



**Adapting the Mediterranean  
to climate change**

**MEDACC**

**Demonstration and validation of innovative  
methodology for regional climate change adaptation in  
the Mediterranean area**

LIFE12 ENV/ES/000536

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Duration of project: 5 years

## **Communication and dissemination actions and products**

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[www.medacc-life.eu](http://www.medacc-life.eu)



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## Executive summary

This deliverable compiles the communication and dissemination outcomes produced within LIFE MEDACC framework until the end of the project. It includes press releases, blog posts, communications and presentations in conferences/seminars/workshops and scientific/technical publications.

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The aim of the Action D7 (Complementary actions for dissemination) is to diffuse our communication tools in order to maximise the targeted audience. During the project, six main activities were performed:

## 1. European official websites

- The MEDACC project is included in the database of the Climate-Adapt (European Climate Adaptation Platform):  
[http://climate-adapt.eea.europa.eu/projects1?ace\\_project\\_id=5301](http://climate-adapt.eea.europa.eu/projects1?ace_project_id=5301).

## 2. Press releases

- 12th February 2015: Video presented at TV Girona about forest pilot experiences  
<https://www.youtube.com/watch?v=utC9OBdk58l&feature=youtu.be>  
<https://www.youtube.com/watch?v=n81xKDRoMKI&feature=youtu.be>
- 17<sup>th</sup> February 2015: Article published at Osona.com (digital newspaper) with title *Climate change: what should we do to adapt it?*  
<http://www.naciodigital.cat/osona/opinio/10172/canvi/climatic/hem/fer/>
- 5<sup>th</sup> October 2015: Article published at Diari Girona with title *Towards a warmer Mediterranean: a project to adapt water management, forest and agriculture to face climate change.*
- 20<sup>th</sup> October 2015: Article published at Setmanari de l'Alt Empordà with title *Irrigators on the right side of the Muga unite against salinization of wells.*
- 17<sup>th</sup> November 2015: Article published at Setmanari de l'Alt Empordà with title *Constitution of the Water Community Users of the coastal plain of the Muga.*
- 26<sup>th</sup> November 2015: Article published at Ara Journal with title *Catalonia is thirsty and water deficit will increase.*
- 27<sup>th</sup> November to 1<sup>st</sup> December 2015: Articles published as result of the guided visit for journalists (27<sup>th</sup> November 2015) to Muga basin at ARA, ABC, El Punt Avui ... among other journals.
- 17<sup>th</sup> December 2015: Article published at El País journal with title *Maintain the countryside to fight climate change.*  
[http://elpais.com/elpais/2015/12/02/ciencia/1449080170\\_739887.html#bloque\\_comentarios](http://elpais.com/elpais/2015/12/02/ciencia/1449080170_739887.html#bloque_comentarios)
- 11<sup>th</sup> January 2016: Article published at iAqua blog with title *MEDACC. Adapting the Mediterranean to climate change.*  
<http://www.iaqua.es/blogs/ignasi-servia/medacc-adaptando-mediterraneo-al-cambio-climatico>
- 21<sup>st</sup> January 2016: Article published at l'Informatiu dels Parcs from Diputació de Barcelona's web with title *Resource Center Park hosts the 3rd meeting of the Monitoring and Management Committee of Life MEDACC Project.*  
[http://parcs.diba.cat/web/l-informatiu/-/montesquiu-el-centre-de-recursos-del-parc-acull-la-3a-reunio-del-comite-de-seguiment-i-gestio-del-projecte-life-medacc?utm\\_source=l-informatiu&utm\\_medium=correu&utm\\_content=montesquiu-el-centre-de-recursos-del-parc-](http://parcs.diba.cat/web/l-informatiu/-/montesquiu-el-centre-de-recursos-del-parc-acull-la-3a-reunio-del-comite-de-seguiment-i-gestio-del-projecte-life-medacc?utm_source=l-informatiu&utm_medium=correu&utm_content=montesquiu-el-centre-de-recursos-del-parc-)

## Action D7. Deliverable 20: Communication and dissemination actions and products

[acull-la-3a-reunio-del-comite-de-seguiment-i-gestio-del-projecte-life-medacc&utm\\_campaign=28](http://medacc-life.eu/medacc&utm_campaign=28)

- 29<sup>th</sup> January 2016: Article published at Generalitat de Catalunya web with title *Briefing on "Water and Climate Change" to the Catalan Water Agency.*  
[http://premsa.gencat.cat/pres\\_fsvp/AppJava/notapremsavw/290391/ca/sessio-informativa-aigua-canvi-climatic-lagencia-catalana-laigua.do](http://premsa.gencat.cat/pres_fsvp/AppJava/notapremsavw/290391/ca/sessio-informativa-aigua-canvi-climatic-lagencia-catalana-laigua.do)
- 21<sup>st</sup> April 2016: Article published at Empordà Journal with title *The Metereological Conference poses a guaranteed minimum flow for Muga.*  
<http://www.emporda.info/comarca/2016/04/21/jornades-meteorologia-plantegen-cabal-minim/311334.html>
- 23<sup>rd</sup> May 2016: Video presented at Espai Terra (TV3) about Muga forest pilot experiences  
<http://www.ccma.cat/tv3/alcarta/espai-terra/dilluns-23-demaig/video/5602459/>
- 17<sup>th</sup> June 2016: Article published at La Vanguardia Journal with title *The flow of Spanish rivers has decreased by 20% the past 25 years by climate change.*  
<http://www.lavanguardia.com/natural/a-fondo/20160616/402555813752/caudales-de-los-rios-cambio-climatico.html>
- 18<sup>th</sup> July 2016: Article published at Agro-Cultura Journal with title *Global change and climate change in the basin of the Segre.*  
<http://www.agrocultura.org/canvi-global-i-canvi-climatic-a-la-conca-del-segre/>
- 1<sup>st</sup> August 2016: Article published at IRTA's web with title *The rain of summer months in the Segre basin has dropped almost 45% in the last 60 years.*  
<http://www.irta.cat/es-ES/RIT/Noticies/Paginas/Efectes-embassaments-Segre.aspx>
- 31<sup>st</sup> August 2016: Article published at Món Rural Magazine with title *The vineyard, key in carbon fixation and water cycle regulation.*
- 30<sup>th</sup> September 2016: Article published at Segre Journal with title *Climate change will force to modify the current agrarian production model.*
- 12<sup>th</sup> December 2016: Article published at Sostenible online Journal with title *If Catalonia wants to struggle against climate change, forest management is needed, specially cutting trees.* <http://sostenible.cat/node/116922>
- 12<sup>th</sup> December 2016: Article published at Sostenible online Journal with title *Catalan agriculture: The challenge is to adapt to climate change.*  
<http://sostenible.cat/node/116923>
- 21<sup>st</sup> December 2016: Article published at feeding the world Bulletin with title *IRTA's commitment to climate change.*  
[http://www.feedingtheworld.es/irta/inicio/la-apuesta-del-irta-contra-el-cambio-climatico\\_357\\_3\\_406\\_0\\_1\\_in.html](http://www.feedingtheworld.es/irta/inicio/la-apuesta-del-irta-contra-el-cambio-climatico_357_3_406_0_1_in.html)
- March-April 2017: Article published at Enoviticultura Magazine with title *The mobility of the cultivation of the grapevine, An adaptation to climate change?.*  
<http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/enoviticultura.pdf>
- 2<sup>nd</sup> October 2017: Article published at El economist Journal with title *Climate change is here and has a second derivative.*  
<http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/001vqbhb.pdf>

## Action D7. Deliverable 20: Communication and dissemination actions and products

- 25<sup>th</sup> November 2017: Article published at Setmana Vitivinícola SeVi Magazine with title *The mobility of the cultivation of the grapevine, An adaptation to climate change?*.  
<http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/img087.pdf>
- 25<sup>th</sup> April 2018: Article published at Ara Journal with title *The flows of the Catalan rivers, in decline due to climate change*.  
[http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/ara\\_250418.pdf](http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/ara_250418.pdf)
- 25<sup>th</sup> April 2018: Article published at La Mañana Journal with title *It is warned that Rialb could be emptied if they do not rethink irrigation water supplies*.  
[http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/la\\_manana\\_250418.pdf](http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/la_manana_250418.pdf)
- 25<sup>th</sup> April 2018: Article published at Segre Journal with title *A government agency urges to reduce the water concession of Segarra-Garrigues*.  
[http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/segre\\_250418.pdf](http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/segre_250418.pdf)
- 25<sup>th</sup> April 2018: Article published at Ecodiari online Journal with title *The Catalan adaptation to climate change must rethink the management of water, forests and agriculture*.  
[https://www.naciodigital.cat/ecodiari/noticia/10371/adaptacio/catalana/al/canvi/climatic/repen-sar/gestio/aigua/dels/boscos/agricultura?utm\\_source=newsletter&utm\\_medium=email&utm\\_campaign=visitesbutlleti&utm\\_content=ecodiari](https://www.naciodigital.cat/ecodiari/noticia/10371/adaptacio/catalana/al/canvi/climatic/repen-sar/gestio/aigua/dels/boscos/agricultura?utm_source=newsletter&utm_medium=email&utm_campaign=visitesbutlleti&utm_content=ecodiari)
- 25<sup>th</sup> April 2018: Article published at La Vanguardia Journal with title *The Ter and Muga rivers have lost almost 50% of the flow*.  
[http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/segre\\_250418.pdf](http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/segre_250418.pdf)
- 25<sup>th</sup> April 2018: Article published at Diari de Girona Journal with title *Ter and Muga rivers, at half the flow they had 45 years ago*.  
[http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/diari\\_girona\\_250418.pdf](http://medacc-life.eu/sites/medacc-life.eu/files/docuemnts/diari_girona_250418.pdf)
- 28<sup>th</sup> April 2018: Article published at Sostenible online Journal with title *Catalonia needs to rethink the management of water, forests and agriculture*.  
<http://sostenible.cat/node/119228>
- 14<sup>th</sup> May 2018: Article published at El Punt Avui Journal with title *The rivers lose water*.  
<http://www.elpuntavui.cat/territori/article/11-mediambient/1392975-els-rius-perden-aigua.html>
- 14<sup>th</sup> May 2018: Article published at El Punt Avui Journal with title *“Climate change is the crisis of a growth model”*.  
<http://www.elpuntavui.cat/territori/article/11-mediambient/1391721-el-canvi-climatic-es-la-crisi-d-un-model-de-creixement.html>

### 3. Conferences and seminars

The Technical Application Form foresees project participation in at least 5 conferences, seminars or symposia along the whole project duration. During the project, LIFE MEDACC has been presented at:

- 13<sup>rd</sup> December 2013, *Technical Conference Agriculture and climate change relationships, cause and effect*. Caldes de Montbuí. LIFE MEDACC project was presented.

## Action D7. Deliverable 20: Communication and dissemination actions and products

- 19<sup>th</sup> March 2014, *Conference of Meteorology, Climate Change and Water. Notes of meteorology of the Alt Empordà. Science, singularities and tradition*. The project coordinator was invited to give a presentation about "Water as the most vulnerable element to climate change. Adaptation strategies in Catalonia". LIFE MEDACC project was also explained.
- 20<sup>th</sup> June 2014, *Technical Conference Impact of climate change on agriculture in the Muga basin. Castelló d'Empúries*. LIFE MEDACC project was presented.
- 26<sup>th</sup> June 2014, *6th Conference of updating knowledge on climate change in Catalonia*. LIFE MEDACC project was presented in this conference, which annually join Catalan experts on climate change to discuss some specific aspects of this field.
- 29<sup>th</sup> November 2014, *Technical Conference The water resources management of Baix Ter. Torroella de Montgrí*. LIFE MEDACC project was presented.
- 6<sup>th</sup> February 2015, *Conference of presentation of the global adaptation indicator to climate change in Catalonia*. Methodology for the evaluation of climate change adaptation measures was presented.
- 23-25<sup>th</sup> March 2015, *REMEDIA IV Workshop. Madrid*. LIFE MEDACC project was invited to participate at the roundtable about the situation of mitigation of greenhouse gases in the agroforestry sector. The poster "Evaluation of woody crops biomass such as carbon stock in the Mediterranean basin" presented by the IRTA partner scored one of prizes for the best poster of the meeting.
- 11<sup>th</sup> May 2015, *Technical Conference The water cycle in the agricultural sector: a challenge in the context of the water framework decret and climate change*. Life+ MEDACC was presented in this Technical Meeting held in Caldes de Montbui.
- 28<sup>th</sup> May 2015, *XV World Water Congress. Edinburgh*. The LIFE MEDACC project has presented the paper "Recent change in water resources and future scenarios: Connection with climate change hydrological processes in three basins of Catalonia (NE Spain) affected by different water management".
- 22<sup>nd</sup> June to 2<sup>nd</sup> July 2015, *26th International Union of Geodesy and Geophysics General Assembly. Prague*. The LIFE MEDACC project has presented a poster under the title "Downstream accentuation of hydrological alterations by dams in heavily regulated of Catalonia".
- 7<sup>th</sup> to 10<sup>th</sup> July 2015, *International Scientific Conference Our common future under Climate Change, Paris*. The LIFE MEDACC project has presented a poster under the title *Changes in extreme hydrological events in highly regulated river basins of Catalonia (NE Spain): discerning between climate change processes, land cover modifications and water resources management*.
- 3<sup>rd</sup> to 4<sup>th</sup> September 2015, *World Symposium on Climate Change Adaptation and the 3rd World Climate Teach-In Day*. Presentation with the title *A Global Indicator of Climate Change Adaptation in Catalonia*.
- 16<sup>th</sup> November 2015, *Conference The influence of climate change on agriculture. Barcelona*. Some results of LIFE MEDACC were presented.
- 18<sup>th</sup> November 2015, *XII Jornada CREAM SCB ICHN, Barcelona*. Presentation with the title *Forests, water and carbon: The regulation paper of forest ecosystems*.
- 2<sup>nd</sup> December 2015, *INFORMED - Workshop on methodologies to design global change scenarios (GCS) for the Mediterranean forests, Solsona (Lleida)*. Presentation with the title *Practical considerations to build up socio-economical scenarios for local eco-hydrological studies (MEDACC project)*.

## Action D7. Deliverable 20: Communication and dissemination actions and products

- 20<sup>th</sup> April 2016, *Second Conference of Meteorology, Climate Change and Water, Figueres*. Presentation with the title *Does the Empordà progress in adapting to the impacts of climate change?*
- 27<sup>th</sup> April 2016, *Jornadas Aplicadas de GIS, Lleida*. Presentation with the title *Integration of spatial and temporal information to propose adaptation measures for agriculture to climate change*.
- 12<sup>th</sup> May 2016, *Jornada Olivar y cambio climático, Madrid*. Presentation with the title *Measures to adapt olive trees to climate change*.
- 13<sup>th</sup> May 2016, *Conference Climate change: A reality and a challenge for viticulture, Barcelona*. Presentation with the title *Climate change: a reality, a challenge and an opportunity for the viticulture*.
- 1<sup>st</sup> June 2016, *Technical Conference Climate change and viticulture in the Penedès*. Life MEDACC was presented in this Technical Meeting held in Sant Sadurní d'Anoia.
- 18<sup>th</sup> August 2016, *Adapting the Mediterranean to climate change, Prada de Conflent*. Presentation with the title *Climate change: the state of affairs after the COP 21 in Paris*.
- 7<sup>th</sup> to 9<sup>th</sup> September 2016, *IX Iberian Congress on Water Management and Planning, Valencia*. Presentation with the title *Impacts of climate and land use change on historical streamflow in three headwaters in Catalonia (NE Spain)* and the title *Water, agriculture, forests and climate change*.
- 29<sup>th</sup> September 2016, *Technical Conference Challenges and adaptation of agriculture to global change, Lleida*. The results of LIFE MEDACC project were explained in three presentations.
- 6<sup>th</sup> October 2016. 2nd Technical Conference *Local adaptation to climate change. How nature can help? Montesquiu, Barcelona*. Presentation with the title *Adapting Catalonia to climate change with the help of nature*.
- 10<sup>th</sup> November 2016, *Technical Conference Adaptation strategies to climate change of Mediterranean agro-forestry sector, Girona*. The results of LIFE MEDACC projects were explained in four presentations.
- 15<sup>th</sup> and 16<sup>th</sup> November 2016, *NET-SCARCE International Conference, Barcelona*. Invited speaker with the title *Experiences in Mediterranean river basins adaptation to global change*.
- 24<sup>th</sup> November 2016, participation in the *kick-off meeting of Life CLINOMICS project*, in Vilafranca del Penedès. IRTA gave an invited presentation about Impacts of climate change and adaptation measures in agriculture, and CREA made another one about Impact on climate change and adaptation measures in forest management.
- 22<sup>nd</sup> to 23<sup>th</sup> March 2017, *Second Water Congress in Catalonia: water as a sustainable resource, Barcelona*. Presentation with the title *Measures to adapt to climate change*.
- 20<sup>th</sup> April 2017, *Workshop on climate change adaptation (in the framework of Life MASTERADAPT project), Milan*. LIFE MEDACC project was presented.
- 21<sup>st</sup> May 2017, *Conference of Food sovereignty, Navàs*. Catalan Office for Climate Change of the Generalitat de Catalunya, held a conference on the evolution of climate change and its effects in our region.
- 5<sup>th</sup> to 9<sup>th</sup> June 2017, *Third European Climate Change Adaptation Conference, Glasgow*. In the framework of Life MEDACC and Life Pletera, Dr. A. Sanchez-Arcilla presented *Sea-level rise impacts in the Med. The Catalan coast case*.



## Action D7. Deliverable 20: Communication and dissemination actions and products

- 3<sup>rd</sup> July 2017, *Technical Conference Impact of water use on agriculture, Barcelona*. The results of LIFE MEDACC project were presented.
- 11<sup>th</sup> August 2017, *Technical Conference Climate change and agriculture, Riudoms*. In the framework of 37<sup>th</sup> Fair of the hazelnut the results of LIFE MEDACC project were presented.
- 16<sup>th</sup> March 2018, *Work table on Adaptation to climate change in the agricultural sector, Lleida*. Between the Life MEDACC team and the Vegetable Defense Groups and Board of Economic Promotion of the Diputació de Lleida.
- 26<sup>th</sup> April 2018, *Sixth International Congress on Mountain and steep slope viticulture, Tenerife*. Presentation with the title *Can the mobility of grapevine cultivation be an adaptation to climate change?*
- 18<sup>th</sup> May 2018, *Informative session about the Life MEDACC project, Barcelona*. The results of LIFE MEDACC project were explained.
- 30<sup>th</sup> May 2018, *Conference of Challenges and opportunities to build the mountains of the future, Barcelona*. Presentation with the title *The Third Report on Climate Change in Catalonia, mountains and water*.

## 4. Fairs and exhibitions

The Technical Application Form foresees project participation in at least 3 fair/exhibitions along the whole project duration. During the project, LIFE MEDACC has participated in:

- 25-28th September 2014, participation in the *Sant Miquel Fair*. Lleida. LIFE MEDACC project was presented in the Agricultural Fair of Sant Miquel in Lleida.
- 29th September to 2nd October 2016, participation in the *Sant Miquel Fair*. Lleida. LIFE MEDACC project was presented in the Agricultural Fair of Sant Miquel in Lleida.
- 11<sup>th</sup>-13<sup>th</sup> August 2017, the results of LIFE MEDACC project were presented in the *37th Fair of the hazelnut* in Riudoms (Tarragona).

## 5. Scientific and technical papers

The Technical Application Form foresees the preparation of at least 4 scientific articles. During the project, LIFE MEDACC has produced:

- Agell E. et al. (2016) *A Global Indicator of Climate Change Adaptation in Catalonia*. W. Leal Filho et al. (eds.), *Implementing Climate Change Adaptation in Cities and Communities, Climate Change Management*, DOI 10.1007/978-3-319-28591-7\_10, 191-201.
- Baiges T, Casals P, Piqué M, Pla E (2016) Del manual al rodal: Aplicació de diferents itineraris ORGEST a un bosc de pinassa amb boix. Avaluació del impacte de la gestió i la crema prescrita sobre diferents objectius. In [Tusell JM, Beltrán M (Coords.)]. XXXIII Jornades Tècniques Silvícoles Emili Garolera. Consorci Forestal de Catalunya. Santa Coloma de Farners. 94 pàg. ISBN: 978-84-608-8626-6.
- Vicente-Serrano, S.M., J. Zabalza-Martínez, G. Borràs, J.I. López-Moreno, E. Pla, D. Pascual, R. Savé, C. Biel, I. Funes, N. Martín-Hernández, M. Peña-Gallardo, S. Beguería, M. Tomas-Burquera. (2017) Effect of reservoirs on streamflow and river regimes in a heavily

regulated river basin of Northeast Spain. *Catena* 149: 727-741  
<http://dx.doi.org/10.1016/j.catena.2016.03.042>

- Vicente-Serrano, S.M, J. Zabalza-Martínez, G. Borràs, J.I. López-Moreno, E. Pla, D. Pascual, R. Savé, C. Biel, I. Funes, C. Azorin-Molina, A. Sanchez-Lorenzo, N. Martín-Hernández, M. Peña-Gallardo, E. Alonso-González, M. Tomas-Burguera, A. El Kenawy,. (2017) Extreme hydrological events and the influence of reservoirs in a highly regulated river basin of northeastern Spain. *Journal of Hydrology: Regional Studies* 12: 13-32.

## 6. Other dissemination materials

- The Life MEDACC project was present at the Global Eco Forum in Barcelona, in the old modernist Hospital de Sant Pau in October 2015. Two panels with project information were shown in the Forum, which were visited by about 300.000 people.
- We have produced 2 video films of the project, available on the project website and on YouTube (*Why do the rivers carry water when there is not rain?* <https://www.youtube.com/watch?v=yoGej-9EPtA&t=64s> / *Forest pilot experiences at Requesens* <https://www.youtube.com/watch?v=ar9axAkiNZE&t=6s>).
- 550 copies of the Layman's report
- 900 annual desktop and wall calendars.
- 250 desktop weather stations.
- 175 umbrellas.