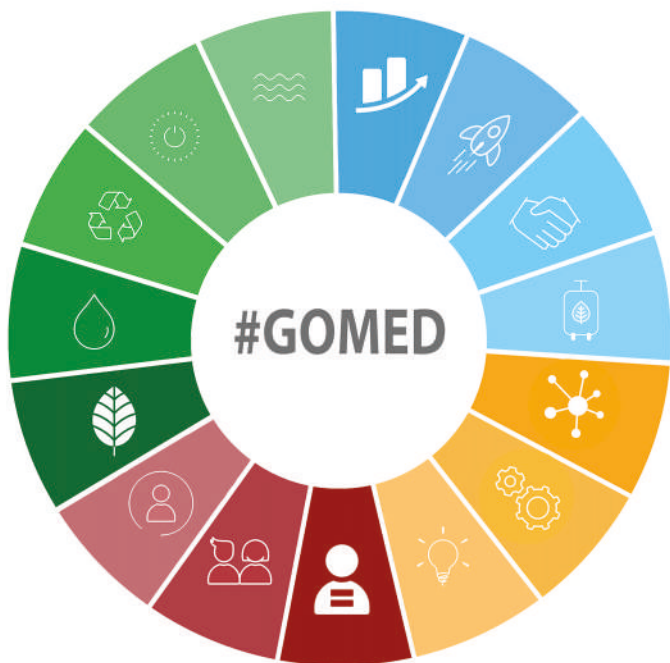




# COOPERATING FOR A MORE COMPETITIVE, INNOVATIVE, INCLUSIVE AND SUSTAINABLE MEDITERRANEAN



Catalogue of the standard projects funded by the  
ENI CBC 'Mediterranean Sea Basin' Programme

**Publisher**



Managing Authority  
Regione Autonoma della Sardegna  
Cagliari, Italy

**Concept and editing**

ENI CBC Med Programme

**Artwork and graphics**

Begoña Machancoses, Laura Ojeda

**Printed**

November 2019

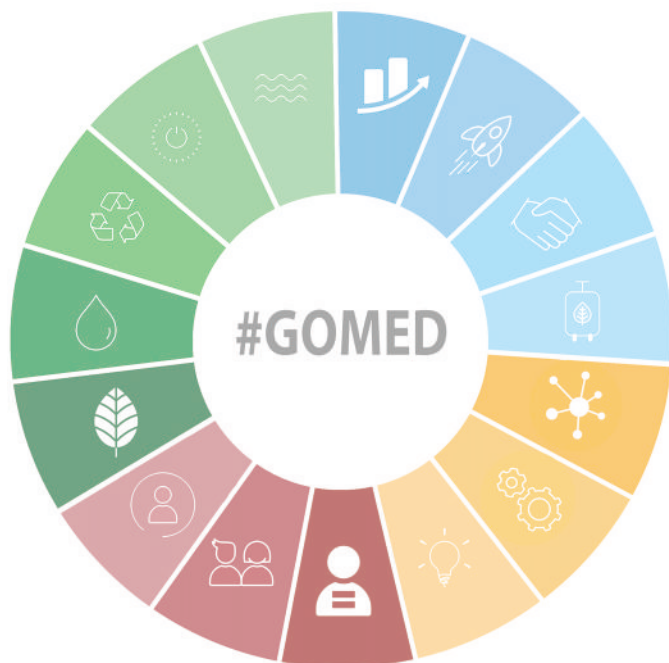
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Catalogue of the standard projects funded by the ENI CBC 'Mediterranean Sea Basin' Programme



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# About the ENI CBC MED Programme

We make  
cooperation  
happen in the  
Mediterranean!

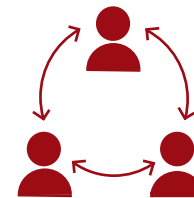


14 participating countries

|          |         |           |
|----------|---------|-----------|
| ALGERIA* | JORDAN  | PALESTINE |
| CYPRUS   | ISRAEL  | PORTUGAL  |
| EGYPT    | ITALY   | SPAIN     |
| FRANCE   | LEBANON | TUNISIA   |
| GREECE   | MALTA   |           |



112 territories covered



198 million people live in the cooperation area



209 million euro. EU contribution to the Programme

\* Algeria has adhered to the Programme but has not signed the Financing Agreement with the European Union at the time this brochure was published.

# The call for standard projects: facts and figures

**439**

grant applications submitted

**41**

funded projects

**289**

organizations involved

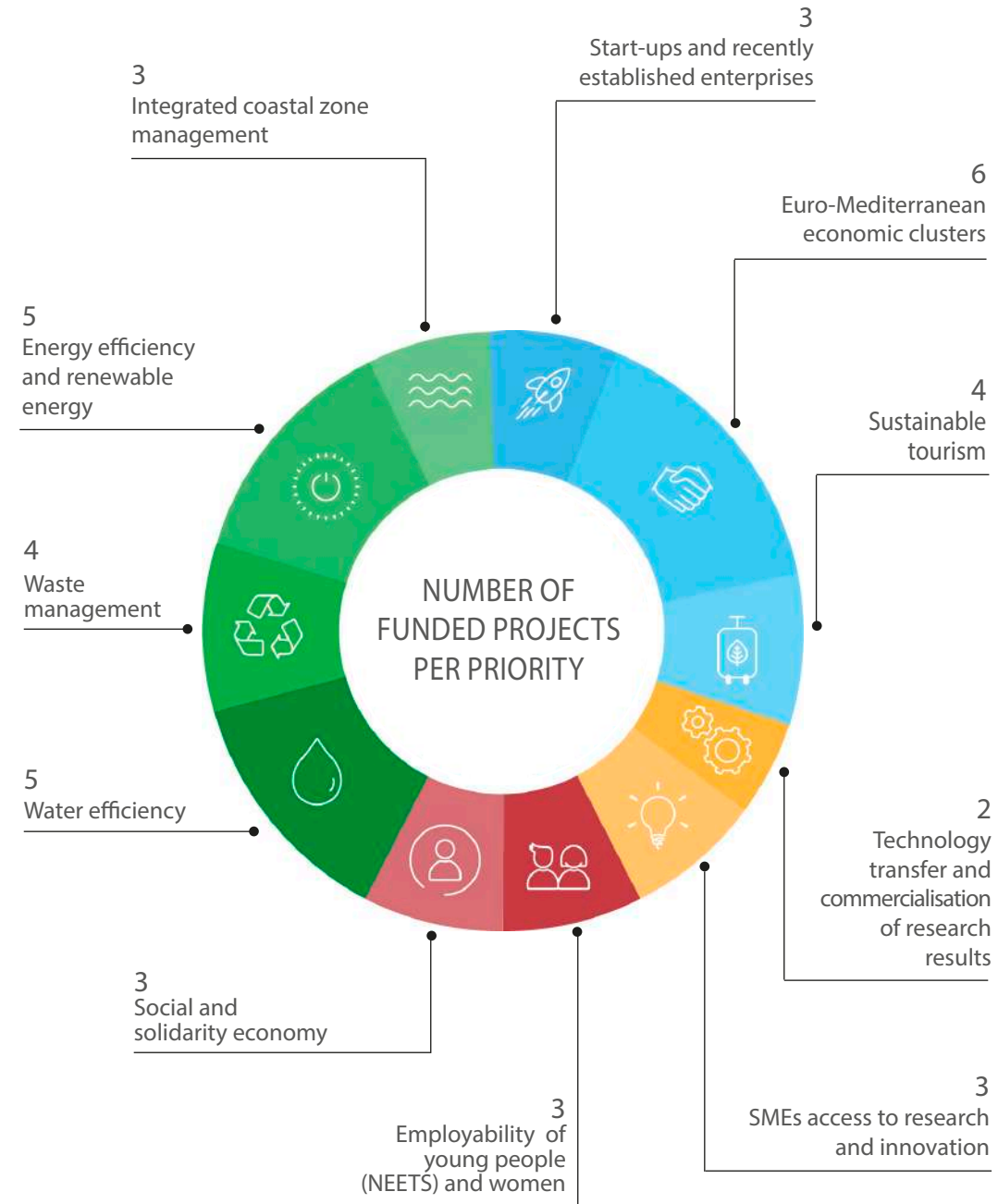
**13**

countries represented

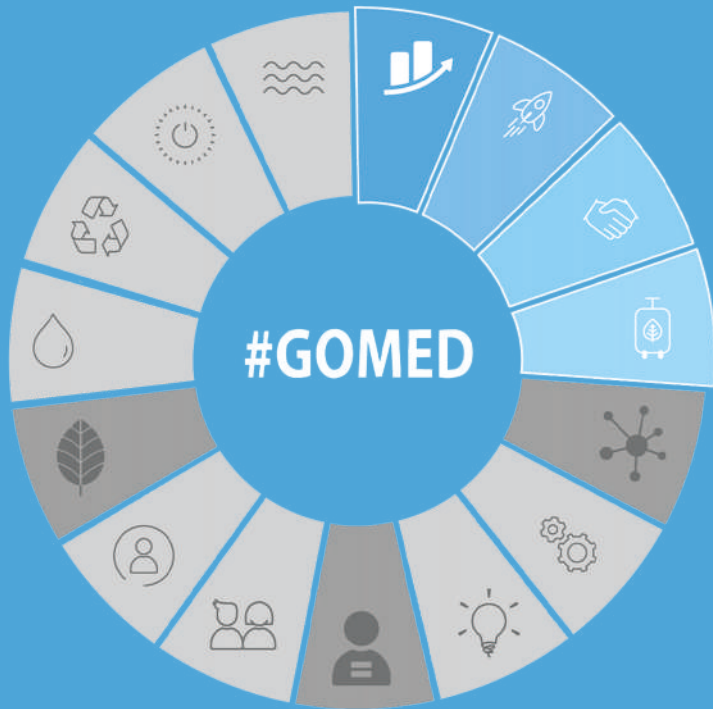
|        |           |          |
|--------|-----------|----------|
| CYPRUS | ISRAEL    | PORTUGAL |
| EGYPT  | ITALY     | SPAIN    |
| FRANCE | LEBANON   | TUNISIA  |
| GREECE | MALTA     |          |
| JORDAN | PALESTINE |          |

**112**

value of funded projects (in million euro)



# SMEs AND BUSINESS DEVELOPMENT



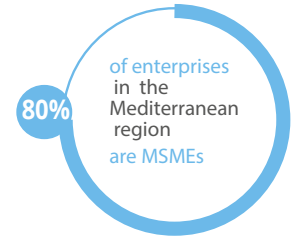
## Start-ups and recently established enterprises

Support **innovative start-ups and recently established enterprises**, with a particular focus on young and women entrepreneurs, and facilitate the protection of their intellectual property rights and commercialisation where applicable

Targets of funded projects

**240**  
jobs created in  
innovative start-ups

**80**  
products protected by  
Intellectual Property  
Rights



## Euro-Mediterranean economic clusters

Strengthen and support **Euro-Mediterranean networks, clusters, consortia and value chains** in traditional sectors and non-traditional sectors

Targets of funded projects

**132**  
new business agreements  
established among  
enterprises of the  
cooperation area

**100**  
new products and  
services sold on  
domestic and  
international markets



## Sustainable tourism

Encourage **sustainable tourism initiatives and actions** aimed at diversifying into new segments and niches

Targets of funded projects

**755**  
people with  
improved tourism  
management skills

**81**  
new sustainable tourism  
packages created to  
increase off-season visits



\*Source: Plan Bleu



# GIMED



## Green Impact MED Project - Positive Investments for Positive Impacts



Waste Agency of Catalonia



Alexandria Business Association



Community of Messina Foundation



Berytech Foundation



Leaders Organization



Tunisian Confederation of Citizen Enterprises

The development of the green economy in the Mediterranean area to combat environmental degradation represents a great opportunity for job creation, particularly for young graduates and women who are three times less likely to be employed than men. Strengthening eco-innovative entrepreneurship is a recognised solution even though green ventures face a complex set of challenges including limited access to funding, underdeveloped markets and fragmented support from sector stakeholders. GIMED aims at boosting the development of eco-innovative ventures in order to create employment opportunities and drive the green and circular economy in the Mediterranean. The project will develop and pilot a United Nations-backed 'Green Entrepreneurship Standard' that standardises the supportive inputs needed to generate successful ventures and will give those ventures

a mark of quality to better access to finance and markets. On the ground, the project will train and coach eco-innovators and encourage financiers to invest in the Mediterranean eco-innovation sector.

### OBJECTIVE

To support entrepreneurs and early stage companies to access to finance and markets and to encourage investors and public administrations to offer entrepreneurs increased investment and business-to-business (B2B) opportunities, hence creating jobs and helping to stimulate the green economy in the Mediterranean.

### WHAT WILL BE IMPROVED?

20 new companies will be created, employing a minimum of 2 people each, and 100 existing companies will be supported in order to access new finance and trade opportunities, increasing their growth potential in the green and circular economy sector. Besides, a cluster of financiers will be established and partners will work closely with public administrations to help them better support green start-ups in terms of Intellectual Property Rights, policy and procurement schemes.

### WHO WILL BENEFIT?

• 400 ideation stage entrepreneurs and women and youth in senior positions of early stage ventures in the green and cir-

cular economy.

- Financial institutions and investors.
- Public administrations.
- Incubators and accelerators.

### EXPECTED ACHIEVEMENTS

- 100 capacity building workshops dedicated to entrepreneurs on eco-design and green business modelling.
- 200 coaching sessions on access to finance and markets.
- 20 new eco-innovative companies created.
- 10 networking events to connect entrepreneurs and investors.
- 5 training sessions dedicated to public institutions on the support to eco-entrepreneurship.
- 1 Green Entrepreneurship Standard Framework developed and piloted.
- 1 green incubation programme in Lebanon.
- 1 policy paper containing recommendations to improve green and circular economy and support eco-innovative ventures.

### BUDGET

€ 2,633,106  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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# IPMED



## IP Capacities for Smart, Sustainable and Inclusive Growth in the MEDiterranean Region



Jordan Enterprise Development Corporation - Irbid branch



Thessaloniki Chamber of Commerce and Industry



FILSE - Financial Agency of Liguria Region



Agora Institute for Knowledge Management and Development



Chamber of Commerce and Industry of Tunis

A solid bond between Intellectual Property Rights (IPR), research and innovation constitutes a fundamental pillar for knowledge-based societies. Crucial for the development and competitiveness of start-ups, micro, small and medium-sized enterprises (MSMEs) and entrepreneurs, IPR is however the most often unknown or overlooked element by these groups in business decision-making both in Europe and beyond. Recent studies on firm competitiveness and economic performance highlight that only 9% of SMEs make use of IPR in Europe (against 40% of large companies). Yet, small firms owning IPR perform better than those that do not (increased reputation, strengthening of long-term business prospects and increased turnover). In the Euro-Mediterranean area, changing this pattern of low interest in/access to IPR is

critical to help regions of both shores of the basin achieve smart, sustainable and inclusive growth. IPMED intends to contribute to that change by helping local authorities understand how they can better support entrepreneurs in accessing, using and optimizing the growth potential of IPR, and enhancing the IPR of young entrepreneurs.

### OBJECTIVE

To contribute to the innovation potential of young and women Mediterranean entrepreneurs through the improvement of their IPR knowledge and capacities as well as through the enhancement of the support that they receive from local authorities.

### WHAT WILL BE IMPROVED?

The impact of IPMED will be twofold: increased capacity of public authorities & innovation brokers to facilitate access of innovative start-ups, youths and women entrepreneurs to IPR and commercialisation schemes, and improved capacities of start-ups, youths and women entrepreneurs for efficient and fruitful IP management. As a result, Mediterranean MSMEs will become more competitive and able to engage in technology transfer, collaborative research and innovation activities at the local, national and transnational levels.

### WHO WILL BENEFIT?

- 200 young and women entrepreneurs and 40 MSMEs.
- 100 staff from chambers of commerce, innovation agencies, ministries, IP offices and innovation brokers.

### EXPECTED ACHIEVEMENTS

- 1,000 people involved in training sessions on IPR use and management.
- 3 cross-border study visits carried out.
- 1 virtual library highlighting good practices in IPR.
- 450 personalised IP and innovation related services provided to start-ups, young and women entrepreneurs.
- 8 policy reviews aiming at aligning IP laws, regulations and practices in the participating countries with international best practices.
- 80 products registered and protected under IPR laws and regulations.

### BUDGET

€ 1,194,594  
(90% EU contribution)

### DURATION








36 months

### CONTACT

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## Med microfinance support system for start-ups

-  **Foundation of Sardinia**
-  Financial Society of Sardinia Region
-  Arab Italian Chamber of Cooperation
-  Chamber of Achaia
-  Chamber of Commerce, Industry and Agriculture in Sidon and South Lebanon
-  Leaders Organization
-  Sfax Chamber of Commerce and Industry

Young people with promising business ideas abound in the Mediterranean region. However, young entrepreneurs encounter severe credit constraints and gathering enough money to start or scale up their enterprise is often impossible. MEDSt@arts wants to help young people jump that deterrent hurdle. To do so, the project will develop an innovative supporting model to facilitate the access to funding for “non-bankable” people. It will target strongly committed young Mediterranean people with innovative business ideas, either in initial or consolidation stage. Scouting, training and funding will be the three main steps of MEDSt@arts approach, and, as a result, new MSMEs will be launched in each participating country and new jobs will be created.

### OBJECTIVE

To facilitate the access to credit for young people and women by broadening the available funding options and by developing complementary and alternative business support measures.

### WHAT WILL BE IMPROVED?

The development of a new model of business support, inspired by ethical finance and solidarity principles, will allow many young and women’s entrepreneurs to create, develop and run their own enterprises. Eventually, the project will lead to the creation of 75 new enterprises and up to 225 new jobs.

### WHO WILL BENEFIT?

- 75 young unemployed and aspiring entrepreneurs, early stage businesses.
- 60 microfinance actors as business angels, venture capitalists, private and public financial institutions.
- High schools and university students.
- MSMEs, local employment services providers, business centres, chambers of commerce.

### EXPECTED ACHIEVEMENTS

- 1 comprehensive database listing all microfinance schemes available in the Mediterranean area.
- 60 organisations part of a Mediterranean network on microfinance and mi-

crocredit for business development.

- 75 innovative business ideas identified and supported in different sectors, in particular digitization, sustainable tourism, handicraft, etc.
- 15 microfinance packages mixing direct support (sub-grant) and crowdfunding to support the growth of the best business ideas selected.
- At least 200 jobs created.

### BUDGET

€ 2,831,039  
(90% EU contribution)

### DURATION

30 months

### CONTACT

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## FISH MED NET



## Fishery Mediterranean Network

-  **Federation of Municipalities of South Corsica**
-  Legacoop Agrofood, Fishery Department
-  Haliéus
-  International Centre for Advanced Mediterranean Agronomic Studies - Mediterranean Agronomic Institute of Bari
-  Ministry of Agriculture, Directorate of Rural Development and Natural Resources
-  Tunisian association for the development of artisanal fishing
-  Economic and Social Development Center of Palestine

Decades of overfishing have dramatically harmed the Mediterranean fisheries sector. Catches are now diminishing, impacting negatively on revenues and jobs. As a result, fishing appeal to young people is sharply decreasing. Yet, fishing is still a key Mediterranean economic sector with a high - through underexploited - commercial potential, including diversification and integration with other sectors such as fishing tourism, environmental marine services, fishery heritage and food-chain innovation. Unfortunately, the industry remains too fragmented, MSMEs are not enough interconnected and the public authorities are not proving capable to provide the needed enabling environment. FISH MED NET addresses these enduring drawbacks. The project will train fisheries MSMEs in increasing their diversification and

integration potential and favoring the development of new products and services. New business alliances will fill the integration gap among MSMEs by fostering common business models and marketing activities. Finally, the project will develop public authorities capacities to encourage both a sustainable and successful development of the fishing sector.

**OBJECTIVE**

To support the fisheries industry capacity to seize the opportunities of diversification and integration through capacity building and specific training for local authorities and MSMEs.

**WHAT WILL BE IMPROVED?**

The diversification and integration of the fisheries industry, the enhancement of the innovation processes and an increased visibility on global markets will lead to higher sector profitability, new jobs and improved working conditions for fishermen. As a result, the whole sector will recover some attractiveness to young people and will be more connected to local economies, in view of promoting an integrated and sustainable blue economy.

**WHO WILL BENEFIT?**

- 80 young people from at least 30 MSMEs in the small-scale fishing sector.
- 30 managers/staff from public institutions.
- Operators from the fishing industry.
- Coastal communities depending on fi-

shing activities.

**EXPECTED ACHIEVEMENTS**

- 4 new Mediterranean integrated business models for fisheries diversification developed.
- 100 participants in training courses.
- 6 counseling desks activated.
- 60 MSMEs from the sector involved in international fairs and national events.
- 15 round tables fostering dialogue between public administrations and MSMEs.
- 5 sub-grants to support fisheries diversification initiatives carried out by Public-Private Partnerships.

**BUDGET**

€ 2,242,131  
(90% EU contribution)

**DURATION**

36 months

**CONTACT**


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## Sustainable management model for Mediterranean Artisanal Salinas


 **University Consortium for Industrial and Managerial Economics, Energy and Environment Division**

 Mediterranean Sea and Coast Foundation


 Association for the Development of Rural Capacities

 Fair Trade Lebanon

 International Union for Conservation of Nature, Centre for Mediterranean Cooperation

 University of Cádiz, Department of Biology

 Tunisian-Italian Chamber of Commerce and Industry

 Saida Society

Today salinas across the Mediterranean are suffering from environmental pressures and economic stress. Their products face strong competition from cheaper land-produced salt and from the world trade. To stay viable, salinas are confronted with the choice of closing, industrializing the production or changing the business orientation towards sustainable tourism and new artisanal products. This third option is the idea behind MedArtSal. The project will define a sustainable and adaptable management model for artisanal salinas including, among others, a marketing strategic plan and a biodiversity strategy. With this aim, MedArtSal project addresses both salinas managers and institutional policy-makers. On the one hand, salinas managers will receive up-to-date training on how an artisanal salina should be managed in order to remain competitive, especially by diversifying products.



On the other hand, institutional policy-makers will help build the management model which will be further tested in two artisanal salinas in Spain and Tunisia. Finally, a network of Artisanal Mediterranean Salinas will be created to capitalize on the project results in the long run.

### OBJECTIVE

To define a sustainable and adaptable management model for artisanal salinas including a strategic plan for the marketing and the diversification of products, the promotion of artisanal salt works, and the restoration and conservation of the biodiversity.

### WHAT WILL BE IMPROVED?

The project will lead to the economic, social and environmental revival of selected salinas across Italy, Lebanon, Spain and Tunisia. From the economic point of view, new businesses, products and related services (e.g. tourism, logistics) based on the valorization of salt products will be created. Salinas will also experience a more sustainable management through a better use of natural resources. Finally, employment opportunities related to salt production will be generated together with an increased awareness of communities and public institutions of the importance of salinas for local economies.

### WHO WILL BENEFIT?

- Managers of artisanal salinas.
- Salt producers.
- National, regional and local authorities.

- Chambers of commerce and trade associations.
- Local communities and consumers.

### EXPECTED ACHIEVEMENTS

- 1 comprehensive mapping and analysis of the economic, environmental and regulatory state of artisanal salinas across the Mediterranean.
- 1 common model for sustainable development of the artisanal salinas.
- 2 demonstration projects on the diversification of salinas products/services carried out in Spain (La Esperanza) and Tunisia (Sidi Al-Hani).
- 10 pilot actions for the development of new products/services in selected salinas.
- 1 strategic marketing plan for the promotion of salinas.
- 50 artisanal salinas involved in 2 MedArtSal fairs implemented in Tunisia and Lebanon.
- 1 network of Mediterranean artisanal salinas.

**BUDGET**  
€ 3,299,001  
(90% EU contribution)

**DURATION**  
36 months

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## Sustainable Networks for Agro-food Innovation Leading in the Mediterranean

 **Andalusian Federation of Municipalities and Provinces**

 **Slow Food Foundation for Biodiversity**

 **Women for Cultural Development (Namaa)**

 **American University of Beirut**

 **Gozo Regional Committee**

 **The Rural Women's Development Society Economic, social and political Empowerment for rural women's**

 **University of Sfax**

Many challenges are threatening the Mediterranean agro-food sector like the gradual loss of local varieties, a high sectorial fragmentation, rural poverty (mostly affecting women), limited investment capacity of rural entrepreneurs, lack of training on socio-environmental sustainability, as well as weak business planning and marketing strategies. Moreover, EU food security regulations represent a barrier for many small producers from non-EU countries. MedSNAIL addresses these issues by fostering the enhancement and development of small-scale traditional agro-food value chains that will offer increased business opportunities and more socio-environmental sustainability. The project will build on the well-established experience and methods of 'SlowFood', an international grass-

roots organization promoting traditional food with a strong focus on biodiversity preservation.

### OBJECTIVE

To foster the sustainable development of Mediterranean agro-food SMEs by enhancing traditional Euro-Mediterranean products according to a "slow" approach and to the short-chain principles.

### WHAT WILL BE IMPROVED?

The use of socially and environmentally sustainable farming and production methods will be promoted and spread across the Mediterranean region. It is expected that the quality, quantity and visibility of local agro-food products will be improved. As a result, incomes of small rural enterprises - with a special focus on those run by women - will be increased. Finally, jobs will be created in newly established agro-food SMEs.

### WHO WILL BENEFIT?

- 300 small scale agro-food producers and farmers.
- 60 public authorities.
- 60 young university graduates.

### EXPECTED ACHIEVEMENTS

- 1 study on the agro-biodiversity in the target regions.
- 2 training courses on slow food approach and best practices.
- 1 MedSNAIL alliance among small pro-

ducers, public authorities and business to promote good, clean and fair food.

- 90 MSMEs involved in sustainable food value chain pilot projects.
- 6 slow-hubs created to provide consultancy services to agro-food MSMEs.
- 6 farmers' markets created.
- 1 Euro-Mediterranean "Chef Alliance" established.

### BUDGET

€ 2,028,807

(90% EU contribution)

### DURATION

36 months

### CONTACT

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# ORGANIC ECOSYSTEM



## Boosting cross border Organic Ecosystem through enhancing agro-food alliances



Ministry of Agriculture, Plan  
Production Directorate Organic  
Division



Jordan Exporters and Producers  
Association for Fruit and Vegetables



International Centre for Advanced  
Mediterranean Agronomic Studies -  
Mediterranean Agronomic Institute of Bari



Centre for Innovation and Culture



Chamber of Commerce, Industry and  
Agriculture of Zahle and the Bekaa



Association of the Mediterranean  
Chambers of Commerce and Industry



Tunisian farmer's union

Agriculture puts a lot of pressure on the environment. Soil fertility, biodiversity and human life are all negatively impacted by intensive and extensive farming. There is no doubt that organic agriculture is a great solution to achieve food safety and security as well as environmental sustainability. However, organic agriculture is still relatively underdeveloped in Mediterranean countries with heterogeneous situations from country to country. The main shared challenges are inconsistent support policies from national/local governments, low innovation capacities, limited knowledge of sustainable farming practices, and a weak value chain where MSMEs operate in a disaggregated way. ORGANIC ECOSYSTEM project aims to reduce these obstacles and make the MSMEs operating in organic agriculture more competitive and

better integrated. The project intends to establish a cross-border agro-food ecosystem which will set the ground for the development of the entire Mediterranean organic sector. This will be encouraged through new business alliances, creation of innovative value chains, and specialized support provided to MSMEs to increase the quality and the commercialization of products and their capacities to access to new markets.

### OBJECTIVE

To increase the competitiveness of the organic agriculture sector through the development of a Mediterranean organic ecosystem fostering innovation and value chain aggregation.

### WHAT WILL BE IMPROVED?

The establishment of a Mediterranean organic ecosystem will result in better support policies, more efficient tools and services and, in consequence, an increased competitiveness of organic MSMEs that will scale-up and access new markets. New job opportunities will be created and income will be leveraged for organic farmers. It is also expected that a significant number of MSMEs will convert to organic farming, thus contributing to soil conservation and environmental sustainability.

### WHO WILL BENEFIT?

- 24 organic MSMEs directly supported.
- 150 agro-food MSMEs (production, pro-

cessing, supply, trade, etc.).

- Public authorities.
- Local communities and consumers.

### EXPECTED ACHIEVEMENTS

- 1 organic cross-border network established for cooperation, dialogue, knowledge transfer among stakeholders of the organic sector.
- 40 training days to provide MSMEs with tools and methods aimed at boosting organic production, processing and marketing.
- 25 MSMEs receiving consultancy services to facilitate their entry in innovative organic value chains and participating in international agro-food fairs.
- 1 cross-border lab to facilitate networking among organic producers, researchers, business angels, public authorities and stakeholders.
- 36 new organic products sold on domestic and foreign markets.

### BUDGET

€ 2,428,851  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Mediterranean SMEs working together to make cities smarter



**Business Innovation Centre of Murcia**



European Business and Innovation Centre of Málaga



Municipality of Kfar Saba



Tel Aviv University, Porter School for the Environment



Financial Agency of Liguria Region, Business Innovation Center



Al Urdonia lil Ebda Co

As cities continue to grow, so is the number of challenges they are facing. Environmental, economic or social emerging issues call for new and unproven urban solutions. The increasing need for urban innovation will result in the development of a significant number of smart cities initiatives, creating new business opportunities for Mediterranean SMEs. If we want our cities to be efficiently managed and more livable for communities, public authorities and SMEs have to work together to come up with the best technological solutions. SME4SMARTCITIES will make this collaboration possible by reinforcing the capacities of Mediterranean cities and SMEs. On the one the hand, the project will help cities to be the front-runners of innovation, in particular through the use of Public Procurement of Innovative solutions. On the

other hand, the project will support Mediterranean SMEs in order to guarantee that their products and services meet the expectations and needs of smart cities.

### OBJECTIVE

To support the entry of SMEs in the market of smart cities through the creation of new solutions under a demand-driven approach that answers in a more efficient, smart and sustainable way to the urban challenges faced by the Mediterranean cities.

### WHAT WILL BE IMPROVED?

The development of new products and services will generate “ready to deploy” solutions to address smart cities challenges while creating business opportunities for SMEs. As a result of the project, the collaboration between cities and SMEs will be enhanced thanks to Public-Private Partnership (PPP) agreements towards a more sustainable, efficient and smart urban development.

### WHO WILL BENEFIT?

- 50 SMEs supported.
- 6 Mediterranean cities and 50 of their civil servants.
- Business support organisations, clusters, business associations, universities and R&D centers.
- Local urban communities benefitting from the implementation of new smart initiatives.

### EXPECTED ACHIEVEMENTS

- 1 training programme dedicated to support SMEs in entering the smart cities solutions market.
- 1 platform for providing consultancy services to SMEs in idea generation, concept definition and development, market testing and access to new markets.
- 1 co-creation, co-innovation programme to foster cooperation among Mediterranean SMEs.
- 5 Smart Cities solutions (innovative and technological products and/or services for improving the cities answers to the urban challenges they face) developed and tested.

### BUDGET

€ 2,491,299  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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# TEX-MED ALLIANCES



## Textile Mediterranean Alliances for Business Development, Internationalization and Innovation



**Spanish Textile Industry Confederation**



**German Arab Chamber of Industry and Commerce**



**Hellenic Fashion Industry Association**



**Industrial Association of Northern Tuscany**



**Amman Chamber of Industry**



**Palestinian Federation of Industries**



**Monastir-El Fejja Competitiveness Pole**



**Textile Technical Centre**

Like many others, the textile sector has changed dramatically during the last decades. Advanced countries have brought in high performance and high added-value technologies while emerging countries, mainly from Asia, have sharply reduced the costs putting insane pressure on Mediterranean traditional clothing SMEs. In contrast, the Mediterranean textile sector has traditionally been a weak innovation performer. TEX-MED ALLIANCES aims at reducing that persistent innovation gap. The project proposes an innovative approach based on the development of two types of initiatives: cross-border initiatives identified and promoted by the project partners and cross-border project ideas/proposals arising directly from MSMEs. Together,

these actions will put innovation at the core of the sector. Eventually, TEX-MED ALLIANCES will help textile and clothing MSMEs expand internationally inside/outside the Mediterranean area, fostering job creation and technological upgrading.

### OBJECTIVE

To support Mediterranean textile/clothing MSMEs in developing high performance innovation, accessing new international markets and exploiting the high potentialities of the circular economy.

### WHAT WILL BE IMPROVED?

Thanks to the project, concerned MSMEs from the Mediterranean textile/clothing industry will acquire updated knowledge and technical skills in the modest fashion segment, smart textiles and digital printing, enhancing innovation, competitiveness and capacities to reach new markets. Solutions to foster more sustainability in the textile sector, based on a circular economy perspective, will be investigated and implemented. The ultimate ambition of the project is to turn the Mediterranean textile sector into an Industry 4.0, contributing to the re-orientation of the sector towards innovative productions and new business models.

### WHO WILL BENEFIT?

- Textile and clothing MSMEs and manufacturers.
- Suppliers such as those of raw materials, machinery, software, specialized services (R&D centres, logistics).
- Professionals (designers, stylists, technicians, etc.).
- Wholesalers, distribution chains, retailers.

### EXPECTED ACHIEVEMENTS

- 31 support initiatives for the internationalization, innovation and technology upgrading and circular economy in the textile/clothing industry.
- 34 MSMEs participating in key business events and internationalization/innovations fairs.
- 1 open forum on circular economy to share best practices in the textile/clothing industry.
- 4 business to business events gathering at least 123 MSMEs.
- 22 MSMEs participating in new Euro-Mediterranean business alliances and partnerships.

### BUDGET

€ 2,822,733  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Cultural Routes for Sustainable Social and economic Development in the Mediterranean

-  **International Committee for the Development of People**
-  Culture Cooperative Society
-  Ministry of cultural heritage, cultural activities and tourism - General Secretariat
-  Jordan University of Science and Technology
-  The Royal Marine Conservation Society of Jordan
-  Association for the Protection of Jabal Moussa
-  Masar Ibrahim Al Khalil

There is a need of building up an area of peace and stability in the Mediterranean area, reducing disparities, increasing opportunities for decent life and jobs for all, promoting dialogue and understanding for peaceful coexistence. The CROSSDEV project proposes a way to address these challenges through the exploitation of local culture and heritage to be turned into assets for socio-economic local development. CROSSDEV expects to increase tourism competitiveness and attractiveness of less-known destinations and rural areas, enhancing the Cultural Routes experiences such as those of the Council of Europe (e.g. Phoenicians Route and IterVitis), Palestine (Abraham Path) and Jordan (Jordan Trail). To achieve this goal, the project will set up a cross-border tourism framework to enhance sustainable tourism policies,

to promote tourism-related business and to develop community-led action plans. CROSSDEV will enable to increase skills and knowledge, contributing to better tourism practices which benefit local socio-economic development and the protection of the environment and cultural heritage.

### OBJECTIVE

To strengthen the economic and social development of local communities, promoting the less-known tourist destinations in the Mediterranean area, diversifying sustainable tourist products, emphasizing common heritage and contributing to job opportunities and social inclusion.

### WHAT WILL BE IMPROVED?

The creation of a common cross-border tourism framework among the partner organisations will increase the attractiveness of emerging destinations and the exploitation of untapped tourist resources, with more job/development opportunities for less-known tourist destinations and depressed rural areas. The project will also generate innovative sustainable products, increase cooperation among public and private stakeholders, create business opportunities and promote Mediterranean cultural routes and historical connections. Moreover, the project will contribute to the skills of public authorities and businesses in support of sustainable tourism and social inclusion in local communities.



### WHO WILL BENEFIT?

- Micro and small businesses, local guides, farmers, food and handcraft manufacturers, tourism managers, tour operators.
- Public authorities, civil society organizations.
- Local communities and tourists.

### EXPECTED ACHIEVEMENTS

- 5 local action plans for the promotion of less-known touristic destinations.
- 3 cross-border agreements for the development of common strategies to increase tourism during low season.
- 8 cultural and historical sites enhanced.
- 5 new Sustainable Touristic Products pursuing innovation and diversification of touristic offer.
- 15 private actors involved in new touristic initiatives, also via the Digital Territorial ICT platform Art Planner developed to promote sustainable tourism initiatives.
- 2 cross-border business events to promote new Sustainable Tourism Products and enterprises networking.

### BUDGET

€ 2,507,656  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## GAamification for Memorable tourist experiences



**American University of Beirut**



Directorate General of Antiquities



Alghero Foundation Museums Events Tourism



The Hashemite Kingdom of Jordan Ministry of Tourism and Antiquities - Department of Antiquities



Jordan University of Science and Technology



i2CAT Private Foundation, Internet and Digital Innovation in Catalonia



Local Business Public Entity Neàpolis

Today's demanding and discerning tourists don't want just to observe, they wish to experience places. This experiential tourism trend is relevant to off-season travellers who choose this time of the year not only to lower costs but also to avoid crowds and increase chances for authentic interactions with locals. That's why MED GAIMS project will develop games in physical and virtual format to create experiences for tourists, giving a necessary competitive edge to the attractiveness of less-known sites. The project seeks to increase tourism flows, covering all niches and segments like off-season travellers, creating jobs opportunities and start-ups for game entrepreneurs. Gamification is culturally sensitive – we do not all have the same sense of what is fun – so multicultural, cross-

border evaluation of the initiatives will be performed by the project before opening them up to international tourists. Eventually, 40 games will be selected and implemented in 12 tourism sites from 8 destinations.

### OBJECTIVE

To increase tourism flows, using gamification as an instrument to enhance and prolong the tourist experience, in particular where this is most needed, off-season and at less-known sites, integrating effectively gamification into public strategies for tourist destination management.

### WHAT WILL BE IMPROVED?

As the project heavily relies on local communities to conceptualize and implement games, through self-employment or start-ups, for both high (technological) and low-skilled (manual, organizational) individuals, new employment/business opportunities will be created for young people, women and local SMEs. The project will also influence the improvement of tourism reputation of concerned destinations offering enhanced experiences tested at the cultural level, fostering the exploration of more sites, longer stays and return visits.

### WHO WILL BENEFIT?

• 40 public actors (tourism destination managers, site managers, tourism policy officials).

- 40 private actors (from local civil society organizations, cultural and industry associations, schools, SMEs) involved in game design and game implementation as well as in business support activities.
- Job seekers and young graduates.

### EXPECTED ACHIEVEMENTS

- 2 ideas competition for creative and cultural operators.
- 8 creative labs for games design.
- 8 hackathons for games development.
- 40 game applications created for tourist sites.
- 4 study visits for international game assessment.
- 8 experiential tourism strategies.
- 4 international fairs of Gamification-for-Tourism.
- 1 gamification toolkit to support current and future game entrepreneurs.

### BUDGET

€ 2,381,238  
(90% EU contribution)

### DURATION

36 months









### CONTACT

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## The Mediterranean as an innovative, integral and unique destination for Slow Tourism initiatives

-  **Catalan Tourist Board**
-  Confederation of Egyptian European Business Associations
-  Federation of Egyptian Chambers of Commerce - Alexandria Chamber
-  Municipality of Thessaloniki
-  APS Mediterranean Pearls
-  Discovery Travel and Tourism LLC
-  Palestine information and communications technology incubator
-  Palestine Wildlife Society

Most models of tourism in the Mediterranean area are based on mass tourism and follow a fragmented vision of the region as a sum of different markets. Med Pearls aims at internationally positioning the Mediterranean as a unique and integral destination to experience the Med lifestyle through Slow Tourism (ST), inviting travellers to discover sustainably and responsibly new destinations while taking time to have direct contact with local communities. The project will deliver a set of 26 new ST products created by local Destination Management Companies (DMCs) and ICT enterprises thanks to a financial and technical support called Product Development and Innovation Facilities. The idea is to create similar experiences based on the typology of products and themes agreed among partners, therefore, visitors will live

similar experiences, of same quality, in any of the 13 areas targeted by Med Pearls. The project will address both local and international markets, like the USA, Canada, Northern Europe, Russia or Asia, organising a comprehensive commercialisation and marketing strategy.

### OBJECTIVE

To internationally position the Mediterranean area as an integral destination of quality and excellence for Slow Tourism reaching a competitive model based on public-private partnerships, diversification, off season travel, inclusiveness and benefits of local economic development.

### WHAT WILL BE IMPROVED?

The positive effects of Med Pearls activities are linked to the creation of job opportunities deriving from the development of Slow Tourism products and the associated extension of the average length of stays of travellers. Additionally, less-known touristic areas will be promoted by exploiting local resources in a respectful, responsible sustainable way, and local communities/businesses will play an essential role in the creation of Slow Tourism products. Finally, the Med Pearls cross-selling strategy will ensure that the Mediterranean is commercialised as an integral tourist destination, and not simply as a sum of different markets.

### WHO WILL BENEFIT?

- 630 private actors among Destination Management Companies, accommodation owners, transportation companies, sport and active tourism companies, ICT start-ups.
- 120 public entities.
- Tourists and local communities.

### EXPECTED ACHIEVEMENTS

- 390 people trained on Slow Tourism products development, marketing and promotion.
- 2 facilities for product development and innovation in the Slow tourism sector.
- 26 Slow Tourism products and 6 ICT solutions created.
- 40 marketing and visibility initiatives to promote the developed tourism products and destinations.
- 13 action plans for the implementation of Slow Tourism strategies in pilot areas.

**BUDGET**  
€ 3,015,132  
(90% EU contribution)

**DURATION**  
36 months

**CONTACT**  
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# MEDUSA



## Development and promotion of Mediterranean Sustainable Adventure Tourism



**Barcelona Official Chamber of Commerce, Industry, Services and Navigation**



Association of the Mediterranean Chambers of Commerce and Industry



Puglia Region - Department of Tourism, Economy of Culture and Valorisation of Territory



Jordan Inbound Tour Operators Association



The Royal Society for the Conservation of Nature



René Moawad Foundation



WWF Mediterranean North Africa

The Mediterranean region is one of the world's leading tourist destinations. Faced by growing competition and a deterioration of the political and security situation, the destination has demonstrated symptoms of a slowdown, which makes the recovery of the sector an economic priority. This downturn may also present an opportunity to transform the tourism model into a sustainable and competitive one, addressing current sectorial challenges as the predominance of mass seaside tourism, dependent on the European market and territorial imbalances. MEDUSA will tackle these joint challenges via targeted and inter-related capacity building and cross-border interventions to develop and promote adventure tourism in the region, a niche which grew by 195% between 2010 and 2014. By designing and testing routes and itineraries that offer improved adventure

tourism products, MEDUSA will contribute to job creation and income for local communities in the medium and long term. Moreover, the project has the potential to reveal lesser-known destinations and attract tourists throughout the year.

### OBJECTIVE

To develop a competitive adventure tourism sector in the Mediterranean area based on environmental, economic and social sustainability values, using territorial assets, strategic alliances and pilot actions.

### WHAT WILL BE IMPROVED?

The visibility of less-known destinations and local communities able to generate and improve adventure tourism products will be increased, resulting in new job opportunities, especially for women and young people. Furthermore, a more balanced distribution of tourist streams in terms of seasonality and geographical areas will be supported, as well as the inclusion of local communities in tourism business. Finally, the project will focus on the environmental footprint of tourism activities through safeguarding biodiversity, wildlife, natural resources and rural communities.

### WHO WILL BENEFIT?

- 110 public authorities among tourism and environmental ministries, regional and national governments, municipalities, tourism boards and associations.
- 250 organisations from the private sector

including tour operators and travel agencies, tourist guides, SMEs, farmers, hotel developers, NGOs.

- 60 civil society organisations among heritage organisations, sports associations, park and wildlife organisations.
- Local communities from 135 municipalities.

### EXPECTED ACHIEVEMENTS

- 1 global market research and analysis report on adventure tourism in the Mediterranean region.
- 33 training sessions organised on sustainable destination management and business planning.
- 10 strategic alliances to foster public-private destination management in a sustainable manner.
- 1 adventure tourism product co-creation programme.
- 10 new or improved adventure tourism products.
- 3 cross-border adventure tourism routes, itineraries and day trips.
- 1 marketing strategy to establish relationships with tour operators and travel agencies.

### BUDGET

€ 3,317,314  
(90% EU contribution)

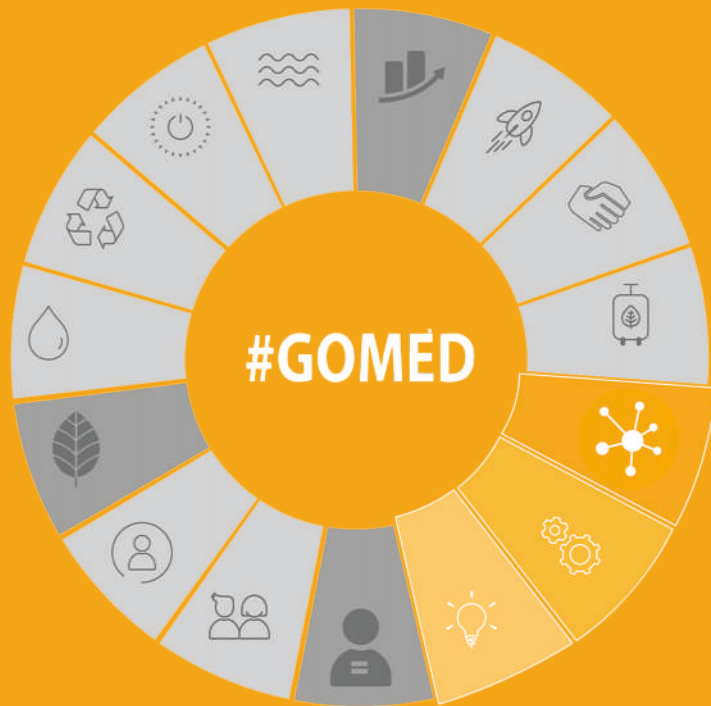
### DURATION

36 months

### CONTACT

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# TECHNOLOGY TRANSFER AND INNOVATION



## Technology transfer and commercialisation of research results

Support **technological transfer** and **commercialisation** of **research results**, strengthening the linkages between **research, industry** and other **private sector actors**.

Targets of funded projects

**10**

university **spin-off enterprises** created

**7**

**co-patents** registered

**80%**

of **research and development activity** in the Mediterranean region is **carried out by public universities and research centres**



## SMEs access to research and innovation

Support **SMEs** in **accessing research and innovation**, also through **clustering**

Targets of funded projects

**36**

**new products/ services** created by **clustered SMEs** across borders

**1,250,000**

**euro as investment in SMEs innovation activities**

**90%**

of **spending on research and development** comes from the **public sector** in **Southern Mediterranean countries\***

\* Source: Anima Investment Network




# BESTMEDGRAPE



## New Business opportunities & Environmental suSTainability using MED GRAPE nanotechnological products

 **University of Cagliari**

 Institute of Sciences of Food Production/  
National Research Council


 The National Institute of Health and  
Medical Research

 Jordan Society for Scientific Research

 Saint Joseph University of Beirut

 Berytech Foundation

 University of Carthage

 The National Trade Union Chamber of  
wine, beer and spirits' producers

Grape as a traditional crop in the Mediterranean area has a strong innovation potential, which has not been effectively exploited yet. People working in the grape cultivation sector are generally focused on improving the quality of grape and wine, but usually don't consider how to make the most out of grape waste. Based on the R&D experience of the partners in the fields of grape valorization, waste exploitation and development of nanotechnological antioxidant/anti-inflammatory/anti-neurodegenerative formulations, BESTMEDGRAPE aims at supporting the creation of new start-ups/SMEs by transferring scientific/technological knowledge on local grape cultivars and the exploitation of wine by-products as a source of bioactive compounds that can be transformed into innovative commercial health products. Hence, the project will not only valorise a Mediterranean product, grape, but also the expansion of the

grape value chain through the development of nanotechnological products, thus boosting the local economy, reducing environmental pollution and increasing employment opportunities.

### OBJECTIVE

To promote technology transfer in the field of grape cultivar valorisation/eco-sustainable exploitation of winemaking waste to obtain nanotechnological products for human health, supporting at the same time the creation of start-ups and SMEs.

### WHAT WILL BE IMPROVED?

BESTMEDGRAPE expects a change of attitude in the way Mediterranean entrepreneurs deal with the many botanical and beneficial properties of local grape cultivars. Great attention will be devoted to the production of high quality nanotechnological, cosmeceutical and nutraceutical products. This will entail the growth of a new value chain derived from grape waste and related job/business opportunities. In addition, the project will contribute to the preservation of the Mediterranean biodiversity and avoid environmental contamination from the huge quantity of bulky waste generated during wine-making.

### WHO WILL BENEFIT?

- Farmers and local wineries.
- 35 early-stage researchers.
- 210 potential entrepreneurs.
- Existing enterprises and industrial processing companies interested in recycling wine-making waste.

- Consumers and end-users interested in environmental-friendly grape products.
- 15 public institutions involved in environmental sustainability.

### EXPECTED ACHIEVEMENTS

- 20 living labs activated and at least 4 co-publications on native grape cultivars characterisation and extraction.
- 1 cross-border technology platform developed to support business networking on grape waste exploitation.
- 10 products and services developed for commercialisation in the field of grape derivatives.
- 10 newly established companies operating in the production and commercialisation of innovative products and services in the area of grape and its derivatives.
- 250 pre-competitive analyses of promising products and services.
- 150 potential entrepreneurs selected for the exploitation of promising grape-related products and services.

**BUDGET**  
€ 3,323,614  
(80% EU contribution)

**DURATION**  
36 months

**CONTACT**  
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## Cross Border Living laboratories for Agroforestry

 **Regional Forest Agency for Land and Environment of Sardinia - Fo.Re.S.T.A.S.**

 Italian National Research Council, Department of Biology, Agriculture and Food Science

 ATM Consulting

 Mediterranean Agronomic Institute of Chania

 National Agricultural Research Center

 Lebanese Agricultural Research Institute

Agroforestry - a land use management system in which trees or shrubs are grown around or among crops or pastureland - has varied benefits, including increased biodiversity and reduced erosion. The combination of agriculture and forestry in the Mediterranean is deeply rooted in a culture of tradition and niche production but fails nowadays to structure its knowledge to achieve an integrated system of good practices for the sustainability of production, the protection of the biodiversity of distinct ecosystems, the transfer of innovation and the increase in profitability for the territories/actors involved. Therefore, LIVINGAGRO will tackle these issues using an Open Innovation approach, based on the setting-up of two Living Laboratories making possible the co-creation of the economic and social values and the interactions between supply

and demand, eliminating geographical and cultural barriers. A specific focus will be on olive multifunctional system (Living Laboratory 1) and grazed woodlands (Living Laboratory 2). Olive cultivation is representative of many Mediterranean rural areas, and traditionally olive orchards were and are often still managed as agroforestry systems, in combination with cereals, fodder legumes and/or pasture. Grazed woodlands are major agroforestry systems in the Mediterranean that highly contribute to support Mediterranean local economies, supplying both vegetal and animal products.

### OBJECTIVE

To create 2 cross-border Living Labs to support education, R&D and technology transfer in agroforestry reinforcing the cooperation between research organisations, policy makers, SMEs, farmers and other relevant stakeholders.

### WHAT WILL BE IMPROVED?

The identification and implementation of innovative value chains in agroforestry will create new opportunities for local communities in terms of sustainable farming practices and products diversification. In addition, food production stability will be improved over time, providing agricultural products of high quality while coping with limited resources and environmental constraints and generating increased farmers' income. Finally, the project will lead to different innovations with high business potential in the fields of agricultural

machinery, food products, omics techniques, optimised uses of agricultural, forestry and breeding by-products and residues.

### WHO WILL BENEFIT?

- Farmers and their organisations, extension services.
- Consultancy firms, research centers, universities.
- Local authorities, public or private companies, SMEs, industry, policymakers.
- Users of the developed innovations.

### EXPECTED ACHIEVEMENTS

- 2 cross-border living laboratories established for innovation and technological transfer in agroforestry.
- 4 research agreements between universities/research centers and the private sector.
- 8 enterprises cooperating with research institutions in innovation activities.
- 6 training courses on business creation
- 10 new products/services developed in the agroforestry sector.
- 30 science to business brokerage events.
- 20 technology transfer and intellectual property brokering services provided.

### BUDGET

€ 3,333,163  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Speeding up the MED SMEs' uptake of eco-innovative solutions in energy and water management

The hotel industry in the Mediterranean region is one of the most important worldwide and continues to register a significant growth. This success with local/international tourist comes with several environmental drawbacks such as the substantial consumption of water and energy. With the aim of helping hotels to stay competitive and improve at the same time their eco-innovation capacities, GREENinMED project proposes an integrated approach for the development of new products and services addressed to the efficient use of water and energy and reduction in consumption by 10% in the hotel industry. The project will develop eco-innovative products such as sea-water air conditioning, water and energy-saving devices for spa, garden irrigation and industrial cold generation. To reach

this ambition, consultancy services focusing on the identification of eco-innovative products and services and their adaptation to actual needs/contexts will be delivered to selected hotels. Furthermore, the purchase of new equipment to improve research and testing capacities of SMEs and the creation of spin-offs will be facilitated through sub-grants.

### OBJECTIVE

To increase the competitiveness and sustainability of Mediterranean SMEs in the hotel industry through the development and implementation of eco-innovative solutions in water and energy systems.

### WHAT WILL BE IMPROVED?

GREENinMED will upgrade the eco-innovation capacities of Mediterranean SMEs in the hotel sector and create more dynamic innovation ecosystems, thanks to a cross-border learning process and dedicated financial support. By addressing the challenges of environmental sustainability in the hotel sector, GREENinMED project will reduce the negative footprint of the tourism industry and spread knowledge about efficient water and energy consumption solutions.

### WHO WILL BENEFIT?

- 150 SMEs of the hotel sector.
- Accelerator technology centers, scientific parks, and universities.

tific parks, and universities.

- Start-ups and spin-off companies.
- Regional and national public authorities.

### EXPECTED ACHIEVEMENTS

- 1 strategy on eco-innovation for the Mediterranean hotel industry.
- 1 cross-border eco-innovation support center.
- 8 sub-grants to purchase innovative products, services and equipment.
- 30 innovation vouchers.
- 15 eco-innovative products and services designed specifically for the hotel industry.
- 5 spin-offs created out of the project.
- Up to 10% reduction in energy and water consumption in selected hotels.



Official Chamber of Commerce, Industry, Services and Navigation of Spain



Capenergies Pole for Competitiveness



Israel Water Association



Arava Institute for Environmental Studies



Kinneret Academic College in the Jordan Valley

### BUDGET

€ 1,580,135  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Promoting UPcycling in Circular Economy through INNOVation and education for creative industries in MEDiterranean cities



National Technical University of Athens



Environmental Planning Engineering and Management SA



Municipality of Prato



Center for Economic and Social Research for the South of Italy



Future Pioneers for Empowering Communities' Members in the environmental and educational fields



Birzeit University



Municipality of Tunis

Mediterranean cities face the issue of overwhelming waste production, demanding effective and urgent actions. Circular economy principles may offer a solution to this problem. As it is generally recognised that a noticeable percentage of waste in city centres is produced by Cultural and Creative Industries (CCIs), their involvement in circular economy schemes is of great importance. Although there are disparities between cities in the North and the South of the Mediterranean area, they share similar cultural characteristics. Therefore, by building on their common identity and by integrating into their productive schemes the principles of the circular economy, Mediterranean cities can create resilient urban environments and communities, establishing a supportive framework for CCI SMEs clustering. IN-

NOMED-UP proposes to work with CCIs to shift local urban economies towards a circular production and consumption paradigm including optimal use of material resources, innovation enhancement for SMEs, knowledge transfer among cities, social inclusion and citizens' engagement. The project will work at a cross-border level supporting both technological developments (such as modern procedures of upcycling, technological informative platforms, etc.) and traditional recycling practices.

### OBJECTIVE

To cluster Cultural and Creative Industries SMEs around the principles of the circular economy in urban contexts, contributing to the revitalisation of Mediterranean historic city centres.

### WHAT WILL BE IMPROVED?

The adoption of circular economy procedures within Cultural and Creative Industries will improve waste management thanks to technological development and innovative knowledge transfer, consequently, transforming Mediterranean cities into more resilient territories. The implementation of these procedures is expected to create jobs for scientific experts and technical staff. SMEs will also benefit from research opportunities derived from clusters and innovation vouchers to acquire equipment and mentorship support.

### WHO WILL BENEFIT?

- 60 SMEs from the cultural and creative sector.
- Unemployed and marginalized people (mainly young people and women).
- Regional and local authorities.
- Over 3,000 citizens.

### EXPECTED ACHIEVEMENTS

- 1 model to foster a circular economy approach in urban planning.
- 60 CCI SMEs involved in training activities on circular economy.
- 6 clusters of CCI SMEs established in selected Mediterranean historic cities.
- 2 smart tools for waste collection (smart bike and smart garbage bin) developed.
- 1 central information system to monitor waste collection.
- 1 open source repository for sharing circular designs and eco-design toolkits.
- 27 pilot innovative products and services.
- 2 reuse open markets to foster the upcycling and creative use of waste or unwanted materials.
- € 205,000 granted to SMEs as innovation and mentorship vouchers.

### BUDGET

€ 3,199,096  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Mobilizing new Areas of Investments And Together Aiming to increase Quality of life for All



**Centre for Renewable Energy Sources and Saving**



Confederation of Egyptian European Business Associations



Arab Academy for Science, Technology and Maritime Transport



UTILITALIA



QUIPO



Jordan Chamber of Commerce



Industrial Research Institute



Association of the Mediterranean Chambers of Commerce and Industry

Notwithstanding Southern Mediterranean countries are facing a growing need for resource efficiency (RE) services (consulting, engineering and operations) to deal with the pressure on the environment, the RE supply persists at low levels. This is essentially due to the lack of a proper innovation process that would be able to identify the needs, structure the creative solutions and commercialise them. MAIA-TAQA will deal with these issues by setting up demonstrators in 3 Mediterranean pilot areas where innovative services will be applied: they will be related to micro-grids, photovoltaics, energy storage, solar thermal technologies and water sanitation and purification. Partners will develop solutions for each identified barrier: capacity building programme (for lack of skills); innovation

desk (for lack of information); guidelines (for lack of regulation); vouchers (for lack of finance) and targeted B2B events (for lack of specific matchmaking). The main final beneficiaries are SMEs (especially from environment/utility/building sector) that can have a set of supporting instruments to overcome the existing barriers and reduce the risks related to innovation.

### OBJECTIVE

To define a new set of sustainable services related to energy, water and waste, and consequently to promote innovative resource efficiency services in the Mediterranean SMEs through the enhancement of their technical and management capacities.

### WHAT WILL BE IMPROVED?

Through the creation of real demonstration cases with local companies, MAIA-TAQA will raise awareness among SMEs and policy-makers of innovation practices and policy instruments in the area of resource efficiency services. The established “Innovation One-Stop-Shops” offering innovation support services will create an enabling environment for the development of the RE sector in the Southern Mediterranean countries. Finally, a SMEs network will pave the way for tackling the regulatory frameworks and trade barriers.

### WHO WILL BENEFIT?

- SMEs, especially those involved in the RE sector, companies and professionals, technology distributors and sellers.
- Business associations and chambers of commerce.
- National and sectorial institutions.
- Research centers, universities and PhD students.

### EXPECTED ACHIEVEMENTS

- 6 innovative resource efficiency services piloted in Lebanon, Jordan and Egypt.
- 3 Innovation One-Stop-Shops established and Innovation Voucher Services for SMEs tested.
- 3 B2B events and 9 company missions to promote technological cooperation among Mediterranean SMEs.
- 6 agreements and protocols signed between partners and local business associations/R&D centres.
- 12 training events to enhance the technical and management capacities of local SMEs.

### BUDGET

€ 3,167,463  
(90% EU contribution)

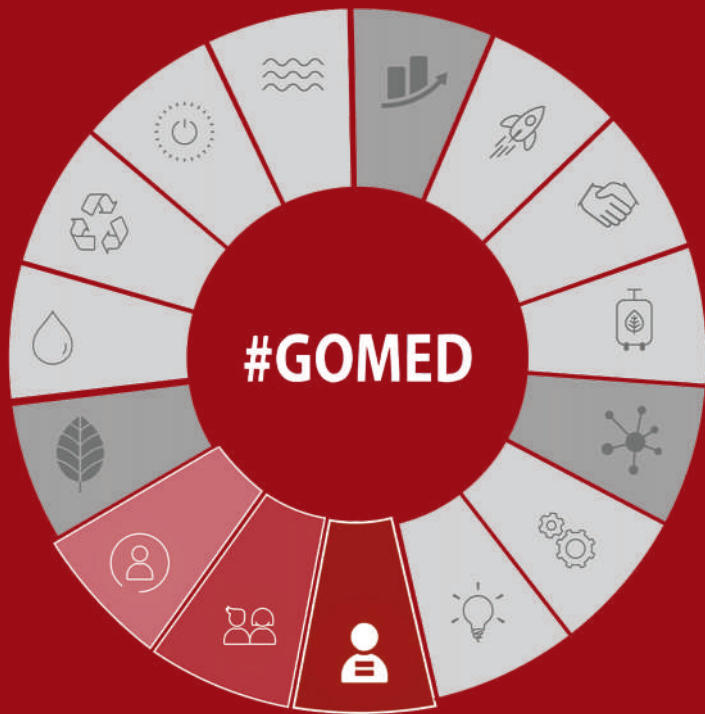
### DURATION

36 months

### CONTACT

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# SOCIAL INCLUSION AND FIGHT AGAINST POVERTY



## Employability of young people (NEETS) and women

Provide **young people**, especially those belonging to the NEETS, and **women**, with **marketable skills**

Targets of funded projects

**14,400**

persons involved in employment training programmes

**20**

public institutions engaged in the development of specific schemes to foster employability of young people and women

average percentage of NEETS in Mediterranean countries

**21%**



## Social and solidarity economy

Support social and **solidarity economic actors**, also in terms of improving capacities and **cooperation with public administrations** for services provision

Targets of funded projects

**12**

social enterprises established or strengthened

**81,000**

people covered by improved social services as a direct consequence of Programme support

contribution of cooperatives to GDP in Egypt\*

**7.75%**

\*Source: FEMIP "Économie sociale et solidaire : Vecteur d'inclusivité et de création d'emplois dans les pays partenaires méditerranéens?"



# HELIOS



## Enhancing the social Inclusion Of neets



**Arces Association**



Fisheries and Blue Growth District - COSVAP



Institute of Entrepreneurship Development



National Agricultural Research Centre



University College of Applied Sciences Planning and External Relations Affairs



Action Against Hunger



Tunisian Union of Agriculture and Fishery

One of the main challenges in the Mediterranean region is to reduce the high level of NEETS (young people Neither in Employment nor in Education or Training) and prominent skills mismatch which currently prevail. Curricula for skills courses are often not based on a strategic analysis of the needs of the local economy and/or consultation with local enterprises in order to determine sectors of potential growth capable of absorbing new trainees. HELIOS will tackle this issue focusing on the Blue and Circular Economy (BaCE), identified as an economic sector with great potential for regenerative economic growth among NEETS. The project will provide curricula for innovative targeted and tailored skills training courses oriented towards specific needs of the BaCE labour market and the needs of NEETS, based on direct interaction with local enterprises. This

will be achieved through soft skills coaching and mentoring actions, as well as the creation of e-learning tools and methodologies supported by new technologies to facilitate skills learning for NEETS and women.

### OBJECTIVE

To help tackle social exclusion and poverty thanks to increased employability rate of young people and women, using tailor-made courses that provide specific skills to facilitate their employability in the Blue and Circular Economy sector.

### WHAT WILL BE IMPROVED?

On the one hand, local economies will be enriched thanks to the increase of labour work force trained consistently with actual business needs, upgrading of professional skills of vulnerable unemployed people, and professional mobility across the Mediterranean region. On the other hand, it is expected that low skilled people will increase their chance to find an employment. Finally, a stronger link between Technical and Social Education and Training (TVET) institutions and the needs of local enterprises will be established.

### WHO WILL BENEFIT?

- Young NEETS and unemployed women.
- TVET institutions and local enterprises from the Blue and Circular Economy sector.
- Tourism enterprises and local authorities.

### EXPECTED ACHIEVEMENTS

- 1 software for profiling the situation of NEETS in each involved area.
- 6 specific sector identified with high potential for employment within the blue and circular economy.
- 9 professional curricula oriented to the needs of the labour market.
- 30 mentors involved in coaching and tutoring actions.
- 6 agreements between training institutions and BaCE businesses to better connect TVETs with market needs.
- 1,720 NEETS and women trained in the Blue and Circular Economy.
- 4 art events around the topic of the blue economy.
- 24 young people and women involved in cross-border traineeships.

### BUDGET

€ 2,791,437  
(90% EU contribution)

### DURATION


36 months

### CONTACT


Alessandro Pernice  
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## Social Innovation in the Agri-food sector for Women's Empowerment in the Mediterranean sea basin

 University of Rome Tor Vergata

 CESIE

 Palestinian Businesswomen Association - Asala

 Ministry of Women Affairs

 Young people towards solidarity and development - Jovesólides

 Center of Arab Women for Training and Research

On both sides of the Mediterranean Sea, there is a common trend in terms of low women empowerment and participation in the labor force. InnovAgroWoMed project aims at boosting women employment and entrepreneurship, by leveraging on the potential of the agri-food sector - an industry closely linked to the cultural identity of the Mediterranean region - and showing a significant level of untapped potential in terms of innovation and growth. While countries such as Spain and Italy feature comparatively high levels of growth in the agri-food sector, albeit, with very low levels of women participation, the MENA agricultural business is still fragmented, and with low women employment. The project will focus on two European regions (Valencia, Spain and Sicily, Italy) and two



MENA areas (Béja and Médenine in Tunisia, and Palestine), identified as suitable for the implementation and scaling up of a sustainable value model in the agri-food sector: Rural Social Innovation (RSI). RSI redefines the boundaries between organizations and the community, addressing broader societal challenges by seeking economic, social and environmental sustainability, balancing tradition and innovation and explicitly seeking community development at the local level.

### OBJECTIVE

To increase women's inclusion in the society by improving their participation in the economy and labor market based on the rural social innovation concept.

### WHAT WILL BE IMPROVED?

The innovative RSI model, tailored according to the local needs, will ensure that trained women have the necessary skills to be competitive and more prepared to find a job or become entrepreneurs. This will allow them not only to find a job but also a "sustainable" and desirable job as it will transform them into real agents of change in the rural contexts they live in, reducing poverty and boosting social inclusion.

### WHO WILL BENEFIT?

- 140 young women, especially NEETS, in rural areas of Italy, Pales-

tine, Spain and Tunisia.

- Local agri-food businesses.

### EXPECTED ACHIEVEMENTS

- 140 women trained in the agri-food sector.
- 4 job profiles defined according to the needs of the agri-food sector.
- 4 coaching and mentoring programmes.
- 4 traineeship programmes for women on Rural Social Innovation.
- 2 agro-business fora to match job profiles with local business needs.
- At least 100 women with a sustainable job by the end of the project.










**BUDGET**  
€ 2,838,171  
(87% EU contribution)

**DURATION**  
36 months

**CONTACT**  
Prof. Marco Meneguzzo  
meneguzzo@economia.uniroma2.it



## Rethinking employment and social integration of Mediterranean youth through sustainable development

-  **Petra Patrimonia Activity and Employment Cooperative**
-  Union APARE-CME
-  Consortium "Training, Employment and Cooperation" - CFLC
-  Social Promotion Association - AMESCI
-  Jordan University of Science and Technology
-  Association for Rural Development
-  Association for Education to the Environment of Hammamet
-  Young Economic Chamber of Tunisia
-  Higher Institute of Environmental Sciences and Technologies of Borj Cédria

The RESMYLE project is based on two findings: firstly, the difficulties of professional integration of young people in the Mediterranean, in particular for NEETS, are increasing. Secondly, the challenges of environmental protection create many new needs in the Mediterranean territories that are largely unfulfilled at the present time, particularly due to the lack of skills in some fields, including waste sorting, eco-mobility, risk prevention, etc. To respond to this double challenge, RESMYLE mobilizes 9 Mediterranean operators (cooperatives, associations, universities) in 5 countries (France, Italy, Jordan, Lebanon and Tunisia) around 3 complementary areas of intervention: the inclusion of sustainable development topics in the support actions carried out by the associations and social centers working on the integration of NEETS in the Mediterranean; the testing of a set of hands-on field trainings for young people

focusing on sustainable development and based on mobility, intercultural exchanges and real environmental issues; the creation of a Mediterranean network of eco-incubators of youth-led activities based on a common method and shared tutoring/trainings.

### OBJECTIVE

To promote the social and professional integration of young people, in particular those with fewer opportunities by responding to the challenges of sustainable development in the Mediterranean area.

### WHAT WILL BE IMPROVED?

The project aims to create 300 direct jobs for young people, thanks to the socio-economic viability of 60 incubated projects and the improved employability of participants in the Mediterranean Practical School for Sustainable Development and related international mobility programme. It will also improve the educational practices of organizations working in youth integration through "train-the-trainers" tools and the outcomes of the 12 pilot projects involving about 500 young people on environmental issues with social value. Moreover, the creation of 6 eco-incubators will allow young people to develop and test their project activities in a safe environment, enhancing the spirit of initiative and self-employment of people who lack of trust and confidence.

### WHO WILL BENEFIT?

- 700 NEETS.
- 300 young graduates looking for a job in the environment and sustainable develop-

ment sector.

- 100 social and educational agents, social educators in charge of NEETS integration.
- 25 Mediterranean communities and local NGOs involved in environmental challenges.

### EXPECTED ACHIEVEMENTS

- 300 jobs opportunities created.
- 1 online platform for social educators with training tools on environment and sustainable development skills.
- 12 educational projects on eco-innovation.
- 16 training workshops through the establishment of a Mediterranean Practical School for Sustainable Development.
- 24 NEETS involved in cross-border mobility actions in Mediterranean NGOs.
- 6 incubators for young Mediterranean eco-entrepreneurs.
- 18 projects on environment issues with social value financially supported and implemented
- 6 agreements between the eco-incubators and Technical and Vocational Education and Training (TVET) institutions.

### BUDGET

€ 2,197,247  
(90% EU contribution)

### DURATION

36 months

### CONTACT

Matthieu Guary  
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## Co-producing social policies with Social and Solidarity Economy actors to fight poverty, inequality and social exclusion



**Assembly of Cooperation for Peace**



Tier 1 Technology SL



General Directorate of Cooperation, Regional Ministry of Social Services and Cooperation of Balearic Islands



Scientific Society for Social Cohesion and Development



The Jordanian Hashemite Fund for Human Development



Agricultural Development Association - PARC



Palestinian Hydrology Group for Water and Environmental Resources Development



Junta de Freguesia de Campolide, Equality Portfolio - Department of Social Services



Association of Tunisian Women for research on development

Public services face an unprecedented set of challenges: increasing demand, rising expectations, seemingly intractable social problems and, in many cases, reduced budgets. In Europe previous approaches have produced important improvements in some areas, but failed to tackle the structural inequalities that are fuelling the demand for services. In the Arab world, heterogeneous and fractured social structures, along with occupational shifts from agricultural to industrial and service activities, are overstressing already weak social services schemes that fails to address the real drivers of poverty, inequality and exclusion. MedTOWN is an initiative focused on the combined potential of agents of the social and solidarity economy (SSE), citizens and local authorities to co-produce the social

policies that can fight poverty, inequality, social exclusion and environmental unsustainability, providing them with tools and connections to build local resilience and foster the transition towards more resilient, sustainable and fairer societies in the Euro-Mediterranean region.

### OBJECTIVE

To promote the co-production of social policies through the establishment of multi-stakeholders partnerships among SSE actors, citizens and local authorities in order to achieve a more effective and equal delivery of social services.

### WHAT WILL BE IMPROVED?

MedTOWN will provide SSE agents and practitioners with tailored, innovative and low-cost tools and networking opportunities. This will be implemented through an open policy dialogue aimed at strengthening the Mediterranean region's role in the development and implementation of policy actions towards the development of quality, more user-friendly, and empowering social services. A social experimentation based on the use of complementary currencies for the delivery of financial aid to vulnerable communities will be carried out.

### WHO WILL BENEFIT?

- Communities with a high proportion of impoverished households, women

victims of gender violence, refugees or people with disabilities.

- 120 social workers and frontline staff in public organizations.
- Responsible national/regional bodies in the regulation of social services and SSE.

### EXPECTED ACHIEVEMENTS

- Over 20,000 people covered by improved social services.
- 6 agreements between public administrations and relevant stakeholders for coordinated planning and implementation of social services.
- 210 job opportunities created.
- 12 study visits for social services professionals.
- 42 policy and regulatory recommendations to improve the delivery of social services.
- 13 research studies published on the co-production of social services.
- 10 pilot SSE projects supported.

### BUDGET

€ 3,444,831  
(86.5% EU contribution)

### DURATION

36 months

### CONTACT

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## Reinforcing social and solidarity economy for the unemployed, uneducated and refugees



An-Najah National University



Nablus Chamber of Commerce and Industry



Eurotraining Educational Organization SA



CESIE



Ministry of Public Works and Housing



Mutah University



Business Consultancy and Training Services

The financial crisis in Europe, as well as the unstable financial and political situation in many Mediterranean Partner Countries, sorely tested the existing economic model. Furthermore, around 15 million persons (migrants and refugees) born in a third country currently live in the region and need to find a job or enter the education system. It has become apparent that new and credible alternatives to the mainstream economy are needed. These transformations in the economy and the society have brought increased attention to the social and solidarity economy (SSE) actors that have been capable of helping to turn the challenges into opportunities. Nevertheless, in order for the SSE initiatives to be efficient, effective collaboration with the public authori-

ties is fundamental. MoreThanAJob will deliver and demonstrate a framework of best practices, previously identified and studied for the inclusion of the unemployed (including refugees and uneducated) in the work and education system. The framework is based on the collaboration between SSE actors and public authorities for delivering in a more effective way their services. This will be done through pilot sub-projects aiming to ensure a long term impact and the creation of jobs.

### OBJECTIVE

To ensure social inclusion of vulnerable, unemployed populations, lacking of formal qualifications and skills, supporting Social and Solidarity Economy actors and their interactions with the public administrations.

### WHAT WILL BE IMPROVED?

MoreThanAJob will bring a change in the way SSE actors and public institutions work together for services provision to unemployed people, focusing on vulnerable groups (uneducated and newly arrived migrants/refugees). The development of a framework of new social pilot schemes as well as the development of policy briefs and suggestions will improve the planning of policies adapted to the needs of the target groups.

### WHO WILL BENEFIT?

- Public institutions in the field of employment and skills assessment, including ministries of labour, education, migration and related bodies.
- 250 SSE organisations active in the field of employment.
- Unemployed people focusing on newly arrived migrants and refugees.

### EXPECTED ACHIEVEMENTS

- 100 participants in training sessions for SSE actors.
- 90 public officers trained in employment and education schemes for refugees.
- € 200,000 in sub-grants to support innovative SSE initiatives.
- 10 agreements between public administrations and relevant stakeholders for coordinated planning and implementation of social services.
- 6 reports containing new/improved policy recommendations.
- 31,500 people covered by improved public services.

### BUDGET

€ 2,051,597  
(90% EU contribution)

### DURATION

36 months

### CONTACT

Imad Ibrik  
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## Development of a Transcultural socio-ethical-care model for dependent population in the Mediterranean basin



University of Seville



MAGTEL OPERACIONES, SLU



Academy of Scientific Research and Technology



SEKEM Development Foundation



Research, Innovation and Development of Telematics Technology - VIDAVO S.A



Therapeutic Educational Centre of Patras for People with intellectual disabilities



New Society Social Cooperative



DQS Lebanon



Institute for Development, Research, Advocacy & Applied Care



National Institute of Nutrition and Food Technology - Studies and Planning Department

Mediterranean countries are showing common trends in terms of social support decrease and the need for innovative and sustainable socio-ethical-care models. These issues have an impact on many categories of vulnerable people, such as dependent elderly having chronic diseases and lacking of family network support, with the consequence of being further marginalized. TEC-MED will develop an innovative and cost-effective socio-ethical care intervention framework which improves and adapts social care policies tackling the phenomenon of ageing population. A new organizational model will be designed to support cooperation and partnership between public institutions and social care actors. Six pilot actions will be implemented in the participating

countries to test and validate the model by involving social enterprises, citizens and public administrations.

### OBJECTIVE

To develop an innovative transcultural social care model aiming at upgrading the daily operations of social enterprises and collaboration with public administrations in the care of elderly people at risk of exclusion.

### WHAT WILL BE IMPROVED?

TEC-MED will contribute to decrease the marginalization of elderly people and increase the quality of social services provided to them. Through the development of a common model supported by software applications, the project can help to set a benchmark model for social assistance in the Mediterranean region. The project will also foster the cooperation among institutions for the set-up of laboratories of “ideas” for designing innovative social services.

### WHO WILL BENEFIT?

- Dependant elderly people having chronic diseases and lacking of family support.
- Social care operators and NGOs providing assistance to the elderly population.
- Public social services.

### EXPECTED ACHIEVEMENTS

- 28,200 people covered by improved social services.
- 12 agreements between public administrations and relevant stakeholders for coordinated planning and implementation of social services.
- 90 social care professionals involved in social pilot schemes.
- 6 action plans for public administrations.
- 1 online platform for cooperation and partnership between public institutions and social care actors.

### BUDGET

€ 3,331,225  
(90% EU contribution)

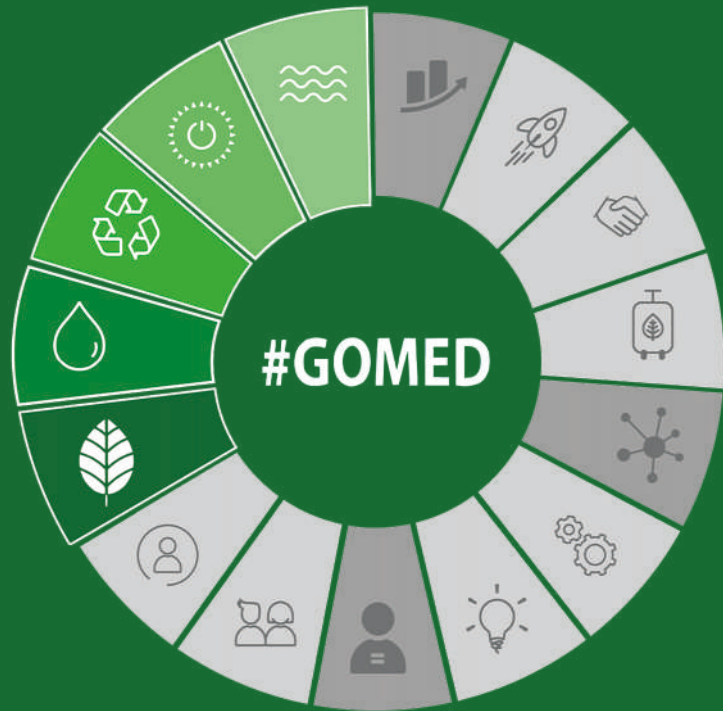
### DURATION

36 months

### CONTACT

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# ENVIRONMENT AND CLIMATE CHANGE

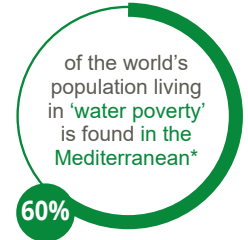


## Water efficiency

Support sustainable initiatives targeting innovative and technological solutions to increase water efficiency and encourage use of non-conventional water supply

**1,500**  
hectares of land irrigated with non-conventional water

**909,000**  
m<sup>3</sup>/year of non-conventional water supply used for domestic purposes



\*Source: Global Water Partnership "Water Demand Management: The Mediterranean Experience"



## Waste management

Reduce municipal waste generation, promote source-separated collection and its optimal exploitation, in particular of the organic component

**12**  
local authorities adopting and implementing new waste management plans

**29**  
enterprises involved in waste reuse and recycling



\*Source: European Environment Agency "Mediterranean Sea region briefing - The European environment - state and outlook 2015"

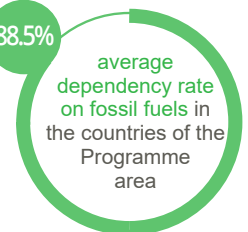


## Energy efficiency and renewable energy

Support cost-effective and innovative energy renovations relevant to building types and climatic zones, with a focus on public buildings

**1,139**  
tons - annual decrease of Co2 emissions as a result of renewable energy and energy efficiency measures implemented in public buildings

**800,386**  
kWh generated using renewable energy

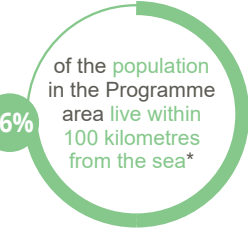


## Integrated coastal zone management

Incorporate the Ecosystem-Based management approach to Integrated Coastal Zone Management into local development planning, through the improvement of intra-territorial coordination among different stakeholders

**25**  
tools developed for the sustainable management of coastal areas

**53**  
coastal cities and institutions adopting Integrated Coastal Zone Management plans / guidelines for the sustainable management of coastal areas



\*Sources: EuroStat "Coastal regions" - Arab Forum for Environment and Development "Impact of Climate Change: Vulnerability and Adaptation"



## Towards Sustainable Treatment and Reuse of Wastewater in the Mediterranean Region



Centre for Research and Technology, Hellas



Integrated Resources Management Co Ltd



Lebanese University



Plataforma Solar de Almeria (PSA) - Energy Department - Solar Treatment of Water Unit



The Regional Entity for Wastewater Sanitation and Treatment in Murcia



Water Research and Technologies Center



Tunis International Center for Environmental Technologies

Reclaimed municipal wastewater is considered as a valuable non-conventional water resource (NCWR). Unfortunately, a substantial number of wastewater treatment plants installed in the Mediterranean region have proven unsuccessful copies of western-based treatment system concepts. Besides their high operational and maintenance costs, these systems are often unsuited to address the local challenges of wastewater treatment. As a result, treated municipal water as a NCWR is commonly underexploited throughout the region. To address these challenges, AQUACYCLE is set to bring an eco-innovative wastewater treatment technology that will consist of anaerobic digestion, constructed wetlands and solar treatment for the cost-effective treatment of urban wastewater with minimal costs of operation and maximum environmental benefits.

### OBJECTIVE

To provide R&D support for sustainable NCWR management through low-cost eco-innovative technology and to improve water governance thanks to the active involvement of the local communities in the development of wastewater treatment and reuse action plans.

### WHAT WILL BE IMPROVED?

The AQUACYCLE project will change the paradigm of viewing wastewater as an unsafe effluent, to that of an abundant all-year-round resource that has multiple uses. AQUACYCLE addresses this through a system which has a low cost of operation and maintenance as it uses solar panels for energy, produces biogas and fertiliser, and the constructed wetlands will allow biodiversity to thrive and be a tourist attraction. As the novel technology will permit the recovery of valuable substances from the treated effluent, i.e. fertilizer and biogas, AQUACYCLE is set to showcase a prime example in relation to the transition to the circular economy.

### WHO WILL BENEFIT?

- Farmers' and irrigation associations, tree nurseries, agricultural extensions services, water utilities, municipal authorities and representatives from civil society.
- Ministries responsible for planning, environment, water, agriculture and energy, national research centres, universities and private consultancy firms.
- Regional and international water associations leveraged to bring the derived bene-

fits to the attention of policy-makers and scientists around the Mediterranean region and beyond.

### EXPECTED ACHIEVEMENTS

- 1 Participatory GIS (PGIS) to collect inputs from stakeholders on the reuse potential of treated effluent.
- 3 demonstration units for municipal wastewater treatment and reuse with a capacity of 5 m<sup>3</sup>/day - combining anaerobic digestion, constructed wetland and solar treatment - established in Charguia (Tunisia), Al-Fayhaa (Lebanon) and Blanca (Spain) municipalities.
- 3 local action and investment plans established in Tunisia, Lebanon and Spain targeting a combined reuse potential of 900,000 m<sup>3</sup> of treated effluent.
- 3 contractual agreements for the continued operation of the pilot units beyond the project duration.
- 10 showcase and knowledge transfer measures of the new wastewater treatment technology developed.
- 180 trained persons in the use of the eco-innovative system of wastewater treatment for non-conventional water supply and reuse.

### BUDGET

€ 2,838,679  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Mediterranean Integrated System for Water Supply



**Palestinian Wastewater Engineers Group – PWEG**



Governorate of Jericho and Al-Aghwar



Sardinian Water Authority - Enas



University of Cagliari - CIEM



Aqaba Water Company, Quality Assurance and Strategic Planning Department



Arid Regions Institute, Eremology and Combating Desertification Laboratory

There is a big pressure on the use of aquifers in the Mediterranean region for irrigation and desalination of water is still a costly and energy-demanding process. MEDISS addresses the issue of improving the quality of saline groundwater present in the Mediterranean area opening up alternative irrigation for higher quality and more diversified cultivations (dates, citrus, cereals, etc.). According to the features and specific needs of the partner areas - Palestine (Jordan Valley), Jordan (Aqaba Governorate), Italy (Arborea) and Tunisia (Gabès) - MEDISS will test innovative solutions in the use of treated wastewater and desalination of brackish water. Specific awareness initiatives for end-users will challenge their reluctance toward non-conventional water resources (NCWR) and train them on Best Agricultural Practices. On the longer term, the project will contribute to reduce stress on freshwater, as well as costs for water supply. At the same time, higher productivity and diversification of crops will increase food security and income for farmers. Local communities and institutions will be empowered, contributing to behavioural change on the use of NCW and on environmentally and economically sustainable development.

tribute to reduce stress on freshwater, as well as costs for water supply. At the same time, higher productivity and diversification of crops will increase food security and income for farmers. Local communities and institutions will be empowered, contributing to behavioural change on the use of NCW and on environmentally and economically sustainable development.

### OBJECTIVE

To contribute to a sustainable water balance in the target areas, increasing resilience to water stress and climate change by reducing water and soil salinity through non-conventional water supply.

### WHAT WILL BE IMPROVED?

By increasing the surface of land irrigated with improved treated wastewater, MEDISS will lower the consumption of groundwater for irrigation, reducing pressure on stressed aquifers and raising the level of water available for other purposes. The use of less saline water will positively impact soil quality, allowing quantity/quality increase of agricultural production and diversification, shifting from lower value crops (forage, cereals) to more profitable ones (citrus, vegetable, arboriculture). In the long term, MEDISS will bring economic development in the agricultural sector, increasing farmers' profits and making them more stable.

### WHO WILL BENEFIT?

- 160 farmers with access to increased

available water and water quality.

- 15 local organizations involved in water management (municipalities, local authorities, public agencies).
- Local communities.
- National and regional policy-makers who will acquire relevant data and good practices on innovative solutions for water supply.

### EXPECTED ACHIEVEMENTS

- 1 database on the water supply, water quality, soil composition and crops situation in the 4 target areas.
- 4 innovative solutions for NCW supply implemented for different irrigation and domestic purposes.
- 1,450 hectares of land irrigated with treated wastewater.
- 7 handover agreements with local authorities and water agencies to ensure the management of plants after the end of MEDISS project.
- 4 cross-border thematic practitioners and research networks on NCW supply for agricultural and domestic purposes.
- 15 local governance plans that integrate MEDISS NCW supply solutions.

### BUDGET

€ 2,487,084  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Non Conventional Water Re-use in Agriculture in Mediterranean countries

 **University of Sassari, Desertification Research Centre**

 International Center for Advanced Mediterranean Agronomic Studies - Mediterranean Agronomic Institute of Bari

 National Agricultural Research Center

 WeWorld - GVC Palestine

 The National Sanitation Utility

 Foundation Center for New Water Technologies

Water pressure has given rise in recent decades to a growing gap between supply and demand and to a deterioration in the quality of superficial and underground water sources in the Mediterranean region. Mediterranean countries are still torn between old and new water policies, and water shortage is not related only to increasing demand, but also to poor infrastructure and management practices. The joint challenges of MENAWARA project consist in providing additional resources by recycling drainage and wastewater, tapping water losses, rationalizing water use practices and setting operational governance models in line with national and international plans. The project is designed to enhance access to water through the treatment of wastewater to be re-used as comple-

mentary irrigation and to strengthen the capacity of governmental institutions, non-state actors operating in the sector, technicians and farmers.

### OBJECTIVE

To contribute to increased water availability for agricultural purposes using non-conventional water in order to reduce the pressure on freshwater.

### WHAT WILL BE IMPROVED?

In all intervention areas, the available hectares for agriculture use will increase and groundwater salinity/use of fertilizers will be reduced. The project will reduce the stress on freshwater sources and will improve the quality of treated wastewater in agriculture. New jobs will be created by incrementing the surface of fertile land equipped with innovative water supply solutions. The project will also contribute to an increased farmers' acceptance of the use of treated wastewater, thus saving fertilizers and increasing profit.

### WHO WILL BENEFIT?

- 45 farmer households using treated wastewater to irrigate olive trees, fodders and ornamental and fruits plants.
- 50 technicians from local institutions working in the fields related to the project activities.
- 20 local and national authorities.

- 4,200 people living in the target areas with access to enhanced water quality.

### EXPECTED ACHIEVEMENTS

- 6 wastewater treatment plants equipped with new low-cost pre and post-treatment systems to improve the quality of treated wastewater for agricultural purposes (Imhoff tank, permeable reactive barriers, sand filters, UV, chlorination, etc.).
- 46.5 hectares of land irrigated with treated wastewater through modern, efficient systems (low-cost innovative sprinklers, sub-surface drip irrigation).
- 5 training sessions addressed to managers, technicians of local institutions, researchers and farmers.
- 6 recommendation papers to promote the use of treated wastewater in agriculture.
- 1 interactive web platform facilitating access to information related to best practices and legislation on non-conventional water management.

### BUDGET

€ 2,903,916  
(90% EU contribution)

### DURATION








36 months

### CONTACT

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## Nature-Based Solutions for Domestic Water Reuse in Mediterranean Countries

-  **Province of Latina**
-  IRIDRA
-  SVI.MED. Euro-Mediterranean Center for Sustainable Development
-  University of Jordan
-  American University of Beirut
-  Energy and Water Agency
-  Centre for Water Research and Technologies

In Mediterranean countries, domestic water use accounts for a minor part of water consumption - a much larger quantity is used for irrigation - but it requires the best quality and its demand is continuously growing, along with improving lifestyle and increasing urban population. Moreover, urban water is still the main cause of pollution of rivers and groundwater, even when treated before being discharged. Per capita domestic water use can be drastically reduced by using non-conventional water (NCW) resources for non-drinking purposes: greywater (and rainwater when available) can be reused for WC flushing and irrigation but requires the implementation of decentralised treatment systems, serving one or a few buildings. NAWAMED aims at changing

the urban water management practice by means of innovative, sustainable, and low-cost treatment technologies, applicable in a decentralised way, to replace the use of potable water with good quality of NCW.

### OBJECTIVE

To increase the adoption of innovative, sustainable and low-cost technologies and measures for the use of non-conventional water resources for domestic purposes.

### WHAT WILL BE IMPROVED?

The project will demonstrate the technical and economic feasibility of nature-based and low-cost solutions, such as living green walls, to treat non-conventional water resources in schools, universities, public facilities and in a refugee camp. Recovered wastewater or storm water will be reused for different purposes, including toilet flushing and irrigation and therefore consumption of potable water for domestic uses will be reduced. Furthermore, the project will showcase that design and architecture can make buildings water producers rather than water consumers.

### WHO WILL BENEFIT?

- Owners/managers of the 8 pilot sites.
- 450 practitioners (e.g. engineers, architects, etc.), construction compa-

nies, university students.

- 50 staff of local and regional authorities.

### EXPECTED ACHIEVEMENTS

- 8 real scale pilot installation for greywater/rainwater treatment and reuse, including living green walls (vertical vegetation set up on building façades) and constructed wetlands treating flows from a public building, a parking area and a refugee camp.
- 30% reduction in water consumption at the pilot sites level.
- 9,000 m<sup>3</sup>/year of non-conventional water to be reused at urban/domestic level.
- 15 technical visits to pilot sites.
- 10 training workshops organised for technical staff and decision-makers.
- 1 Mediterranean Policy Document to foster the inclusion of water demand management and non-conventional water resources measures in national policy frameworks.

### BUDGET

€ 3,253,775  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Promoting Sustainable Irrigation Management and non-conventional water use in the Mediterranean

 **Institute for University Cooperation**

 Sicilian Region - Regional Department of Agriculture, Rural Development and Mediterranean Fisheries

 National Agricultural Research Center

 Lebanese Ministry of Agriculture

 Spanish National Research Council (CSIC) - Center for Edaphology and Biology of Segura

 Ministry of Agriculture, Hydric Resources and Fishery of Tunisia-General Directorate of Agricultural Engineering and Exploitation of Water Resources

In the Mediterranean region, water use for irrigation accounts for more than 70% of water consumption and an important hydric stress is registered due to increasing population and climate change. Water losses due to non-efficient irrigation systems, limited reliance on non-conventional water (NCW), scarce capacities of institutions to enforce effective water management plans and lack of awareness of modern solutions at farm level, are the most common issues to deal with. PROSIM will face these challenges and focus on both water demand and supply for irrigation. The project will bring innovative solutions combining water use efficiency and NCW and build local capacities to adopt/upscale them. Cross-border capacity building and roadmaps/plans for

improved water management based on project results will be carried out while enhanced public-private cooperation will be fostered together with investments for the adoption/upscale of the proposed solutions.

### OBJECTIVE

To demonstrate new/enhanced, sustainable irrigation solutions that ensure an increased water-use efficiency and entail a larger use of non-conventional water by adapting technical complexity to local conditions and capacities of target areas and making tailored solutions available to stakeholders at Mediterranean level.

### WHAT WILL BE IMPROVED?

The project will reduce pressure on water resources in the concerned areas of Italy, Jordan, Lebanon, Tunisia and Spain. At pilot farm level, the project will increase water usage efficiency by 30% and substitute clean water by non-conventional water up to 100% thanks to new/tailored solutions to optimise water consumption. The project also hopes to boost by 5-10% the investments in sustainable irrigation from governments, financial institutions and farmers.

### WHO WILL BENEFIT?

- 237 farmers.
- 4 national/regional institutions on water management and 80 extension

agents providing technical support to farmers.

- 4 water service providers and user associations.

### EXPECTED ACHIEVEMENTS

- 4 investment initiatives to upscale mature innovation solutions having the best market potential.
- 4 cross-border thematic field visits to showcase the most efficient irrigation techniques.
- 290 water stakeholders trained on water usage efficiency and non-conventional water use.
- 8 new technologies tested to demonstrate the potential of treated wastewater, desalination and mixed water for irrigation.
- 91 hectares of land irrigated with efficient and sustainable systems.
- 40 on-field dissemination days for 400 farmers to raise their awareness of new solutions for irrigation.

### BUDGET

€ 3,333,331  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Employing circular economy approach for organic fraction of municipal solid waste management within the Mediterranean countries

Hundreds of local open markets are distributed across the Mediterranean region. Local open market waste management, which represents a big challenge for the area, is directly affected by population growth and concentration, urbanization and tourism. For instance, waste production varies from 3 to 5 and 10 to 12 tons per day in the open markets located in Sfax (Tunisia) and Amman (Jordan), respectively. In view of the large influx of inhabitants expected in urban areas (70% of the population of the Mediterranean region will be living in urban areas in 2025), the sustainable management of waste in markets is now a priority. CEOMED aims to reduce municipal waste generation, promote source-separated collection and the optimal exploitation of the organic compo-

nent by recovering energy and recycling nutrients. Additionally, the project will train local stakeholders, i.e. consumers, sellers, the informal sector of waste collecting, scholars, farmers, technical and administrative staff, to make sure they have the knowledge and skills to contribute to better waste management.

### OBJECTIVE

To develop solutions for the separated collection and valorization of the organic waste component that are specifically tailored to the needs of open markets in the Mediterranean region.

### WHAT WILL BE IMPROVED?

The project will lead to the design of new waste management plans in the cities of Amman and Sfax which focus and address separately the waste produced from fruits and vegetables wholesale markets. Based on a circular approach, the organic fraction of waste from markets will be treated by a biological process (anaerobic digestion) using the digestate as a fertilizer in the farms that provide fresh products to the local markets.

### WHO WILL BENEFIT?

- Managers of local markets.
- 500 businesses using the markets daily to buy and sell fresh products.
- 2,500 daily customers.
- Technical and administrative staff from


the municipalities of Amman and Sfax.

- Local farmers.


### EXPECTED ACHIEVEMENTS

- 1 methodology developed for the efficient collection, separation and exploitation of waste from open-air markets.
- 2 pilot anaerobic digesters for organic waste valorization installed at fruits/vegetable wholesale markets in Amman and Sfax.
- 750 tons/year as total waste recycling capacity installed.
- 1,500 tons of biodegradable waste reused as fertilizers.
- 2 new plans for integrated management of waste from open-air markets.

#### Optimization oriented towards sustainability

 Spanish National Research Council

 Democritus University of Thrace - Department of Environmental Engineering

 University of Naples Federico II

 The University of Jordan

 Centre of Biotechnology of Sfax

**BUDGET**  
€ 3,191,559  
(90% EU contribution)

**DURATION**  
36 months

**CONTACT**  
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## Cleaning Innovative Mediterranean Action: reducing waste to boost economies

### Municipality of Sestri Levante

Cooperation for the Development of Emerging Countries

ARCENCIEL

Municipality of Bikfaya and Tanaayel

Tunis International Centre for Environmental Technologies

Municipality of Mahdia

While by 2020 most of EU Member States will be reusing and recycling at least 50% of the municipal waste, landfilling less than 35% of biodegradable waste, and recycling at least 55% of packaging, forecasts are more difficult to determine for Mediterranean Partner Countries. The CLIMA project, and its regional platform of Italian, Tunisian and Lebanese municipalities, public agencies and NGOs, aims to cope with environmental, economic and social problems of organic waste mismanagement in three Mediterranean countries, developing policy tools like integrated Municipal Waste Management Plans, innovative technical solutions such as the compost drum and two improved pilot compost sites. At the same time, the project will support local businesses active in the circular economy sector, as well as information and advocacy cam-

paigns to change citizens' attitude towards zero waste paradigm. Through the project, around 80,000 citizens in 3 municipalities will benefit from the reduction of waste production due to the increase in treated organic waste.

### OBJECTIVE

To upgrade the waste cycle management in pilot municipal areas of Italy, Lebanon and Tunisia with increased sorting and economic valorisation of the organic component as secondary raw material.

### WHAT WILL BE IMPROVED?

By defining a multiannual strategy at the municipal level, fostering cross-border exchanges of experiences and transfer of innovation in treating and recovering high quality organic component, the project will positively impact the 3 targeted territories, reducing the risk of unsafe or illegal disposal of waste and creating at the same time new opportunities for businesses using organic waste as secondary raw material.

### WHO WILL BENEFIT?

- 9 institutions and local authorities directly involved in the implementation of the project's activities.
- 12 firms and economic actors interested in affordable supply of high quality secondary raw materials.
- 450 people among citizens and decision-makers aware of the necessity of a

circular and sustainable waste collection and management

- 40 partners' staff experts benefitting from technical trainings and exchange visits.
- 80,000 citizens and key stakeholders reached by the territorial education and sensitisation campaigns at Mediterranean level.

### EXPECTED ACHIEVEMENTS

- 3 Municipal Waste Management Plans integrated with specific measures on the management of organic waste and targets to be met in order to reduce the production of waste and increase the reuse of the organic component.
- 3 composting sites created or enhanced in Tunisia (municipality of Mahdia) and Lebanon (Municipality of Bikfaya and Tanaayel).
- 12 local social enterprises receiving technical and financial support to foster the creation of an organic waste value chain
- 160+ awareness-raising and educational actions in the field of sustainable waste management.

### BUDGET

€ 2,836,741  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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# DECOST



## Decentralised Composting in Small Towns



**BETA Technological Center, University of Vic-Central University of Catalonia**



University of Patras



The Galilee Society, Institute of Applied Research



Polytechnic University of Marche



Public administration of Basilicata region for the management of urban waste and water resources



Jordan University of Science and Technology



Ministry of Agriculture, Irbid Agriculture Directorate



Palestine Technical University Kadoorie

Municipal waste management, one of the major environmental challenges for the Mediterranean area, is directly affected by population growth and concentration, urbanization and tourism. DECOST project aims to develop a new framework of waste management, building a closed loop system of organic waste valorisation, integrating decentralised home and community composting systems with urban agriculture. This goal can only be achieved by using a people-centered approach, empowering civil society and increasing institutional capacity building. Thanks to DECOST, Integrated Municipal Solid Waste Management Plans and pilot initiatives will be implemented in 4 different municipalities in order to reduce food waste, treat 1,500-2,000 tons of organic waste/

year and use the produced compost in urban agriculture projects.

### OBJECTIVE

To reduce organic waste production and increase organic waste diversion from landfill by promoting the implementation of a new treatment model based on home and community composting and the exploitation of organic component in urban agriculture.

### WHAT WILL BE IMPROVED?

Besides diverting a significant amount of organic waste from being disposed of in landfills, the DECOST project will foster food security and accessibility thanks to the support of urban agriculture initiatives. Citizens, especially children and households, will be encouraged to adopt sustainable behaviours through IT tools and big data analysis.

### WHO WILL BENEFIT?

- Managers and technical staff of 5 municipalities (Al-Sarow, Jordan; Shefa-Amr, Israel; Tulkarem, Palestine; Venosa, Italy; Vic, Spain).
- People living in the target areas/neighbourhoods of the pilot municipalities, civil associations and NGOs, waste management agencies.

### EXPECTED ACHIEVEMENTS

- 4 new Integrated Municipal Waste Management Plans designed.

- 4 composting plants created.
- 1,500 - 2,000 tons/year of total waste recycling capacity installed.
- 1 smartphone application allowing citizens to monitor their environmental performance in terms of waste sorting and recycling.
- 40 municipal staff trained.
- 1 business plan to foster the long-term economic viability of the recycling system developed.

### BUDGET

€ 3,011,231  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## A Mediterranean Integrated Alliance on Waste for cities and citizens


 E3D-Environment

 AVITEM

 Greater Irbid Municipality

 Jordan University of Science and Technology

 American University of Beirut

 Ribera Consortium - Sustainable Energy department

 Municipality of La Marsa

Cities on both sides of the Mediterranean Sea face important environmental challenges and increasing costs to collect and treat waste, including expensive investments in landfills or incinerators. The MED-InA project proposes to develop and roll out a methodology for a “Zero Waste” public policy adapted to Mediterranean cities as an exemplary and participatory approach for waste reduction, reuse and recycling. The Zero Waste approach offers an alternative option and aims to reduce the amount of waste sent to landfills or incinerators through waste prevention, reuse, recycling and development of local activities. To adapt this ambitious approach to the Mediterranean context, the MED-InA project will develop a methodology co-designed by the partners, based on a wide consultation with local stakeholders (public, private, associations, citizens) and territorial

coordination. It will place the citizens at the heart of the process and will strongly value a “low tech-low cost” approach by promoting in the South and reintegrating in the North traditional practices that generate little quantity of waste.

### OBJECTIVE

To develop and roll out a methodology for a “Zero Waste” policy that fosters citizen-centered waste reduction, reuse, and recycling in Mediterranean cities.

### WHAT WILL BE IMPROVED?

The MED-InA project proposes to transform municipalities waste management practices from “treating always more waste” to “treating less by preventing waste production” through a focus on citizen behaviour change. To do so, the project will use an innovative methodology: a dedicated coaching service, as well as massive door-to-door campaigns and regular phone/email contacts, will allow a direct connection with citizens and local businesses in order to support them in reducing the production of waste that cannot be recycled nor reused. In addition, testing pilots in selected neighborhoods of La Marsa (Tunisia), Irbid (Jordan) and the municipalities belonging to the Ribera area (Spain) will be organized to show the commitments of public authorities in keeping cities clean. This work will be linked to concrete updates of Municipal Waste Management Plans and support to innovative circular

economy businesses in order to act at a multi-level stage and create synergies.

### WHO WILL BENEFIT?

- 45 municipal representatives/staff.
- 6 regional and national authorities in charge of waste management.
- 6,000 households of La Marsa (Tunisia), Irbid (Jordan) and Ribera (Spain).

### EXPECTED ACHIEVEMENTS

- 1 decision support tool on Zero Waste public policies.
- 3 Integrated Municipal Waste Management Plans integrating both organic and plastic waste sorting and treatment solutions.
- 3 capacity-building plans and training programs for municipal staffs and elected members.
- 15 local awareness-raising campaigns on the Zero Waste approach.
- 3,000 households using new services and equipment for sorting at source, recycling, reusing and composting.
- 12 start-ups selected and supported to create businesses in the circular economy sector.

### BUDGET

€ 2,381,221  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## BIM (Building Information Modeling) for Energy Efficiency in the Public sector


 **National Research Council of Italy, Institute for Technologies Applied to Cultural Heritage**

 Minnucci Associated srl


 The Cyprus Institute - Energy, Environment and Water Research Centre

 Egypt-Japan University of Science and Technology, Computer Science and Engineering Department

 National Energy Research Center, Energy Efficiency and Solar Thermal Division

 Lebanese Center for Energy Conservation

 Centre for Cultural Heritage Preservation

 Valencia Institute of Building

Buildings are responsible for 36% of global energy consumption and nearly 40% of total direct and indirect CO<sub>2</sub> emissions. In such a challenging situation, renovating and making Mediterranean buildings smarter is of utmost importance to reduce the carbon footprint of our homes. BEEP project aims at strengthening the use of Building Information Modeling (BIM) - a process supported by various tools and technologies involving the generation and management of digital representations of physical and functional characteristics of places - to enhance energy efficiency in buildings. The testing of this emerging technology on built heritage will be performed to demonstrate its scalability to the entire building stock. The project will provide public administrations with a powerful method for the energy rehabilitation of pub-

lic buildings to be supported with private funds through the Energy Performance Contracting. The project main outcome will be an innovative methodology based on the integration of emerging technologies tested on heritage public buildings. The results will streamline the sustainable rehabilitation process and start a virtuous circle where the money saved by public administrations in managing public assets will be used to multiply the interventions on the existing building stock.

### OBJECTIVE

To reduce the environmental impact of buildings through a highly efficient rehabilitation process that will lead to new specialised and innovative jobs, enhancing at the same time the capacity of public local administrations to design and implement innovative energy rehabilitation interventions on existing public buildings.

### WHAT WILL BE IMPROVED?

BEEP pilot actions will contribute to an open, competitive digital market for construction and will encourage a wider collaboration between the public and private sectors for further collective action. The project will facilitate the wider introduction of Building Information Modelling in the public sector as a strategic enabler and the adoption of an aligned framework for its introduction into the built environment and construction sector. This alignment will accelerate growth and support

competitiveness of the construction sector, especially in SMEs.

### WHO WILL BENEFIT?

- Local public administrations.
- Architecture, engineering and construction professionals.
- Buildings owners and facilities managers.
- SMEs of the building sector.

### EXPECTED ACHIEVEMENTS

- 1 energy efficiency heritage Building Information Model developed.
- 1 training guide for architecture, energy and construction professionals involved in the refurbishment of buildings.
- 1 competence framework for public procurement technical officers.
- 9 pilots projects for the implementation of Energy Performance Contracting.
- 9 case studies on innovative energy rehabilitation interventions of historical buildings.
- 1 Memorandum of Understanding promoting a common strategic policy for refurbishment using Building Information Modeling.

### BUDGET

€ 1,934,184  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Cost-effective rehabilitation of public buildings into smart and resilient nano-grids using storage

 **University of Cyprus, FOSS Research Centre for Sustainable Energy**

 Deloitte Ltd.

 Technological Research Centre of Western Macedonia

 Municipality of Eilat

 Ben Gurion University

 Hevel Eilat Regional Council

 University of Cagliari, Department of Electrical and Electronic Engineering

The high energy consumption in the building sector, that is primarily fossil-fuel based, and the limited availability of the national electric grid in some remote or rural areas of the Mediterranean region call for new solutions that ensure stability and power quality of energy provision and a higher penetration of renewable energy sources. In this context, BERLIN aims to implement cross-border pilot measures to support innovative and cost-effective energy rehabilitations in public buildings based on the nano-grid concept, the building block for smart micro-grids. The project will focus on increasing grid penetration, combined with energy storage and demand side management, along with the enhancement of energy efficiency in buildings. The goal is to reach high levels of self-resilience in public buildings,

and to make them greener, smarter, more innovative and sustainable. The project will implement 8 energy rehabilitation pilot actions which bring effectively together photovoltaic, energy storage, smart grid elements, home automation, etc. to achieve a self-sufficient nano-grid.

### OBJECTIVE

To develop and promote sustainable and optimal solutions towards high degree of energy self-sufficiency in buildings in the Mediterranean region, based on clean renewable energy and energy efficiency.

### WHAT WILL BE IMPROVED?

In the mid-term, the project will achieve a reduction in energy consumption and CO2 emissions at the level of the pilot buildings. Thanks to the case studies, tools, developed guidelines, the project hopes to foster replication in other regions and an enhanced interest and capacity of public authorities in building energy retrofits. In the long-term, the project will encourage a widespread policy adoption for high photovoltaic grid penetration and high levels of self-sufficiency in buildings. It will boost SMEs competitiveness, R&D growth, investments in photovoltaic grid integration, interest of local building professionals to train in new innovations for high efficient buildings, and business and job opportunities in building retrofitting.

### WHO WILL BENEFIT?

- Energy stakeholders (policy-makers, investors, distribution system operators, regulatory authorities, energy consultants, photovoltaic installers).
- Local, regional, national authorities.
- The scientific community.
- Building users.

### EXPECTED ACHIEVEMENTS

- 8 case studies on the photovoltaic, energy storage solutions and demand side management hybrid technology.
- 4 country specific recommendations to stimulate the uptake of photovoltaic, energy storage solutions and demand side management.
- 2 tools developed for renovating public buildings using photovoltaic, demand side management and energy storage systems
- 8 pilot actions in buildings across 4 countries.
- 3 cost-effective technologies in public buildings optimally integrated.
- 5 public institutions supported towards the adoption of cost-effective policies to increase the use and local consumption of photovoltaic energy.

### BUDGET

€ 2,868,267  
(90% EU contribution)

### DURATION


36 months

### CONTACT

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## Energy Smart Mediterranean Schools Network

 Institute for University Cooperation

 Municipality of Alcamo

 German Jordanian University

 Lebanese Center for Energy Conservation

 Ribera Consortium

 National Agency for Energy Conservation

The energy trends in the Mediterranean region are characterized by the growing demand of energy, fossil fuels dependence, high CO<sub>2</sub> emissions, etc., with negative consequences on the environment. Buildings are responsible for a significant part of the total energy consumption, causing nearly 40% of CO<sub>2</sub> emissions. In this context, increasing the energy performance of the building stock has a key role to play in the transition to a smarter, renewable-intensive and decarbonised energy system and, in the longer term, to a climate neutral economy. ESMES project will specifically focus on the optimization of energy consumption in public schools through innovative, monitoring-based renewable energy and energy efficiency (REEE) pilot actions. At the same time, the project will improve the capacity of 5

public institutions in order to implement innovative energy rehabilitations.

### OBJECTIVE

To contribute to environmental protection, climate change adaptation and mitigation through improved energy management of public schools buildings based on REEE solutions.

### WHAT WILL BE IMPROVED?

ESMES intends to contribute to increased awareness and better energy habits in schools, through practical training in REEE delivered to 8,000 students. On the economical level, it is expected to save € 30,000 /year through the return of REEE investments. Finally, the project should save 240 CO<sub>2</sub> tons/year, 270,000 kWh/year from RE and 30,000 kWh/year through energy efficiency.

### WHO WILL BENEFIT?

- 44 schools, of which 10 addressed by REEE rehabilitations.
- 50 energy and education decision-makers.
- 37,000 school users, both staff and students.
- Universities, research centres, NGOs and SMEs in the field of sustainable energy.

### EXPECTED ACHIEVEMENTS

- 1 contest among 34 schools to reduce energy consumption.
- 5 national energy-efficiency hubs set up.

- 5 strategies to support efficient and cost-effective energy mix in schools buildings.
- 10 energy rehabilitations implemented in public schools in Lebanon, Tunisia, Jordan, Italy and Spain and certified through energy performance certificates.

### BUDGET

€ 3,333,332  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Minimising Energy Consumption for Green Buildings respecting present uses and public needs



Region of Peloponnese



University of Patras - Special Account for Research Grants



Jordan University of Science and Technology



Greater Irbid Municipality



Municipality of Moukhtara



BETA Technological Center, University of Vic-Central University of Catalonia



Management Company of the Technopole of Borj Cedria

Mediterranean countries need to reduce energy consumption and adverse environmental impacts due to the high dependence on fossil fuels. Green-Building project intends to tackle this challenge by promoting the use of renewable energy sources and energy efficiency measures in public buildings, since renewable energies represent a natural competitive advantage for the Mediterranean. The project will support 3 cost-effective public buildings energy refurbishment in Greece, Tunisia and Jordan. Furthermore, it will strengthen the capacities of public institutions to effectively plan and implement sustainable energy policies, through the identification of cost-effective energy refurbishment approaches, transfer of technical know-how and the enhance-

ment of higher research institutions, energy SMEs and business support organizations.

### OBJECTIVE

To effectively reduce energy consumption in public buildings by planning and supporting cost-effective energy refurbishment of public buildings using renewable energy and energy efficiency measures and increasing the capacities of public institutions in the implementation of energy efficiency measures.

### WHAT WILL BE IMPROVED?

The project will plan and support 3 cost-effective public buildings energy refurbishment based on renewable energy sources and energy efficiency. In addition, it will develop a remote control tool of the energy status of the public buildings in real time, highlighting the improvement in terms of energy consumption. Finally, the project will develop a set of technical documents, studies and guidelines to support future efforts in reaching nearly zero-energy and high energy performance buildings.

### WHO WILL BENEFIT?

- 4 higher research institutions.
- 40 energy SMEs.
- 5 building contractors.
- 10 business support organisations.
- 50 public administrations.

### EXPECTED ACHIEVEMENTS

- 5 training seminars dedicated to SMEs and public authorities.
- 1 manual for building energy refurbishment towards Nearly Zero-Energy Buildings.
- 3 pilot projects for the energy refurbishment of public buildings in Greece, Tunisia and Jordan.
- 3 energy audits carried out on the refurbished buildings.
- 7 best practices identified and analysed in the field of building energy refurbishment.
- 1 e-tool for monitoring the energy performance of refurbished buildings.

### BUDGET

€ 2,215,980  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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## Mediterranean University as Catalyst for Eco-Sustainable Renovation

Low energy educational buildings are becoming the standard for new buildings in European and Mediterranean countries. Technical solutions are continuously developed by universities for eco-sustainable building renovation, but there is still a gap between designed models and their actual application. This is due to several barriers, such as the insufficient collaboration between key actors and the lack of efficient suitable tools from the public sector to develop solutions. Med-EcoSuRe project offers an innovative approach to the definition and diffusion of cost-effective energy renovation within university buildings, with the perspective of extending results to the whole public buildings sector in the long term. A Mediterranean cross-border living lab - bringing together researchers, building

managers, companies, public organisations and students - will be established to develop energy efficiency and renewable energy solutions as well as retrofitting schemes to be implemented in 9 university buildings. The final aim behind the project is to turn university managers into active players contributing to the co-creation and experimentation of emerging ideas, breakthrough scenarios and innovative concepts.

### OBJECTIVE

To implement innovative and eco-sustainable energy renovation solutions for Mediterranean higher education institutions, introducing an active collaboration between academics, decision-makers and energy stakeholders.

### WHAT WILL BE IMPROVED?








The project will allow Mediterranean university building managers and then, in the mid-term, public building managers, to tap into a wide array of proven technologies, policies, and financing mechanisms to improve energy efficiency and capture cost-effective energy savings in buildings. Med-EcoSuRe will also create job and business opportunities related to the installation and maintenance of energy efficiency equipment in buildings, as well as local manufacturing and marketing of energy-efficient construction materials.

### WHO WILL BENEFIT?

- University staff and managers.
- National/regional agencies and institutions in charge of energy efficiency.
- SMEs of the energy sector.
- Researchers and academics.

### EXPECTED ACHIEVEMENTS

- 6 toolkits of passive solutions design for higher education buildings retrofitting.
- 2 policy tools for energy efficiency retrofit in higher education buildings.
- 6 cross-border strategic plans for university building retrofitting.
- 6 energy audits performed in selected higher education institutions.
- 9 energy efficiency retrofitting pilot actions.

-  **Mediterranean Renewable Energy Centre**
-  University of Tunis El Manar, National Engineering School of Tunis
-  University of Florence, Department of Architecture
-  Naples Agency for Energy and Environment
-  An-Najah National University, Energy Research Centre
-  University of Seville, Thermal Energy Engineering Department
-  Spanish association for the internationalization and innovation of solar companies

### BUDGET

€ 2,934,856  
(90% EU contribution)

### DURATION

36 months










### CONTACT

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## Co-evolution of coastal human activities & Med natural systems for sustainable tourism & Blue Growth in the Mediterranean

-  **National Institute of Marine Sciences and Technologies, Marine Environmental Laboratory**
-  National Agency for Environment Protection, Department of Environment Monitoring Mediums
-  Region of East Macedonia and Thrace, Department of Planning and Development
-  Region of Lazio, Regional Tourism Agency
-  Ministry of Public Works and Public Transport, Department of Public Marine Territories
-  Al-Midan NGO
-  AMWAJ of the Environment
-  University of Murcia, Department of Ecology and Hydrology
-  Valenciaport Foundation for Research, Promotion and Commercial Studies

The growth of tourism in the Mediterranean, especially in coastal areas, and the effects of climate change will continue to affect landscapes, soil and coasts stability/erosion, put pressure on species, water resources, and increase waste and pollution discharges into the sea. In this context, the Co-Evolve4BG project aims at analyzing and promoting the co-evolution of human activities and natural ecosystems in touristic coastal areas, towards sustainable development of tourist activities based on the principles of Integrated Coast Zone Management (ICZM) and Maritime Spatial Planning (MSP), promoting at the same time Blue Growth in the Mediterranean. The analysis and the demonstration actions foreseen by the project will enhance sustainable coastal and maritime tourism develop-

ment fully exploiting the Blue Economy potential, promoting the creation of business and job opportunities in the field of ecosystem-oriented services, coastal and maritime tourism, coastal management and adaptation to climate change. Co-Evolve4BG is part of a wider project, “Med Coast for Blue Growth” labelled by the 43 countries of the Union for the Mediterranean, and the Co-Evolve project funded by Interreg MED programme, in line with the Joint Action Plan of the Bologna Charter Initiative.

### OBJECTIVE

To analyse and strengthen the co-evolution of human activities and natural eco-systems in tourist coastal areas in the Mediterranean area, promoting the sustainable development of tourist activities and Blue Growth opportunities.

### WHAT WILL BE IMPROVED?

Key threats and enabling factors for the sustainable development of coastal and maritime tourism will be analysed at Mediterranean scale and in 7 pilot areas with different features, across 5 different countries, selected to produce widely applicable and transferable results. The analysis will be complemented by a set of indicators allowing responsible authorities to assess the level of sustainability of tourism in their area and engage in plans/pilot actions which mainstream the ICZM principles into

public action. Thanks to Co-Evolve4BG, conflicts among tourism and other uses of coastal and maritime spaces will be tackled and conditions for more sustainable and responsible tourism in coastal areas will be set.

### WHO WILL BENEFIT?

- Coastal municipalities and regional authorities.
- Ministries of environment, tourism and development.
- SMEs and tourism related companies.
- Research institutions and universities.

### EXPECTED ACHIEVEMENTS

- 1 integrated analysis of threats and enabling factors for sustainable tourism at Mediterranean level.
- 1 toolkit containing indicators to analyse the level of sustainability of tourism.
- 2 rounds of training addressed to partners and local actors involved in pilot actions.
- 7 pilot actions for developing sustainable tourism in the pilot areas.

**BUDGET**  
€2,932,586  
(90% EU contribution)

**DURATION**  
36 months








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COMMON



**CO**astal Management and **MO**nitoring Network for tackling marine litter in the Mediterranean sea

-  **Legambiente Onlus**
-  International Center for Advanced Mediterranean Agronomic Studies - Mediterranean Agronomic Institute of Bari
-  University of Siena
-  AMWAJ of the Environment
-  Tyre Coast Nature Reserve
-  National Institute of Marine Sciences and Technologies, Fisheries Sciences Laboratory
-  High Institute of Agronomy of Sousse University

Marine litter is quickly becoming one of the main pollution sources of the Mediterranean Sea, with negative consequences for living marine organisms, marine ecosystems, human health and coastal activities, including tourism and fisheries. Combating the issue of marine litter requires a global effort at basin level through a multi-institutional and multi-stakeholder approach that tackles the different and competing environmental, economic, social, cultural and recreational drivers that can affect marine ecosystems. COMMON project will apply the Integrated Coastal Zone Management (ICZM) principles to the challenge of marine litter, improving knowledge of the phenomenon, enhancing the environmental performance of 5 pilot coastal areas in Italy, Tunisia and Lebanon, and

engaging local stakeholders in marine litter management.

**OBJECTIVE**

To tackle marine litter in a coordinated and integrated manner based on the ICZM principles, enhancing the capacity of public authorities in 5 pilot areas and building multi-stakeholders networks at the Mediterranean level for marine litter monitoring and management.

**WHAT WILL BE IMPROVED?**

The mid-term expected impact of the project is the enhanced capacity of public authorities in monitoring and managing the waste chain with a focus on land-sea relationship and improving the environmental performance in the concerned 5 coastal areas: Tyre (Lebanon), Maremma and Northern Puglia (Italy) and Kuriat Island and Monastir (Tunisia). The integrated and multi-stakeholders approach promoted by the project will boost citizens' participation in marine litter removal activities, as well as exchange of good practices and experiences among local institutions at the Mediterranean level. The long-term impact of the project includes advancing towards the achievement of the Descriptor 10 of the Good Environmental Status (set by the EU Marine Strategy Framework Directive) by 2020 in the pilot areas, meaning that "properties and quantities of marine litter do not cause harm to the

coastal and marine environment."

**WHO WILL BENEFIT?**

- Policymakers and environmental protection agencies.
- 15 fishermen and their organisations.
- 35 economic operators.
- 30 Marine Protected Areas.
- Local communities.

**EXPECTED ACHIEVEMENTS**

- 10 studies on linkages between marine litter issue and land-based human activities.
- 1 ICT platform for sharing methodologies and data on marine litter.
- 250 people trained on marine litter management.
- 30 municipalities involved in a network of coastal cities against marine litter.
- 4 reports containing with legal recommendations and best practices for improving the management of marine litter and governance issues.
- 50 civil society organisations participating in beach cleanup campaigns.

**BUDGET**

€2,223,421  
(90% EU contribution)

**DURATION**

36 months

**CONTACT**

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## Mediterranean Forum For Applied Ecosystem-Based Management


 **United Nations Development Programme, Jordan Country Office**

 Royal Marine Conservation Society of Jordan

 PROGES - Planning and Development Consulting

 Association Friends of the Earth

 Tyre Coast Nature Reserve

 National Institute of Marine Sciences and Technologies

The actual mainstreaming of Ecosystem-Based Management (EBM) in Integrated Coastal Zone Management (ICZM) is still limited mainly because the practical application of EBM is a challenging task for ICZM actors. The MED4EBM project will tackle this issue by assisting ICZM actors in four coastal areas of Jordan, Italy, Lebanon and Tunisia to jointly develop and apply a common methodology to make ecosystem-based ICZM much easier to design and implement by applying innovative techniques and methods. A software tool will help institutional actors to better handle the complex multi-stakeholders analytical processes that characterize EBM applications and assess the relationships between ecosystem components, functions and services, as well as the associated human activities.

Moreover, the project will provide government officials and managers with the necessary tools, skills and competences to develop and implement ecosystem approaches to the management of activities in the marine and coastal environments.

### OBJECTIVE

To contribute to the preservation and sustainable development of Mediterranean coastal zones for the benefit of present and future generations by establishing effective ecosystem-based ICZM protocols.

### WHAT WILL BE IMPROVED?

Since none of the project pilot areas has incorporated the principles of the EBM nor avails spatial ICZM software tools, the project will therefore generate positive changes through the establishment of the Ecosystem-based ICZM Decisions Support Systems and the Ecosystem-Based Governance Protocol, helping concerned stakeholders to reduce and handle conflicts on the different uses of coastal and marine resources, boosting the sustainable productivity potential of these resources.

### WHO WILL BENEFIT?

- Actors and stakeholders concerned with the management of the pilot coastal and marine areas (public authorities and

institutions, scientific institutions, associations).

- Local populations.

### EXPECTED ACHIEVEMENTS

- 4 integrated sets of Ecosystem-Based ICZM measures developed.
- 4 Ecosystem-Based ICZM governance protocols and Decision Support Systems established.
- 4 training packages delivered to managers and officers of relevant institutions.
- 4 mentorship programmes for government officials and managers of institutions involved in the use of the ICZM tools developed.
- 1 permanent Mediterranean forum on EBM and ICZM tools and methods.

### BUDGET

€ 3,310,237  
(90% EU contribution)

### DURATION

36 months

### CONTACT

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