes
CESBA Alps	12/2018	no	no	yes
PEACE_Alps	12/2018	no	no	yes
AlpBC	06/2015	no	no	yes
ENERBUILD	06/2012	no	no	yes
CABEE	06/2015	no	no	yes
Energy Efficiency Transport				
CO2-NeuTrAlp	01/2012	no	no	yes
PARAmount	11/2012	no	no	yes
Energy efficiency SME support, politics, promoting				
FIDIAS	06/2015	no	no	yes
IMEAS	06/2019	no	no	yes
SEAPAlps	05/2015	no	no	yes
AlpEnMat	12/2014	no	no	yes
ALPSTAR	06/2014	no	no	yes
Greta	?	?	?	?

Detailed results per project

AlpES

Project end date: 12/2018 Project homepage: http://www.alpine-space.eu/projects/alpes/en/home

Transfer to Smart Altitude:

- IGF/ÖAW is project partner and will integrate the gained expertise and platform development in Smart Altitude
- WebGIS development and functions will be used (www.alpes-webgis.eu)
- WIKIAlps platform will be used (www.wikialps.eu)

WIKIAlps

Project end date: 31/12/2014 Project homepage: http://www.wikialps-project.eu/Pages/default.aspx and http://www.alpine-space.org/2007-2013/projects/projects/detail/WIKIAlps/show/index.html

Transfer to Smart Altitude:

- IGF was project partner, WIKIAlps was already further developed in AlpES project, so project results, output (mainly WIKIAlps) and expertise are integrated into Smart Altitude project.
- The wiki will be further developed in Smart Altitude, it will contextually grow in article count.

ECONNECT

Improving Ecological Connectivity in the Alps Project end date: 30/11/2011 http://www.alpine-space.org/2007-2013/projects/projects/detail/ECONNECT/show/index.html

- output: http://jecami.eu/
- Potentially interesting layers (geodata) Patch Cohesion COH Landscape Heterogenity and Edge Density Landscape Shape Index - Relevant for migration of species in an area of interest could be interesting for Smart Altitude considering new buildings, barriers or landscape changes because of energie gain or use - Environmental Protection ENV: International Protected Areas -Similar to IGF own Protected Areas - CSI - Continuum suitability index (also classified)
- Potentially interesting tool: CSI Example application: red deer friendly environment of an
 example ski area? Described in the tutorial: http://jecami.eu/doc/Intro.pdf "These results can be
 compared with optimal results for a red deer (in red). As most indicators show, the area is
 almost optimal for a red deer. However, the indicators that have suboptimal values are Land
 Use and Infrastructure. This is due to the populated regions and to the numerous skiing
 infrastructure."

Transfer to Smart Altitude:

• Some data could potentially be interesting: forest areas, lakes... BUT available only for the

Alpine Convention Area not for (whole) Alpine Space; data cannot easily embedded – not even through ArcGIS Server after tutorial description (Server URL:

http://webgis.nationalpark.ch:6080/arcgis/services is not working anymore?)

- If data are really useful for Smart Altitude, we could request data.
- Tutorial shows a good example of a WebGIS Tutorial. We already have our own AlpES WebGIS tutorial with a similar structure.
- If we should calculate renewable energy potential in ski resorts or municipalities and take into account if solutions are wild animal friendly, we could consider the CSI tool for animal friendly environment/paths or link to JECAMI WebGIS

Recharge.green

Balancing Alpine energy and nature Project end: 2015

- General information/Abstract: "The Alps have great potential for the use of renewable energy. Thereby they can make a valuable contribution to mitigating climate change. This, however, means increasing pressures on nature. What could be the impact of such changes on the habitats of animals and plants? How do they affect land use and soil quality? How much renewable energy can reasonably be used? The project recharge.green brings together 16 partners to develop strategies and tools for decision-making on such issues. The analysis and comparison of the costs and benefits of renewable energy, ecosystem services, and potential trade-offs is a key component in this process. The project will last from October 2012 to June 2015 and is co-financed by the European Regional Development Fund in the Alpine Space Programme." Source: http://www.recharge-green.eu/project/
- Approach: "technical and economic potentials for the renewable energy sources biomass, hydropower, wind and solar in the Alpine region, while at the same time elaborating rankings of hotspots with respect to ecosystem services, most notably biodiversity and soils" http://www.recharge-green.eu/approach/
- Related WebGIS: http://jecami.eu/
- Project results to be downloaded: http://www.recharge-green.eu/downloads/
- interesting tools: Alpine Area r.green and Pilot region r.green
- Alpine Area r.green calculated renewable potential of four technologies: Bioenergy, Windpower, Hydropower and Solar Potential in the Alpine Convention – available in JECAMI WebGIS - Except of Solar Potenzial there are not much result pixels over the whole area -Output raster has a very coarse resolution of approximatively 5*10km - No legend to the output colors available.
- More information on the tools and models developed by recharge.green is available in the fact sheets, see http://www.recharge-green.eu/approach/
- Pilot region r.green Results with higher resolution for two pilot regions (Triglav for example) -Tool available only for forest biomass and hydropower technologies http://www.recharge-green.eu/wp-content/uploads/2015/02/Poster_r-green_v4.pdf (good overview of the two tools) - These two tools, are open source on GRASS GIS available https://grass.osgeo.org/grass74/manuals/addons/r.green.hydro.html https://grass.osgeo.org/grass74/manuals/addons/r.green.biomassfor.html https://grass.osgeo.org/grass74/manuals/addons/r.green.hydro.technical.html
- List of Input datasets (to be checked, if available at high resolution): No information found to the resolution needed for the DEM and DTM to receive useful results
- Tool 1 Forest Biomass http://www.recharge-green.eu/wp-content/uploads/2012/12/r.green_.biomass.pdf - Mandatory

data input: - Forest stand map with yield and increment values - Forest management and treatment - Ordinary and forest road network - Water network (possible) - Digital elevation model (possible) Optional: - Soil data (texture, depth, fertility) - Lakes (possible) - Protected Areas (possible) - Fire risk - Costs and marked price of different wood typologies - Level of adopted machanization - Except of the few possible ones, all other datasets are not open source data but must have a high resolution to fit the needs of Smart Altitude. - Data Source of the present project: "Data were provided by local or regional administrators in the pilot areas and, when necessary, integrated with Eurac database." - Contact person(s): Marco Ciolli, Ph.D., University of Trento

• Tool 2 Hydropower

http://www.recharge-green.eu/wp-content/uploads/2012/12/r.green_.hydro_.pdf Mandatory: -Raster file with discharge values along the rivers - Raster file with environmental flow - Digital terrain model - Shapefile with existing intakes, reservoirs and hydro plant (ID, capacity, kind of turbines) - Areas where hydro plants are forbidden Optional: - Lakes, streets, weirs, electricity grid, parks, area of particular interest - Geologic and soil map, cadastre map - Duration curves, maximum distance between intake and restitution, minimum distance between restitution and the following dam, increasing of environmental flow - Their Data source: "Data were provided by local or regional administrators from pilot areas." - Responsible Partner(s) EURAC

- Tool 3: Solar PV http://www.recharge-green.eu/wp-content/uploads/2012/12/r.green_.solar_.pdf Mandatory: - Raster file with the elevation (DTM) Optional: - The efficiency value of different technologies - Lakes, streets, electricity grid, parks, area of particular interest, urban areas... -Economics values and costs
- Tool 4: Wind http://www.recharge-green.eu/wp-content/uploads/2012/12/r.green_.wind_.pdf Mandatory: - Raster file with wind velocity at different altitude - Digital terrain model Optional: -Lakes, streets, electricity grid, parks, area of particular interest - Geologic and soil map, cadastre map

Transfer to Smart Altitude These two tools/algorithms/GRASS scripts sound interesting but there are critical points to discuss:

- Input data are mostly not available. Not available for the whole Alpine Space. We would have to check, if all Living Labs Ski resorts have all those data (see last input data block) at their disposal in an adequate high resolution. Additionally we could contact r.green@eurac.edu for an existing database. This database would be probably very coarse at Alpine Space level (10km pixels are not interesting for ski resort high resolution calculations).
- In any case, to adapt these tools, collect data, prepare and integrate data in our database/WebGIS, create an adequate interface and complete the other technologies would need a lot of time both for energy experts as well as WebGIS/GIS experts for finding a useful agreement and implementation, it is to decide in project consortium, if main part of IGF-time should be used to calculated renewable potential in the three Living Labs. Is usage/output expected to be useful enough in Smart Altitude?
- Only forest biomass and hydropower available not all four or more technologies, incomplete impression of potential, is there enough expertise in our project consortium to calculate all possible other renewable technologies, that would make sense in a ski resort?
- Hydropower is very difficult to calculate for a big area. Furthermore it can be presumed, that ski resorts know very well if hydropower could be used in their territory or area of influence. Likely the renewable potential in general is well known and can be calculated in detail only by ingenieurs at a very high resolution, in which general GIS tools are not appropriate
- Renewable potential is either known or has to be calculated by engeneers in detail
- Forest biomass as renewable potential competes against forest as protection forest for example against avalanches, a very important function in ski resorts; ski resorts probably know very well,

if their forest is needed or if significant amount of wood can be transported not to cheap or complicated because of topographic limitations to use it for regional energy production

SHARE

Sustainable Hydropower in Alpine Rivers Ecosystems Project end date: 31/07/2012 http://www.alpine-space.org/2007-2013/projects/projects/detail/SHARE/show/index.html

Transfer to Smart Altitude:

• Only relevant, if hydropower is planned in or for a ski resort

NEWFOR

NEW technologies for a better mountain FORest timber mobilization Project end date: 31/08/2014 http://www.alpine-space.org/2007-2013/projects/projects/detail/NEWFOR/show/index.html

Transfer to Smart Altitude:

• Useful, if forest management is an issue

AlpEnergy

Project end date: 31/12/2011 http://www.alpine-space.org/2007-2013/projects/projects/detail/AlpEnergy/show/index.html

- Objectives: http://www.alpenergy.net/images/stories/Whitebook_AlpEnergy_version_n.4.pdf p.5
- AlpEnergy deals with VPS
- VPS definition (p15) "A Virtual Power System integrates, manages and controls distributed energy generators and storage capacities and links their technical operation to the demand of consumers and the energy market."
- Guideline for Regional Decicion Makers and Practitioners: "Sustainable Power Systems for the Alpine Space". Abstract, Relevance and Key Achievements and Case Studies see:

http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/AlpEnergy_FinalAchievementsS ummary.pdf

• Several ideas implemented in Case Study Areas (see p.4), eg. energy management system for public facilities and intelligent regulation of public lighting

Transfer to Smart Altitude:

 Case studies could be interesting for contextual ideas of (renewable) energy (storage) solutions and efficient use/control mechanism.

AlpStore

AlpStore: Strategies to use a variety of mobile and stationary storages to allow for extended accessibility and the integration of renewable energies Project end date: 31/12/2014 http://www.alpine-space.org/2007-2013/projects/projects/detail/AlpStore/show/index-2.html

Transfer to Smart Altitude

• Storage concept for renewable energy (Smart Storage and Mobility) could be contextually interesting

Alp-Water-Scarce

Project end date: 31/10/2011

http://www.alpine-space.org/2007-2013/projects/projects/detail/Alp-Water-%20Scarce/show/index.htm

Water management strategies against water scarcity in the Alps

Transfer to Smart Altitude:

• Maybe useful, if considering installation of storage lakes for snowmaking with future scenarios.

THE4BEES

Project "THE4BEES – Transnational Holistic Ecosystem 4 Better Energy Efficiency Through Social Innovation".

Project end date: 15/12/2018

Contact: http://www.alpine-space.eu/projects/thefourbees/en/contact

- About: "THE4BEES focuses on the behavioural changes of users in public buildings needed to achieve reduction of energy consumption. Such changes will be originated by the use of innovative ICT applications developed by a transnational ecosystem. Those applications will be used by the target groups in the demonstration sites (schools, houses, factories) to encourage behavioural changes for energy efficiency and carbon footprint reduction" http://www.alpine-space.eu/projects/thefourbees/en/about
- Project video: http://www.alpine-space.eu/project-news-details/en/1750
- For communication/publishing purposes: Create your own story including data etc with storytelling tools described here: http://www.alpine-space.eu/projects/thefourbees/publication/the4bees wpt3 4 171109 vf.pdf
- Interesting information from http://www.alpine-space.eu/projects/thefourbees/publication/the4bees_deliverable211-212_iree s_final.pdf: Important issues in the very useful projects many energy related projects listend (p.11) and existing Energy related Android-Apps (Energy-check-App, Joule-Bug etc) (p.14).
- Methodological framework for CCLabs: http://www.alpine-space.eu/projects/thefourbees/publication/methodological-framework-for-cc-l abs-final.pdf
- Dashboard for evaluators: http://www.alpine-space.eu/projects/thefourbees/publication/the4bees_wpt3_5_170920.pdf "Big

Data Europe Conference THE4BEES will be presented during this worshop: Smart Data Platform: Big Data for energy efficiency projects (Dr. Tatsiana Hubina, CSI Piemonte Energy Expertise Unit, Turin)" http://www.alpine-space.eu/project-event-details/en/731

Transfer to Smart Altitude:

- ideas to spread the awareness of importance of energy reduction/efficient use can be found could be also interesting for skiers [] hotels, restaurants and other public buildings to reduce carbon foot print (storytelling software, useful android-app)
- Dashboard (example) looks nice for use/replication: http://www.alpine-space.eu/projects/thefourbees/publication/the4bees_wpt3_5_170920.pdf
- To influence the user behaviour (energy reduction) could play an important role also in ski resorts [] project item could be to show skiers how to ... sensibilize and stimulating visitors and workers for energy efficienz in buildings
- Could we also use storytelling to change user behaviour to more energy efficient use?
- Should we also create a project video?
- Good screening documentation: http://www.alpine-space.eu/projects/thefourbees/publication/the4bees_deliverable211-212_iree s_final.pdf

ClimAlpTour

"CLIMATE CHANGE AND ITS IMPACT ON TOURISM IN THE ALPINE SPACE" Duration: Start 01/09/2008 - Closure 01/09/2011

• Overall objective: "The project aims at dealing with the internationally recognized issue of the effects of climate change on alpine tourism, with reference both to winter tourism and sports and to alpine all-season tourism. Alpine tourism needs to be rethinked and both public institutions and private stakeholders have to meet the challenge of a new idea of tourism which goes beyond the traditional vision of winter sports and other typical alpine tourism activities. To analyze adaptation and management strategies for

tourist sector which better fit in the alpine region, considering changes in customer perception and new alpine strategies for tourism industry; To build a web electronic tool for stakeholders being able to make a first assessment of the local impact of C.C. and to provide hints for possible adaptation

Strategies"

http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/Presentation_of_project_a ctivities_and_results.pdf

- Partners: http://www.alpine-space.org/2007-2013/fileadmin/media/General_DowInloads_I_P/0-POSTCARDS /1-ClimAlpTour.pdf
- High quality data collection for environmental, physical and socio-economic categories
- 22 Pilotregionen in Alpine Convention Area data only for those pilot regions!
- Final report:

https://w3-mediapool.hm.edu/mediapool/media/fk14/fk14_lokal/diefakultt_1/forschungundprojek te/climalptour/ClimAlpTour_Abschlussbericht.pdf

Transfer to Smart Altitude

• Cite contextually things; for example: Impacts of climate change on winter tourism "Cross-

country skiing is subject to the risk of little or no snowfall in individual years, which can make the activity impossible in the long run. [...] Alpine skiing is the tourist activity most severely affected by climate change. Moreover, technical adaptation measures (such as artificial snow production, etc.) will not be able to fully compensate for the lack of natural snow, unless there is exceptional technical progress in the future".

https://w3-mediapool.hm.edu/mediapool/media/fk14/fk14_lokal/ diefakultt_1/forschungundprojekte/climalptour/ClimAlpTour_Abschlussbericht.pdf (p.22).

• Check Adaptation strategies for single pilot regions; are there useful ideas for ski resorts related to energy efficiency?

CESBA Alps

CESBA: Common European Sustainable Built Environment Assessment https://www.cesba.eu/ 3 Alpine Space Programme: CESBA Alps, Greencycle & Med Duration: December 2015 until December 2018 https://www.regio-v.at/cesba-alps

- Objectives: "While sustainability assessment tools are already well-established for buildings and small urban areas, such tools do not yet exist for the built environment at the level of territories. CESBA Alps aims to improve the sustainability of the Alpine built environment through the development of the first assessment tool at territorial scale, which will be contextual-ized to regional specificities. Through objective criteria and performance indicators ad-dressing all dimensions of sustainability, the tool will support the sustainability assessment of a territory, the definition of objective performance targets, the decision making in plan-ning processes and the implementation and monitoring of effective low carbon policies." "9 local CESBA Committees (CLCs) will be developed to implement and test the CESBA STT tool in the pilot regions." http://www.alpine-space.eu/projects/cesba-alps/en/about
- CESBA Alps Sustainable Territories: "Currently available sustainability assessment tools cover buildings and small urban areas, with no support for the territorial scale, typical in the rural, low density Alpine regions. The "CESBA Alps" project aims to facilitate the development, exchange, and implementation of innovative policies and plans for energy planning at territorial level based on common assessment tools. By developing a transnational assessment framework and an incentive for sustainable and low carbon construction and economy, the project will improve the sustainability and energy efficiency of the Alpine built environment." "The Regional Development Vorarlberg (Regio-V) is one of ten project partners. Together with the energy region Leiblachtal Regio-V wants to develop instruments for energy planning in the valley, set up structures for a long-term monitoring and develop an incentive for continuous improvement. Thereby the partners want to contribute to achieving energy self-sufficiency in Vorarlberg." http://www.alpine-space.eu/projects/cesba-alps/en/about

Transfer to Smart Altitude:

- Use of outputs: "generic transnational assessment framework for assessment at territorial scale, a set of harmonized, regionally contextualized assessment tools for territories, a guideline for the implementation of assessment tools in policies and territorial plans, a toolbox for the adoption of strategies for sustainable and low carbon territories, the creation of Local CESBA Committees" if they can be found... http://wiki.cesba.eu/wiki/CESBA_Alps
- Several documents of Vorarlberg here: https://www.energieautonomie-vorarlberg.at/de/downloads maybe could serve for ideas in ski

resorts

PEACE_Alps

"Pooling Energy ACtion and Enhancing their implementation in the Alps" Duration 12/2015 – 12/2018 http://www.alpine-space.eu/projects/peace_alps/en/home contact: http://www.alpine-space.eu/projects/peace_alps/de/contact

- Objective: supports municipalities in their efforts torwards the energy transition. http://www.climatealliance.org/activities/projects/peace-alps.html
- won the EU Sustainable Energy Week Award 2018! http://ec.europa.eu/regional_policy/en/newsroom/news/2018/06/06-07-2018-interreg-project-pe ace-alps-wins-the-eu-sustainable-energy-week-award-2018
- "Aus der Studie ging hervor, dass die größten Schwierigkeiten in drei Hauptbereichen auftreten, d.h. Energiebuchhaltung und -management, Reduzierung des Verbrauchs von öffentlichen Gebäuden und Anlagen und die Bestimmung von Maßnahmen zur lokalen Anpassung an den Klimawandel." Für all diese Interventionsbereiche hat jeder der Projektpartner in enger Zusammenarbeit mit Energie-Ansprechpartnern der beteiligten Kommunen eine Reihe von praktischen Instrumenten entwickelt."

https://alpenallianz.org/de/aktuell/peace_alps-von-der-theorie-zur-praxis

Project video: https://www.youtube.com/watch?v=ERY7NxEFTeM

Transfer to Smart Altitude:

- promising approach, that is similar to ours. Ask for detailed results/tools/strategies: "Mutual learning approaches and their application are excellent instruments for improving the implementation of local and regional authorities' climate change and energy policies. They are based on the concept that people who work on similar issues and have similar roles and working backgrounds in their cities and regions can share experiences and learn from each other. These people can be regional, city and community experts, decision makers or localstakeholders". http://www.alpine-space.eu/projects/peace_alps/en/project-results
- adapt this to learning process / trainings / extern communication parts?
- check developed practical instruments

AlpBC

Alpine Building Culture Project end date: 30/06/2015 http://www.alpine-space.org/2007-2013/projects/projects/detail/AlpBC/show/index.html

• Construction and renovation of buildings integrating energy efficiency in planning http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/AlpBC_Final_Report.pdf

Transfer to Smart Altitude:

• Potentially useful if buildings will be part of the project focus

ENERBUILD

ENERGY Efficiency and Renewable Energies in the BUILDing Sector Project end date: 30/06/2012 http://www.alpine-space.org/2007-2013/projects/projects/detail/ENERBUILD/show/index.html

• construction sector: less co2 energy production (e.g. integration of photovoltaics in buildings, participation model on green power plants for local supply and concepts for heat supply)

Transfer on Smart Altitude:

• Does construction of buildings play a role in the project?

CABEE

Capitalising Alpine Building Evaluation Experiences Project end date: 30/06/2015 http://www.alpine-space.org/2007-2013/projects/projects/detail/CABEE/show/index.html

• outputs: CESBA wiki and Alpine-wide guideline of Nearly-Zero-Emission-Buildings (whole building life cycle)

Transfer to Smart Altitude:

• Interesting potentially for buildings in ski resorts, if construction considered

CO2-NeuTrAlp

CO2-Neutral Transport for the Alpine Space Project end date: 31/01/2012 http://www.alpine-space.org/2007-2013/projects/projects/detail/CO2-NeuTrAlp/show/index.html

Transfer to Smart Altitude:

• Is shuttle/bus transfer of skiers/visitors within project parameters? Interesting for transport technologies based on renewable energies and energy efficiency (electric mobility?)

PARAmount

imProved Accessibility: Reliability and security of Alpine transport infrastructure related to mountainous hazards in a changing climate Project end date: 30/11/2012 http://www.alpine-space.org/2007-2013/projects/projects/detail/PARAmount/show/index-2.html

Transfer to Smart Altitude:

• Potentially contextually interesting, dealing with Alpine transport infrastructure

FIDIAS

Innovative Financial Instruments for Sustainable Development in Alpine Space Project end date: 30/06/2015 http://www.alpine-space.org/2007-2013/projects/projects/detail/FIDIAS/show/index.html

• About: "Given the increasing difficulties of SMEs when seeking suitable financial support, the FIDIAS project aims to reinforce local, regional development plans and entrepreneurship through the implementation and piloting of innovative financial instruments and services supporting eco innovation and/or sustainable development actions"

https://www.euromontana.org/wp-content/uploads/2014/08/fidias.pdf

- Info: SMEs: "Small and medium-sized enterprises", represent 99% of all businesses in the EU.
 Abstract see
- http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/FIDIAS_Final_achievement s_summary.pdf
- Final reports: http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/FIDIAS_Pilot_Action_final_r eport.pdf and http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/FIDIAS_policy_reccomend ation_and_pilot_action_evalutaion_final.pdf
- Further resources:
 http://www.alpine-sp

http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/FIDIAS_services.pdf and http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/FIDIAS_bestpractice-identi fication.pdf

Transfer to Smart Altitude:

- Funding possibilities for ski resorts eco-innovations? See https://www.support2finance.eu/default.asp
- "Who are the beneficiaries? Small and medium enterprises, financial and business intermediaries, local and regional operators. They will be up-to date on intangible assets evaluation methods and funding opportunities targeted on eco-innovation, energy efficiency and renewable energies." Check financial support for green-technology/green-business model

IMEAS

Integrated and Multi-level Energy models for the Alpine Space Project end date: 30/06/2019 http://www.alpine-space.eu/projects/imeas/en/home

 Project summary: "Integrated low carbon policies and sustainable energy plans in the Alpine Space region are affected by common challenges. The future energy system, relying on renewable energies, will challenge all governance levels. Therefore, cooperation actions between all governance layers from villages to countries can help to make the Alpine Space a successful partner in the EU "new energy deal" for energy efficiency and renewable energy. The IMEAS multi-disciplinary team of technical, sociological, territorial partners, will develop a consistent methodology and practical guidance for the creation and integration of roadmaps based on multi-level approaches to climate change mitigation, energy innovation potentials, economic structures and control of energy plans. Experiences from some areas will help fill gaps in others through a cooperative and transnational approach capitalising the heterogeneity of the Alpine Space, their different cultures, planning principles and practice with software tools. To enhance the ability of public administrations and other entities to plan sustainable energy policies and select the right measures/instruments to implement them on a multi-level governance perspective, IMEAS will propose a new integrated approach to participatory roadmap development."

http://www.alpine-space.eu/projects/imeas/en/about/the-project/overview

- IMEAS addresses common challenges on smart, sustainable and inclusive growth in the AS:
- 1. enhance knowledge on territorial energy systems;
- 2. boost policymaking, planning and decision-making;
- 3. improve capacity to select and use the right tools to develop/implement integrated energy plans/measures;
- 4. support Multi Level Governance;
- 5. develop a low carbon/low emission economy making use of local resources. http://www.alpine-space.eu/projects/imeas/en/about
- current project, so has no results yet http://www.alpine-space.eu/projects/imeas/en/project-results

Transfer to Smart Altitude

• Ideas sounds good and related (synergies/cooperation, co2 reduction,etc.), so watch this project for results that might be useful for Smart Altitude

SEAPAlps

Supporting local authorities in the implementation of Sustainable Energy Action Plans in the Alpine Space Area Project end date: 31/05/2015 http://www.alpine-space.org/2007-2013/projects/projects/detail/SEAPAlps/show/index.html

Transfer to Smart Altitude:

• sustainable energy action plans and implementation examples might be useful.

AlpEnMat

Project end date: 31/12/2014 http://www.alpine-space.org/2007-2013/projects/projects/detail/AlpEnMat/show/index.html

- About: "During the Alpine Space Programme 2007-2013, co-funded by the European Regional Development Fund, various projects have been dealing with low-carbon economy, energy efficiency and sustainable mobility. Dozens of enterprises have been involved in these projects and could prove their ability to develop and deploy innovative solutions in the field of energy efficiency and renewable energies as well as sustainable mobility".
- What they do: "AlpEnMAT fosters innovative technology and provides innovation at the level of cooperation among different sectors and actors for allowing a wider application of innovative energy and mobility technology, thus triggering related positive effects on more balanced

territorial and sustainable development, improving the access to energy and information services, creating new labour and growth opportunities, and enhancing the quality of life and competitiveness of the Alpine Space." Project website: https://www.alpenmat.eu/

* Objectives:

- 1. HELP them better promote the products and services they have brought to the projects in period 2007-2013;
- SHOW that specific virtues and capabilities of providers, the rich and diversified economic structure and the attractiveness of the Alpine Space itself can be exploited to create a unique promotion scheme for energy and mobility solutions;
- 3. CREATE a spirit of togetherness with providers and suppliers of renewable energy and sustainable mobility technologies in the Alpine Space countries;
- 4. PROVE that the innovative and portable concept of the AlpEnMAT conferences complements existing promotion schemes and helps less developed territories gain visibility;
- 5. STIMULATE and strengthen innovation as well as joint promotion of innovative products." https://www.alpenmat.eu/objectives
- http://www.jam-bite.eu/ "Site is offline for maintenance"
- Handbooks and case studys: https://www.alpenmat.eu/download

Transfer to Smart Altitude:

• Is promoting products and services (e.g. a promotion scheme for energy and mobility solutions) part of the Smart Altitude project? Then consider this concept for events and networking activities for promoting of Alpine Space products via Jam Bite, if available (platform closed?)

ALPSTAR

Alpstar. Toward Carbon Neutral Alps – Make best Practice Minimum Standards Closing date: 30/06/2014 Project website in slovenish: http://alpstar-project.eu/ Project consortium see http://wiki.cesba.eu/wiki/ALPSTAR

- Main objective: "To move toward carbon neutral Alps by making best practice minimum standard!" http://www.cipra.org/en/pdfs/1185/view] * Goal: carbon neutrality on regional and local level in 12 pilot regions [[http://www.alpenstaedte.org/en/projects/climate-energy/alpstar
- Further objectives see http://wiki.cesba.eu/wiki/ALPSTAR
- Energy is one out of 8 thematic fields of the pilot actions
- 1. Energy saving: from fossils to local renewable energy
- 2. GhG emissions reduction: refurbishment of public buildings
- 3. Renewable energy development: long distance district heating systems
- Outputs
- 1. Guideline Toward carbon neutral Alps ALPSTAR
- 2. Habitat du Queyras et énergie
- 3. Best-practice platform ALPSTAR
- Success factors: "It has proven to be most effective to find key figures or motivated people to join the actions, form cooperation with experienced partners and use existing networks."

http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/ALPSTAR_FinalAchieveme ntsSummary.pdfand "Partners put the projects' success down to continuous cooperation and communication between various stakeholders, the companies involved, the political level and the population. In particular, one of the key factors was the awareness in policy boards and within the populations. The presence of financing opportunities and the bankability of actions was also deemed vital."

http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/ALPSTAR_Final_Publicatio n_EN.zip

- Final publication notes: http://www.alpine-space.org/2007-2013/uploads/tx_txrunningprojects/ALPSTAR_Final_Publicatio n_EN.zip
- Ideas from fiche-2 WP4: Alpine Bus, Wind energy plant (biomass power stations), photovoltaic system & solar system

Transfer to Smart Altitude:

- Individual energy-proposals/solutions of pilot regions could serve as ideas for ski resorts as well (they calculated the local renewable potential for all pilot regions)
- Deals also with energy measurement and user behaviour

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Permanent link: http://www.wikialps.eu/doku.php?id=wiki:project_screening



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