



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

Academia and Research, Think Tank / Participants

ENEA

ENEA is the National Agency for New Technologies, Energy and Sustainable Economic Development, a public body aimed at research, technological innovation and the provision of advanced services to enterprises, public administration and citizens in the sectors of energy, the environment and sustainable economic development

AREAS OF ACTIVITY

Agriculture

Biodiversity, Nature-Based Solutions, Ecosystem Services, Bioeconomy, Climate Risks & Responses, Disaster Risk Management, Climate Services, EU Projects, Food Production & Supply Chain, Research & Development, Climate change adaptation

PROJECT

MED-GOLD - Turning climate-related information into added value for traditional MEDiterranean Grape, OLive and Durum wheat food systems

Downloadable infographic summary: <https://tinyurl.com/med-gold-infographic>

Plenty more links to videos below! MED-GOLD is a four-year research and innovation project funded by Horizon 2020, the European Union's Framework Programme for Research and Innovation. The project is led by ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), and the project partnership includes Barcelona Supercomputing Center (Spain), Barilla (Italy), Lutech BeeToBit (Italy), National research Council (Italy), DCOOP (Spain), ec2ce (Spain), GMV Aerospace (Spain), Horta (Italy), Joint Research Center (European Commission), Met Office (UK), National Observatory of Athens (Greece), Sogrape Vinhos (Portugal), Universidad Militar Nueva Granada (Colombia), University of Leeds (United Kingdom), University of Thessaly (Greece). The MED-GOLD project demonstrates the proof-of-concept for climate services in agriculture by developing case studies for three staples of the Mediterranean food system: grape, olive and durum wheat. Agriculture is primarily driven by weather and climate, and future climatic conditions will further increase its vulnerability to crop failure and pest damage. Nowhere on the globe will this have consequences as dramatic as in the Mediterranean Basin — a hot spot of global change where higher than average projected climate change threatens an extremely rich and intertwined biological and cultural diversity and will increase its vulnerability to

natural hazards including biological invasions. The challenge for this region is how to increase the resilience of this complex ecological, economic, and cultural heritage of global relevance in an era of decreasing resources and climate change. Climate services, understood as the transformation of climate-related data and other information into customised products (e.g., projections, trends, advice on best practices, and any other climate-related service that may be of use for the society), have the potential to support the transition towards a climate-resilient and low-carbon society. Developing a capacity for climate services that can inform decision-making in agriculture is therefore a priority both in Europe and worldwide, as agriculture is directly affected by climate variability and change. The long-term goal of this project is to make European agriculture and food systems more competitive, resilient, and efficient in the face of climate change. The cumulative added value of MED-GOLD ranges from enhancing agricultural management to supporting and informing policy-making at the Mediterranean, European, and global levels. This is because olive, grape, and durum wheat are grown across the globe and produce the raw materials for global food commodities such as olive oil, wine, and pasta. These, in turn, are key staple foods of the Mediterranean diet with demonstrated potential for contrasting the increasing homogeneity in global food supplies with important food security implications and significant health benefits, and for reducing the ecological footprint of the global food system. The diverse, multidisciplinary partnership of MED-GOLD enables suppliers/purveyors and users to develop climate services jointly in close collaboration — a key challenge for achieving climate services with high added-value. Project partners that are world leaders in the wine, olive oil, and pasta sectors lead the three Mediterranean case studies. Extension of the MED-GOLD approach is tested for coffee — the world's most important agricultural commodity. Links to more MED-GOLD videos follow.

Climate services for the grape and wine sector: The MED-GOLD Dashboard for the wine sector <https://youtu.be/2Y5xgdXnPI8> The MED-GOLD Dashboard presented by António Graça of Sogrape Vinhos https://youtu.be/-RE8D_5gPfw MED GOLD climate services for the grape and wine sector <https://youtu.be/D9qsRVg3QSY>

Climate services for the olive and olive oil sector: The MED-GOLD Dashboard for the olive sector <https://youtu.be/FzZhoj5xv8I> The MED-GOLD Olivia predictive platform for the olive sector <https://youtu.be/7PjtMcof4MA> MED GOLD climate services for the olive and olive oil sector <https://youtu.be/KUmRbmYkNDM>

Climate services for the durum wheat and pasta sector: The MED-GOLD Granoduro.net decision support system for durum wheat <https://youtu.be/LBu-wTIIAlc> MED GOLD climate services for the durum wheat sector <https://youtu.be/uBZjoAO9p8c> Climate services for solving ecological problems

in agriculture: MED-GOLD CASAS Global physiologically based demographic models

<https://youtu.be/dl69l9l8FAM> Contact: Luigi Ponti

<https://www.ecca21.eu/participants/1856> Official website of the project:

<https://www.med-gold.eu/>

Applies to

Database, Local level, Food security, Communication, ICT solutions, Climate policy, National level,

Regional level, Climate science, Water management, Climate services, Climate modelling, Earth observation, Knowledge transfer, Climate forecasting, Adaptation strategy, Technology transfer

Platforms, websites, Agriculture, forestry, Extreme weather events, Education and training, Simulation, gamification, Demonstration activities, Climate change adaptation, Climate change mitigation, International cooperation, Pollution and waste management, Social sciences and humanities, Disaster risk management and reduction, Decision support tools, decision-making,

Business development and commercialisation, Assessment of climate change impacts (physical, economic, social...)



ECCA 2021 - Climate Adaptation solutions - MED-GOLD

Video <https://youtu.be/uaEGRA527rY>

