

# Opportunities of Research Collaborations within the New EU Framework Programme



National Council for Scientific Research

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**National NCP Coordination (Lebanon)**

*This presentation was prepared using various sources, including EU Presentations on Horizon 2020 & MEDSPRING Project (NCP Training)*

**Horizon 2020** is the biggest EU Research and Innovation programme with nearly €80 billion of funding available over 7 years (2014 – 2020)

# HORIZON 2020

Horizon 2020 is the world's largest multinational programme for supporting research and innovation. It is the European Union's flagship research funding programme and is fully open to researchers from public and private organisations from across the world.

Together we can:

- Extend the frontiers of scientific knowledge
- Tackle challenges that affect us all - wherever we are - such as infectious diseases, energy security, food safety and climate change
- Make industry, and notably SMEs, more competitive by linking research firmly to innovation, leading to better products and services for us all

# EU – South Mediterranean R&I cooperation in FP7 (2007-2013)

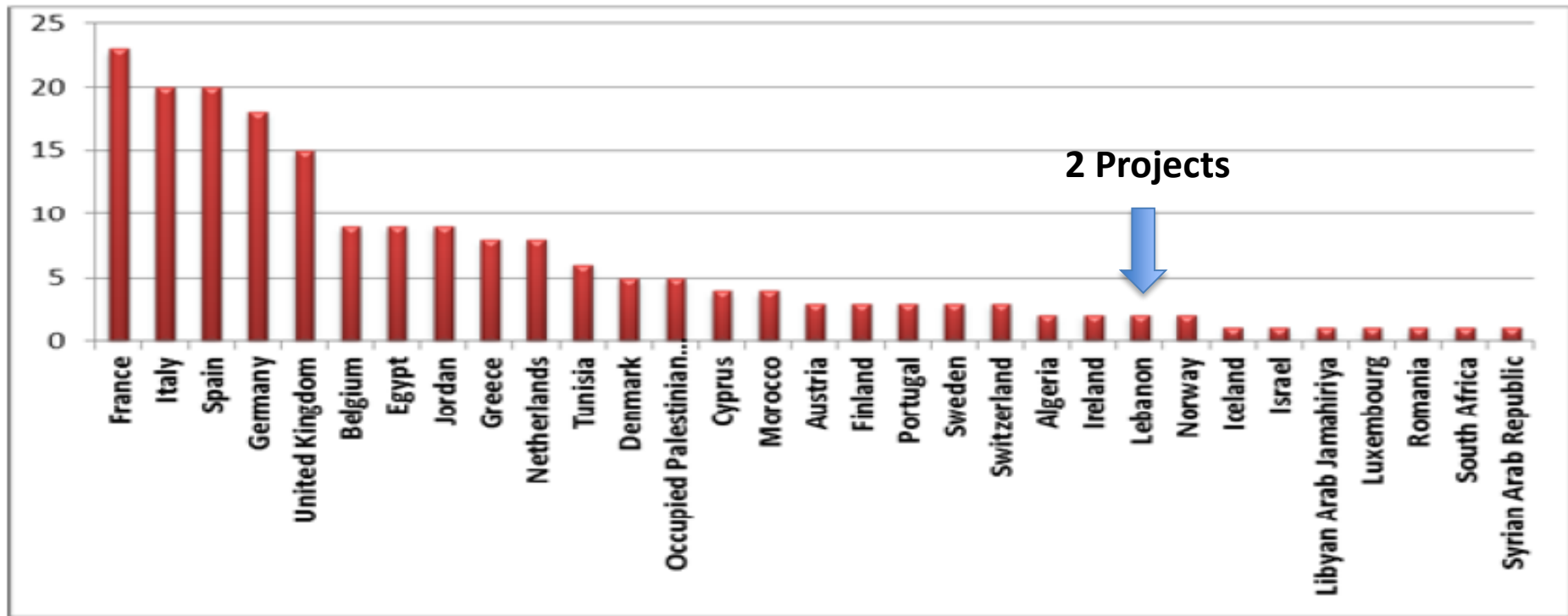
**296 FP7 funded** projects

- Success rate – 13%
- **704 million** EUR EU contribution to the projects
- **62 million** EUR EU contribution to the South Mediterranean partners
- **586** participations of public and private South Mediterranean institutions

# Lebanese Participation in FP7 (2007 – 2013)

- 20 Projects with 21 **Lebanese Partner Institutions**
  - Partners: Universities & Public Institutions
  - **AUB** (6 Projects) / **CNRS** (6 Projects) / **USJ & Berytech** (2 Projects) / **UoB** (2 Projects) / **Other** (5 Projects).
- A **qualitative** shift in type of Participation
  - Passive to Active Participation
- **Leadership in 2 Projects**
  - **INCAM**: Improving National Assessment and Monitoring Capacities for Integrated Environmental and Coastal ecosystem Management (CNRS-L)
  - **LEB'IN**: Lebanon-Europe "on boarding" to innovate and enhance research links in health. (USJ/Berytech)

International Cooperation in FP7 (as of March 2013) by **Countries of origin**.  
Institutions acting as **coordinators** in FP7 projects including partners from the  
Mediterranean Partnership



# Horizon 2020 - Three Priorities



**International cooperation** will be an important cross-cutting priority of **Horizon 2020**, focusing on research and innovation, in areas of common interest and mutual benefit. The strategy is based on the following 3 objectives:

**Extend the frontiers of scientific knowledge**  
**Tackle global challenges**  
**Invest in competitive industries**



- International cooperation is crucial to address many Horizon 2020 objectives
- Principle of general openness: the programme will remain to be the most open funding programme in the world
- Need to join forces globally to tackle global challenges



# Priority 1. Excellent science

*World class science is the foundation of tomorrow's technologies, jobs and wellbeing*



## ***European Research Council (ERC)***

Frontier research by the best individual teams

## ***Future and Emerging Technologies***

Collaborative research to open new fields of innovation

## ***Marie Skłodowska-Curie actions (MSCA)***

**Opportunities for training and career development**

## ***Research infrastructures (including e-infrastructure)***

Ensuring access to world-class facilities



# Marie Skłodowska-Curie actions (MSCA)

**From January 2014, the Marie Curie Actions will be renamed the Marie Skłodowska-Curie actions (MSCA). They come under the "Excellent Science" pillar of Horizon 2020.**



- ✓ Significant EU fellowship programmes since 1990 (FP3) for researchers' mobility
- ✓ Marie Curie label since 1996
- ✓ Actions aimed at structuring training, mobility and career development for researchers

# MSCA Objective

- **Main objective**

Ensure the optimum development and dynamic use of Europe's intellectual capital in order to generate new skills and innovation

- **Rationale**

- ✓ Encourage new, creative types of training

- ✓ Identify excellent talents in research and innovation in international competition

- ✓ Make best researchers in Europe and the world work together across countries, sectors and disciplines

- ✓ Create a whole new mind-set in Europe, crucial for entrepreneurship and innovation

# WHICH ACTION?

## RESEARCH FUNDING OPPORTUNITIES IN MARIE SKŁODOWSKA-CURIE ACTIONS

	INDIVIDUALS APPLY	HOST APPLIES	FUNDER APPLIES
	<b>IF</b> Individual Fellowships	<b>ITN</b> Innovative Training Networks	<b>RISE</b> Research and Innovation Staff Exchange
<b>Aims</b>	Enable talented researchers to work on projects within or outside Europe.	Promote innovative research and doctoral training in Europe. Develop researchers' skills for innovation within and outside academia.	Stimulate more interaction between academia and non-academia, in different countries and sectors. Enhance the international dimension of research and innovation.
<b>Profile of the researchers</b>	Experienced researchers of any nationality.	Early-stage researchers of any nationality.	All research and innovation staff of the participating organisations.
<b>Profile of the hosts</b>	Universities, research centres, companies including SMEs, other non-academic sector organisations.	At least 3 partners: universities, research centres, companies including SMEs, other non-academic sector organisations.	At least 3 partners: universities, research centres, companies including SMEs, other non-academic sector organisations.
<b>How does it work?</b>	Proposal submitted by researcher in liaison with host. Successful proposals receive up to 2 years' support (additional 1-year return phase in Global fellowships).	Successful proposals from a network receive funding for up to 4 years to cover researcher allowances, as well as the cost of research, training and networking activities.	A joint research and innovation project implemented by the exchange of individual staff for 1-12 months. The staff members return to their organisation after the secondment to ensure transfer of knowledge.
			<b>COFUND</b> Co-funding of regional, national or international programmes
			Support regional, national or international programmes to foster excellence in human resources development in research and innovation.
			Early stage researchers in doctoral programmes and experienced researchers in fellowship programmes.
			Universities, research centres, companies including SMEs, other non-academic sector organisations.
			Successful proposals from organisations that fund or manage a doctoral or a fellowship programme receive a fixed amount for each supported researcher as a contribution to the total costs

# Individual fellowships (IF):

## **Who can apply?**

The best, most promising individual researchers from anywhere in the world are encouraged to apply. Fellowships are for experienced researchers. (Min 4 Years Experience)

To apply you must submit a research proposal, including your CV, in response to the call for proposals. The proposal is written jointly with your chosen host organization(s) (a university, a research center or a company).

## **Which topics can be funded?**

Any research field may qualify for IF funding, apart from research areas covered by the EURATOM Treaty.

## **What does the funding cover?**

The grant is awarded to your host organisation in Europe. The grant provides an allowance to cover your living, travel and family costs. The research costs and indirect costs of the host(s) are also supported.

Successful proposals (selected through open competition , independent peer review, using a series of predetermined criteria) are typically funded for one to two years.

*In the case of a Global Fellowship, an additional twelve-month return phase to Europe is also financed.*

# Individual fellowships (IF):

## There are two types of Individual Fellowships:

### European Fellowships

- » Held in EU Member States or Associated Countries
- » Open to researchers either coming to Europe or moving within Europe
- » Researcher funding is for one to two years
- » Can help you restart your research career after a break such as parental leave
- » Can help your reintegration if you are coming back to Europe

**(Marie Curie Fellow: Nadine Zeeni, Lebanese American University, Lebanon; FP6)**

### Global Fellowships

- » Fund secondments outside Europe for researchers based in the EU or Associated Countries
- » Researcher funding is for two to three years
- » There is a mandatory one-year return period

# KNOWLEDGE SHARING ACROSS SECTORS AND BORDERS RESEARCH AND INNOVATION STAFF EXCHANGE (RISE)

RISE will support short-term mobility of research and innovation staff at all career levels, from the most junior (post-graduate) to the most senior (management), including also administrative and technical staff. It will be open to partnerships of universities, research institutions, and non-academic organizations both within and beyond Europe. In worldwide partnerships, academia-to-academia exchanges will be permitted.



## Priority 2. Industrial leadership

*Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors*

*Need for more innovative SMEs to create growth and jobs*

### ***Leadership in enabling and industrial technologies (LEITs)***

(ICT, nanotechnologies, materials, biotechnology, manufacturing, space)

### **~~*Access to risk finance*~~**

~~Leveraging private finance and venture capital for research and innovation~~

### ***Innovation in SMEs***

Fostering all forms of innovation in all types of SMEs



## Priority 3. Societal challenges

*Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities*

**Health, demographic change and wellbeing**

**Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy**

**Secure, clean and efficient energy**

**Smart, green and integrated transport**

**Climate action, environment, resource efficiency and raw materials**

**Inclusive, innovative and reflective societies**

**Secure societies**

*Science with and for society*

*Spreading excellence and widening participation*

# A Dual Approach to International Cooperation

**Openness:** Horizon 2020 open to participation from across the world, meaning that (except where this is explicitly excluded) European researchers can cooperate with their counterparts in third countries on any topic of their choice. (Increased Competition!!!)

**Targeted actions:** *(Projects which required or give preference to 3rd country participation; developed on the basis of common interest and mutual benefit)*

- *Thematic:* identifying areas for international cooperation on the basis of the Union's policy agenda
- Differentiation by *countries/regions* to target partners for cooperation

# International Cooperation

**Openness:** Horizon 2020 open to participation from across the world, meaning that (except where this is explicitly excluded) European researchers can cooperate with their counterparts in third countries on any topic of their choice.

**INCREASED INTERNATIONAL COMPETITION  
&  
at heart an EU Programme!!**

<http://ec.europa.eu/programmes/horizon2020/en>

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## HORIZON 2020

The EU Framework Programme for Research and Innovation

European Commission > Horizon 2020



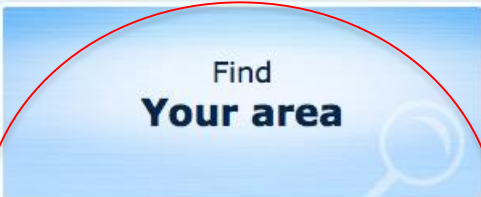
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**HORIZON 2020**  
*Two years on*

**Horizon 2020: two years on**  
In 2015 there was an increase in proposals by 25% compared to 2014, especially coming from businesses, whose number of applications increased by almost 27%.



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**Latest news and events**  
Science day at the World Organic Trade Fair

# Increased Stress on Innovation & SME

## Find your area

Agriculture & Forestry  
Aquatic Resources  
Bio-based Industries  
Biotechnology  
Energy  
Environment & Climate Action  
Food & Healthy Diet  
**Funding Researchers**  
Health  
**ICT Research & Innovation**  
**Innovation**

**International Cooperation**  
Key Enabling Technologies  
**Partnerships with Industry and Member States**  
Raw Materials  
Research Infrastructures  
Security  
**SMEs**  
Social Sciences & Humanities  
Society  
Space  
Transport

<https://ec.europa.eu/programmes/horizon2020/en/find-your-area>

# Regional Participation in Horizon 2020

As a general rule, the legal entities and individuals established in the ENP countries may participate in all parts of the programme (*exception: access to risk finance*)

The minimum rules of participation should be observed:

- For standard collaborative actions: At least three legal entities each established in a different Member State or an Associated Country
- For ERC, SME instrument, programme co-fund, coordination and support, training and mobility actions: One legal entity established in a Member State or in an Associated Country

*Additional conditions can be set out in the **work programme**; e.g. number of participants, type of participants etc.*



## How to participate

H2020 ONLINE MANUAL

The first steps to prepare your proposal and apply for EU research funding. Learn how to find a suitable Call for proposals or project partners and how to submit your proposal.

The following guidance services facilitate your participation:

- **H2020 Online Manual:** step-by-step online guide through the Portal processes from proposal preparation and submission to reporting on your on-going project
- **Reference documents:** library of legal documents, guidance notes, and additional reference material for H2020 and FP7
- search for already registered organisations and their **PICs**
- **Financial viability self-check tool** allows you simulating the financial viability check of your organisation
- **SME participation:** dedicated H2020 guidance page for SME

<http://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html>

FIND  
a call

1

FIND  
partners

2

CREATE  
your account

3

REGISTER  
your organisation

4

SUBMIT  
a proposal

5

**Make the Most of your  
Networks & Contacts!!!**

*Big Projects = Large Consortiums*

### Partners Service

#### Looking for research partners?

These profiles and collaboration requests are currently active to build your network

- 5813 Partner profiles
- 160 Open FP7 Calls for Proposals
- 512 Partnership requests
  - 73 Proposing project
  - 439 Offering collaboration
- 275 Groups

The National Contact Point networks can provide further support to find partners in your specific theme



**EU programmes are instruments for the implementation of EU policies and strategies.**

**THEREFORE**

- **A key success factor for EU project proposals is the contribution of the project itself to EU policies.**
- **It is vital for the success of the proposal to know the EU policies and strategies and emphasise how your project contributes to one or more of them!**

**AN OPPORTUNITY *WORTH* EXPLORING**

# Entry Point



1. Sign Up As Individual

2. Sign Up as Institutions  
(LEAR: Legal Entity Appointed Representative)

3. Legal/Financial Signatories



On this site you can find and secure **funding** for projects under the following EU programmes:

- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)
- 3rd Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, Internal Security Fund Borders, Internal Security Fund Police, Justice Programme, Promotion of Agricultural Products Programme, Rights, Equality and Citizenship Programme and Research Fund for Coal & Steel

#### Non-registered users

- search for funding
- read the H2020 Online Manual & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

#### Registered users

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle
- register as expert advising the Commission



# Keep an Eye Out for...

- **Horizon 2020** (Information Sessions/Events held at various Lebanese Universities/CNRS-L)
- **Training of Trainers**
- **Training For Lebanese Researchers**
- **National NCP Network**

[www.cnrs.edu.lb](http://www.cnrs.edu.lb)

# Thank You



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National Council for Scientific Research



# Joint Calls

## Eligibility & National Rules

Mouin Hamze, Secretary General of the CNRS-L  
Elise Noujeim, ERANETMED National Contact Point  
Rula Atweh, ERANETMED National Contact Point

*This presentation was prepared based on the ERANETMED Documents*

The ERANETMED project is part of the European Commission's Seventh Framework Programme (EU-FP7) that aims to improve cooperation and coordination of national research activities between European Countries and Mediterranean Partner Countries.

CNRS-L is a project partner (for enhancing collaboration) and a **Funding Agency** (for supporting bi-regional research projects):

### **First Call of the ERANETMED Project on Water, Food and their Nexus**

CNRS-L is supporting 3 bi-regional research projects:

**Participating Lebanese Institutions:** Lebanese University (LU), American University of Beirut (AUB), Balamand University (BU), Notre Dame University (NDU) & INDEVCO

**Collaborative Partners from:** France, Italy, Spain, Portugal, Greece and Cyprus

### **Second Call of the ERANETMED Project on Sustainable Solutions for the Environmental Challenges Facing the Mediterranean Community**

The CNRS-L will support 2 bi-regional projects

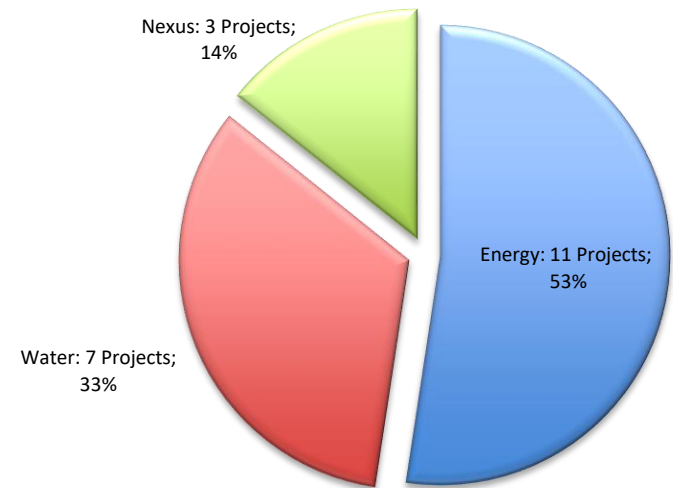
***Possibility of a Third Call for ERANETMED in discussion (2017)***

# 1<sup>st</sup> Call - Statistics

Out of a total of 190 submitted proposals, 20 Eligible Proposals were submitted by Lebanese Researchers: AUB (6 Proposal), CNRS-L (7 Proposal), USJ (2 Proposal), UoB (1 Proposal), BAU (2 Proposals), NDU (2 Proposals), USEK (2 Proposals), LU (2 Proposals) & LAU (1 Proposal).

21 proposals passed all phases of the evaluation and funding agency selection of which 3 Projects, with a Lebanese Partner, were co-funded by the CNRS-L

ERANETMED Accepted Projects  
Total: 21 Projects





## **Solar Assisted Catalytic Reforming: a Hybrid Process to Transform Municipal Waste into Energy (SOL-CARE)**

Lebanese Partners: University of Balamand (UoB), Lebanese University (LU), and Phoenix Energy-INDEVCO Group

Consortium Partners From: France, Lebanon, Portugal, Spain and Italy

## **Sustainable Air Conditioning Using Desiccant Membrane System (SOLCOOLDRY)**

Lebanese Partner: American University of Beirut (AUB) – *Project Coordinator*

Consortium Partners From: France, Lebanon and Italy

## **Communication Systems with Renewable Energy Micro-Grid (COM-MED)**

Lebanese Partner: Notre Dame University (NDU)

Consortium Partners From: France, Lebanon, Greece and Cyprus



**Objective:** to strengthen the co-operation among Research Actors and Programme Owners from

- EU Member States,
- Associated Countries to FP7
- Mediterranean Partner Countries.

# Challenges in the Region

- Working in important societal challenges in the **Mediterranean region** and face common constraints and issues
- Trans-national research addressed to these challenges is still highly fragmented and requires a **strong co-ordination** and **joint-effort of countries** to enhance effective and high impact research as well as innovation.

# Funding

## Funding Parties



Algeria

Cyprus

Egypt

France

Jordan

Greece

Germany

Italy

Lebanon

Malta

Morocco

Portugal

Tunisia

Turkey

Spain

# What will be funded?

The following actions will be eligible for funding

**a) Collaborative research**

Should take into account to develop an impact, demand and policy driven research, also accounting the inclusion of SMEs and enhancing innovation.

**b) Innovation**

Including prototype development and demonstration actions.

**c) Capacity building**

Including also support to build capacity for enhancing innovation

**d) Mobility**

Mainly based on supporting grants to young researchers from MPCs to develop post-graduate studies linked with funded projects

- ✓ All projects **must** be **collaborative research** projects (action a.)
- ✓ Applicants are **encouraged** to propose collaborative projects including at least another of the above actions (**b,c,d**), provided that the national funder covers such action

# How to Apply

## STEP 1: ERANEMED CRITERIA (Call Secretariat)

- Applicants from research and higher education entities, companies, and other legal entities such as NGOs.
- 3 Partners (1 from EU, 1 from MPC) from separate countries participating in the Call
- Be of a duration comprised between 24 and 36 months;
- Other applicants may apply but fund their own participation
- The duration of a project can range between 24 and 36 months.
- Proposals shall address only one of the 3 themes

Consortium:

Lebanon Alone (Not Eligible)

Lebanon / Egypt / Jordan (Not Eligible)

Lebanon / Egypt / France (Eligible)

Lebanon / Egypt / France / Italy / Jordan (Eligible)

**NETWORKING**

# How to Apply

## STEP 2: National Criteria (CNRS-L)

- At least One (up to 3) Lebanese Partner Institution.
- Each researcher can participate in more than 1 Project, but can be the main investigator in only one project
- Key Researchers included (By Institution, name and position) and/or scientific expertise
- Submitted by Full-Time Staff through their institutions

### Funding Criteria

- Total CNRS Contribution: 200,000 Euros
- Three to Five Projects can be funded
- CNRS contribution for each project cannot exceed 50%
- All Participating Institutions will Cost-Share in any submitted proposal
  - ✓ Letter of Commitment (from the Institutions involved)



***Evaluation of the Proposals will be  
undertaken by an  
External Advisory Board***

Following the Results of the Evaluation; Projects are funded based on an external ranking and budget availability (Lebanese + Other)

# www.eranetmed.eu

www.eranetmed.eu



**ERANETMED**



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#### Partner countries

Algeria, Cyprus, Egypt, France, Jordan, Greece,  
Germany, Italy, Lebanon, Malta, Morocco,  
Portugal, Tunisia, Turkey, Spain

#### Duration

4 years (October 2013- September 2017)

The main aim of the project is to enhance Euro-Mediterranean co-ownership through innovation and competitive research in the societal challenges of the region. The project aims at reducing fragmentation of programming in the Mediterranean region by increasing coordination among national research programmes of European Member States, Associated Countries and Mediterranean Partner Countries.

[Read More](#)

ERANETMED multi-tasks event  
25 Sep 2014 08:11

13-15 October, 2014 Venue: Hotel  
Holiday Inn Nicosia, Cyprus For more  
details, lease click here. [ ... ]

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- Announcement
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ERANETMED Multi-Tasks Event, 13-15 October 2014, Cyprus

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# Thank You



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