



Deliverable number D.T.2.4

SUMMARY DOCUMENT OF NEW CLIMATE SUPPORT SERVICES

Document in EN summarizing the new services developed in the target regions, key learnings and the activities undertaken to promote these services.

Activity A.2.4: Implementation and Promotion of Climate Support Services

Climate support services will be implemented according to the plans and promoted to other local public authorities within the targeted region during at least one regional event.

New services will be tested during the pilot activities in AT2.2.

One promotional activity will be undertaken by each support organization to raise awareness of local municipalities in their region.

Contribution of all PPs.

June, 2025

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DOCUMENT CONTROL SHEET

Project reference	
Full title of the project	ADAPTation Capacity Strengthening for Highly Affected and Exposed Territories in the Alps NOW
Acronym	ADAPTNOW
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Project coordinator	AURA-EE

Short Description
<p>ADAPTNOW will work on strengthening the adaptive capacity of HAET by implementing and evaluating the available climate adaptation and risk mitigation management tools and practices, assessing the Climate Adaptation Plans and developing Climate Services to support the territories and their local public authorities. Ultimately, ADAPTNOW aims at making risk and adaptation planning more integrated, collaborative and inclusive. This will be reached through a more dynamic and participatory planning process in which all local stakeholders need to be involved.</p>

Document Details	
Title of document	Summary document of new climate support services
Action	AT.2.4 Implementing and promoting climate support services
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ABBREVIATIONS

CA	Climate Adaptation
CSS	Climate Support Service
LP	Lead Partner
PL	Pilot
PP	Partner
RP	Reporting Period
RM	Risk Mitigation
TT	Target Territory
WP	Working Package
WPL	Working Package Leader

INTRODUCTION

As stated in the project proposal, the objective of this deliverable (D2.4) is to summarize the new climate support services implemented in the partner regions.

Drawing on pilot actions and the enhanced knowledge (T1), the regional support organizations will develop climate services to assist public authorities. These services will focus on capacity building, data sharing, financing and risks and awareness raising.

Climate support services will be implemented according to the plans and promoted to other local public authorities within the target regions, including at least one regional event.

WPL provided an Excel template as an overview and organized a webinar in June 2024 to facilitate the exchange of plans among the PPs.

In Deliverable 2.2, the partners already described their plans to introduce climate services.

PP 1, 2, 3, 6, 7, 8, and 9 are developing services with the support of local partners and with contributions from all PPs. For the purpose of this deliverable, additional questions were developed and sent to the partners.

OVERVIEW

- 1 Active Auvergne-Rhône-Alpes Energy Environment Agency France (FR)
- 2 Active Regional Agency for Infrastructure development, building Renovation and Energy of Liguria – IRE spa
- 3 Active EURAC Research Italia (IT) EURAC Research PP
- 4 National Research Institute for Agriculture, Food and the Environment France (FR) INRAE PP
- 5 Universität der Bundeswehr München Deutschland
- 6 Active iisBE Italia R&D Italia (IT) iisBE PP
- 7 Active Energy and Environmental Centre Allgaeu Deutschland EZA! PP
- 8 Active Energy Institute Vorarlberg (AT)
- 9 Active Energy Agency of Podravje – Institution for Sustainable Energy Use Slovenia (SI) ENERGAP PP
- 10 Municipality of Genoa Italia (IT) CDG PP

SUMMARY DOCUMENT OF NEW CLIMATE SUPPORT SERVICES

1. Auvergne-Rhône-Alpes

SERVICE 1

Name of the Service:	ClimaSTORY®
Coordinator of the Service:	Laurence Monnet
Beneficiary of the Service:	Local and regional authorities
Areas of application of the Service:	Regional area

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

- awareness raising
- information about risks

WHICH HAZARDS AND SECTORS ARE AFFECTED?

- Agriculture and Forest; Industry; Tourism, Trade and Crafts; Health and Safety; Development, Urban infrastructure and Management of Resources and Biodiversity

OVERVIEW OF THE SERVICE:

In 2019, the agency launched ClimaSTORY®, a pedagogical tool designed to foster collective reflection and raise awareness among people with little or no knowledge of climate change adaptation. Intended for all types of territorial actors, this educational tool presents a fictional territory facing the effects of climate change and explores adaptation solutions across five economic sectors.

Participants role-play as representatives of one sector and collaborate to develop strategies to address the identified challenges.

The tool encourages cooperation between administrative departments, local authorities, and informed citizens, helping them reconsider their actions through the lens of climate change adaptation.



Fig. 1 First meeting in Grenoble on December 14, 2024



Fig. 2 Climastory workshop in Grenoble on February 9, 2024

DESCRIBE THE PROCESS OF IMPLEMENTATION:

At the regional level, AURA-EE, in collaboration with GAM, shared the results of the ClimaSTORY® user survey to support further development of the tool.

Two meetings were held with members of GAM's Risk and Resilience Network (December 14, 2023 and February 9, 2024), enabling them to understand the tool's role in behavior change and test it. A third codesign workshop, on May 21, 2024, validated possible adjustments. A full report was produced, and an updated version of the facilitator guide is planned for early 2026.

Initially, we:

- Introduced municipalities in GAM to existing tools for public engagement on climate risks and adaptation, including ClimaSTORY®.
- Tested ClimaSTORY® to support municipal action planning and strengthen cooperation among local actors through a sectoral approach (agriculture, industry, forest, trade and crafts; health and safety, urban planning, management of resources and biodiversity).
- Organized half-day workshops where participants used the game and provided feedback.

Following this, improvements were made to the tool based on feedback, and we proposed that the Baronnies en Drôme Provençale become a pilot site to test the second-level ClimaSTORY® version on a real territory.

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

- We presented the experimentation and the service during two regional conferences: on October 17th, 2024, and March 13th, 2025.



[*Feedback from the event: "Adaptation to climate change in territories: communities: taking action"*](#)



[*Feedback from the event: Prevention of natural risks and adaptation to climate change*](#)

- We are currently preparing a training session for existing ClimaSTORY® facilitators to update their knowledge and skills for this second-level facilitation module.

HAVE YOU ACHIEVED THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

AURA-EE successfully tested a support module and a facilitation method for co-constructing ClimaSTORY® "map and story" tools tailored to the real territory of the Baronnies en Drôme Provençale.

The local authority selected ClimaSTORY® to raise awareness among stakeholders and help them refine their adaptation strategies. To this end, a collaboration was established with the Nyonsais community center (Carrefour des habitants) to engage residents, associations, and professionals.

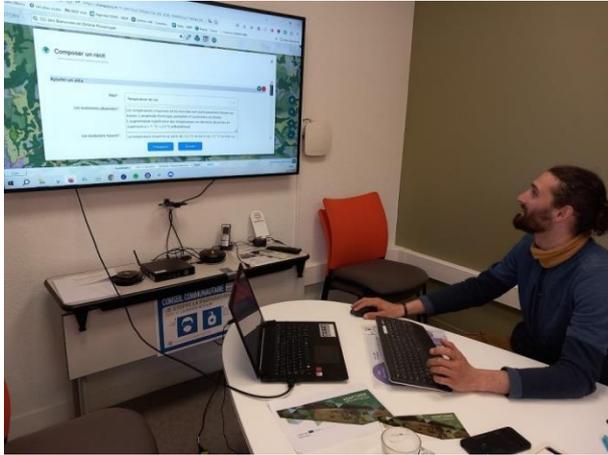


Fig.3 Preparation of the draft version in Nyons on March 22, 2024 Fig. 4 ClimaSTORY co-construction session in Nyons on June 18, 2024

With the development of a digital facilitator module and on-site coaching of the local ClimaSTORY® facilitator, AURA-EE supported the co-design of customized tools (map and narrative) for the Baronnies.

The method tested consisted of three steps, led by the ClimaSTORY® facilitator (an employee of Carrefour des habitants du Nyonsais):

- Preparation of the draft tools (March 22, 2024)
- Facilitation of a co-design session (June 18, 2024)
- Testing during a ClimaSTORY® workshop (October 1, 2024)

Through these events, ideas and proposals were collected to enrich the region's Climate-Air-Energy Plan (PCAET/SECAP) and build a compelling vision of a climate-adapted Baronnies.

The feedback from the coaching sessions will feed into the development of a second-level ClimaSTORY® training module by the end of the ADAPTNOW project.

This work confirms the effectiveness of the ClimaSTORY® approach for real territories and demonstrates its potential for replication.

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

To facilitate this process, two conditions must be met: a committed community and a facilitator trained in ClimaSTORY®. Since the ClimaSTORY® tools for a real territory reflect its specific vulnerabilities, the community must be actively involved and take ownership of disseminating these tools.

Discover more here:

<https://en.auvergnerrhonealpes-ee.fr/projects/project/climastory>

2. Municipality of Genoa

SERVICE 1

Name of the Service:	Risk perception questionnaire
Coordinator of the Service:	IRE
Beneficiary of the Service:	Citizens and stakeholder
Areas of application of the Service:	Municipality of Genoa

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

Risks & awareness raising

WHICH HAZARDS AND SECTORS ARE AFFECTED?

Hazards: Heat and cold waves, sea storms, windstorms.

Sectors: Tourism, health, urban infrastructure.

OVERVIEW OF THE SERVICE:

The implemented service consists in the reshaping of the questionnaire already developed by the Municipality of Genoa, with particular attention to the 3 risks covered by the pilot project, involving a larger and more specific sample of stakeholders.

The aim of the service is to compare the maps of real risk produced by the pilot project with those of perceived risk drawn up on the basis of the results of the questionnaire.

The analysis of the differences that will emerge from this comparison will allow to introduce specific actions aimed at filling any gaps related to the perception of risk.

The beneficiaries of the developed service are therefore the citizens, the stakeholders and the Municipality of Genoa. Citizens will benefit from more accurate and representative risk assessments, improving their safety and preparedness for potential risks. Stakeholders will acquire information on perceived risks compared to real ones, allowing them to make informed decisions and contribute effectively to risk management strategies. The Municipality of Genoa will benefit from the improvement of the risk maps and the involvement of stakeholders, which will lead to a more effective and targeted intervention to mitigate risks and protect the community.

DESCRIBE THE PROCESS OF IMPLEMENTATION:

To implement the service, we followed these steps:

- **Initial Planning:** Review the existing questionnaire from the Municipality of Genoa and identify key stakeholders and project team members.
- **Questionnaire Reshaping:** Collaborate with stakeholders to improve the questionnaire, ensuring it addresses the three specific risks and represents diverse perspectives.
- **Data Collection:** Collecting responses using both digital and traditional methods.
- **Risk Analysis:** Analyze collected data in order to compare actual and perceived risks, identifying discrepancies.
- **Reporting and Recommendations:** Compile findings into a report, providing actionable recommendations to address gaps.
- **Implementation:** Work with the Municipality and stakeholders to implement actions based on recommendations, ensuring continuous feedback and improvement.
- **Final Evaluation:** Assess the overall impact and document lessons learned for future projects.

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

- Sending to stakeholders
- Sharing in work places among colleagues
- Spreading during thematic conferences (e.g.: seminars at Genoa University)
- Information stand in San Lorenzo square (20th and 27th March)
- Publishing on CDG institutional website
- Spreading the initiative to ANCI Liguria with the aim of replicating it in other municipalities of the Liguria region

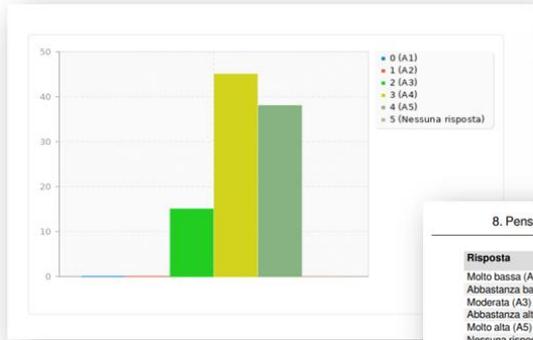
HAVE YOU ACHIEVED THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

- The questionnaire administration is ongoing and data collection so far;
- 173 questionnaires have been completed so far;
- A lot of information has been collected, in particular the levels of perceived risk regarding wind-storms, sea storms and heat and cold waves;
- Feedback was also collected to help understand the effectiveness of the communication channels used by the Municipality and to understand the margins for improvement.

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

- Avoid discrepancies in timing between technical and operational needs to compare data;
- Plan stakeholders' involvement;
- Include awareness raising strategies at the beginning of the process;
- Disseminate the initiative in the regional context so that it can be replicated.

Risk perception about windstorms



8. Penso che la probabilità che forti venti colpiscano il Comune di Genova nei prossimi 5 anni sia:

Risposta	Conteggio	Percentuale
Molto bassa (A1)	0	0.00%
Abbastanza bassa (A2)	0	0.00%
Moderata (A3)	15	15.31%
Abbastanza alta (A4)	45	45.92%
Molto alta (A5)	38	38.78%
Nessuna risposta	0	0.00%

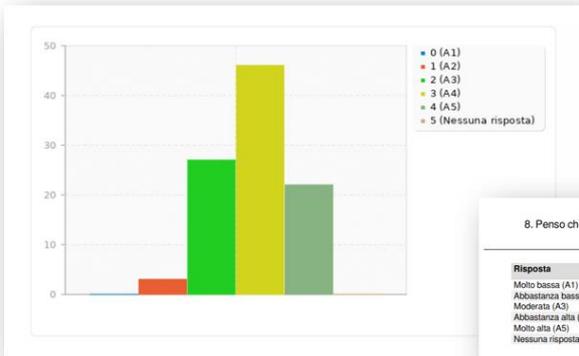
Risk perception about hot waves



8. Penso che la probabilità che ondate di calore colpiscano il Comune di Genova nei prossimi 5 anni sia:

Risposta	Conteggio	Percentuale
Molto bassa (A1)	0	0.00%
Abbastanza bassa (A2)	0	0.00%
Moderata (A3)	15	15.31%
Abbastanza alta (A4)	38	38.78%
Molto alta (A5)	45	45.92%
Nessuna risposta	0	0.00%

Risk perception about sea storms



8. Penso che la probabilità che una mareggiata colpisca il litorale del Comune di Genova nel prossimo anno sia:

Risposta	Conteggio	Percentuale
Molto bassa (A1)	0	0.00%
Abbastanza bassa (A2)	3	3.06%
Moderata (A3)	27	27.55%
Abbastanza alta (A4)	46	46.94%
Molto alta (A5)	22	22.45%
Nessuna risposta	0	0.00%

3. Autonomous Province of Bolzano

SERVICE 1

Name of the Service:	Up- and outscaling of the training on targeted and climate resilient reforestation
Coordinator of the Service:	EURAC Research
Beneficiary of the Service:	Forest department of the Autonomous Province of Bolzano, local decision makers and forest owners
Areas of application of the Service:	Autonomous Province of Bolzano

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

- **Capacity building:** The main target of the replication workshop was to sensitize and build capacity for the heads of the provincial forest offices and therefore to kickstart autonomous action at the provincial side, which ultimately would lead to a diffusion of the topic all over the province (vertical and horizontal replication). This process was supported by the provision of workshop material, which could be directly used for awareness raising across the province through its process-focus and the decision chain for climate resilient reforestation.
- **Risks & awareness raising:** Another aim of the workshop was to directly raise awareness for local decision makers and forest owners through a presentation of the topics at the local forest information days, which were held in every municipality in the Puster Valley.

WHICH HAZARDS AND SECTORS ARE AFFECTED?

- Temperature increase, gravitational hazards, heavy precipitation, drought periods.
- The affected sector is the forestry sector of the autonomous province of Bolzano, which is organized in several forest inspectorates. By scaling the results, not only the pilot area will benefit from the training, but rather all forest inspectorates with their respective peculiarities.

OVERVIEW OF THE SERVICE

The results of the workshop were to be scaled up in order to enhance knowledge and awareness for all provincial foresters by triggered autonomous provincial actions. Further did we aim of raising the awareness of local decision makers and especially forest owners by presenting the topic at local forest information days.

Co-organization and presentation of the project process and the results at a replication workshop with the main provincial actors, which initiated the process of an autonomous perpetuation and consolidation of the topic (=kickstarting actions). In parallel were the workshop materials (focus on process) published and made accessible for supporting the horizontal replication.

Summarization and simplification of the workshop contents and presentation of the topic at the local forest information days to raise awareness for forest owners and local decision makers.

DESCRIBE THE PROCESS OF IMPLEMENTATION:

- Proactive co-design of the trainings, aligned with the idea of scaling them up to the provincial level by focusing on the process of how to conduct climate-resilient afforestation, thanks to the premature involvement of actors from the provincial level.
- Assessment and follow-up meeting with the provincial actors after the conduction of the trainings and organization of next steps and responsibilities regarding a provincial consolidation workshop

- Presentation of the ADAPTNOW-project, the structure and the process of the pilot action at the provincial consolidation workshop on the 17.01.2025 to the heads of the forest offices and inspectorates (~20 persons)
- Parallel preparation of the workshop materials and distribution for horizontal replication (publicly accessible)
- Preparation of slides and materials for the broad distribution through local informational events (January 2025)

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

- Ex-post assessment of the training and identification of follow-up activities; presentation of the pilot action, the respective participatory planning process, the structure and the contents at the workshop with provincial forest offices.
- Broad dissemination of the topic and contents of the training via local forest information-days with forest owners and decision makers as the main target group.

DID YOU ACHIEVE THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

- Vertical upscaling was successful via the consolidation/replication workshop at a provincial level
- Autonomous consolidation process was kickstarted, ongoing at a provincial (finally leading to horizontal distribution) and also local level → pilot action as entry points for further actions
- Forest owners reached via existing, one of the most frequented forest-related formats (outscaling) in 15-20 forest informational events (~300 persons reached)
- Materials successfully distributed to provide more profound information for foresters in other parts of the province and interested forest owners

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

- Include replication intentions the earliest possible in the planning of the action, to proactively align the contents towards a process/adjustable decision chain.
- Concretize the needs, the knowledge base and the interest of the target group of the service as much and as early as possible to be able to identify and design respective materials (e.g. education material, modular training courses etc.)
- Set clear responsibilities for the implementation of the replication.



Fig. 2: Presentation of the process and results of the ADAPTNOW trainings on climate resilient and targeted reforestation at the internal provincial workshop for the department heads on the 17th of January



Fig. 2: Presentation of the core results of the trainings for interested forest owners at the local forest information days by the responsible forest heads

4. Municipality of Chivasso

SERVICE 1

Name of the Service:	Support to of a “climate resilient” Urban Plan, including adaptation measures to climate change.
Coordinator of the Service:	iiSBE Italia R&D
Beneficiary of the Service:	Decision-makers and technicians of the Municipality.
Areas of application of the Service:	Any Italian municipality (better if it is under review of the General Urban Plan)

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

Support to the development of a “climate resilient” regulatory urban plan of a municipality including adaptation measures to climate risk affecting it, identified through the application of quantitative indicators, selected on the basis of the climate risk considered

WHICH HAZARDS AND SECTORS ARE AFFECTED?

The service has been developed to address the extreme temperatures risk but iiSBE is developing the service also for other climate risks.

Since the service is able to identify the urban areas with the greatest climate vulnerability level to extreme temperatures, with regards to the citizens health, the health sector has been highly considered.

OVERVIEW OF THE SERVICE

The Service produces a climate risk map that highlights the urban areas with the greatest vulnerability, with respect to which it is possible to plan adaptation strategies to prevent/limit the risks related to climate change.

Quantitative indicators, selected on the basis of the climate risk considered, make it possible to tangibly select the proper adaptation measures for the specific area assessed, providing the municipality with actual numbers related to the benefits the adaptation measures can generate in the micro-urban area. Based on that, the Municipality can identify the best solutions scenario to be implemented to make the municipality more resilient to extreme temperatures risk.

Furthermore, quantitative indicators can be used also to monitor the effectiveness of the climate resilience performance over time, changing the adaptation strategies if necessary.

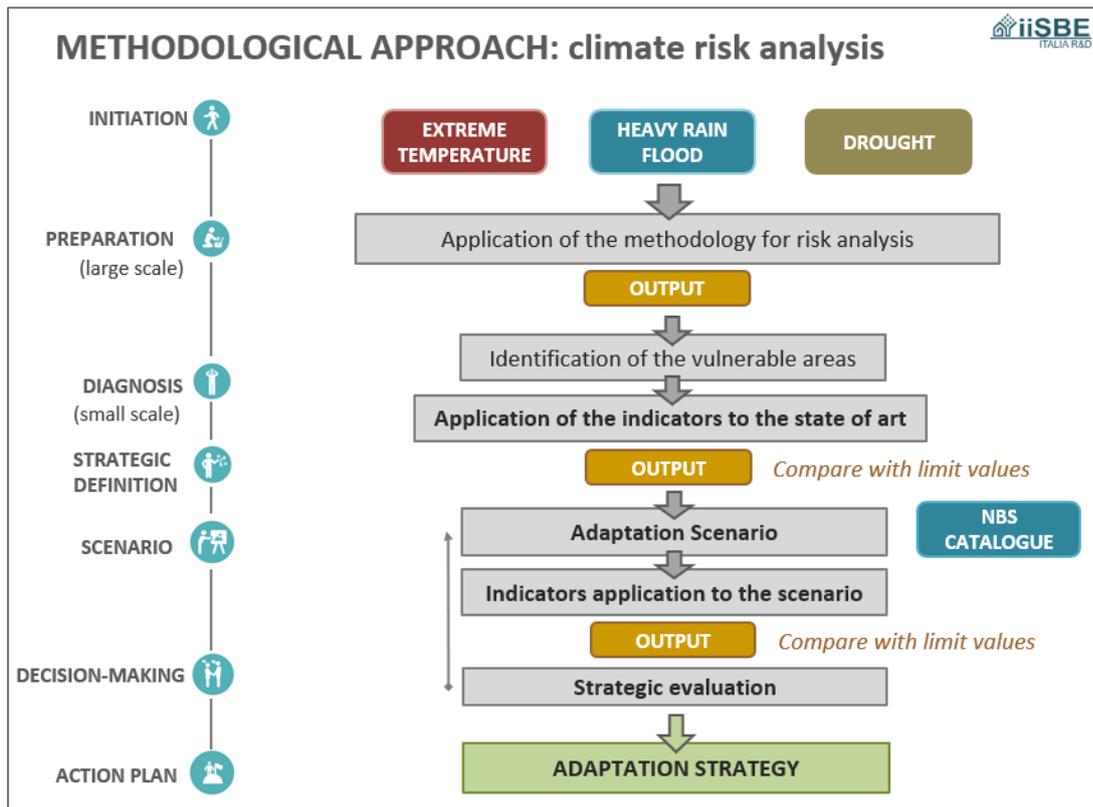
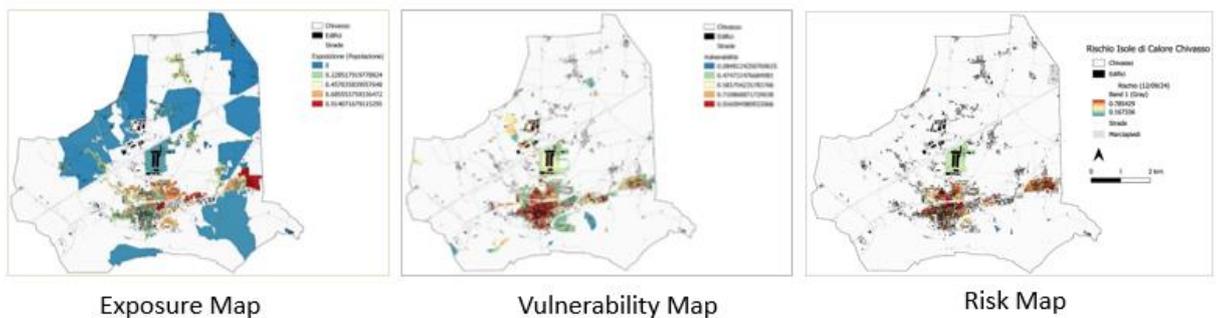


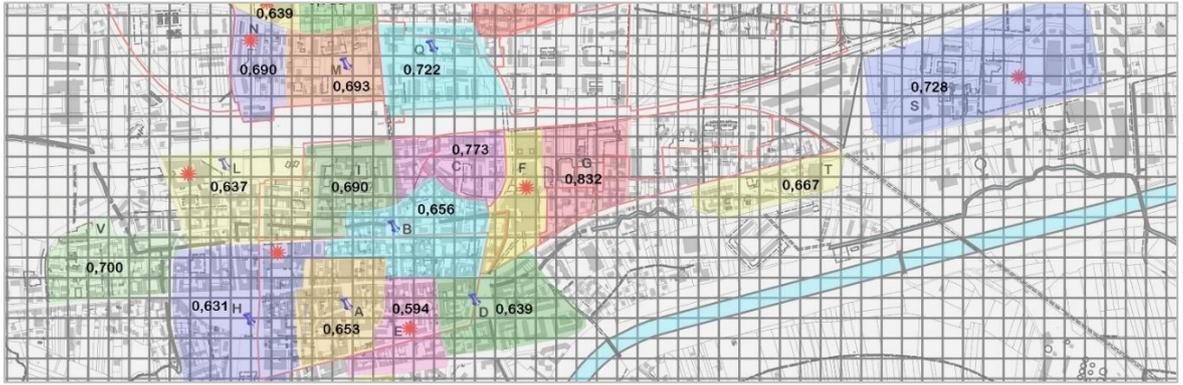
Fig 1. General methodological approach for climate risk analysis developed for Service 1.

DESCRIBE THE PROCESS OF IMPLEMENTATION:

- 1- Calculate the urban scale risk assessment of extreme temperature in relation to health through the application of the risk formula based on the IPCC AR6 and the “Climate Risk Sourcebook” developed by GIZ together with EURAC Research.



- 2- Small urban scale zoning and risk assessment: starting from the risk map developed, small urban areas, characterized by high risk, must be identified through census zones and urban morphology criteria, then calculate the risk level for each of them.



- 3- Extreme temperature assessment at small urban scale through indicators calculation: specific criteria strictly interrelated with the parameters that most influence the heat island effects must be applied to the small areas.



- 4- Development of climate adaptation measures: quantitative results, achieved through the application of the indicators, allowed to elaborate specific adaptation measures for the small urban context. Indicators will allow the city to monitor those parameters over time.
- 5- Introduction of adaptation measures in urban planning tools: those adaptation strategies and approaches must be included within urban planning instruments, in order to facilitate their application.

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

- Application for the Italian prize “Virtuous Municipalities 2024” and winning
- Application for the Regional Programme (Piedmont Region) on the ecological transition and resilience, strictly focused on Urban Forestry
- Collaborations started, on such topics, within the framework of an Interreg Central Europe project, named SuPerBE <https://www.interreg-central.eu/projects/superbe/> in which iiSBE Italia is partner
- Exchange with key stakeholders in the field of CC and sharing with them the climate service developed in ADAPTNOW
- Dissemination Event: involvement of other municipalities and start of the collaboration with Leini and Venaria municipalities
- DISTENDER workshop “Equilibrium for Climate Change” <https://distender.eu/>

HAVE YOU ACHIEVED THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

The goal related to the support of the Municipality of Chivasso in developing its Climate Resilient Urban Plan has been achieved. The Municipality, indeed, will implement the adaptation measures developed for the territory through the application of the climate service elaborated by iiSBE Italia R&D. In addition, this service has already received a prestigious reward on December 14th 2024, when the Municipality of Chivasso proudly received the first national prize "Virtuous Municipalities 2024", in the "Land Management" category, rewarding its unconventional experience in the application, within the ongoing revision of the Municipal Regulatory

Urban Plan, of an innovative methodology capable of identifying the urban areas with the greatest climate vulnerability level.

The service developed has aroused great interest from other municipalities (also outside the Piedmont Region) and other cooperation activities have already started.

Last but not least, SuPerBE Central Europe project <https://www.interreg-central.eu/projects/superbe/> will capitalize the service developed in ADAPTNOW, expanding it to other climate risks.

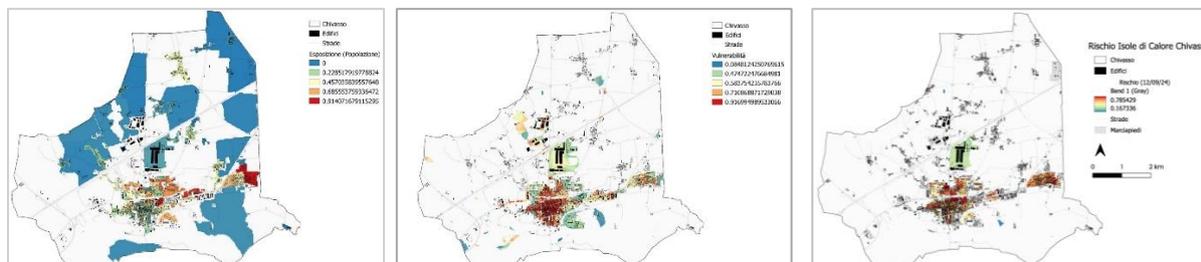


Fig 2. Exposure map, Vulnerability map and risk map elaborated for the municipality of Chivasso.



Fig 3. Pictures taken during meetings with the technical staff of the municipality of Chivasso.

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

To easily implement the Service in other countries/regions, it is fundamental to have an effective data organization within the municipality, even better if data are available on GIS format, in order to be able to produce accurate risk maps. Furthermore, cooperation among different actors of the different urban sectors within the municipality, holders of data information, is crucial, in order to get all the input necessary to perform the calculation.

Since the climate and resilient urban planning is becoming more and more fundamental to properly adapt cities to the climate change effects, knowledge and competencies in this field are crucial to properly act at local level. Improving the skills of the decision-makers and of the professionals/technicians in this field is an investment to the prosperous and resilient future of the cities and both, politicians and technicians working within the municipalities must be aware of that.

5. Allgäu

SERVICE 1

Name of the Service:	Climate adaptation package for municipalities
Coordinator of the Service:	eza!
Beneficiary of the Service:	Municipalities
Areas of application of the Service:	Allgaeu region

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

- Local climate change impact and vulnerability analysis
- Stakeholder workshop and communication

WHICH HAZARDS AND SECTOR ARE AFFECTED?

- Hazards: gravitational, heatwaves, heavy rain, depending on local climate change impacts
- Sectors: forestry, tourism, urban infrastructure, health, depending on structure of the municipality

OVERVIEW OF THE SERVICE

- Climate check: local climate change impact and risk analysis
- Participation: stakeholder workshop to present climate check and develop possible local measures
- Communication: present results in local council and community newsletter / media

DESCRIBE THE PROCESS OF IMPLEMENTATION:

1. Climate check: Analysis of local climate change impacts and vulnerability (temperature change, heavy rain / flooding)
2. Workshop with municipality and local stakeholders:
 - introduce expected local climate change impacts
 - identify and prioritize local risks
 - collect which measures have already been implemented
 - discuss and prioritize possible measures
 - Find municipalities that do not have an adaptation concept yet (and not yet work on it)
 - Analyse vulnerability, identify relevant stakeholders, organize workshops
3. Optional: Presentation of climate check, workshop results and possible measures in local council.
4. Material and information for municipal website and newspaper



Fig. 1 Impact matrix for prioritizing climate risks in the municipality of Fischen for two working groups (health and tourism, agriculture and forestry).

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

- Promoting the service among our eea-communities (network meetings in September 2024 and March 2025, eza! newsletter)
- Announced a competition to find a pilot municipality for testing the service
- Fischen i. Allgäu successfully applied as pilot municipality for implementing the service
- Developed flyer on heavy rain and heat to inform inhabitants about the risks:
 - Flyer on heavy rain: "Klimafit wohnen - So schützen Sie sich und Ihr Gebäude vor Starkregen"
 - Flyer on heat waves: "Klimafit wohnen - So schützen Sie sich und Ihr Gebäude vor Hitze"

HAVE YOU ACHIEVED THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

- Implementation of climate check for Fischen i. Allgäu
- Presentation of results at stakeholder workshop
- Development of new measures
- Discussion was challenging due to unclear responsibilities: Measures to be implemented by municipality only vs. own responsibility of inhabitants and stakeholders?



Fig. 2 Workshop with local stakeholders in the municipality of Fischen: which climate impacts are relevant for us?

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

- Choose participants of stakeholder workshop very diligently and adapt communication in the workshop to the target group
- Prepare input for the discussion on possible measures depending on the level of knowledge of the participants
- Clarify objective with municipality in advance (scope of action, financial resources)

6. Vorarlberg

SERVICE 1

Name of the Service:	Klimafit Bauen, Climate fit construction
Coordinator of the Service:	EIV, Michael Braun
Beneficiary of the Service:	Private Home Owner
Areas of application of the Service:	Vorarlberg

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

- Protect buildings from damage caused by weather events

WHICH HAZARDS AND SECTORS ARE AFFECTED?

- Capacity building for energy advisor in charge
- Risks & awareness raising for homeowners
- Heavy rainfall, flooding, draught, hail, snow and overheating of buildings

OVERVIEW OF THE SERVICE

Self-preparedness is an indispensable component of climate change adaptation strategies.

Forward-looking adaptations to private buildings and properties can prevent damage and health hazards caused by extreme weather events. Heavy rain runoff, storms, hail, heat and drought are generally still not perceived enough as a risk or real danger, and adaptations are predominantly reactive and not forward-looking. During one-hour on-site consultations, private homeowners are sensitized to the topic and taught concrete precautionary measures. The consultant point out vulnerable low points and show ways of securing them. A tour of the cellar includes a discussion of sanitary facilities, washing machines and lifting systems located below sewer level. A checklist will be used to ensure that all major hazards have been addressed.

DESCRIBE THE PROCESS OF IMPLEMENTATION:

Two theoretical training courses were developed in close co-operation with the water management authority. The teaching units are divided into two ninety-minute evening events and deal with the main cases of damage, parts of buildings at risk and suggestions for prevention.

Therefor training material and a check-list was developed and the guide "Klimafittes Bauen und Wohnen" was revised. 20 Energy Adviser, a couple of EIV staff and 3 other energy institutes from Austria and Bavaria took part. In November and December 2024 the training took part in Energy Institute. Main topic of the first evening was to recognize possible damage at private buildings. Speaker were Gerhard Huber, Water Management, Edmund Burtscher VHV Assurance and Sabine Erber as moderation. Second evening was dedicated to prevention of damage and was held by Jürgen Ess, RTL Rankweil and Sabine Erber. For both lectures a self designed poster of a typical building was used.



Fig. 1 Working template for damage and prevention in action

In a third meeting in February 2025, the consultation was practised on site at two typical detached houses and the checklist was applied. Here too, Jürgen Ess was on hand to provide advice as an experienced civil engineer.



Fig. 2 Onsite visit

Since February we offer a number of free consultations, which are financed from the AdaptNow budget. Later on, the consultations »Climate friendly buildings« will be integrated with the free energy consultations already provided by municipalities to property owners. The costs for these integrated consultations will then be covered by the municipalities.

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

Under the title "How to protect your building from extreme weather conditions", we successfully promoted our "*Climate-fit Construction*" advisory programme in a dedicated exhibition area at ComBau, the largest trade fair in Vorarlberg for construction, renovation, and sustainable living concepts. Held from 21 to 23 February, the fair hosted 180 exhibitors and attracted several thousand visitors.

In cooperation with the **Bundeswehrhochschule München** and **Wasserwirtschaft Vorarlberg**, we showcased interactive models simulating heavy rainfall events in a village, on a street, and at the building level. These models demonstrated various mitigation methods in an engaging and accessible way.

We also distributed flyers containing information about our new *Climate-fit Advisory Service*, developed for citizens within the framework of the AdaptNow project.

Our exchange partner **ENU** (Energy and Environment Agency of Lower Austria) was also present, represented by its Head of Climate Change Adaptation, **Tino Blondiau**.

Visitor interest was high, particularly on Sunday, possibly due to the poor weather conditions, which made our simulations of flooding and preventive measures especially relevant and relatable.

For this fair, we produced and distributed 1.000 printed flyers to promote our service.



The flyer is titled "Klimafit-Gebäudeberatung" in red. It features a photograph of a man in a grey shirt and light-colored trousers standing in a garden next to a modern building. The text on the flyer includes:

Klimafit-Gebäudeberatung

Unsere neue und kostenlose* Vorort-Beratung hilft, mögliche Schwachstellen und Risiken an Ihrem Gebäude frühzeitig zu entdecken. Details und Anmeldung:
www.energieinstitut.at/ktgb oder 05572 / 31 202-112

*Die Beratung kann aufgrund einer EU-Förderung im Rahmen des Projekts „ADAPTNOW“ kostenlos angeboten werden.

Zum Weiterlesen

Hochwasserschutz und Eigenvorsorge - Tipps und Infos zum Gebäudeschutz.
Amt der Vorarlberger Landesregierung, Abteilung Wasserwirtschaft. Online verfügbar unter www.vorarlberg.at

Gefahrenzonenpläne und Abflussuntersuchungen. Online abrufbar im Vorarlbergatlas unter <https://vogis.vorarlberg.at>

HORA – Oberflächenabfluss. Online abrufbar unter www.hora.gv.at

Interaktive Karte zu Auswirkungen des Klimawandels in Österreich
<https://vis.csh.ac.at/heat-health-habitats>

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www.energieinstitut.at

DIESE BERATUNG WIRD GEFÖRDERT VON

Interreg  Co-funded by the European Union
Alpine Space

Fig. 3 Backside of the Flyer

HAVE YOU ACHIEVED THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

The implementation went exactly as planned and attracted considerable interest from the energy consultants. By showcasing the models from the Bundeswehr University at the trade fair, we were able to further highlight the issue of extreme weather events.

The new service is already being booked and actively used.



Fig. 4 Stand on ComBau, Visit of Tino Blondiau, ENU

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

- There were initial concerns that either no advisors would be found or that those recruited might not feel confident enough to offer the new service. However, neither of these concerns materialized. On the contrary, thanks to the involvement of other energy institutes, we were able to successfully offer and disseminate our concepts and products.
- The training materials, in particular, have already been in demand.



Fig. 5 Flyer illustrating potential damage



Fig. 6 Flyer showing protection measures for buildings

7. Upper Podravje

SERVICE 1

Name of the Service:	Regional Advisory Centre for Climate Adaptation
Coordinator of the Service:	Energy and Climate Agency of Podravje
Beneficiary of the Service:	Municipalities and companies within Podravje region
Areas of application of the Service:	Podravje region

WHICH CONTENTS DO YOU ADDRESS WITH YOUR SERVICE?

The service focuses on enhancing the adaptive capacity of municipalities to climate change by providing:

- Risk and vulnerability assessments
- Development and implementation of climate adaptation action plans
- Guidance on integrating climate adaptation into local policies
- Training and workshops for local authorities and stakeholders

WHICH HAZARDS AND SECTORS ARE AFFECTED?

The service addresses hazards such as heatwaves, heavy rainfall and flooding, landslides.

Affected sectors include:

- Urban planning and infrastructure (streams, riverbanks, rivers, etc.)
- Road infrastructure (regional roads, highways, bridges, etc.)
- Water management (water reservoirs, contaminated water, etc.)
- Agriculture
- Public health (diseases, viruses, bacteria, etc.)
- Energy supply

ENERGAP – regijski center za
podporo občinam in podjetjem
na področju prilagajanja
podnebnim spremembam

4.

OVERVIEW OF THE SERVICE:

ENERGAP's Climate Adaptation Support Service helps municipalities in the Podravje region to prepare for and respond to climate change. The service provides expert guidance and practical solutions to reduce climate-related risks.

With support from projects like ADAPTNOW, ENERGAP helps municipalities:

- Identify areas most vulnerable to climate change.
- Develop action plans for adapting to extreme weather conditions.
- Implement sustainable solutions tailored to local needs.

By working together, municipalities can better protect their communities, infrastructure, and environment from the impacts of climate change. By using the right tools and planning ahead, municipalities can better protect their residents, infrastructure, and natural environment from the increasing risks of climate change.

DESCRIBE THE PROCESS OF IMPLEMENTATION:

The development and implementation steps for building the service:

- Build the agency's internal knowledge in the field of adaptation – risk and vulnerability studies, strategic and operative planning of the adaptation measures through intensive learning, national and international exchange of experiences, study visits, ...;
- Mapping and engaging stakeholders in the field, especially the knowledge and research institutes;
- Implement many awareness raising activities for different target groups
- Incorporate the service in the yearly working program of ENERGAP;
- Preparing Risk and Vulnerability Study for the Region to identify climate-related threats specific to each municipality;
- Activate municipalities to become member of EU Mission Adaptation
- Start to develop regional adaptation strategy and local adaptation action plans in collaboration with local authorities and stakeholders;
- Start to give individual and personalized and specific advice to the municipalities and other public sector clients;
- Support the execution of adaptation measures, including technical guidance and securing funding opportunities;
- Establish indicators to monitor progress and evaluate the effectiveness of implemented measures, ensuring continuous improvement;
- Promote the service on local, regional and national level;
- Promote the results of the activities and good practices on national and international level;
- Looking for EU funded projects to develop the service further and build the capacity of the agency and the region.

DESCRIBE THE PROMOTIONAL ACTIVITY IN YOUR REGION:

ENERGAP promotes climate adaptation support service through:

- Organizing regional workshops and seminars to raise awareness and disseminate information.
- Organizing different regional/national meetings with authorities and climate experts.
- Organizing different study visits in Slovenia and also in other EU countries.
- Publishing articles and reports on successful adaptation strategies and case studies.
- Collaborating with local media to highlight the importance of climate resilience (such as press releases, published articles, interviews on TV, ...).
- Engaging with schools and educational institutions to incorporate climate adaptation into curricula (preparing climate workshops for them).
- With the promotion through social medias (LinkedIn, Instagram, Facebook, ...).
- With constant promotion on ENERGAPs website and on the websites of some other municipalities.
- With sending news and information through municipalities e-mails in the Podravje region.

HAVE YOU ACHIEVED THE DESIRED GOAL WITH THE IMPLEMENTATION OF THE SERVICE?

ENERGAP has achieved the set goal and develop nationally well-known and respected center. Significant progress has been made, including:

- Building the internal knowledge
- Engage the stakeholders and build very active network of them
- Include the service into the yearly working program of ENERGAP
- Become a regional knowledge center on the adaptation topic
- Organizing different regional events: workshops, exchanges, study visits ...
- Completion of vulnerability assessments for several municipalities.

- Development and adoption of climate adaptation action plans in some frontrunner municipalities.
- Increased awareness and knowledge among municipalities, other local authorities and citizens.
- Cooperate in EU projects related to adaptation

Identified obstacles are:

- National adaptation legal, financial and operative framework is not developed
- Lack of knowledge on how adaptation action plan and its implementation can be beneficiary to the local authorities
- Lack of experiences and good practice in the region and on national level
- Lack of the money dedicated to adaptation
- No new financing mechanisms developed



Fig. 1 Workshop with public authorities and climate experts Fig. 2 Raising awareness and disseminate informations at trade fair

WHICH RECOMMENDATIONS CAN YOU GIVE TO OTHER REGIONS?

- Involve a broad range of stakeholders early in the process to ensure diverse perspectives and foster ownership of adaptation measures.
- Organize more workshops and training sessions to equip local authorities and communities with the knowledge and skills needed to respond to climate challenges using different methodologies like in person, one-to-one, on-line, webinars.
- Climate adaptation should not be treated as a separate task but should be part of urban planning, infrastructure development, emergency response, and environmental policies. This avoids duplication and ensures long-term impact.
- Climate adaptation is a continuous process. Ensure that every phase—from risk assessment to action planning and implementation—has adequate time, funding, and expert support.
- Set up clear indicators to track the effectiveness of adaptation measures. Regularly review and adjust plans to reflect new climate challenges and evolving best practices.
-

By following these steps, regions can **build a more resilient future**, better protect communities, and effectively respond to climate-related risks.



NEKAJ PREPROSTIH UKREPOV V PRIMERU POPLAV

Dejstvo je, da so podnebne spremembe tukaj in zdaj. V preteklih tednih se je Slovenija soočila z večjimi poplavami, ki so poleg velike materialne škode in popolnega uničenja domov terjale tudi smrtne žrtve. Obilica padavin pa ni povzročila le poplav, temveč tudi številne plazove. Zato je potrebno poleg vseh možnih ukrepov blaženja podnebnih sprememb pozornost nameniti tudi prilagajanju, saj se bodo glede na obstoječe napovedi deževja in nenadne močne ujme nadaljevale in še krepile.

Prilagajanje na podnebne spremembe je ključnega pomena za zagotavljanje učinkovite zaščite pred poplavami in hudourniki, saj se s spremenjenimi podnebnimi razmerami povečujejo tudi tveganja in pogostost ekstremnih vremenskih dogodkov.

Pristopi za prilagajanje na podnebne spremembe in njihov vpliv na zaščito pred poplavami in hudourniki so različni glede na samo okolje, pa vendar imajo skupne točke. V nadaljevanju smo pripravili nekaj pristopov za prilagajanje in zaščito pred poplavami in hudourniki ter posledično plazovi.

Ključnega pomena pri omiliti tveganj, povezanih z visoko intenzivnostjo padavin in hitrim pretokom vode so predvsem:

Celovita ocena tveganja, ki naj bo sestavljena iz podrobne študije poplav in hidroloških razmer, da so jasni potencialni učinki poplav in hudournikov. Hkrati se identificira ranljiva območja in kritično infrastrukturo, ki potrebuje zaščito.

Zgodnji opozorilni sistemi za spremljanje vremena; posledično se lahko napove obilne padavine in predvidi nenadne poplave. S tem se razvijajo učinkoviti sistemi zgodnjega opozarjanja, ki zagotavljajo pravočasna opozorila prebivalcem in oblastem.

Upravljanje poplavnih območij – priprava predpisov, ki omejujejo gradnjo na poplavno ogroženih območjih, še posebej na poplavnih ravninah. Poplavne ravnice so nujne, da se omogoči zadrževanje in odtekanje vode in s tem zmanjša vpliva poplav.

Trajnostni sistemi odvajanja vode – načrtovanje in namestitve naprav za upravljanje s hitrim odtokom padavinske vode in preprečevanje nenadnih poplav. Med trajnostne sisteme odvajanja voda uvrščamo tudi vključevanje značilnosti, kot so prepustna tlakovana površina, zadrževalna jezera in ozekojeni jarki.



Fig. 3 Newsletter send through email to municipalities in Podravje region