



Project
funded by the
EUROPEAN UNION



**ENPI
CBCMED**
CROSS-BORDER COOPERATION
IN THE MEDITERRANEAN

WATER DROP PROJECT STATE OF THE ART

RICCARDO CECCARELLI PROJECT COORDINATOR

PMU, FB & SC MEETINGS
UNIVERSITY OF NICOSIA, CYPRUS
MARCH 19TH - 20TH, 2015

ENEA for **EXPO**
2015



UNIVERSITY OF NICOSIA
ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ



PROJECT OBJECTIVES

Overall Objective:

Water-DROP Project aims to develop an Integrated Water Resources Management (IWRM) approach at the Mediterranean Basin level for managing the related cross-sector issues through the enforcement of multi-stakeholder partnerships, in particular with public and private actors.



Specific Objectives:

To develop an integrated approach that will co-ordinate water cycle management across sectors with the enforcement of a multi-stakeholder partnerships (public and private actors) to put in place the sharing of an innovative water management approach at the Mediterranean Basin level.



PROJECT EXPECTED RESULTS

1. The project is properly and timely managed; goals, objectives and results are recognized by target groups, stakeholders, civil society and institutions in involved countries.
2. The project goals and results are known by the target groups, main stakeholders and people of targeted territories. The visibility to the ENPI CBC Med Programme as main co-founder is guaranteed;
3. The "Water-DROP" results are acknowledged at local, regional, national, Mediterranean and ENPI levels. The way forward for the follow up of each Project results outputs is tracked and managed
4. An integrated approach DSS-GIS for the water cycle management is developed;
5. 5 Pilot actions in 4 countries (monitoring, water treatment, water governance, cost-benefit analysis) are developed to allow, on the basis of local experiences, the adoption of appropriate methodologies and technologies (such as the DSS) for the IWCM and the models are extendable at a Mediterranean level
6. Normative proposals on water management, that could lead the progressive harmonization of the legislation on the issue at the Mediterranean level, based on the methodologies and technologies tested within this project, are promoted in each involved country.



WP 1 – MANAGEMENT AND COORDINATION

Activities

A 1.1 Project Management Unit – PMU (13 members; 3 meetings)

This integrated team will work to ensure a continuous exchange of information among partners.

A 1.2 Kick Off Meeting – KOM

Analysis and sharing of the project's objective, expected results, working methodology and implementation plan.

A 1.3 Steering Committee – SC (7 members; 2 meetings)

The SC is an integrated decision-making body. Its tasks are to monitor and approve progress, working plans and results of the project.

A 1.4 Financial Board – FB (10 members; 3 meetings)

The FB is in charge of guidance on the administrative and financial progress of the project.

A 1.5 External Audit

The External Audit will assess, control and certify the correct financial management of the project according to the rules of the ENPI CBCMED Program.

A 1.6 Final Meeting

A 1.7 External Monitoring

An external company will carry out the assessments of the project progress to ensure transparency and proper management

Expected Results

to guarantee plurality transparency of decision-making process, to monitor and assess the project

Total eligible costs: € 526.732,66

19-20 March 2015

Nicosia Meetings - University of Nicosia,
Cyprus

WP Coordinator: ENEA



A 1.1 PROJECT MANAGEMENT UNIT

The **Project Management Unit (PMU)** is an integrated team that will ensure the continuous exchange of information between partners through 3 coordination meetings. Each partner will designate a contact person who will be responsible towards the Project Management Board. The PMU will generate the interim and final project and financial requested reports.

Members:

<u>Beneficiary</u>
Project Coordinator – Mr Riccardo Ceccarelli Contact: riccardo.ceccarelli@enea.it
Financial Officer – Mr Filippo Moretti Contact: filippo.moretti@enea.it
Communication Officer – Mrs Lorenza Daroda Contact: lorenza.daroda@enea.it
Secretary Officer – Mrs Vittoria Maria Peri Contact: vittoriamaria.peri@enea.it

Project Responsibles

UNic, Cyprus – Mr Marios Valiantis Contact: valiantis.m@unic.ac.cy
Regione Toscana, Italy – Mr Riccardo Grifoni Contact: riccardo.grifoni@regionetoscana.it
PDA, Lebanon – Mr Mohamad El Tachem Contact: mohamad.eltachem@pdalebanon.org
CNRS, Lebanon – Mr Stefano Lelli Contact: stefano.elli@cnrs.edu.lb
PHG, Palestine – Mr Abdelrahman Tamimi Contact: a.tamimi@phg.org
IUCN ROWA, Jordan - Mr Sameeh Nuimat Contact: Sameeh.NUIMAT@iucn.org
Haliéus, Italy – Mrs Francesca Ottolenghi Contact: ottolenghi@halieus.it
ACPP, Spain – Mrs Natalia Blanco Contact: midleeast@acpp.com
ARCS, Italy – Mrs Federica D'Amico Contact: federica.damico@arci.it



A 1.3 STEERING COMMITTEE

The Steering Committee (SC) is the integrated decision-making body that will meet 2 times. SC main tasks are: monitor the correct execution of the project; approve the preliminary working plan and any modification; approve the state of progress of the project as a whole and of each single Work Package, expressing its own decision on the modifications to be applied; take note of the results achieved approving their compliance with the EU and ENPI CBCMED Program Grant rules; facilitate the technical and scientific integration between partners.

Members:

Beneficiary

Project Coordinator – Mr. Riccardo Ceccarelli
Contact: riccardo.ceccarelli@enea.it
Financial Officer _ Mr Filippo Moretti
Contact: filippo.moretti@enea.it
Secretariat – Mrs Vittoria Maria Peri
Contact: vittoriamaria.peri@enea.it

Partners

UNic, Cyprus – Mr Marios Valiantis
Contact: valiantis.m@unic.ac.cy

Regione Toscana, Italy – Mr Franco Gallori
Contact: franco.gallori@regione.toscana.it

CNRS, Lebanon – Mr Stefano Lelli
Contact: stefano.elli@cnrs.edu.lb

PHG, Palestine – Mr Abdelrahman Tamini
Contact: a.tamimi@phg.org

IUCN ROWA, Jordan – Mr Sameeh Nuimat
Contact: sameeh.nuimat@iucn.org



A 1.4 FINANCIAL BOARD

The Financial Board (FB) is the body in charge of the monitoring and guidance on the administrative and financial progress of the project. The FB will meet 2 times.

MEMBERS:

Beneficiary
Financial Officer – Mr Filippo Moretti Contact: filippo.moretti@enea.it Secretariat – Mrs Vittoria Maria Peri Contact: vittoriamaria.peri@enea.it

Partners
UNic, Cyprus – Mr Constandinos Garibaldinos Contact: garibaldinos.c@unic.ac.cy
Regione Toscana, Italy– Mr Riccardo Grifoni Contact: riccardo.grifoni@regione.toscana.it
PDA, Lebanon– Mrs Nisrine Amhaz Contact: nisrine.amhaz@pdalebanon.org
CNRS, Lebanon – Mrs Lina Abbas Contact: labbas@cnrs.edu.lb
PHG, Palestine – Mrs Reem Jaas Contact: r.jaas@phg.org
IUCN ROWA, Jordan – Mr Jaouni Sami Contact: sami.jaouni@iucn.org
Haliéus, Italy – Mr Mattia Bianchi Contact: m.bianchi@halieus.it
ACPP, Spain – Mrs Amaya Camacho Contact: orientemedio@acpp.com
ARCS, Italy – Mrs Licia Bernardi Contact: bernardi@arci.it



A 1.5 EXTERNAL AUDIT

An External Audit will assess the correct financial management of the project according to the financial rules of the ENPI CBCMED Program. It will control and certify the expenses incurred and will generate a yearly report. Moreover each partner will certify its expenses with a specific yearly external audit that will be sent to the Applicant. The financial reports will include the outcomes of each partner audit as well as the overall project audit.

Beneficiary's Auditor

RSM Italy A&A srl

Partners' Auditors

UNic, Cyprus – Costantinos Papademetres MCA Papademetres

Regione Toscana, Italy – Ms Claudia Frollà

PDA, Lebanon– Mr Hassan Srour

CNRS, Lebanon – UTC International

PHG, Palestine – Deloitte & Touche M.E.

IUCN ROWA, Jordan – Ernst & Young Jordan

Haliéus, Italy – Mr. Antonio Menga

ACPP, Spain – Mr. Enrique Aguacil Orrite

ARCS, Italy – Stern Zanin & Avvocati Associati



A 1.7 EXTERNAL MONITORING

An external company/expert will carry out an assessments of project progresses to ensure transparency and proper management (relevance, efficiency, effectiveness, impact and sustainability), respect of the project expected results and relative timing.

The External Monitoring will assure two interim reports, intended to allow eventual corrective action by the SC, and a final report

External Monitoring Expert

Name: Mr Severino Ostorero

Contacts: enpimedconsultants@gmail.com



WP 1 – MANAGEMENT AND COORDINATION

QUANTIFIED OUTPUTS

- 1.1.1 Minutes of the Project Management of the N.3 PMU meetings (Rome May 2014?, Valencia Oct 2014, Nicosia March 2015,...
- 1.1.2 Interim and final, technical and financial, Reports (we are waiting for the *Interim Package*)
- 1.2 Report, minutes and signature sheets of the kick off meeting (KOM): Rome May 2014.
- 1.3 Minutes and signature sheets of the 2 Steering Committee (SC) meetings (Amman Sept 2014, Nicosia March 2015)
- 1.4 Minutes and signature sheets of the 3 meetings of the Financial Board (FBM) meetings (Valencia Oct 2014, Nicosia March 2015).
- 1.5 Reports of the External Audit at month 12 and 24.
- 1.6 Report, minute and signature sheet of the Final meeting at month 24.
- 1.7 External Monitoring interim reports (**First to be released soon**) and final report at month 24



WP 2 – COMMUNICATION

Activities

A 2.1 Communication Plan

The Plan will provide a system able to effectively present the project issues and to collect and react to feedbacks. It will stimulate the active participation of each partner through a series of tools implemented by the Communication Officer.

A 2.2 Development and management of the website

The website will mainly be based on a network approach which will allow partners and participants to share resources, in order to become more efficient and innovative in supporting the Regional Cooperation.

A 2.3 Realization of 4 informative videos

The videos are strategic tools targeted at researchers, technology transfer managers, policy makers and private sector representatives from EU and Mediterranean countries interested in cross border integrated management of water resources.

A 2.4 Publications and other communication materials (4 newsletters, 12 press releases, 4 roll-ups, flyers)

Awareness about the project will be guaranteed by the constant contact with communities, civil society and mass media

Expected Results

The project goals and results will be known by the target groups, main stakeholders and people of target territories. The involvement and needs of the target stakeholders will be reviewed in collaboration with the The Middle East Desalination Research Centre (MEDRC), Associate Partner.

The visibility to the ENPI CBC Med Programme as main co-founder will be guaranteed.

Total eligible costs: € 180.763,56

WP Coordinator: ENEA



WP 2 - COMMUNICATION

QUANTIFIED OUTPUTS

- 2.1.1 N. 1 Communication Plan (**released**)
- 2.1.2 N. 1 Website in place (**running**)
- 2.1.3 N. 800 single contacts to the website (**to be evaluated at the project end**)
- 2.1.4 Documents downloadable in English and Arabic (**at the moment only in English**)
- 2.2.1 N. 4 video clips (each 3 minutes) (**only from PHG and ENEA**)
- 2.2.2 N. 1 video presenting the result of the project (10 minutes) at month 23
- 2.3.1 N. 1 Project LOGO and project official presentation format (**released**)
- 2.3.2 N. 1 Communication Plan (**released**)
- 2.3.3 N. 4 Electronic newsletters (**two released**)
- 2.3.4 N. 100 subscriptions to the e-newsletters (**to be evaluated at the project end**)
- 2.3.5 N. 20 press release (**to be evaluated at the project end**)
- 2.3.6 N. 7500 project flyers (**at the moment ENEA, PDA, IUCN**)
- 2.3.7 N. 4 Roll-up per Pilot Action Countries (**at the moment ENEA, PDA, IUCN**)
- 2.3.8 N. 200 project visibility gadget kits **???**



WP 3 - CAPITALIZATION

Activities

A 3.1 1st Mediterranean Conference for sharing the way toward the capitalization of the results at the Mediterranean level

The International Conference will be organized in **Cyprus or ???** at month 22, given its strategic position (geographical and political) toward the improvement of the Mediterranean water management. The aim will be to transfer the successful results of projects and programmes to appropriate decision-makers and share the strategies.

A 3.2 “ENPI CBC Med seminar” for guaranteeing the coherency of the Water-DROP Project with the other ENPI CBC Med projects coping with the issue of water management.

The ENPI CBC Med Seminar, which will be held in **Rome or ???** at month 20, will be a strategic appointment to ensure maximization of synergies between ENPI projects concerning the integrated water resources management (IWRM) receiving a benchmarks for evaluating the quality, relevance and effectiveness of the water projects results..

A 3.3 4 National roundtables and Road Maps for the capitalization of the results and coordination of future activities at local level.

N° 4 national roundtables (one per target country) will be realized, at months 22 and 23, in order to share with the target groups (national authorities competent for water management and other relevant stakeholders) the results of the project and transfer the tools for better water management governance.

Expected Results

Capitalised results into technical and political paths at different levels (local, national, regional, basin)

Total eligible costs: € 80.887,20

WP Coordinator: IUCN ROWA

19-20 March 2015

Nicosia Meetings - University of Nicosia,
Cyprus

13



WP 3 – CAPITALIZATION

QUANTIFIED OUTPUTS

3.1.1 Reports, minutes and signature sheet of the International Conference, attended by N°100 persons (at month 22).

3.2.1 Reports, minutes and signature sheet of the Seminar; N° 20 persons attend the seminar (at month 20).

3.3.1 Reports, minutes and signature sheet of the Roundtables attended in total by N° 80 persons (at month 20-23).

3.3.2 N°4 Road Maps for the improvement of the water management in each target country (at month 23)



WP 4 – DEVELOPMENT OF AN INTEGRATED APPROACH DSS-GIS FOR THE WATER CYCLE MANAGEMENT

ACTIVITIES

- 4.1. Country data acquisition on the water cycle management with special focus on the country needs for the pilot action.
- 4.2. A social mapping of relevant stakeholders in the 3 MPC
- 4.3. Realization of a database on the water cycle management
- 4.4. Mediterranean basin data acquisition
- 4.5. Realization of GIS (Geographic Information System) and data normalization
- 4.6. Development and realization of DSS (Decision Support System)
- 4.7. Application of DSS, elaboration of different scenarios and publication of thematic maps.

EXPECTED RESULTS

An integrated approach DSS-GIS for the water cycle management

Total eligible cost: € 139.766,21

WP Coordinators: UNic & ENEA

19-20 March 2015

Nicosia Meetings - University of Nicosia,
Cyprus

15



WP 4 – DEVELOPMENT OF AN INTEGRATED APPROACH DSS-GIS FOR THE WATER CYCLE MANAGEMENT

QUANTIFIED OUTPUTS

4.1.1 N° 1 guideline on data collection and management (heading to the harmonization and utilizable beyond the scope of the project) (**released**);

4.1.2 N° 4 country set of data on the management of water resources ???

4.2 A social mapping of relevant stakeholders and their role ???

4.3 N° 1 Database structure built up (**released**)

4.4 N° 1 Database filled up with data from 4 Countries harmonized at Mediterranean Level and integrated with relevant data at Basin level ???

4.5 N° 1 GIS based on 4 national set of thematic maps (water quality, land uses, treatment plants, etc.) ???

4.6 N° 1 DSS developed for water allocation and effective management of water resources to serve as a basis for the formulation of an overall management plan for water resources based on the identification of the optimal methodological approaches (water collection, distribution, pollution prevention and control, wastewater treatment, cost recovery, etc.) ???

4.7.1 N° 1 DSS fed with territorial data and combined with GIS **at month 20**;

4.7.2 N° 4 set of territorial-specific strategic indications and responses on the most cost-effective way to manage the water cycle (e.g. use of treated wastewater for irrigation to improve the extension of agriculture) according to the 4 different local realities **at month 22**.



WP5 – 5 PILOT ACTIONS ARE IMPLEMENTED IN THE 4 COUNTRIES (MONITORING, WATER TREATMENT, WATER GOVERNANCE, COST-BENEFIT ANALYSIS)

<u>ACTIVITIES</u>
5.1 Training Courses for 25 technicians in each target country.
5.2 Site identification (identified).
5.3 Setting up 1 monitoring programme for Lebanon 5.3.1 Best Practices manual for monitoring activities
5.4 Setting up 1 water treatment system for Palestine 5.4.1 Best Practices manual for water treatment system
5.5 Setting up 1 water management system for Jordan 5.5.1 Best Practices manual for water management system
5.6 Setting up 1 cost-benefit analysis for Italy 5.6.1 Best Practices manual for cost-benefit analysis 5.6.2 Feasibility study for Torre Flavia
5.7 Experimental data elaboration
5.8 DSS validated on the basis of the 4 pilot actions
5.9 Awareness campaign in 18 schools of the involved territories of the 3 target MPC.

EXPECTED RESULTS

4 Pilot actions in the 4 countries (monitoring, water treatment, water governance, cost-benefit analysis) are developed to allow, on the basis of local experiences, the adoption of appropriate methodologies and technologies (such as the DSS) for the WCM and the models are extendable at a Mediterranean level.

Total eligible cost: € 640.857,92

WP Coordinator: CNRS



WP5 - 4 PILOT ACTIONS ARE IMPLEMENTED IN THE 4 COUNTRIES (MONITORING, WATER TREATMENT, WATER GOVERNANCE, COST-BENEFIT ANALYSIS)

QUANTIFIED OUTPUTS
5.1.1 N° 4 training toolkit ???
5.1.2 N° 100 persons have participated to the Training (at least 10% of them are then directly involved in the pilot actions) ???
5.2 N° 4 Site identified for 5 pilot actions (identified)
5.3 The river/sea monitoring system is in place in Lebanon (at month 24) and the relative Best Practices on Monitoring are available (at month 23)
5.4 The water treatment systems are improved in Palestine (at month 24) and the relative Best Practices on Water Treatment are available (at month 23)
5.5 The new water management system is in place in Jordan (at month 24) and the relative Best Practices are available (at month 23)
5.6 A cost-benefit analysis is realized on the management of the “Torre Flavia” area, (at month 24) and the relative Best Practices and Feasibility Study are realized (at month 23)
5.7 N° 4 models are tested by DSS (at month 23)
5.8 N° 4 DSS validation (at month 23)
5.9.1 N° 1 Awareness toolkit (2000 students’ toolkits and 100 teachers’ booklets) is prepared for the school awareness campaigns (at month 24)
5.9.2 N° 18 schools (for a total of 36 teachers and 1800 students) participate to the awareness activities (at month 24)



WP 6 – REVISION OF THE LEGISLATION AND ELABORATION OF PROPOSALS

Activities

6.1 Setting up 4 Country Normative Task Force for the analyses of the regulatory context and elaboration of normative proposals

Detailed study to analyse the current framework of national norms in each target project country

6.2 Setting up a Mediterranean Task Force for the water management normative harmonization. A Mediterranean Task force will focus on the normative needs for the IWRM implementation at a basin level.

6.3 Development an IWRM Guideline to support the implementation of water normative at Mediterranean level.

The Mediterranean Task Force will be functional to the realization of IWRM normative Guidelines.

6.4 Stakeholders survey on the needs and constrains for the IWRM implementation

Expected Results

Proposed legislative improvements on the IWRM at Mediterranean basin level

Total eligible cost: € 218.717,17

WP Coordinator: Regione Toscana



WP 6 – REVISION OF THE LEGISLATION AND ELABORATION OF PROPOSALS

QUANTIFIED OUTPUTS	
6.1.1 N°	4 National Task Force (at month 7, 10, 16, 19)
6.1.2	Minutes and attendance signatures of the 16 NTF Meetings (at month 7, 10, 16, 19)
6.1.3 N°	4 Country normative analyses and proposals on IWRM (at month 19)
6.2.1	Minutes and attendance signature of the MTF (at month 15, 20, 23)
6.3 N°	1 IWRM normative guidelines approved by the MTF (at month 23)
6.4.1 N°	400 interviews realized (at month 18)
6.4.2 N°	4 Country reports on the IWRM Survey available (at month 24)