

Summary of the 1st Expert Workshop on drought risk management in the Alps in Ajdovscina

Maja Jelen, Luka Štravs Ministry of the Environment and Spatial Planning, Slovenia



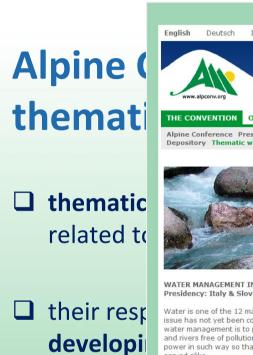
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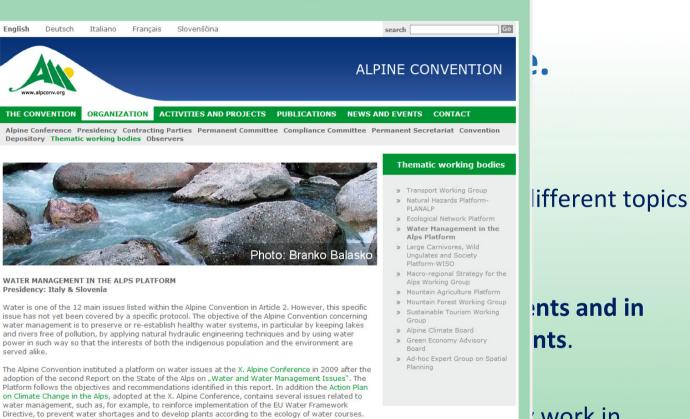
Alpine Convention...working groups (ie. thematic working bodies)

- ☐ thematic bodies support the Alpine Convention's work on different topics related to sustainable development.
- □ their responsibility consists in studying ongoing developments and in developing recommendations and implementing instruments.
- these bodies are generally **set for a two-year term** and may work in subgroups for specific topics.



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More specifically the Action Plan requires prompt and collective action from all Contracting Parties of the Alpine Convention to limit the impact of climate change, particularly by developing guidelines for the

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Alpine Conference Presidency Contra Depository Thematic working bodies

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WATER MANAGEMENT IN THE ALPS PL Presidency: Italy & Slovenia

Water is one of the 12 main issues listed issue has not yet been covered by a spe water management is to preserve or reand rivers free of pollution, by applying n power in such way so that the interests

The Alpine Convention instituted a platfo adoption of the second Report on the Sta Platform follows the objectives and recor on Climate Change in the Alps, adopted

MEMBERS OF WATER MANAGEMENT PLATFORM

Name	Organization	Country	Email	
Presidency				
Paolo Angelini	Italian Ministry for the En- vironment, Land and Sea	Italy	angelini.paolo(at)minambiente.it	
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Benoit Terrier	Rhone-Mediterranean and Corsica Water Agency	France	benoit.terrier(at)eaurmc.fr	
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Tobias Hafner	Bavarian State Ministry of the Environment and Consumer Protection	Germany		
Christian Wanger	Bavarian State Ministry of the Environment and Consumer Protection	Germany	christian.wanger(at)stmuv. bayern.de	
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Rudolf Pollinger	Autonomous Province of Bolzano/Bozen	Italy	rudolf.pollinger(at)provinz.bz.it	
Andrea Bianchini	EURAC Research	Italy	bianchini.minambientest(at) gmail.com	

in

topics

water management, such as, for example, to reinforce imp Directive, to prevent water shortages and to develop plants according to the ecology of water courses. More specifically the Action Plan requires prompt and collective action from all Contracting Parties of the Alpine Convention to limit the impact of climate change, particularly by developing guidelines for the

subgroups for specific topics.

work in



2017-2018 mandate for the platform "Water Management in the Alps"

- ☐ Focus 1: How to face drought periods in the Alpine Region: from the analysis of climate data (rain/snow patterns and scenarios) to the strategic planning
- ☐ Planned activities:
 - Expert hearing and exchange of experiences and good practices, particularly in terms of impact of 2015 drought;
 - ☐ Conference to stimulate the exchange and the disseminating of good practices and to raise awareness;



Workshop "Drought risk management in the Alps"

14. September 2017, in Ajdovščina, Slovenia

Topics of the workshop:

the current situation	in droug	ht risk i	managem	ent in t	the Alpine
region;					

- □ past drought events, that caused considerable damages;
- ☐ measures for drought risk management that have already been implemented in the past and turned out to be effective;
- ☐ systems for monitoring and modelling of drought events;
- a examples of **good practices and experiences** which can be used as good basics for future drought risk management activities.





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DROUGHT RISK MANAGEMENT IN THE ALPS EXPERT WORKSHOP & 2ND WATER MANAGEMENT PLATFORM MEETING

September, 14th (Thursday) & 15th (Friday) Aidovščina. Slovenia

14.09.2017 (THURSDAY) - EXPERT WORKSHOP AND EXCURSION

Venue: Ajdovščina Municipality, Cesta 5. maja 6a, 5270 Ajdovščina

10:00 - 14:00 Drought Risk Management in the Alps Expert Workshop (moderators: Paolo Angelini & Luka Stravs)

10:00 - 10:15 Christian Schilling (AT- BMLFUW) - Drought management in Austria

10:15 – 10:30 Hannah Berger (DE-LfU & StMUV) – New challenges in drought management in Northern

10:30 – 10:45 Dr. Giuseppe Fragola (IT – Eastern Alps District) – Droughts management in the Adige river

10:45 - 11:00 Lara Flis (SI- MOP) - Drought Risk Management in Slovenia

11:00 - 11:30 Discussion

11:30 - 12:00 Coffee Break

12:00 – 12:15 Gregor Gregorič (SI - ARSO) – Drought Monitoring in Slovenia

12:15 - 12:30 Mira Kobold (SI - ARSO) - Hydrological droughts in Alpine regions of Slovenia

12:30 – 12:45 Florjana Ulaga, Peter Frantar (SI - ARSO) – River flow regimes and discharge trends in Slovenian Alps

12:45 – 13:00 Peter Frantar, Urška Pavlič (SI - ARSO) – Possible use of water balance model mGROWA as water scarcity indicator

13:00 – 13:15 Andreja Sušnik (SI - ARSO) – DriDanube (Drought Risk In the Danube Region) project
13:15 – 13:30 Jože Papež, Silvana Batič (SI - Hidrotehnik d.d.) – Life ViVaCCAdapt project - Adapting to the

impacts of climate change in the Vipava Valley 13:30 – 14:00 Plenary Discussion

14:00 – 15:00 Quick Lunch (Hotel & Casino Gold Club Ajdovščina)

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15:00 – 17:00 Part 1 - Vogršček Water & Drought Management Reservoir (Silvana Batič, Jože Papež,)

17:00 - 19:00 Part 2 - Good (Small) Hydropower Practices in Slovenia (Alida Rejec)

20:00 – Dinner (Hotel & Casino Gold Club Ajdovščina)

15:00 - 19:00 Excursion/ Field Trip



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Expert Workshop on Drought Risk Management in the Alps

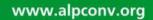
Ajdovščina, 14 September 2017

Experts from Austria, Germany (Bavaria), Italy and Slovenia presented their experiences and activities related to drought risk management. Topics of the workshop were the current situation in drought risk management in the Alpine region, past drought events, that caused considerable damages and some measures for drought management that have already been implemented in the past and turned out to be effective. Systems for monitoring and modelling of drought events, examples of good practices and experiences which can be used as good basics for future drought risk management activities were presented as well. In discussion it was brought out that due to climate change this kind of events might occur even more frequently in the future. Main conclusions were that droughts cause consequences in the height of billions of eur, that prevention measures are mostly dispersed through different sectorial documents (water management, agriculture, nature, water supply, etc.) and that more comprehensive and focused approach is needed.

- Drought management in Austria
- By Christian Schilling
- New challenges in drought management in Northern Bavaria
- By Hannah Berger
- Management of water scarcity in the Adige river basin: the case of 2017 drought By Dr. Giuseppe Fragola
- Drought Risk Management in Slovenia By Lara Flis
- . Drought Monitoring in Slovenia
- By Gregor Gregorič
- · Hydrological droughts in Alpine regions of Slovenia
- By Mira Kobold
- River flow regimes and discharge trends in Slovenian Alps
- By Florjana Ulaga, Peter Frantar
- Possible use of water balance model mGROWA as water scarcity indicator By Peter Frantar, Urška Pavlič
- DriDanube (Drought Risk In the Danube Region) project
 Ry Andreia Sušnik
- Life ViVaCCAdapt project Adapting to the impacts of climate change in the Vipava Valley By Jože Papež, Silvana Batič

Thematic working bodies

- » Transport Working Group
- » Natural Hazards Platform-PLANALP
- » Ecological Network Platform
- » Water Management in the Alps Platform
- » Large Carnivores, Wild Ungulates and Society Platform-WISO
- » Macro-regional Strategy for the Alps Working Group
- » Mountain Agriculture Platform
- » Mountain Forest Working Group
- » Sustainable Tourism Working Group
- » Alpine Climate Board
- » Green Economy Advisory Board
- » Ad-hoc Expert Group on Spatial Planning



WORKSHOP SUMMARY

- 1. We regionally observe drought periods in the alpine river basins as they recently happened in summer 2015 in large parts of Europe. Due to climate change, these events will probably occur even more often in future (less rain in summertime, mid-flows are decreasing, higher fall discharges etc.).
- 2. There are areas with abundant water resources in the Alps and there are lowland areas (still in the Alpine perimeter), where the effects of droughts have been recognized.
- Drought issue is mentioned in documents of the EU and regional cooperation, but there is no legal document about drought management on EU level nor are droughts included in the Alpine Convention protocols.



WORKSHOP SUMMARY

- 4. It was discussed that <u>legal framework and strategic management of</u> <u>droughts are needed</u> (drought risk management plans etc.) and that the <u>implementation of measures is important</u>.
- 5. Some of the implemented measures for drought management, which turned out to be effective, were presented.
- drought events, however data needs for models and predictions are extensive and in some cases upgrades of data collections and documentation of drought events are necessary. There are different types of droughts (not only agricultural) and a lot more information and experience on how to quantify these situations is necessary (e.g. common rules for thresholds).

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WORKSHOP SUMMARY

- 7. <u>Existing knowledge, best practices, guidelines and information by</u> <u>research observatories can be used as a good basis</u> for the future international cooperation and for supporting local actions regarding the drought risk management in the Alpine region.
- 8. <u>The importance of raising awareness</u> (including the role of media) on drought risk was emphasized. <u>Especially communication about measures</u> <u>for preparedness</u> with effective graphics demonstration is very important.

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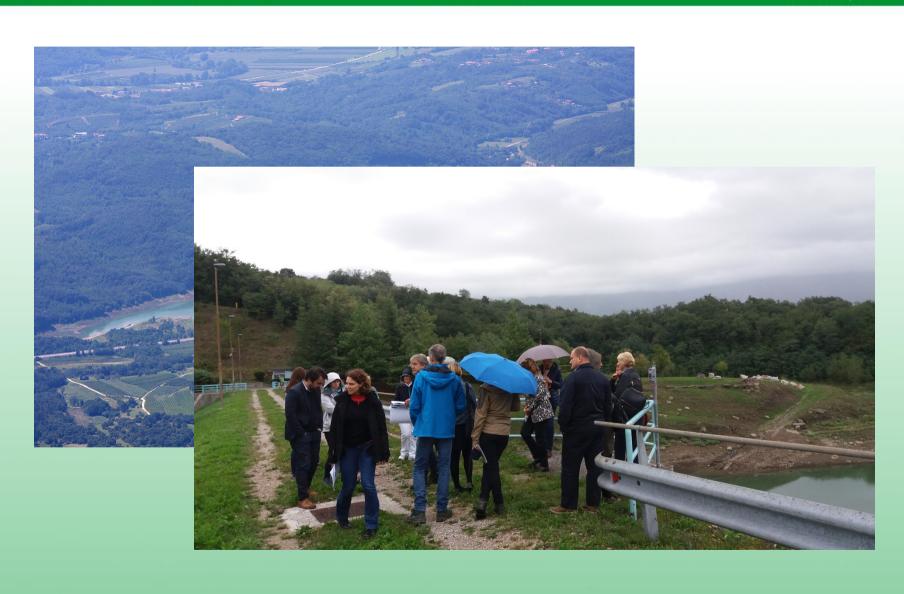


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Please visit the webpage of the Alpine Convention

http://www.alpconv.org/en/organization/groups/WGWater/default.html/

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