



# Alpine Climate Board Stocktaking Update 2021-2022

## An information source for further developing the activities of the Alpine Climate Board

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**Version 20<sup>th</sup> April 2022 as input to the 14<sup>th</sup> meeting of the Alpine Climate Board**  
Document to be prepared as input to the XVII Alpine Conference

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This report has been prepared by the Alpine Climate Board of the Alpine Convention, with inputs from the Contracting Parties, Observers, Thematic Working Bodies and the Permanent Secretariat of the Alpine Convention. It has been finalized thanks to the financial and technical support of the Swiss and Austrian delegations to the Alpine Convention.

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## **Executive summary: The stocktaking update 2021-2022 at a glance**

### **Background: The role of the stocktaking for the Alpine Climate Board**

The Alpine Climate Board (ACB) understands itself as platform to bundle all climate-related activities that are carried out within the framework of the Alpine Convention. It is thus dependent on a comprehensive overview on ongoing climate change mitigation and adaptation activities at transnational but also national level to build synergies and to ensure that activities at the level of the Alpine Convention create an added value to already ongoing initiatives. A comprehensive stocktaking has thus been the starting point for the very first activities carried out by the ACB in its first mandate. The content of the first stocktaking with its 188 featured inputs provided a wealth of information and inspiration to the ACB. It was thus decided to continue this stocktaking on a regular basis to ensure that the ACB keeps up-to-date with new initiatives and projects and that synergies are used to the maximum extent. This stocktaking update 2021-2022 provides the first comprehensive update of the stocktaking and adds information from 53 new activities developed at transnational and national level.

### **Main fields of action: which sectors were covered?**

The stocktaking update 2021-2022 covers activities related to all sectors of the Alpine Climate Target System 2050 and the Climate Action Plan 2.0. However, the representation between the sectors is slightly less balanced than in the previous stocktaking 2017-2019 which is due to the more pragmatic feedback procedure. Many activities of the stocktaking update were reported by the Permanent Secretariat of the Alpine Convention and include activities of the thematic working bodies. For those sectors of the Action Plan that are currently represented by a thematic working group at the level of the Alpine Convention a range of activities was easily accessible and integrated in the stocktaking. For the remaining sectors inputs were dependent on the support of the ACB members which all have their specific expertise and thus provided inputs related to their specific focus of work.

Also, the spectrum is strongly influenced through the priorities of the Alpine Convention presidencies. The French Presidency 2019-2020 focused highly on water which explains a strong representation of water-related activities in the stocktaking update. The Swiss Presidency 2021-2022 had one focus on transport with many activities already finalised and thus integrated in the stocktaking.

### **Link between reported activities and the implementation pathways of the Climate Action Plan 2.0**

Several activities included in the stocktaking update 2021-2022 have already been launched before the Climate Action Plan 2.0 was approved by the XVI Alpine Conference. These activities can contribute to the implementation of the Action Plan but, of course, are not directly linked to the specific implementation pathways. Other activities, especially those developed as projects under the Alpine Space Programme, have a more indirect link to the implementation pathways: they contribute to the specific implementation steps but cannot be seen as direct implementation measures but rather as a support to reach them. However, the stocktaking also includes several activities that can be interpreted as 1:1 implementation measures to move forward with the Climate Action Plan: nearly all activities of the thematic working groups Soil Protection, Mountain Agriculture and Forestry and Spatial Planning and Sustainable Development have linked their activities to specific implementation steps of the pathways.

### **Main fields of activity: types of activity and balance between mitigation and adaptation**

The stocktaking also takes a look at which types of activity were taken forward at transnational and national level: projects, publications, planning or implementation measures, events, online tools and others. Similar to the initial stocktaking 2017-2019, the update 2021-2022 covers all types of activities in a quite balanced manner. However, a slight shift can be seen towards implementation: projects and publications have a stronger focus on strategies, measures and specific policies than on the collection of more background information. This is, of course, a promising development as these implementation-oriented activities can support the activities of the ACB to implement the Climate Action Plan.

Regarding the balance between mitigation and adaptation, a shift from more mitigation-related activities (stocktaking 2017-2019) to more adaptation-related activities can be observed. This is however not necessarily a representative picture of overall activities in the Alpine region but rather reflects the inputs to the stocktaking with a large contribution to adaptation-related activities (especially regarding national-level activities). A promising development is a trend towards more integrated activities that cover both adaptation and mitigation: these activities have a larger share in the stocktaking update than in the initial stocktaking.

### **Alpine-specific character & added value for implementation on the level of the Alpine Convention**

For nearly all reported activities, the Alpine-specific character and justification has been described. The specific topographical and geographical features of the Alpine region are the main reason for this Alpine-specific character. Specific socio-economic characteristics and specific settlement systems are named slightly less often but seem equally important.

Also, for all reported activities an added value of an Alpine-wide implementation was reported. All activities support an exchange of information. The provision of common data sources and tools played a slightly stronger role in the 2021-2022 update. Similarly the categories “enlarging the territorial scope of existing activities” and “implementing new and common measures” also have a slightly higher share than in the initial stocktaking. This picture reflects pretty well the pathway-approach of the Climate Action Plan. At the beginning of many pathways, there is a need to develop a joint database or information source, to develop better support and decision-making tools or to set up new networks. As these first implementation steps are partly considered in activities covered by the stocktaking update, it is not surprising that their value added focuses on these levels. With the realization of further implementation steps, the categories “enlarging territorial scope” and especially “new and common measures” will probably play a more important role.

### **Insights from the stocktaking update 2021-2022 for further activities of the ACB**

Considering this summary and main insights of the stocktaking update 2021-2022, the following conclusions can be drawn for further activities of the ACB:

- The regular update of the stocktaking is a meaningful support for the work of the ACB: it not only gives a summary on ongoing activities and provides insights for monitoring the implementation of the Climate Action Plan, it also shows (information) deficits and “blind spots” of the work of the ACB. To ensure a comprehensive overview of all sectors, the ACB needs to collect information on the sectors that are less represented in the stocktaking update via other sources, networking activities and outreach. This needs to be kept in mind for future updates of the stocktaking.
- The stocktaking update 2021-2022 indicates some developments in the “right” direction: more measures with an implementation character were reported and an integrated approach considering both mitigation and adaptation also played a stronger role. The ACB can support these developments through the implementation communities: these can serve as platforms to exchange information on success factors but also challenges in moving from information to action and in developing more integrated approaches. The lifestyles activity of the ACB with the Webinar in November 2021 and the booklet on climate-neutral & resilient lifestyles also looks at these questions and follow-up activities can provide further insights.
- The stocktaking 2021-2022 however also shows that only few reported activities have a direct link to the implementation pathways of the Climate Action Plan 2.0. This is fully acceptable at this point in time as the Climate Action Plan 2.0 was just adopted in December 2020 and many reported activities were already launched before that. In the future, more focus should be put on activities directly supporting the implementation pathways of the Action Plan, for example projects under the Alpine Space Programme could be better aligned with the implementation pathways.

# **1 Background: The stocktaking as information source for the ACB**

## **Where it all began: the stocktaking 2017-2019 as starting point for the ACB**

The Alpine Climate Board (ACB) was first established by the XIV Alpine Conference at the end of 2016 to bundle all relevant activities on climate change mitigation and adaptation that are carried out within the framework of the Alpine Convention. Since then, the ACB has established itself as a key player in the frame of the Alpine Convention and, with its Alpine Climate Target System 2050 (adopted at the XV Alpine Conference) and the new Climate Action Plan 2.0 (adopted at the XVI Alpine Conference) has provided some new milestones that shape the activities of the Alpine Convention and all its implementation bodies.

From its beginning, the ACB took a comprehensive and integrative approach with the aim of building on existing activities, to focus on activities that have a clear Alpine-specific character and for which a common approach on the level of the Alpine Convention creates an added value. The ACB understands itself as platform and “facilitator” rather than as implementation body and thus depends on a good overview on ongoing activities and starting points. As the very first activity in 2017, the ACB thus decided to carry out a stocktaking exercise to provide insights on relevant activities of the Platforms and Working Groups of the Alpine Convention with a link to climate change, to assess the role of Alpine-specific European projects (Alpine Space Programme, Horizon 2020 etc.) and further activities and ideas reported by the Contracting Parties and observers. Based on this stocktaking that was carried out in 2017 and slightly updated for the Alpine Conference at the beginning of 2019, the ACB derived a first analysis of gaps, deficits and potential fields of action – which was the beginning for its journey towards the important political milestones named above.

## **Stocktaking redefined: the new role of the stocktaking as information base**

With the Climate Action Plan 2.0 which was adopted by the XVI Alpine Conference in December 2020, the ACB has provided a clear outline on necessary implementation steps to reach its vision of climate-neutral and climate-resilient Alps 2050. For all sectors covered by the Alpine Climate Target System, the Action Plan includes specific implementation pathways with information on detailed implementation steps, necessary stakeholders for an implementation and starting points. Implementation communities were launched at the beginning of 2021 to facilitate the implementation of these sectoral pathways. These implementation communities and their “caretakers” however require further support from the ACB to get the activities going and to ensure that synergies to ongoing activities are used.

The ACB itself also moves ahead with further activities at cross-sectoral scope, including communication and outreach activities and thus also depends on a comprehensive overview of ongoing projects and new initiatives at transnational and national level.

It was thus decided to update the stocktaking on a regular basis as an information source for the ACB and the implementation communities. This report provides the synthesis of the update that was carried out in two phases in spring 2021 (to facilitate the start of the caretaker concept) and 2022 (to capture recent developments) and that serves as input of the ACB to the XVII Alpine Conference.

## **Objectives and structure of this report**

This synthesis report provides an overview of the stocktaking update 2021-2022 and compares it to the results of the initial stocktaking 2017-2019. Chapter 2 provides an overview on the 53 feedbacks to the stocktaking, differentiated into activities with a transnational and national focus. Chapter 3 provides an indicator-based analysis, picking up the indicators of the initial stocktaking and providing comparisons were possible. This chapter also highlights some insights into further activities of the ACB.

The Annex includes some key information on all reported activities and the factsheet collection (separate document) provides an in-depth information source for most of the reported activities.

## 2 Overview on inputs to the stocktaking 2021-2022

The update of the stocktaking illustrates the ongoing high commitment in the Alpine area to contribute to climate change mitigation and adaptation policies. In addition to the 118 activities that were included in the initial stocktaking exercise in the two rounds 2017 and 2019, members of the ACB collected 53 new activities for the update. 34 of these activities were collected in the first updating round in 2021 and 19 new activities again in spring 2022.

The following table provides an overview of inputs provided by the members of the Alpine Climate Board.

- 39 activities with a transnational focus were reported. These include several activities of the Swiss Presidency 2021-2022 of the Alpine Convention, of the thematic working bodies of the Alpine Convention who support the implementation of the Climate Action Plan 2.0 through their mandate, of related action groups of the EUSALP strategy as well as selected projects implemented by the Alpine Space Programme and UNEP (as observer to the ACB).
- 14 activities with national focus were reported. These include activities and projects which have a potential for broader transferability to other Alpine regions or countries and to contribute to the implementation of the Climate Action Plan.

All reported activities were implemented or at least launched since the publication of the last stocktaking report in spring 2019, many of them are already finalized.

**Table 1:** Feedback to the stocktaking update 2021-2022

Input provided by	Name of activity
Switzerland	MoVe the Alps - conference on cycling tourism
	Yoalin
	Climate Action in Alpine Towns - Pilot action
	Climate Hour
	MoVe INN now
WG Soil Protection	Permanent soil monitoring areas
EUSALP AG8	White Paper "Forest fires in the Alps" of EUSALP AG8
	Study of Physical Natural Hazard Models and new prototype of interactive model
EUSALP AG9	EUSALP Energy Observatory
Permanent Secretariat	Declaration of the XVI Alpine Conference on integrated and sustainable water management in the Alps
	Alpine-wide conference on water resources and alpine rivers: adaptation to the challenges of climate change
	Young Academics Award 2020 – Emissions in the Alps: climate change and air quality, measurement and measures
	Youth Parliament of the Alpine Convention (YPAC) – 2019 session on Climate change
	Report on Climate-friendly and climate-resilient Mountain Agriculture & Forestry in operationalization of the Alpine Climate Target System
	Green Economy Progress Report
	Report on Contingency Planning in the Area of Natural Hazards
	Exhibition of natural hazard models and risk communication tools
	Report on the Economical and prudent use of soil in the Alps
	Report Towards a modal shift of transalpine freight transit
	Reduction of mobility demand and shift to environmentally sustainable modes: strategies and measures in the Alps

Input provided by	Name of activity
	Stocktaking on organic agriculture in the Alps and Developing organic agriculture scenarios for Alpine regions
	Promotion of sustainable value chains in forestry and farming sectors
	Alpine-wide concept for soil data harmonization & monitoring
	Potential of technologies for the promotion of sustainable passenger transport in the Alpine region
	Policies and measures/instruments for sustainable mobility in the Alpine Area
	Report on Land take in the Alpine region: the data perspective
	Collection of good practices for growth and shrinking strategies
	Land saving targets in Alpine countries and regions - Status report
	Workshop on soil functions and spatial planning in the Alps,
UNEP	Adaptation at Altitude Programme: Strengthening Adaptation Knowledge, Interregional Learning and Exchange
Alpine Space Programme	ASP projects ADO - Alpine Drought Observatory
	ASP project ALPTREES
	Linking Alps Project
	E-smart - Integrated e-mobility planning in the Alpine Space
	Healing Alps: Tourism based on natural health resources for the development of Alpine regions"
	ALPGRIDS
	Increasing RES uptake through Microgrids in the Alps
	LUIGI Linking Urban and Inner-Alpine Green Infrastructure - Multifunctional Ecosystem Services for more liveable territories"
	CHEERS Project
	OpenSpaceAlps - Sustainable development of alpine open spaces by enhancing spatial planning governance
<b>National level activities</b>	
Monaco	"Vers un Etat climatiquement neutre et économe en énergie"
	Climate and Air Energy Plan Monaco"
	Stratégie Nationale pour la Biodiversité
Land Tyrol	4 regional programs: Beratungsprogramm „Klimafitte Tiroler Regionen“, Green Deal Olympia region Seefeld, Climate allaicne companies programme, KlimAlps Project
Bayern	3 regional programs: Bavarian Report 2021 on the Climate, Pilot Study Bavarian Climate Impact Maps, Monitoring Permafrost Zugspitze Summit
WG Soil Protection	Educational trail about alpine soils/Bodenlehrpfad
Austria	4 national programmes: GOAL- Governance of local climate adaptation, Natural Hazard and Climate Change Check for Municipalities, Project Flood Knowledge, RiKoST - Risk communication strategies

To avoid any confusion with the previous stocktaking 2017-2019, the new inputs were added at the end of the stocktaking table. This ensures that the previous numbering of projects can be maintained. The new inputs start with no. 119 in the overall list of projects (see Annex).

### **3 Indicator-based analysis of feedback – Stocktaking 2021-2022 and comparison to the previous stocktaking exercise**

To provide a continuous and comparable information base, the stocktaking 2021-2022 used the same questionnaire as in the previous stocktaking exercise in 2017-2019. The information and criteria collected were the same, only some slight changes were incorporated in the questionnaire:

- As the stocktaking is supposed to support the implementation communities to move forward with the Climate Action Plan 2.0, the stocktaking 2021-2022 included a new question if the relevant activity can be seen as a part of one of the implementation pathways or if it directly contributes to one of the specific implementation steps.
- Also, the stocktaking was better aligned to the sectors covered in the Alpine Climate Target System and the Action Plan. Instead of presenting the information along the fields of action of the relevant thematic working bodies of the Alpine Convention, they are now presented for the sectors covered by the ACB in its reference documents. Information for all previous inputs to the stocktaking (no.1 to no. 118) was subsequently adjusted.
- The new questionnaire for the update 2021-2022 also included a specific question on how the input to the stocktaking can be further developed by the ACB.

All inputs, including inputs to the initial stocktaking 2017-2019 and the update 2021-2022, were assessed with the help of an overall evaluation table to get a comprehensive picture of the state of climate change mitigation and adaptation activities in the Alps and to see how priorities have changed over the last years.

This chapter provides a detailed overview of results for the main indicators of the stocktaking. It highlights the results of the update 2021-2022 and provides a comparison to the previous stocktaking 2017-2019. Results of this analysis can be used by the ACB to further develop its activities, to identify deficits and to make better use of synergies with crucial partners and stakeholders.

#### **3.1 Type of activity and relevance for climate change**

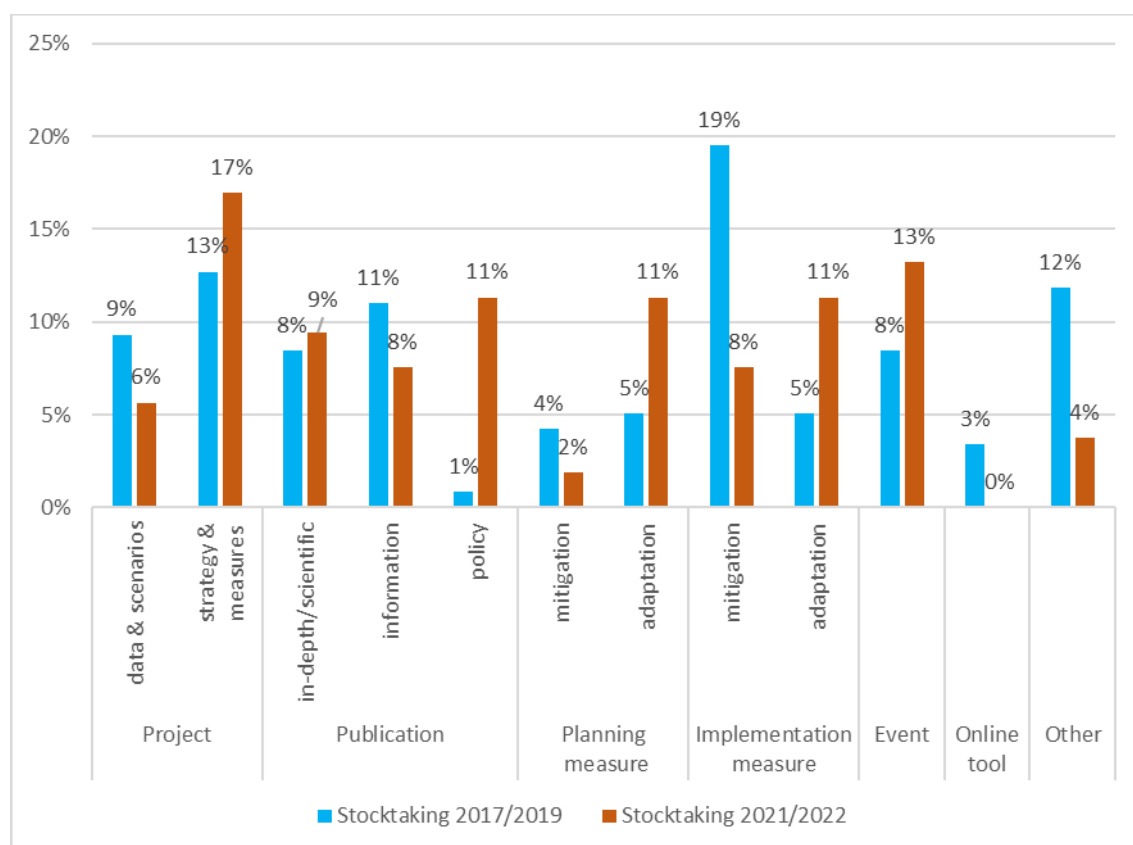
To identify the main types of activities, the classification scheme of the previous stocktaking has been continued for the update. This includes the following types of activities:

- Project: focus data & scenarios, focus strategy & measures)
- Publication (in-depth/scientific, focus information, focus policy)
- Planning measure (mitigation or adaptation)
- Implementation measure (mitigation or adaptation)
- Event
- Online info tools
- Other (set-up of networks, training, etc.)

The following figure provides an overview on the main types of activity, differentiated by stocktaking inputs 2017-2019 (up to no. 118) and inputs 2021-2022 (no. 119 to 171). To allow an easier interpretation, the results per type of activity are presented as shares of the overall reported activities.



**Figure 1:** Overview: Type of activity (stocktaking 2017-2019 and update 2021-2022, in percent)



Considering this picture, the following conclusions can be drawn:

- Nearly all types of the above mentioned activities are covered by the stocktaking update, a quite balanced distribution can be seen.
- A shift can be seen towards implementation: projects and publications focus more on strategies and measures and specific policies than on the collection of more background information.
- Regarding the planning and implementation measures, a shift can be seen from more mitigation-related activities to more adaptation-related activities. This is however not necessarily a representative picture of overall activities in the Alpine region but rather reflects the inputs to the stocktaking with a large contribution on adaptation-related activities (see table 1).
- Events also played quite an important role in the update, representing many online events that took place since the beginning of the COVID-pandemic. The smaller sample of the update does however not include any online tools.
- Others include: Declaration on Water, Young Academics Award

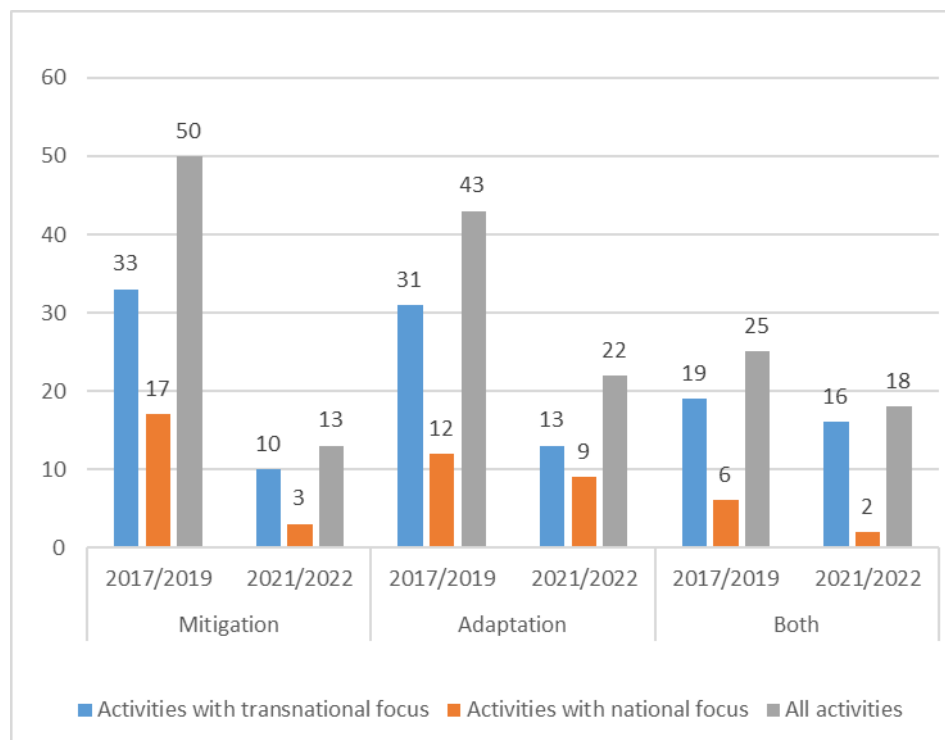
When looking only at the stocktaking update 2021-2022, the following insights can be derived when comparing transnational and national activities:

- Transnational activities mostly include inputs from the following types of activity: events (7 inputs), projects (12 inputs) and publications (14 inputs). These include many activities developed in the frame of the thematic working bodies and represent characteristic activities that are carried out by the TWBs.
- National activities have a much stronger focus on planning and implementation measures.

Looking at the relevance of activities for climate change mitigation and/or adaptation, the stocktaking 2017-2019 saw a balanced picture between mitigation and adaptation activities. The update 2021-2022 reflects a slight shift to a stronger adaptation focus which, as mentioned above, does not necessarily need to be seen as representative for all activities carried out in the Alpine region. For example, only very few activities were reported for some of the mitigation-related sectors “energy” and tourism”.

- Looking at the grey bars in figure 2, the slight shift towards more adaptation-related activities can be seen. In the stocktaking 2017-2019, 50 mitigation and 43 adaptation related activities were reported – thus a rather balanced picture. In the update 2021-2022, we see only 13 mitigation activities vs. 22 adaptation activities.
- Mitigation is especially underrepresented in the activities with national focus, which again is due to the inputs on national activities to the stock-taking which were reported by members of the ACB with a work focus on adaptation.
- When looking at the distribution, a larger share of activities that cover both mitigation and adaptation has been reported during the stocktaking 2021-2022 – this reflects the need for a stronger integrated approach.

**Figure 2:** Relevance of adaptation & mitigation (stocktaking 2017-2019 and 2021-2022)



→ **Which insights can be derived for further activities of the ACB?**

- The stocktaking reflects some slight shifts, including a stronger focus on adaptation. This seems logical as many stakeholders have put a stronger focus on adaptation in the last years. Also, as mentioned above, the reported activities depend strongly on the inputs from the thematic working bodies and members of the ACB and also had slight imbalance towards adaptation-related activities. However, the ACB needs to review the further development closely, to ensure that mitigation and adaptation are developed in a balanced way – using integrated approaches where possible.
- The ACB with its activities and implementation communities can also ensure that activities move from information-focused projects and publications to action-oriented activities. This is already reported for the national activities but needs to be strengthened at the transnational level.

### 3.2 Relevance for different sectors of the Alpine Climate Target System

An important element of the stocktaking is the analysis of how the relevant sectors of the Alpine Climate Target System are covered by the reported activities. This provides insights for the implementation communities and their caretakers, but also for the ACB as platform to identify deficits and gaps.

This chapter illustrates which sectors are covered and how the stocktaking update 2021-2022 compares to the initial stocktaking 2017-2019.

*Please note: the initial stocktaking 2017-2019 used the topics covered by the thematic working bodies of the Alpine Convention as reference. With the Alpine Climate Target System in place, the ACB however moved to a more comprehensive approach with the aim to cover all sectors relevant for mitigation and adaptation activities in the Alps. To remain consistent, these sectors are now also used for the stocktaking. The inputs of the 2017-2019 stocktaking were adjusted accordingly.*

#### Analysis differentiated according to transnational and national focus

The following table illustrates the relevant sectors of the reported activities, differentiated by activities with a transnational and a national focus. When comparing the results of the stocktaking 2017-2019 and the update 2021-2022, the following results can be summarized:

- While “cross-cutting activities” took up a major share in the stocktaking 2017-2019, they play a minor role in the update. This is due to the slightly different character of the update which is more focused on sectoral activities that are linked to the Climate Action Plan.
- Transport-related activities take an important role in the update 2021-2022, when looking at the transnational activities only, 21% of all reported activities relate to transport.
  - This is due to the current work focus of the Swiss Presidency which features transport as a key sector in its 5-point-plan and has launched activities on bike tourism (MoVe the Alps Conference, no.120) and public transport (e.g. Yoalin, no. 121).
  - Also, the Working Group Transport of the Alpine Convention contributes in implementing the Climate Action Plan with activities on new transport technologies (no. 148) or policies and measures to reduce mobility demand in the Alps (no. 135).
- The same is true for water-related activities which had a priority under the previous French Presidency of the Alpine Convention that are also covered by this stocktaking update (e.g. the Alpine-wide conference on water resources and alpine rivers, no. 126).
- Many reported activities also relate to natural hazards, soil and spatial planning.
  - This reflects the active contributions of the relevant thematic working groups of the Alpine Convention as well as EUSALP AG8 in implementing the Climate Action Plan. For example the Working Group Soil Protection works on an Alpine-wide concept for soil data harmonization & monitoring (no. 147) and EUSALP AG8 developed a “Study of Physical Natural Hazard Models and a new prototype of interactive model” (no. 153).
  - Also, several projects that were launched under the Alpine Space Programme since the initial stocktaking 2017-2019 relate to these sectors, e.g. the Alpine Drought Observatory, (no. 142) which clearly complements the water pathways of the Climate Action Plan.
- For some sectors, only very few inputs were reported for the stocktaking, e.g. energy, tourism and municipal action. This does however not reflect the overall level of climate action in these sectors but is rather due to feedback process for this stocktaking.

**Table 3: Relevant sectors of the reported activities: main focus**

	Activities with transnational focus - Main links		Activities with national focus - Main links		All activities	
	2017-2019	2021 update	2017-2019	2021 update	2017-2019	2021 update
<b>Transport</b>	9	8	4	0	13	8
<b>Energy</b>	14	2	7	1	21	3
<b>Tourism</b>	11	1	4	1	15	2
<b>Natural hazards</b>	6	5	0	4	6	9
<b>Water</b>	7	4	0	0	7	4
<b>Spatial Planning</b>	3	4	1	0	4	4
<b>Soil</b>	1	4	1	1	2	5
<b>Mountain Agric.</b>	2	2	1	0	3	2
<b>Mountain Forestry</b>	5	2	0	0	5	2
<b>Ecosystems &amp; Biodiv</b>	4	3	0	1	4	4
<b>Municipal Action</b>	2	1	1	1	3	2
<b>R &amp; D</b>	1	1	2	0	3	1
<b>Cross-cutting</b>	18	2	14	5	32	7
<b>TOTAL</b>	<b>83</b>	<b>39</b>	<b>35</b>	<b>14</b>	<b>118</b>	<b>53</b>

### Contribution to the implementation of the Climate Action Plan 2.0

A new item in the stocktaking template was the question if the reported activity can be seen as a part of one of the implementation pathways included in the Climate Action Plan. It can be summarized, that most reported activities have a strong link to the implementation pathways, but still need to be seen as “independent” activities of the relevant projects, networks or working groups. As many activities have already been launched before the Climate Action Plan 2.0 was adopted, this result is however not surprising.

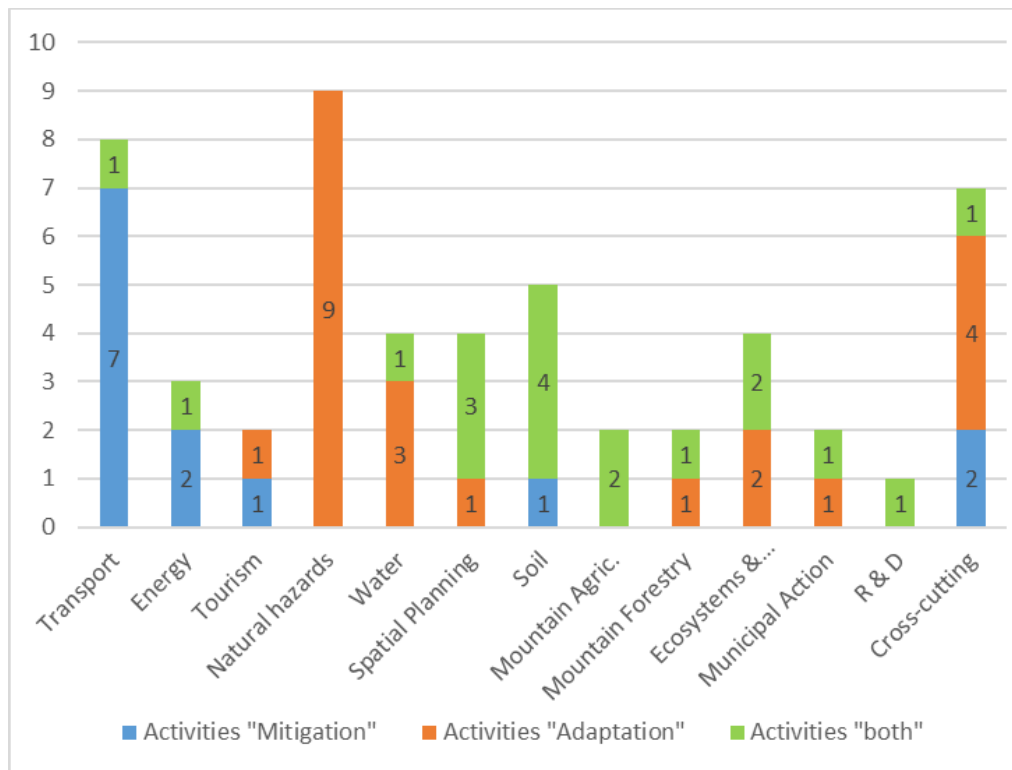
Several reported activities can however be seen as direct contribution to the implementation of the Climate Action Plan, especially the activities reported by the Working Group on Soil Protection and the Working Group on Spatial Planning and sustainable development have a direct link to the Action Plan and the activities refer to specific implementation steps. The same is true for the activities of the Working Group Mountain Agriculture and Forestry.

### Fields of action – adaptation and mitigation

When differentiating into adaptation and mitigation related activities, the insights from the initial stocktaking can be confirmed:

- Some sectors clearly have a stronger role for mitigation, e.g. transport and energy. The initial stocktaking also referred to “Green Economy”, which also had a clear mitigation focus but is now integrated into the specific sectoral activities or the “cross-cutting” ones.
- On the other hand, other sectors like natural hazards, water and ecosystems & biodiversity have a stronger adaptation focus.
- All the other sectors require an integrated approach, considering both mitigation and adaptation. This is especially true for the spatial planning activities, mountain agriculture but also the cross-cutting activities.

**Figure 3:** Differentiation into mitigation and adaptation related-projects per sector



→ **Which insights can be derived for further activities of the ACB?**

- The stocktaking update 2021-2022 does not cover all relevant sectors of the Climate Action Plan 2.0 in an equal manner. The inputs received for this update reflect the activities of the thematic working bodies of the ACB as well as inputs provided by the ACB members. However, they do not cover all sectors in a balanced approach and the ACB should keep in mind that information on the other sectors needs to be derived via different sources in the next updating round.
- In this current update, some direct links to the implementation pathways of the Climate Action Plan 2.0 can be seen already. This further needs to be strengthened and requires outreach and networking activities of the ACB. For example, specific projects under the Alpine Space Programme could be more closely linked to the pathways.

### 3.3 Alpine-specific character

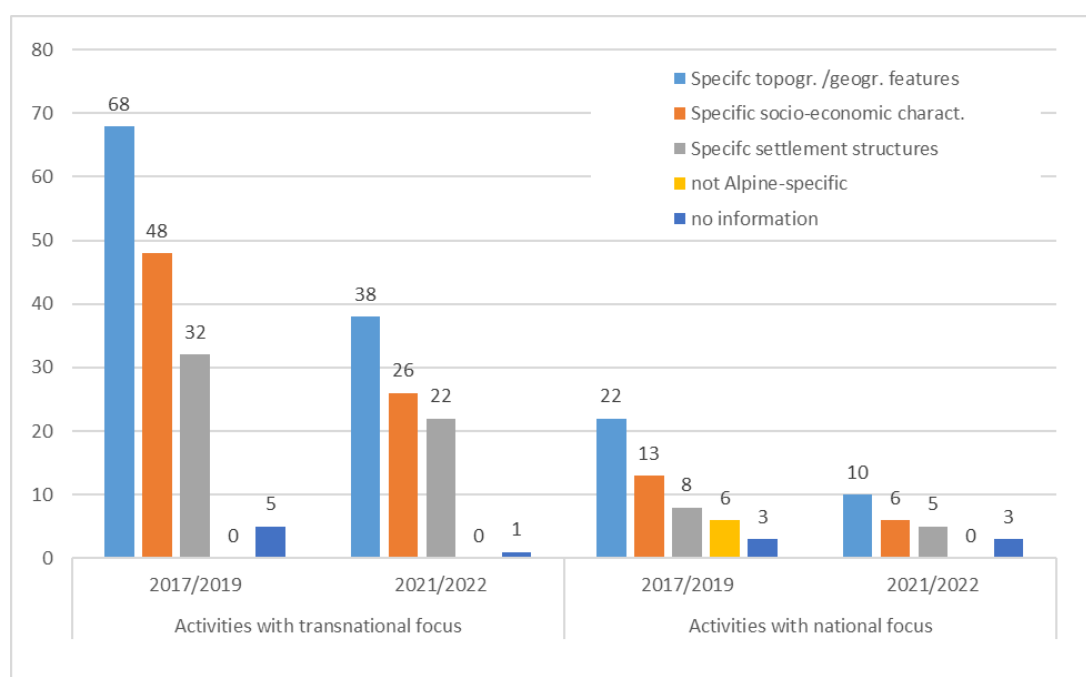
For nearly all reported activities, the Alpine-specific character and justification has been described. Indeed, in the stocktaking update 2021-2022 there is no single activity that has no Alpine-specific character. The initial stocktaking 2017-2019 still included several activities which were not Alpine-specific but still relevant for the ACB, the stocktaking update focuses more strongly on the objectives of the ACB to develop alpine-specific solutions to climate mitigation and adaptation.

- The specific topographical and geographical features of the Alpine region are the main reason that the reported activities have an Alpine-specific character.
- Specific socio-economic characteristics and specific settlement systems are named slightly fewer but seem equally important.

The following figure provides an overview on the consideration of Alpine-specific characteristics in the reported activities. Please note, that several characteristics could be selected in the questionnaire, the total numbers mentioned in the figure are thus higher than the number of reported activities (i.e. one

activity can have a specific consideration of topographical and geographical features and the specific settlement structures).

**Figure 4:** Consideration of different characteristics of the Alpine area



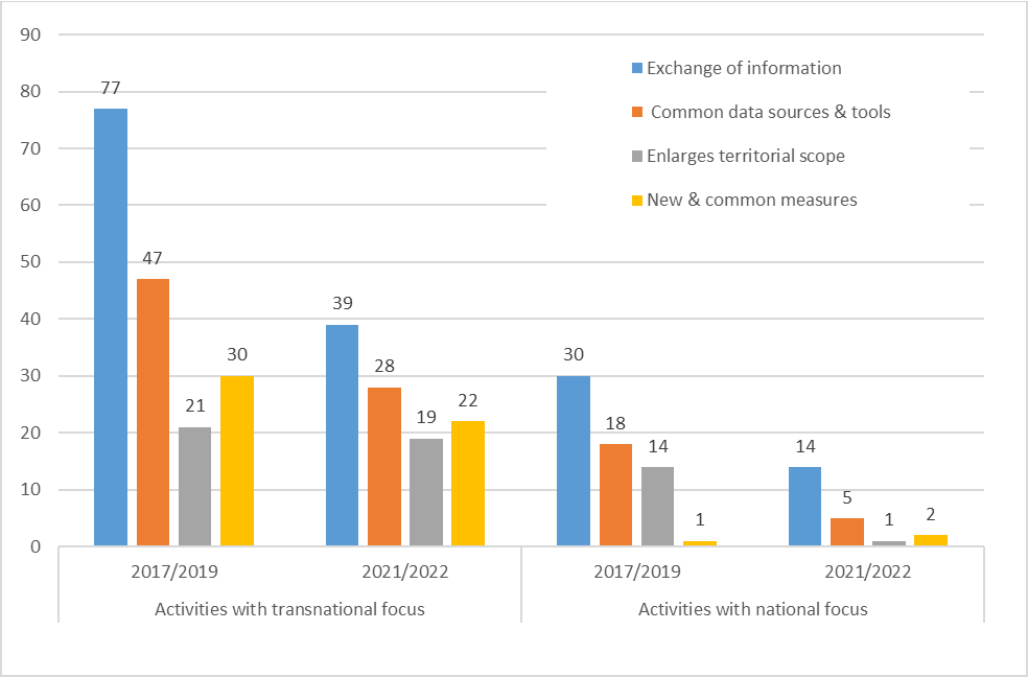
### 3.4 Value added for implementation on the level of the Alpine Convention

As in the initial stocktaking 2017-2019, the information reported for the update also included a description of the value-added for implementing the activity on the level of the Alpine Convention:

- The highest number of activities were, again, reported to “support an exchange of information”. All reported activities in the stocktaking update 2021-2022 create an added value in this respect.
- “Common data sources and tools” are also an important added value, especially the reported projects (implemented within the Alpine Space Programme) but also some new activities of the thematic working bodies (e.g. on soil data) contribute to this objective. Overall, this category plays a slightly stronger role in the 2021-2022 update: while about 40% of activities of the initial stocktaking contributed to the provision of common data sources and tools, 52% of the activities of the update contribute in this respect.
- “Enlarging the territorial scope of existing activities” and “implementing new and common measures” each are reported as value added for about 40% of the reported activities of the update – also a slightly higher share than in the initial stocktaking.

This picture reflects pretty well the pathway-approach of the Climate Action Plan. At the beginning of many pathways, there is a need to develop a joint database or information source, to develop better support and decision-making tools or to set up new networks. As these first implementation steps are partly considered in activities covered by the stocktaking update, it is not surprising that their value added focuses on these levels. With the realization of further implementation steps, the categories “enlarging territorial scope” and especially “new and common measures” will probably play a more important role.

**Figure 5:** Different specifications for the added value



## Annex: Overview table on reported activities – main information

*Please note: All information in italics and blue font were added in the stocktaking update 2021-2022. This also includes some updates on activities of the stocktaking 2017-2019. The new activities covered by the stocktaking update 2021-2022 start with no. 119.*

For the thematic focus, the sectors of the Alpine Climate Target System have been implemented.

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
<b>Activities implemented by Alpine Convention bodies</b>						
1	Energy Platform (2013-2014, 3 work-shops and background report)	Publication (in-depth/scientific)	Background report and accompanying work-shops, agenda setting for implementing "renewable Alps" vision	Both	Energy	Energy Platform
2	Platform Ecological network (2006-2019)	Implementation measure adaptation	Raise awareness for the needs and methods to Increase ecosystem resilience by creating natural landscape elements in the form of corridors or stepping stones	Adaptation	Ecosystems & Biodiv.	Ecological network Platform
3	Alpine strategy for adaptation to climate change in the field of natural hazards (2013, PLANALP)	Publication (focus information)	Alpine strategy for adaptation to climate change in the fields of natural hazard (2012), brochure (2014), recent development RSA7	Adaptation	Natural hazards	Natural Hazards Platform PLANALP
4	Statement on the "Role of Ecological Connectivity for Adaptation to Climate Change Impacts in the Alps" (Platform Ecological Network, 2016)	Publication (focus information)	2 pages introductory document	Adaptation	Ecosystems & Biodiv.	Ecologic network Platform
5	6th Report on the State of the Alps "Greening the Economy in the Alpine Region" (+ Declaration of the XIV. Alpine Conference on Fostering a Sustainable Economy in the Alps)	Publication (in-depth/scientific)	Report with Good Practice examples, data and information (focus energy efficiency and low carbon economy)	Mitigation	Crosscutting	Ad-hoc expert group RSA6 "Green Economy"



No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
6	Task Force Climate Change of the Italian Presidency (2013-14)	Other	Agenda setting on Climate Change	Both	Crosscutting	Italy
7	Alpine Signals 7: Guidelines for Climate Change Adaptation at the Local Level in the Alps (IT, 2014)	Publication (focus information)	Guidelines for Climate Change Adaptation at the local level	Adaptation	Municipal Action	Italy
8	Guidelines on local adaptation to Climate Change for Water Management And Natural Hazards in the Alps (Platform Water Management, 2014)	Planning measure adaptation	Guidelines with focus water resources management and natural hazards Support for assessing vulnerability and resilience capacity	Adaptation	Water	Water Management Platform
9	Action Programme for a Green Economy in the Alpine Region (2019)	Planning measure mitigation	Development of Action Programme for Green Economy in the Alps	Mitigation	Crosscutting	Green Economy Advisory Board
10	Facing droughts in the Alpine Region (2019)	Planning measure adaptation	Expert paper, based on a questionnaire, two expert workshops and the 7 <sup>th</sup> Alpine Water Conference (cf infra)	Adaptation	Water	Water Management Platform
11	Alps2050 - Common spatial perspectives for the Alpine Space. Towards a common vision (Project with the ESPON programme) (2019)	Project (focus data & scenarios)	Implementation of the Declaration on sustainable spatial development in the Alps, scientific base	Adaptation	Spatial Planning	Ad-hoc working group spatial planning
12	Joint Alpine-Carpathian Statement on Adaptation to Climate Change (2014)	Other	Joint statement with the Carpathian Region on adaptation, focus on exchange of information	Adaptation	Crosscutting	All contracting parties
13	Statement On the Value of Alpine Forests and the Alpine Convention's Protocol on Mountain Forests in the framework of the international forestry policies beyond 2015 (2014)	Publication (focus information)	Political statement, report on the state of Alpine forests, recommendations for monitoring, research, management, communication, and overview of the international institutional context	Both	Mountain forests	Mountain Forests Working Group
14	Statement on "Contribution of mountain farming to food security in Alpine regions" (2016)	Publication (focus information)	Statement on contribution of mountain farming to food security in Alpine regions (work programme 2014-2016), climate change adaptation with co-benefits	Adaptation	Mountain agriculture	Mountain Agriculture Platform

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
15	Statement on "Mountain agriculture and energy "(2019)	Publication (focus information)	Overview of the potential role of mountain agriculture in energy production and energy saving, highlighting co-benefits and with innovative examples from the entire alpine region	Mitigation	Mountain agriculture	Mountain Agriculture Platform
16	Best Practice Examples for land-use and nature conservation-compatible renewable energy projects in the Alps (DE, 2016)	Publication (in-depth/scientific)	Report with 28 exemplary renewable energy examples that avoid land-use conflicts and protect nature	Mitigation	Energy	BMUB Germany
17	Towards Renewable Alps	Publication (focus information)	Progress report towards the "vision Renewable Alps" for 2015-16	Mitigation	Energy	Permanent Secretariat
18	Flyer on Climate change in the Alps (2017)	Publication (focus information)	Information flyer on climate change in the Alps	Both	Crosscutting	Permanent Secretariat
19	Recommendations for the sustainable organisation of meetings and events of the Alpine Convention (2016)	Publication (focus information)	Check-list and recommendations drafted by the Permanent Secretariat, referring to existing standards	Mitigation	Energy	Permanent Secretariat
20	We are Alps Press Tour Topic 2019: climate change, natural hazards and governance. No edition in 2020 and 2021 due to the Covid-pandemic	Other	Annual press tour with changing specific focus topic (2015: Climate change); every edition is carried out with sustainable transportation means	Mitigation	Transport	Permanent Secretariat
21	Alpen-Forum-Innsbruck (2015-2017)	Event	Series of discussion workshops on specific fields of action on climate change	Both	Crosscutting	Permanent Secretariat
22	5 <sup>th</sup> Alpine Water Conference 2014 and workshop "Water and risk management facing climate change: towards the local adaptation"	Event	Conference based on results of the Water Management platform, including other mountain regions	Adaptation	Water	Water Management Platform
23	International Conference and Appeal on climate protection at municipal level (Alliance in the Alps, Alpine Town of the Year, CIPRA International, 2015)	Event	International conference + joint appeal to the UN Climate Conference	Mitigation	Crosscutting	Alliance in the Alps, Alpine Town of the Year, CIPRA

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
24	Contribution to the report by the European Environmental Agency "Climate change, impacts and vulnerability in Europe 2016"	Publication (in-depth/scientific)	Inputs to EEA report, especially chapter on climate change in the Alps	Both	Crosscutting	Permanent Secretariat
25	Multi-Annual Work Programme of the Alpine Conference 2017-2022 + Alpine Conference Declaration	Other	"Taking action on climate change" is one of the 6 priorities	Both	Crosscutting	All contracting parties
26	Multi-Annual Work Programme of the Alpine Conference 2011-2017 (+ Declaration of the XIV. Alpine Conference on the Multi-Annual Work Programme)	Other	Climate change was one of the 5 priorities	Both	Crosscutting	All contracting parties
27	Cooperation with the European Environmental Agency	Other	Partnership agreement with EEA and contribution to EEA's activities (incl. Climate-ADAPT platform, Technical Paper on Adaptation in Mountain Regions)	Adaptation	Crosscutting	Permanent Secretariat
28	7 <sup>th</sup> Report on the State of the Alps "Natural Hazard Risk Governance" (2019)	Publication (in-depth/scientific)	Principles and good practices in the field of risk governance	Adaptation	Natural hazards	Natural Hazards Platform PLANALP
29	6 <sup>th</sup> Alpine Water Conference	Event	Conference "Water Management in a Field of Conflicting Interests: Between Natural Hazards and Nature Protection" (Herrenchiemsee, DE, 2016)	Adaptation	Water	Water Management Platform
30	ForumAlpinum & 7 <sup>th</sup> Alpine Water Conference	Event	Conference "Alpine Water – Common Good or Source of Conflict" (Breitenwang, AT, 2018)	Adaptation	Water	ISCAR, Water Management Platform
31	Application of the Common Guidelines for the use of Small Hydropower in the Alpine region <i>+ Report on the application of the guidelines published in 2019</i>	Publication (in-depth/scientific)	Evaluation of the implementation of the Alpine Convention's guidelines for balancing the interests of energy production and ecology	Mitigation	Water	Water Management Platform
32	Report on Interactions between mountain forests and flood protection (2019)	Publication (in-depth/scientific)	Overview of the role and requirements of protective forests, also in the view of climate change	Adaptation	Mountain forests	Mountain Forests Working Group

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
33	Mobility solutions in the Alps Database (2015)	Publication (in-depth/scientific)	Best-practice examples of sustainable mobility solutions in remote Alpine territories and for logistics and freight delivery	Mitigation	Transport	Transport Working Group
34	Analysis of innovative technologies for freight transport (2019)	Publication (in-depth/scientific)	Studies on combined transport, rail freight and alternative fuels	Mitigation	Transport	Transport Working Group
35	ClimaHost competition	other	Contest rewarding good practices in mitigation and energy management in Alpine hotels and restaurants <i>2nd edition 2021-2022 is underway (Germany + Permanent Secretariat)</i>	Mitigation	Tourism	Germany, Austria, Permanent Secretariat
<b>Activities implemented by Contracting Parties with direct reference to Alpine Convention</b>						
36	Energy Forum (CH, during the "Mountain week" at EXPO2015)	Event	Workshop during the Expo 2015 to discuss the potential role of common principles and guidelines for RES development in the Alps	Mitigation	Energy	Switzerland
37	Constructive Alps (since 2010)	Other	4th Constructive Alps award for sustainable architecture in the Alps (new construction and renovation); travelling exhibition <i>5<sup>th</sup> Constructive Alps award (2020) with a strong focus on climate conscious architecture, travelling exhibition</i> <i>6th Constructive Alps award (2022) ongoing, award ceremony and travelling exhibition foreseen in 2022</i>	Both	Energy	Switzerland, Liechtenstein
38	Alpine Building Conference (DE, 2016)	Event	International conference	Both	Energy	BMUB Germany
39	Virtual Alpine Observatory VAO (DE, since 2014)	Project (focus data & scenarios)	Network of High Altitude Research Stations; <i>including symposia on bi-annual basis</i>	Adaptation	Crosscutting	Project consortium of alpine research stations

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
40	Workshop "The future of Alpine forests in light of the potential impacts of climate change: threats and opportunities" (Udine/I, 17.05.2013)	Event	Final conference of MANFRED and ALPFFIRS projects	Adaptation	Mountain forests	Project consortium MANFRED and ALPFFIRS (see below)
41	Best practice guide on energy management in alpine hotels	Publication (focus information)	Best practice guide for hotels, based on one specific example in South Tyrol	Mitigation	Energy	BMUB Germany
42	Workshop "Sustainable Economy in the Alps – Climate mitigation and Energy Efficiency in Hotel and Restaurant businesses"	Event	Workshop for exchanging experiences and launching a network for climate change initiatives in the hotel and restaurant industry	Mitigation	Energy	BMUB Germany
42	Online platform "Alpine Energy" for knowledge transfer on Energy Efficiency in the Hotel and Restaurant businesses <i>(please note: the platform is out of date and not online anymore)</i>	Online info tools	Online info tool on energy efficiency in the hotel and restaurant business	Mitigation	Energy	BMUB Germany
44	AlpInfoNet project	Other	Pilot activities and handbook for cross-border information on sustainable mobility	Mitigation	Transport	Bavarian Ministry of the Interior, for Building and Transport and further partners, Transport Working Group
<b>Networks and platforms with transnational focus</b>						
45	CAPA – Climate Adaptation Platform for the Alps	Online info tools	Transnational knowledge portal for climate adaptation, filling gaps of EU Climate Adapt platform	Adaptation	Crosscutting	UBA Austria with other partners, EU-SALP AG8
46	Network of national adaptation policy makers of the Alpine countries	Other	Transnational network of national adaptation policy makers	Adaptation	Crosscutting	All contracting parties

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
47	Alpine Pearls	Implementation measure mitigation	Umbrella brand of tourism destinations with focus on sustainable mobility for guests	Mitigation	Transport	Network of Alpine tourism destinations, initiated by Austrian Federal Ministry for Sustainability and Tourism
48	Alpine Partnership for Local Climate Action (ALPACA)	Other	Information, exchange and joint awareness raising action on climate mitigation and adaptation measures with focus on local level, bringing together existing initiatives and networks	Both	Crosscutting	CIPRA, Alliance in the Alps, Alpine Town of the Year Association with support from Germany, associated partners
<b>Projects/activities with project character with transnational focus</b>						
49	C3-Alps - Capitalizing Climate Change Knowledge for Adaptation in the Alpine Space (Project ASP)	Project (focus data & scenarios)	Capitalisation project bringing together existing knowledge on adaption in the Alps	Adaptation	Crosscutting	Project consortium under the lead of UBA Austria
50	100max	Project (focus strategy & measures)	100max is an Alpine game for climate protection: 70 household testing climate-friendly lifestyles	Mitigation	Crosscutting	CIPRA
51	Project "cc.alps"	Project (focus data & scenarios)	Improve the performance of climate mitigation and adaptation measures; state-of-the art reports for different sectors	Both	Crosscutting	Project consortium under lead of CIPRA
52	Project "climAlp"	Other	Information campaign for the promotion of energy efficient building and renovation, using regional timber	Mitigation	Energy	CIPRA
53	Project "PEMO"	Project (focus strategy & measure)	Effective reduction of CO2 emissions by motivating employees to commute to work by sustainable means of transport	Mitigation	Transport	Project consortium under lead of CIPRA

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
54	Project "Alpstar"	Project (focus strategy & measure)	Development of strategy and measures to make the Alps carbon-neutral; pilot projects, e.g. on mobility	Mitigation	Crosscutting	Project consortium under lead of Ministry for Environment Slovenia
55	Project "MountEE"	Project (focus strategy & measure)	Support for energy-efficient buildings and renovation, focus on public buildings; support to municipalities in three mountain areas	Mitigation	Energy	Project consortium under lead of CIPRA
56	Project "dynAlp-climate"	Implementation measure mitigation	20 municipalities and regions put into practice concrete actions for climate protection	Adaptation	Crosscutting	Project consortium under the lead of Alliance in the Alps
57	Project "Recharge Green" (Project ASP)	Project (focus strategy & measures)	Strategies and tools to reconcile renewable energy development and nature conservation; cost and benefits of different strategies	Mitigation	Energy	Project consortium under the lead of Forschungsinstitut für Wildtierkunde und Ökologie, Veterinärmedizinische Universität Wien
58	CLISP Transnational Strategy for Climate Proof Spatial Planning (Project ASP)	Project (focus strategy & measures)	Mainstreaming climate adaptation into spatial planning, vulnerability assessment for sectors with relevance to spatial planning	Adaptation	Spatial planning	Project consortium under lead of UBA Austria
59	Alpine Climate Strategy (WWF)	Publication (focus policy)	A position paper of the WWF European Alpine Partnership	Both	Crosscutting	WWF
60	Alpine ecological connectivity for the next generations – Alpine Nature 2030	Implementation measure adaptation	Strategy and measures towards Alpine ecological connectivity; specific measures are currently developed in the frame of the AlpBionet2030 project: coherent and complementary Alps-wide system of Strategic Alpine Connectivity Areas (SACA) and integrated wildlife management.	Adaptation	Ecosystems& biodiv.	AlpArc

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
61	Bergsteigerdörfer (Mountaineering villages)	Implementation measure adaptation	Initiative of Alpine clubs to promote sustainable tourism; villages that participate in the initiative agree to dissociate from classical forms of tourism	Both	Tourism	Alpine Clubs (ÖAV, DAV, Alpenverein Südtirol, Alpenverein Slovenia)
62	Energy efficiency in mountain huts	Implementation measure mitigation	Tool to measure CO <sub>2</sub> footprint of Alpine huts and to identify measures for reducing energy consumption and CO <sub>2</sub> emissions	Mitigation	Energy	Club Arc Alpin (CAA)
63	Umweltgütesiegel für Alpenvereins-hütten - Environment Certificate for mountain huts	Implementation measure mitigation	Reward of Alpine huts with a certification when certain criteria of environmentally friendly and sustainable management are met; these include the use of biofuel, increase of energy efficiency, reduction of CO <sub>2</sub> emissions	Mitigation	Tourism	DAV, ÖAV, AVS
64	Project "So schmecken die Berge" (taste of the mountains)	Implementation measure mitigation	In the framework of alpine hut management, hut owners are motivated to increasingly use ingredients and products that are produced/ cultivated in the close vicinity of the alpine hut	Mitigation	Tourism	Alpine Clubs
65	Adapt-Alp (Project ASP)	Project (focus strategy & measures)	Products and recommendations for natural hazard and disaster management	Adaptation	Natural hazards	Project consortium under lead of Bayerisches Staatsministerium für Umwelt und Gesundheit
66	ALP FFIRS - Alpine Forest Fire Warning System (Project ASP)	Project (focus strategy & measures)	Development of the Alpine Forest Fire Danger Scale; tool equipped with a warning system that issues a daily alert level bulletin for the Alpine Space	Adaptation	Mountain forests	Project consortium under lead of Agenzia Regionale per la Protezione Ambientale del Piemonte
67	Alp-Water-Scarce - Water Management Strategies against Water Scarcity in the Alps (Project ASP)	Project (focus strategy & measures)	Tools to mitigate the risk of water scarcity and instruments for the long-term management of water resources	Adaptation	Water	Project consortium under lead of Université de Savoie



No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
68	ClimAlpTour - Climate Change and its Impact on Tourism in the Alpine Space (Project ASP)	Project (focus strategy & measures)	Vulnerability assessment for tourism in the Alps and development of adaptation strategies	Adaptation	Tourism	Project consortium under lead of Regione de Veneto
69	GoApply – Multidimensional governance of climate change adaptation in policy making and practice (Project ASP)	Project (focus strategy & measures)	Improve adaptation governance: vertical implementation, mainstreaming, involvement of different governance levels	Adaptation	Crosscutting	Project consortium under lead of UBA Austria
70	MANFRED - Management strategies to adapt Alpine Space forests to climate change risks (Project ASP)	Project (focus strategy & measures)	Development of adaptive forest management strategies and tools to support forestry practice	Adaptation	Mountain forests	Project consortium under lead of Forstliche Versuchs- und Forschungs-anstalt Baden-Württemberg
71	PARAMount - imProved Accessibility: Reliability and security of Alpine transport infrastructure related to mountainous hazards in a changing climate (Project ASP)	Project (focus data & scenarios)	Vulnerability assessment for transport infrastructures with respect to natural hazards; implementation of early warning systems	Adaptation	Transport	Project consortium under lead of Austrian Federal Ministry for Sustainability and Tourism
72	PermaNET - Long-Term Permafrost Monitoring Network (Project ASP)	Project (focus data & scenarios)	Development of permafrost monitoring network and strategy for dealing with natural hazards and their consequences	Adaptation	Natural hazards	Project consortium under the lead of Provincia Autonoma di Bolzano-Alto Adige
73	RocktheAlps – Harmonized ROCKfall natural risk and protection forest mapping in the ALPine Space (Project ASP)	Project (focus data & scenarios)	Development of rockfall risk zoning tool and harmonised map of rockfall risk and protection forests	Adaptation	Natural hazards	Project consortium under the lead of National research institute of science and technology for environment and agriculture (Grenoble)

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
74	SEAP_Alps – Supporting local authorities in the implementation of Sustainable Energy Action Plans in the Alpine Space Area (Project ASP)	Project (focus strategy & measures)	Adapting the SEAPs concept of the EU Covenant of Mayors to the Alpine region, platform for knowledge transfer	Both	Energy	Project consortium under the lead of Città Metropolitana di Torino
75	SedAlp -Sediment management in Alpine basins: integrating sediment continuum, risk mitigation and hydropower (Project ASP)	Project (focus data & scenarios)	Mapping and monitoring sediment and woody debris processes in Alpine basins; predictive tools and strategies to manage sediment-related hazards	Both	Water	Project consortium under the lead of Austrian Federal Ministry for Sustainability and Tourism
76	SILMAS - Sustainable Instruments for Lakes Management in the Alpine Space (Project ASP)	Project (focus strategy & measures)	Range of tools for sustainable management of Alpine lakes + catchments; educational material	Adaptation	Water	Project consortium under the lead of Région Rhône-Alpes France
77	Links4Soils (Project ASP)	Project (focus strategy & measures)	Link and improve soil management strategies and approaches, tools and knowledge for Alpine soil protection <i>Completed in 2020 with several outputs.</i>	Adaptation	Soil	Project consortium under the lead of Tyrol
78	The SINFONIA project for Alpine Smart Cities (Project ASP)	Implementation measure mitigation	Initiative between Bolzano and Innsbruck to deploy large-scale integrated and scalable energy-solutions; achieve 40-50% primary energy savings. <i>Project ended 07/2020.</i>	Mitigation	Energy	Contracting parties and project consortium
79	BB-CLEAN - Strategic tools towards a sustainable use of biomass for low carbon domestic heating (Project ASP)	Implementation measure mitigation	Development of transnational policies for a sustainable use of biomass for domestic heating to minimise negative environmental impacts and improve a smart use of this resource in the Alpine Space	Mitigation	Energy	Project consortium under lead of Catholic University of the Sacred heart Milano

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
80	SMART ALTITUDE - Alpine winter tourism territories demonstrating an integrated framework for a low-carbon, high-impact and resilient future (Project ASP)	Implementation measure mitigation	Low-carbon policy implementation in winter tourism territories, taking into account the needs of mitigation and adaptation	Both	Tourism	Project consortium under lead of municipality Les Orres (France)
81	MELINDA - Mobility Ecosystem for Low-carbon and INnovative moDal shift in the Alps (Project ASP)	Implementation measure mitigation	Inducement of a behavioural change in mobility patterns in a bottom-up manner and support policy making on mobility, air quality and territorial development; thanks to a better integration of mobility data and real time monitoring of mobility behaviours and patterns during a test, the project partners will support the development of services for multimodality and modal shift	Mitigation	Transport	Project consortium under lead of Insiel S.p.A.
82	SaMBA - Sustainable Mobility Behaviours in the Alpine Region (Project ASP)	Implementation measure mitigation	Promotion of mobility behaviour change by reducing the perceived gap between sustainable transport modes and private cars through reward/pricing policies that are equitable and directly related to the external costs of transport	Mitigation	Transport	Project consortium under lead of Regione Piemonte
83	GreenRisk4ALPs - Development of ecosystem-based risk governance concepts with respect to natural hazards and climate impacts - from ecosystem-based solutions to integrated risk assessment, (Project ASP)	Planning measure adaptation	Development of ecosystem-based concepts to support risk governance with respect to natural hazards and climate impacts	Adaptation	Ecosystems & Biodiv.	Project consortium under lead of Bundesforschungs-zentrum für Wald Österreich
<b>Projects and activities with national focus (with potential for transferability)</b>						
84	Klimafreundlicher Bergsport – Climate-friendly mountain sports (project, DAV)	Implementation measure mitigation	Awareness-raising campaign on climate change in the Alps with target group mountain sports; improve accessibility of Alps by public transport	Both	Tourism	Deutscher Alpenverein DAV

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
85	Bergsport mit Zukunft - Future-proof mountain sports (project, DAV)	Implementation measure mitigation	Follow-up project of Klimafreundlicher Bergsport; three thematic Work Packages: climate-friendly infrastructure of DAV, education for sustainable development, resource protection in mountaineering	Mitigation	Tourism	DAV
86	Improvement of the public transport for mountaineers in the Naturpark Karwendel (project DAV)	Implementation measure mitigation	Reduction of CO <sub>2</sub> footprint of hikers/mountaineers/climbers/bikers on their trips by choosing public transport; awareness raising	Mitigation	Tourism	DAV
87	ALPENHUMUS	Project (focus data & scenarios)	Project detecting effects of current climate change on C-storage in humus layers in the Alps <i>Completed in 2020</i> <i>Report as Book available, only in German: Alpenhumus als klimasensitiver C-Speicher und entscheidender Standortfaktor im Bergwald</i>	Mitigation	Soil	Germany (BMEL)
88	Klima-Toolbox Surselva	Planning measure adaptation	Toolbox for developing a plan of action, together with regional decision-makers	Adaptation	Crosscutting	CIPRA
89	Austrian Assessment Report 2014 (AAR14)	Publication (in-depth/scientific)	Austrian Assessment Report 2014, based on model of IPCC reports	Both	Crosscutting	UBA Austria
90	CC-Act: Awareness raising, capacity building and training on climate change adaptation at municipality level	Online info tools	Interactive online decision support tool for municipalities intended for joint application with multiplier agents	Adaptation	Crosscutting	UBA Austria
91	FAMOUS - Methods and tools for adaptation to climate change: Manual for provinces, cities and regions	Publication (focus information)	Support adaptation processes in Provinces and at municipal level; development of methods and tools	Adaptation	Crosscutting	UBA Austria
92	Good Practice Brochure: Our Municipalities in Climate Change	Publication (focus information)	Good practice brochure depicts 11 diverse examples of successful adaptation from different Austrian regions	Adaptation	Crosscutting	UBA Austria

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
93	klimaaktiv mobil - Mobility management for leisure and tourism	Implementation measure mitigation	Mobility management programme with focus on tourism; supports purchase of environmental-friendly vehicles and investments in cycling infrastructures	Mitigation	Transport	Austrian Federal Ministry for Sustainability and Tourism
94	Environmental Support Schemes (Austria)	Other	Environmental Support Schemes provides financial support for environmental projects	Both	Crosscutting	Austrian Federal Ministry for Sustainability and Tourism
95	Implementation Plan for Electric Mobility (Austria)	Planning measure mitigation	Measures and initiatives to encourage the development and use of electric vehicles	Mitigation	Transport	Austrian Federal Ministry for Sustainability and Tourism
96	Mobility Management and Fuel saving initiative (Austria)	Implementation measure mitigation	Development and implementation of projects for the promotion of sustainable mobility; training sessions for fuel-efficient driving	Mitigation	Transport	Austrian Federal Ministry for Sustainability and Tourism
97	Sustainable mobility in practice (Slovenia)	Implementation measure mitigation	Awareness raising and information project on sustainable mobility, since 2017 with focus on schools	Mitigation	Transport	Slovenia, Ministry for Environm. and spatial planning
98	Life ViVaCCAdapt (Adapting to the impacts of climate change in the Vipava Valley)	Implementation measure adaptation	Adaptation project for Vipava Valley with focus on pilot decision support system (DSS) for irrigation in order to rationalize water consumption	Adaptation	Mountain farming	Slovenia, Ministry for Environm. and spatial planning
99	Climate mitigation and adaptation support for municipalities in Tyrol	Publication (focus information)	Information folder for Tyrolean communities with facts and links to climate change and adaption to climate change	Both	Crosscutting	Tyrol
100	Course for Climate protection Consultants (Kommunaler Klimaschutzbeauftragter) (Tyrol)	Other	Training for municipal staff; participants get holistic and application-oriented information about climate protection	Mitigation	Energy	Tyrol
101	Strategy Tyrol 2050	Planning measure mitigation	Energy strategy: until 2050 the energy consumption in Tyrol is to be halved, share of renewable energies increased by 30%	Mitigation	Energy	Tyrol

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
102	Liechtenstein Aktionsplan Klimabericht	Planning measure mitigation	Action Plan for implementation of Liechtenstein's climate strategy	Mitigation	Crosscutting	Liechtenstein
103	ACRP – Austrian Climate Research Programme	Other	The ACRP supports high quality research aimed at advancing the science of climate change, adaptation and (partly) mitigation in AT	Both	Crosscutting	Austrian Federal Ministry for Sustainability and Tourism
104	Klimawandelanpassungsmodellregionen - climate adaptation model regions	Implementation measure adaptation	Support for climate adaptation model regions, the participants become flagship regions for climate change adaptation	Adaptation	Crosscutting	Austrian Federal Ministry for Sustainability and Tourism
105	Austrian Climate and Energy Fund (KLI.EN)	Implementation measure mitigation	Fund to support the reduction of GHGs in Austria; focus on research and development	Mitigation	Energy	Austrian Federal Ministry for Sustainability and Tourism
106	Green Electricity Act 2012 and Feed-In tariff ordinance	Implementation measure mitigation	System of fixed feed-in tariffs for various forms of renewable electricity generation; 2012 amendment includes expansion targets for RES production until 2020	Mitigation	Energy	Austrian Federal Ministry for Sustainability and Tourism
107	Increased energy efficiency in buildings	Implementation measure mitigation	Different support programmes to improve energy efficiency in buildings	Mitigation	Energy	Austrian Federal Ministry for Sustainability and Tourism
108	Increased share of renewable energy for space heating (Austria)	Implementation measure mitigation	Different support programmes for exchanging heating systems with focus renewable heating	Mitigation	Energy	Austrian Federal Ministry for Sustainability and Tourism
109	Programme for rural development (Austria)	Implementation measure mitigation	The Austrian Agri-Environmental Programme 2014–2020 includes several measures designed to reduce GHG emissions from the agricultural sector	Mitigation	Mountain farming/ Agriculture	Austrian Federal Ministry for Sustainability and Tourism

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
110	Local adaptation to climate change in Alpine municipalities in Italy	Event	4 seminars with public officers and experts from local and subregional institutions to spread information on the Climate Action Plan of the AC, based on local adaptation guidelines	Adaptation	Crosscutting	Italy
111	The Lombardy Region's "Document of Regional Adaptation to Climate Change" (Plan) - DARACC	Planning measure adaptation	Action Plan for Adaptation in Lombardia; governance tool to define priority fields for action	Adaptation	Crosscutting	Lombardy Region
112	The Cortina Charter (La Carta di Cortina)	Implementation measure mitigation	Charter to reduce environmental footprint of winter sport (events); implementation of specific measures, e.g. renovation of existing winter sport facilities and new public transport links	Mitigation	Tourism	
113	ADAMONT Project (France)	Planning measure adaptation	Partnership and integrated research action on adaptation in medium-mountain territory (near Grenoble); knowledge exchange and operational approach	Adaptation	Crosscutting	France
114	TEPCV Tarentaise Vanoise (France)	Planning measure mitigation	Regional strategy focusing on reduction of GHG; TEPCV = territory with positive energy and green growth	Mitigation	Crosscutting	Region Tarentaise Vanoise
115	Climate adaptation consulting for municipalities (Unterstützung von Gemeinden bei der Anpassung an den Klimawandel)	Implementation measure adaptation	Support of municipalities in developing risk and vulnerability analysis, to conduct stakeholder workshops and to develop specific adaptation measure; implementation of the project in 12 municipalities in Tyrol	Adaptation	Crosscutting	Tyrol
116	LIFE – ClimAct: Climate action campaign for low- income households (Doppelplus Tirol)	Implementation measure mitigation	Initiating change in everyday action of low-income households; The CO2 reduction will be reached with 60 volunteer counsellors called „energy and climate coaches“ and over 1000 coachings. <i>End of project 03/2021 – working on the follow-up project</i>	Mitigation	Energy	Tyrol

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
117	WAVE (2019)	Project (focus data & scenarios)	Atmospheric measurements	Adaptation	Other (monitoring)	Bavaria
118	AlpEnDAC I and II (2015, 2018)	Project (focus data & scenarios)	Development: Alpine Environmental Data Analysis Centre	Adaptation	Other (monitoring)	Bavaria
<b>Activities implemented at transnational level (stocktaking update 2021-2022)</b>						
119	<i>YOALIN - Youth Alpine Interrail</i>	<i>Implementation measure mitigation</i>	<i>Yocalin enables 100 selected young people to travel sustainably across the Alps by public transport in the summer (2018, 2019, 2021) to create awareness for sustainable modes of transport.</i>	<i>Mitigation</i>	<i>Transport</i>	<i>CIPRA International</i>
120	<i>MoVe the Alps - Conference on cycling</i>	<i>Event</i>	<i>Conference dedicated to climate-friendly bike holidays in the Alps</i>	<i>Both</i>	<i>Transport</i>	<i>Switzerland</i>
121	<i>Climate Action in Alpine towns</i>	<i>Implementation measure mitigation</i>	<i>Pilot project on municipal climate action, connecting the expertise to the Alpine Convention with the green priority of the Territorial Agenda.</i>	<i>Both</i>	<i>Municipal action</i>	<i>Switzerland</i>
122	<i>EUSALP Energy Observatory</i>	<i>Project (focus data &amp; scenarios)</i>	<i>Establishment of an Alpine-wide body for monitoring of energy data, harmonisation of standards &amp; methodologies; expert exchange;</i>	<i>Mitigation</i>	<i>Energy</i>	<i>EUSALP AG9</i>
123	<i>Stock-taking summary of permanent soil monitoring areas in the perimeter of the Alpine Convention</i>	<i>Planning measure adaptation</i>	<i>Summary of permanent soil monitoring areas in the perimeter of the Alpine Convention</i>	<i>Both</i>	<i>Soil</i>	<i>Working Group Soil</i>
124	<i>Adaptation at Altitude Programme: Strengthening Adaptation Knowledge, Interregional Learning and Exchange</i>	<i>Planning measure adaptation</i>	<i>This Programme aims at increasing knowledge on climate change and appropriate adaptation solutions in mountains, feeding into science-policy platforms for informed decision making.</i>	<i>Adaptation</i>	<i>Ecosystems &amp; biodiv.</i>	<i>UNEP</i>



No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
125	<i>Declaration of the XVI Alpine Conference on integrated and sustainable water management in the Alps</i>	<i>Other</i>	<i>Declaration addressing the protection/requalification of rivers, adaptation to climate change (floods and droughts), hydropower and governance in the field of water management.</i>	<i>Adaptation</i>	<i>Water</i>	<i>France</i>
126	<i>Alpine-wide conference on water resources and alpine rivers: adaptation to the challenges of climate change</i>	<i>Event</i>	<i>2-day conference organised by the French Presidency of the Alpine Convention, approx. 100 participants from 6 countries</i>	<i>Adaptation</i>	<i>Water</i>	<i>France</i>
127	<i>Young Academics Award 2020 – Emissions in the Alps: climate change and air quality, measurement and measures</i>	<i>Other</i>	<i>Award by the Alpine Convention to 5 Master theses on climate change issues</i>	<i>Both</i>	<i>Research &amp; Development</i>	<i>Permanent Secretariat</i>
128	<i>Youth Parliament of the Alpine Convention (YPAC) – 2019 session on Climate change</i>	<i>Event</i>	<i>"Parliamentary exercise by 10 highschoools from 7 Alpine countries Outputs: 9 resolutions (demands) from the youth to decision-makers"</i>	<i>Both</i>	<i>Crosscutting</i>	<i>Permanent Secretariat</i>
129	<i>Report on Climate-friendly and climate-resilient Mountain Agriculture and Forestry in operationalization of the Alpine Climate Target System</i>	<i>Publication (focus policy)</i>	<i>Report of WG Mountain Agriculture &amp; Forestry on the mandate 2019-2020 and how the activities contribute to the Alpine Climate Target System.</i>	<i>Both</i>	<i>Mountain agriculture &amp; mountain forestry</i>	<i>WG Mountain Agriculture and Forestry</i>
130	<i>Green Economy Progress Report</i>	<i>Publication (focus policy)</i>	<i>Summary of current status and ongoing activities regarding the implementation of a Green Economy in the Alps. Recommendations on concrete measures to sharpen the profile of an Alpine Green Economy.</i>	<i>Mitigation</i>	<i>Crosscutting</i>	<i>Ad-hoc working group Green Economy</i>
131	<i>Report on Contingency Planning in the Area of Natural Hazards</i>	<i>Project (focus strategy &amp; measures)</i>	<i>Comparative analysis of challenges, strengths and weaknesses between contingency planning and natural hazard management</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>Natural hazards working group</i>

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
132	<i>Exhibition of natural hazard models and risk communication tools</i>	<i>Event</i>	<i>Joint workshop of EUSALP AG8 and PLAN-ALP WG to implement knowledge transfer and exchange on good natural disaster risk reduction practices, including risk communication focusing on different social groups.</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>Natural hazards working group</i>
133	<i>Report on the Economical and prudent use of soil in the Alps</i>	<i>Publication (in-depth/scientific)</i>	<i>Overview report on the use of soil in the Alps, key facts &amp; figures, main challenges regarding prudent use of soil, possible solutions and the role of soil monitoring</i>	<i>Both</i>	<i>Soil</i>	<i>Working group Soil</i>
134	<i>Report Towards a modal shift of transalpine freight transit</i>	<i>Publication (in-depth/scientific)</i>	<i>Overview report on potential policy and infrastructural measures to improve modal shift, including proposals on intersectoral governance</i>	<i>Mitigation</i>	<i>Transport</i>	<i>Working Group Transport</i>
135	<i>Reduction of mobility demand and shift to environmentally sustainable modes: strategies and measures in the Alps</i>	<i>Publication (in-depth/scientific)</i>	<i>The report summarised the activities of WG Transport regarding the collection and good practice analysis on measures that reduce transport demand through transport saving spatial structures, new working solutions, pooling of shipments, regional distribution chains, etc.</i>	<i>Mitigation</i>	<i>Transport</i>	<i>Working Group Transport</i>
136	<i>Linking Alps Project (Project ASP)</i>	<i>Project (focus strategy &amp; measures)</i>	<i>By using innovative tools and transnationally aligned strategies for linking information mobility service, the options for low carbon mobility will be increased, by offering seamless mobility chains for passenger.</i>	<i>Mitigation</i>	<i>Transport</i>	<i>Project consortium under the lead of Austria Tec</i>
137	<i>E-smart - Integrated e-mobility planning in the Alpine Space (Project ASP)</i>	<i>Project (focus strategy &amp; measures)</i>	<i>Transnational project cooperation to develop an integrated approach to electric vehicle charging infrastructure planning and e-</i>	<i>Mitigation</i>	<i>Transport</i>	<i>Project consortium under the lead of Ricerca sul Sistema Energetico</i>

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
			<i>mobility services development, focus on Local Public Transport and Last-Mile Freight Logistics.</i>			
138	<i>ALPTREES Sustainable use and management of non native trees in the alpine region (Project ASP)</i>	<i>Project (focus strategy &amp; measures)</i>	<i>Developing a transnational approach for dealing with the challenges in non-native tree species management, taking into account positive impacts with respect to climate adaptation but also their risks for Alpine biodiversity and ecosystems.</i>	<i>Adaptation</i>	<i>Mountain forestry</i>	<i>Project consortium under the lead of Federal Research and Training Centre for Forests, Natural Hazards and Landscape (AT)</i>
139	<i>HEALPS 2 Healing Alps: Tourism based on natural health resources for the development of Alpine regions (Project ASP)</i>	<i>Project (focus strategy &amp; measures)</i>	<i>Develop and improve framework conditions and tools for a better utilisation of Alpine-specific natural health resources for the development of innovative tourism products and service chains - taking into account challenges like climate change.</i>	<i>Adaptation</i>	<i>Tourism</i>	<i>Project consortium under the Paracelsus Medical University Salzburg</i>
140	<i>ALPGRIDS Increasing RES uptake through Microgrids in the Alps (Project ASP)</i>	<i>Project (focus strategy &amp; measures)</i>	<i>ALPGRIDS aims at creating a transnational enabling environment to foster microgrid solutions, supporting in particular the creation of local energy communities.</i>	<i>Mitigation</i>	<i>Energy</i>	<i>Project consortium under the lead of Auvergne-Rhône-Alpes Energy Environment Agency</i>
141	<i>LUIGI Linking Urban and Inner-Alpine Green Infrastructure - Multi-functional Ecosystem Services for more liveable territories (Project ASP)</i>	<i>Project (focus strategy &amp; measures)</i>	<i>Development of common approaches, tools, business models, awareness raising on the role of a green infrastructure network between mountain/rural and urban areas.</i>	<i>Adaptation</i>	<i>Ecosystems &amp; biodiv.</i>	<i>Project consortium under the lead of Metropolitan City of Milan</i>
142	<i>ADO - Alpine Drought Observatory (Project ASP)</i>	<i>Project (focus data &amp; scenarios)</i>	<i>The project ADO aims to create an online drought monitoring platform and develop</i>	<i>Adaptation</i>	<i>Water</i>	<i>Project consortium under the lead of EURAC Research</i>

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
			<i>policy implementation guidelines for proactive drought management in the Alpine Space region.</i>			
143	<i>CHEERS Project</i>	<i>Project (focus strategy &amp; measures)</i>	<i>The CHEERS project focuses on the provision of approaches and tools to salvage Alpine cultural assets affected by natural risks.</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>Project consortium under the lead of Lombardy Foundation for the Environment</i>
144	<i>OpenSpaceAlps - Sustainable development of alpine open spaces by enhancing spatial planning governance</i>	<i>Project (focus strategy &amp; measures)</i>	<i>Foster multi-level transnational spatial governance with the aim to maintain open spaces as part of alpine Green infrastructure.</i>	<i>Adaptation</i>	<i>Spatial planning</i>	<i>Project consortium under the lead of Salzburg Institute for Regional Planning and Housing</i>
145	<i>Stocktaking on organic agriculture in the Alps and Developing organic agriculture scenarios for Alpine regions</i>	<i>Publication (focus policy)</i>	<i>In its mandate 2021-2022, the MAMF working group has launched a stocktaking on organic agriculture in the Alps. Based on this, organic agriculture scenarios for Alpine regions shall be developed.</i>	<i>Both</i>	<i>Mountain Agriculture</i>	<i>WG Mountain Agriculture and Forestry</i>
146	<i>Promotion of sustainable value chains in forestry and farming sectors</i>	<i>Publication (focus policy)</i>	<i>Study report to promote sustainable value chains in forestry and farming sectors by involving the relevant actors. A focus will be laid on linkages between mountain farming and forestry and urban centers. The objective will contribute to the implementation of the GEAP as well as to IP_Agr1 of the ACB.</i>	<i>Both</i>	<i>Mountain forests</i>	<i>WG Mountain Agriculture and Forestry</i>
147	<i>Alpine-wide concept for soil data harmonization &amp; monitoring</i>	<i>Publication (in-depth/scientific)</i>	<i>Development of Alpine-wide concept to coordinate- harmonize and simplify soil data collection within the Alps.</i>	<i>Both</i>	<i>Soil</i>	<i>WG Soil Protection</i>
148	<i>Potential of technologies for the promotion of sustainable passenger transport in the Alpine region</i>	<i>Publication (focus information)</i>	<i>Review of new technologies like hydrogen-powered trains and their potential contribution to sustainable transport in the Alps.</i>	<i>Mitigation</i>	<i>Transport</i>	<i>WG Transport</i>

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
149	<i>Policies and measures/instruments for sustainable mobility in the Alpine Area</i>	<i>Publication (focus policy)</i>	<i>Review of policies, measures and instruments to support sustainable mobility in the Alps</i>	<i>Mitigation</i>	<i>Transport</i>	<i>WG Transport</i>
150	<i>Climate Hour</i>	<i>Event</i>	<i>Local climate-related events to showcase diverse climate activities and inspire local action, initiated by the Swiss Presidency.</i>	<i>Both</i>	<i>Ecosystems &amp; biodiv.</i>	<i>Swiss Presidency</i>
151	<i>MoVe Inn Now</i>	<i>Event</i>	<i>MoVe INN now is an environmental education project with the aim to sensitise children and young people to the characteristics, state and importance of Alpine ecosystems and links it with climate-friendly mobility.</i>	<i>Both</i>	<i>Water</i>	<i>Swiss Presidency</i>
152	<i>White Paper "Forest fires in the Alps" of EUSALP AG8</i>	<i>Publication (focus policy)</i>	<i>White Paper of AG8 to provide a blueprint for the development of regional integrated forest fire management plans.</i>	<i>Adaptation</i>	<i>Mountain forests</i>	<i>EUSALP AG8</i>
153	<i>Study of Physical Natural Hazard Models and new prototype of interactive model</i>	<i>Project (focus data &amp; scenarios)</i>	<i>Analysis of existing hazard models and assessment of risk communication tools &amp; instruments. Based on this analysis, development of a new interactive physical hazard model and educational concepts.</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>EUSALP AG8</i>
154	<i>Report on Land take in the Alpine region: the data perspective</i>	<i>Publication (in-depth/scientific)</i>	<i>Contribution to the implementation of Pathway IP_SP1, focusing on a common data source on land take in the Alpine countries.</i>	<i>Both</i>	<i>Spatial Planning</i>	<i>WG Spatial Planning and Sustainable Development</i>
155	<i>Collection of good practices for growth and shrinking strategies</i>	<i>Publication (focus information)</i>	<i>Contribution to the implementation of Pathway IP_SP1, focusing on a collection of good practices as starting point for further activities.</i>	<i>Both</i>	<i>Spatial Planning</i>	<i>WG Spatial Planning and Sustainable Development</i>

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
156	<i>Land saving targets in Alpine countries and regions - Status report</i>	<i>Publication (focus information)</i>	<i>Contribution to the implementation of Pathway IP_SP1 by providing a status report on land saving targets as basis for further activities.</i>	<i>Both</i>	<i>Spatial Planning</i>	<i>WG Spatial Planning and Sustainable Development</i>
157	<i>Workshop on soil functions and spatial planning in the Alps,</i>	<i>Event</i>	<i>"Joint workshop of WG Soil Protection and WG Spatial Planning to address tools and processes that are needed to enable a fact-based decision making on soil functions and soil protection.</i>	<i>Both</i>	<i>Soill</i>	<i>WG Spatial Planning and Sustainable Development &amp; WG Soil Protection</i>
<b>Activities implemented at national level (stocktaking update 2021-2022)</b>						
158	<i>Climate &amp; Air Energy Plan Monaco with Energy Transition Pact (Vers un Etat climatiquement neutre et économe en énergie)</i>	<i>Planning measure mitigation</i>	<i>Action Plan on climate mitigation measures as implemented by the Government of Monaco. Implementation through Energy Transition Pact which includes individuals, associations, entrepreneurs, institutions.</i>	<i>Both</i>	<i>Energy</i>	<i>Monaca</i>
159	<i>National Strategy on Biodiversity Stratégie Nationale pour la Biodiversité"</i>	<i>Planning measure adaptation</i>	<i>National Strategy for Biodiversity to comply with requirements of the Convention on Biological Diversity. The strategy comprises 7 strategic orientations and is linked to both mitigation and adaptation.</i>	<i>Both</i>	<i>Ecosystems &amp; biodiv</i>	<i>Monaco</i>
160	<i>Advisory program "Climate-fit Tyrol regions" (Beratungsprogramm „Klimafitte Tiroler Regionen“)"</i>	<i>Implementation measure adaptation</i>	<i>Together with interested regions / community associations, awareness of the effects of climate change is raised in the context of an information event, in order to subsequently work out measures for adaptation to climate change or for climate protection in a workshop with relevant actors in the region.</i>	<i>Adaptation</i>	<i>Crosscutting</i>	<i>The free advisory service is carried out by the project partners Klima-bündnis, Energie Tirol and alpS.</i>

No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
161	<i>Green Deal Olympia Region Seefeld</i>	<i>Implementation measure mitigation</i>	<i>Development of sustainable tourism strategy in the Seefeld Plateau region, in close collaboration with the municipalities. The tourism association sees itself here as a link and regional developer. Seefeld would like to act as a pilot region in the coming years to start a sustainable change in tourism in Tyrol.</i>	<i>Mitigation</i>	<i>Tourism</i>	<i>Seefeld region</i>
162	<i>Climate alliance companies program (Klimabündnis-Betriebe Programm)</i>	<i>Implementation measure mitigation</i>	<i>Advisory program for companies that want to join Climate alliance: KlimaCheck with inspection of the company and collection of all relevant data, evaluation of possible measures, joint definition of company-specific goals and measures to implement within next 5 years.</i>	<i>Mitigation</i>	<i>Crosscutting</i>	<i>Land of Tyrol</i>
163	<i>KlimaAlps Project</i>	<i>Implementation measure adaptation</i>	<i>Project focusing on education and awareness raising with respect to climate change adaptation: training of climate educators and set-up of "KlimaTopes" as places where climate change is already visible + traveling exhibition.</i>	<i>Adaptation</i>	<i>Crosscutting</i>	<i>Land of Tyrol</i>
164	<i>Bavarian Report 2021 on the Climate (Klima-Report Bayern 2021)"</i>	<i>Publication (focus information)</i>	<i>Report and further information &amp; tools on Climate change impacts in Bavaria. A specific chapter deals with impacts and potential adaptation measures in the Alps.</i>	<i>Adaptation</i>	<i>Crosscutting</i>	<i>Climate-Centre, Bavarian Environmental Agency</i>
165	<i>Pilot Study Bavarian Climate Impact Maps</i>	<i>Planning measure adaptation</i>	<i>Development of a methodology for climate impact maps in Bavaria, combining the analysis of climate change effects and the sensitivity of regions towards climate</i>	<i>Adaptation</i>	<i>Crosscutting</i>	<i>Climate-Centre, Bavarian Environmental Agency</i>



No.	Name of activity	Type of activity	Description	Mitigation/ Adaptation	Thematic Focus	Implemented by
			<i>change impacts. Identification of sensitive areas and typology.</i>			
166	<i>Monitoring Permafrost Zugspitze Summit (Monitoring Permafrost Zugspitzgipfel)</i>	<i>Implementation measure adaptation</i>	<i>Installation of permanent measuring station for observation of temperatures in the permafrost at the peak of the Zugspitze</i>	<i>Adaptation</i>	<i>Soil</i>	<i>Geological Survey, Bavarian Environmental Agency</i>
167	<i>Educational trail about alpine soils</i>	<i>Implementation measure adaptation</i>	<i>Educational adventure trail about alpine soils in the Bavarian alps.</i>	<i>Mitigation</i>	<i>Soil</i>	<i>Bavarian Environment Agency</i>
168	<i>GOAL –Governance of local climate adaptation</i>	<i>Implementation measure adaptation</i>	<i>GOAL supports climate adaptation in small municipalities in Austria and the Alpine region. From analysis of good practices (also in other countries) to policy recommendations.</i>	<i>Adaptation</i>	<i>Municipal Action</i>	<i>Environment Agency Austria, Climate and Energy Fund Austria</i>
169	<i>Natural Hazard and Climate Change Check for Municipalities</i>	<i>Planning measure adaptation</i>	<i>Counselling tool and audit procedure in Austria to support local authorities in reviewing and enhancing their risk precaution measures.</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>Cross-sector WG in Austria, mandated by the Conference of State Environment Ministers</i>
170	<i>Project Flood Knowledge</i>	<i>Planning measure adaptation</i>	<i>Developing a cross-border coordinated approach to better deal with flood-related natural hazards.</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>Project in the frame of the Austrian-German Interreg Programme</i>
171	<i>RiKoST - Risk communication strategies</i>	<i>Implementation measure adaptation</i>	<i>Target-group oriented risk communication to improve resilience to natural hazards, focusing on cross-border risks.</i>	<i>Adaptation</i>	<i>Natural hazards</i>	<i>Regions South Tyrol and Carinthia, EURAC,</i>