

15EME REUNION DU COMITE DIRECTEUR DU SEMIDE

15TH EMWIS STEERING COMMITTEE MEETING

Valence (Espagne) – 9 septembre 2014

Valencia (Spain) – 9 September 2014




DOCUMENTS
SUPPORTING DOCUMENTS

1. [Liste des Points Focaux Nationaux et des membres du Comité Directeur](#)
List of National Focal Points and Steering Committee members
2. [Revue des principaux projets en cours impliquant le SEMIDE](#)
Review of relevant projects involving EMWIS
3. [Note de synthèse du projet de plateforme méditerranéenne de connaissance sur l'eau](#)
Summary of the Mediterranean Water Knowledge Platform project
(project snapshot also available online)
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EMWIS Technical Unit financial statement
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List of participants








Liste des Points Focaux Nationaux et membres Comité Directeur

List of National Focal Points and Steering Committee members

Pays Méditerranéens / Mediterranean countries	Directeurs de l'eau / <i>Water Directors</i>	Coordinateur Point Focal National du SEMIDE / <i>Coordinator EMWIS National Focal Points</i>
<p>ALGERIE / ALGERIA</p>  <p>Présidence du Comité de Coordination / Presidency Coordination Committee</p> <p>Comité Directeur / Steering Committee</p>	<p>M. Tahar AICHAOUI Directeur Général Direction des Etudes et des Aménagements Hydrauliques Ministère des Ressources en Eau Tel: +213 21 680 437 Fax : +213 21 680 437 http://www.mre.gov.dz/ aichaoui_tahar@yahoo.fr</p>	<p>Mr. Abdallah BOUCHEDJA Directeur Général Agence de Bassin Hydrographique Constantinois-Seybousse-Mellegue Point Focal National Algérien CONSTANTINE Tel/ Fax +213 31 922 352 Email : abhcs@wissal.dz bouchedja@yahoo.fr</p>
<p>AUTORITE PALESTINIENNE / PALESTINIAN AUTHORITIES</p>  <p>Comité Directeur / Steering Committee</p>	<p>Eng Mazen GHUNIEM Head of PWA Palestinian Water Authority Email: pwa@pwa-pna.org</p>	<p>Youssef Anwar Fouad AWAYES Co-ordinator of the NFP DG/ international cooperation & coordination Unit Palestinian Water Authority Email: yawayes@pwa-pna.org / yawayes@yahoo.com</p>
<p>EGYPTE / EGYPT</p>  <p>Comité Directeur / Steering Committee</p>	<p>Mr. Essam KHALIFA Head of the sector of the Minister Office Ministry of Water Resources and Irrigation Tel! +202 3544 9430 / 20 Fax +202 3544 94 10 Email: essam@mwri.gov.eg</p>	<p>Mr. Mostafa Mohamed ALI HESHAM Co-ordinator of the EMWIS NFP Ministry of Water Resources and Irrigation Main Information Center (MIC) Tel: +20 23 544 94 22/80 Fax +20 23 544 94 81 Email: hmmali@hotmail.com or hmostafa@nilebasin.org</p>








<p>ISRAEL</p>  <p>Comité Directeur / Steering Committee</p>	<p>Water Director:</p> <p>Mr. Alexander KUSHNIR Director General Water Authority Email: alexanderk@water.gov.il</p> <p>Copy to:</p> <p>Ms. Olga SLEPNER Head of Foreign Relations Unit Director General Bureau – Israel Water Authority Email: olgas10@water.gov.il</p>	<p>Mr. Michael EYAL Co-ordinator of the NFP The Hydrological Service of Israel Email: eyalm10@water.gov.il</p>
<p>JORDANIE / JORDAN</p>  <p>Membre du Comité Directeur / Steering Committee member</p>	<p>Mr. Basem TELFAH Secretary General Ministry Of Water And Irrigation Email: Basem_Telfah@mwi.gov.jo</p> <p>Copy to:</p> <p>Mr. Ali SUBAH Assistant Secretary General Co-ordinator of the NFP Ministry of Water and Irrigation Email: ali_subah@mwi.gov.jo</p>	<p>Mr. Mohammad BANY-MUSTAFA Co-ordinator of the NFP Director of the National Water Master Plan National Water Information System Coordinator Ministry of Water and Irrigation E-mail: mk_bm@mwi.gov.jo, or mk007.bm@gmail.com</p>
<p>LIBAN / LEBANON</p>  <p>Vice-Présidence du Comité Directeur / Vice-Presidency Steering Committee</p>	<p>Mr. Ghassan BAYDOUN Directeur Général Direction Générale de l'Exploitation - Ministère de l'Energie et de l'Eau Tel : + 961 1565 001 Fax : + 961 1565 025 Email : ministry@hydro-electric.gov.lb</p>	<p>Mr. Moustapha FLEYFEL Point Focal National Direction Générale de l'Exploitation - Ministère de l'Energie et de l'Eau Tel : + 961 1565 001 Fax : + 961 1565 555 Email : m_fleyfel@hotmail.com</p>
 <p>Vice-Présidence du Comité Directeur / Vice-Presidency Steering Committee</p>	<p>M. Fadi COMAIR Directeur Général Direction Générale des Ressources Hydrauliques et Electriques- Ministère de l'Energie et de l'Eau Tel : + 961 1565 013 Fax : + 961 1576 666 Email : gdmher@inco.com.lb / comairfadi@hotmail.com</p>	<p>Mrs. Mona FAKIH Director of Water Ministry of Energy and Water Email : monafakih@hotmail.com</p>
<p>MAURITANIE</p> 	<p>Mr. Mohamed El Moctar OULD MOHAMED Directeur de l'Hydraulique Ministère de l'Hydraulique, de l'Energie et des Technologies de l'Information et de la Communication Tel : +222 632 54 57 Email : mtarm2002@yahoo.com www.hydraulique.gov.mr</p>	<p>Mr. Saadou Ebih OULD MOHAMED EL HACEN Point Focal National Directeur Centre National des Ressources en Eaux Ministère de l'Hydraulique et de l'Assainissement Email : saadoubih@yahoo.fr</p>

<p>MAROC / MOROCCO</p>  <p><i>Vice-Présidence du Comité Directeur / Vice-Presidency Steering Committee</i></p>	<p>Mr. Abdelkader BENOMAR Directeur de la Recherche et de la Planification Ministère de l’Energie, des Mines, de l’Eau et de l’Environnement Tél : +212 (5)37 77 86 90 Fax : +212 (5)37 77 60 81 Email : benomar@water.gov.ma</p>	<p>Mr. Redouane BOUAICHA Point Focal National Chef de Division des Méthodes au Département de l’Eau. Ministère de l’Energie, des Mines, de l’Eau et de l’Environnement - MEMEE Tel : +212 5 37 77 90 32 / fax +212 5 37 778 696 Email: bouaicha@water.gov.ma / hydrologie2005@yahoo.fr</p>
<p>REPUBLIQUE ARABE SYRIENNE / SYRIAN ARAB REPUBLIC</p> 	<p>M. Hussain MAKHLOUF Director of International Water Bureau Ministry of Irrigation Tel: +963 112 225 748/ 112 453 125 Fax: +963 112 246 888 Email: irrigation.min@net.sy</p>	
<p>TUNISIE / TUNISIA</p> 	<p>Mr. Lotfi FRIGUI Directeur Général des Ressources en Eau Direction Générale des Ressources en Eau Ministère de l’Agriculture Email: hfrigui@yahoo.fr</p>	<p>Mr. Mohamed Lotti NACEF Coordinateur P.F.N. Bureau de l'Inventaire et des Recherches Hydrauliques Direction Générale des Ressources en Eau Email : nacefml1@yahoo.fr</p>
<p>TURQUIE / TURKEY</p>  <p><i>Membre du Comité Directeur / Steering Committee member</i></p>	<p>Prof. Dr. Cumali KINACI Director General Ministry of Forestry and Water Affairs General Directorate of Water Management Email: ckinaci@ormansu.gov.tr</p> <p>Copie: Mr. Akif OZKALDI Director General General Directorate of State Hydraulic Works (DSI) Email: akifo@dsi.gov.tr</p>	<p>Mr. Murat HATIPOGLU Co-ordinator of the NFP General Directorate of State Hydraulic Works Email: mhatipoglu@dsi.gov.tr</p>




Pays Européens avec PFN / <i>European Countries with NFP</i>	Directeurs de l'eau / <i>Water Directors</i>	Coordinateur Point Focal National du SEMIDE / <i>Coordinator EMWIS National Focal Point</i>
AUTRICHE / AUSTRIA 	Mr. Karl SCHWAIGER Bundesministerium für Land und Forstwirtschaft, Umwelt und Wasserwirtschaft / Federal Ministry of Agriculture, Forestry, Environment and Water Manage Email: karl.schwaiger@lebensministerium.at	<i>Federal Ministry of Agriculture, Forestry, Environment and Water Manage</i> <i>Marxergasse 2</i> <i>1030 WIEN</i> AUTRICHE <i>Tel: +43 1711 007 105</i> <i>Fax : + 43 15 870 366</i>
BELGIQUE / BELGIUM 		<i>Administratie Milieu-, Natuur-, Land- en waterbeheer</i> <i>Afdeling Europa en Milieu</i> <i>Tel + 32 25 538 157</i> <i>Fax + 32 25 538 165</i>
CHYPRE / CYPRUS  Vice- Présidence du Comité de Coordination Comité Directeur / Steering Committee	Dr. Kyriacos KYROU <i>Water Development Department - Ministry of Agriculture, Natural Resources and Environment</i> <i>Tel: + 357 22 609 400</i> <i>Fax : +357 22 803 381 / +357 22 344 057 / (357) 22675019</i> <i>Email: director@wdd.moa.gov.cy /</i>	Mr. Nicholas CHRISTOFIDES Executive Engineer Water Development Department Ministry of Agriculture, Natural Resources and Environment Tel: +357 22609273 / +357 99448288 Fax: +357 22609271 E-mail: nchristofides@wdd.moa.gov.cy
ESPAGNE / SPAIN  Comité Directeur / Steering Committee	Sra Liana ARDILES LOPEZ Director General de Agua Ministerio de Agricultura, Alimentacion y Medio Ambiente Tel. +34 91 597 60 79 Fax. +34 91 597 59 27	Centro de Estudios de Tecnicas Aplicadas CEDEX, Centro de Estudios y Experimentacion de Obras Publicas <i>(en cours de changement / currently being amended)</i>
FRANCE  Membre du Comité Directeur / Steering Committee member	Mr. Laurent ROY Directeur de l'Eau et de la Biodiversité Ministère de l'Ecologie, du Développement Durable, des Transports et du Logement Direction Générale de l'Aménagement, du Logement et de la Nature Email: laurent.roy@developpement-durable.gouv.fr Copie : Mr. Alby SCHMITT Adjoint au Directeur de l'eau et de la biodiversité (DGALN/DEB) Email : alby.schmitt@developpement-durable.gouv.fr	Mme Stéphanie LARONDE Office International de l'Eau Email : s.laronde@oieau.fr



<p>GRECE / GREECE</p> 	<p>Dr. Kostas TRIANTIS Special Secretary Special Secretariat for Water Central Water Agency Greek Ministry for Environment, Energy and Climate Change Email: k.triantis@prv.ypeka.gr</p>	<p>Mr. Pantelis PANTELOPOULOS Head of Water Section and NFP Hellenic Ministry of the Environment Physical Planning and Public Works Email: p.pantelopoulos@dpers.minenv.gr</p>
<p>ITALIE ITALY</p>  <p>Présidence du Comité Directeur / Steering Committee</p>	<p>Avv. Maurizio PERNICE General Director Direzione generale per la tutela del territorio e delle risorse idriche Tel: +39 0657 225 102/3 Fax: +39 0657 225 193 - 194 Email: TRI-UDG@minambiente.it Indirizzo Pec: DGTri@pec.minambiente.it Mr. Walter MAZZITTI Président Comité Directeur du SEMIDE Email : waltermazzitti@hotmail.com</p>	<p>SOGESID SpA (en cours de changement / currently being amended)</p>
<p>LUXEMBOURG</p> 	<p>Mr André WEIDENHAUPT Directeur de l'Eau Ministère de l'Intérieur - Services de la Gestion de l'Eau Email : andre.weidenhaupt@eau.etat.lu</p>	<p>Ministère de l'Intérieur - Services de la Gestion de l'Eau Tel : +352 26 028 627 Fax : +352 26 028 662</p>
<p>MALTE / MALTA</p>  <p>Comité Directeur / Steering Committee</p>	<p>Mr. Manuel SAPIANO Head Water Policy Unit Ministry for Energy and Health Tel: +356 22955152 Email: manuel.sapiano@gov.mt</p>	<p>Mr. George CASSAR Co-ordinator of the NFP Malta Resources Authority Tel: +356 22 955 161 Fax +356 22 955 200 Email: george.cassar@mra.org.mt</p>
<p>MONACO</p> 	<p>Mr. Gilles TONELLI Conseiller de Gouvernement pour l'Équipement, l'Environnement et l'Urbanisme Ministère d'Etat Email: deeu@gouv.mc</p>	<p>Mr Cyril GOMEZ, Directeur de l'Environnement, Ministère de l'Environnement Email : cgomez@gouv.mc / environnement@gouv.mc</p>
<p>PORTUGAL</p> 	<p>Mr. Nuno LACASTA President of the Portuguese Environment Agency Email: geral@apambiente.pt http://www.apambiente.pt</p>	<p>Rui RODRIGUEZ Institut National de l'Eau - Ministère de l'Environnement INAG - Instituto da Agua Email : rrr@inag.pt</p>

MANIFESTATION D'INTERET / EXPRESSION OF INTEREST

<p>ALBANIE / ALBANIA</p> 	<p>Ministry of Environment Directorate of Water Resources Policy Tirana ALBANIE</p>	<ul style="list-style-type: none"> • Creation of a NFP • Developing a National Water Information System
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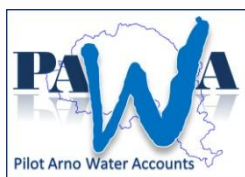
Revue des principaux projets en cours

Review of main running projects

En complément aux activités de support pour la coopération euro-méditerranéenne dans le secteur de l'eau, principalement via des media numérique, l'Unité Technique du SEMIDE prends part à des projets cofinancés par l'Union Européenne et portant sur des thématiques d'intérêt pour les pays du Sud et de l'Est de la Méditerranée. Le rôle du SEMIDE porte essentiellement sur la diffusion des résultats et la communication ou les aspects système d'information. **Les membres du Comité Directeur sont appelés à commenter l'intérêt de leur pays ou de certains acteurs et dans la mesure du possible de contribuer (identification de contacts, accès à des bonnes pratiques ou législation, manifestations, etc.)**

*In addition to the continuation of its support for Euro-Mediterranean cooperation in the water sector, mainly through electronic media and participation in events, the EMWIS Technical Unit is taking part in project co-funded by the European Union with a specific interest for South and East Mediterranean countries. EMWIS role is mainly related to dissemination of results and communication or on information system issues. Ongoing projects are presented in the following pages. **Members of the Steering Committee are expecting to give feed-back on the potential interest of their countries and to contribute when relevant (identification of contacts, best practices, relevant legislation, dissemination events).***





Pilot Arno Water Accounts

<http://www.emwis.org/initiatives/pawa>

Start date	01/01/2014	Duration	15 months
Total Budget	200 015 €	EC funding	150 011 € (75%)

European Commission, DG Environment preparatory Action on Development of Prevention Activities To Halt Desertification In Europe through a sustainable management of water resources

PAWA partners

The project is coordinated by the Italian entity, the Institute for Environmental Protection and Research (ISPRA), and the main partners are: the Arno River Basin Agency (ARBA), Italy and the Euro-Mediterranean Information System on know-how in the Water sector (EMWIS/SEMIDE), France.



Brief description:

The general objective of the PAWA project is to **improve knowledge on water resources available in the Arno River basin and their uses** and to assess the potential **impact of management, technological and economical measures** to reduce the **vulnerability of the territory against water scarcity and drought**.

As part of the activities to safeguard European water resources, the EU decided to implement water balances using the System of Environmental-Economic Accounting for Water (SEEA-Water), an international recommendation of the United Nations' Statistics Division. This approach has been amended to fulfill the needs of water authorities to fight against water scarcity and droughts. Thus SEEA-W are implemented at river basin level (instead of country basis) and calculated on a monthly time range (instead of yearly).



Figure 1 Chiana, Bisenzio and Pisa subbasins delineation.

The Arno River basin area (Italy) has been affected by water scarcity and droughts, and is characterised by extensive water withdrawals and land use changes with a situation expected to worsen in the future due to the global climate change.

PAWA project focuses on three specific subbasins, within the larger Arno watershed where the SEEA-Water methodology is applied. These sub-basins are Chiana valley, Bisenzio valley and Pisa aquifer

area (Figure 1), each one characterized by different water exploitation issues: : high agricultural use in Chiana; high industrial use in Bisenzio and high groundwater exploitation in Pisa. The project is focusing on calculating the SEEA-W tables related to water quantity issues, namely: physical use and supply tables and water assets. Such water accounts will be calculated for the period over a period of more than 10 years (1999-2013).

The output of SEEA-Water is a set of tables that informs about the water flows occurring within the territories and calculate water balance at monthly and regional scale. It requires a large number of data sets that can be the results of direct measurements, modeling or estimation made by experts. These tables allow the computation of wide range of indicators (e.g. the Renewable Water Resources, Water Stress Index, water productivity and Groundwater Recharge Ratio), the identification of trends and direct links with socio-economic activities. The set of SEEA-Water tables can be used as simulation tool to create different scenarios where different water allocation can be tested.

Expected results:

The PAWA project is contributing to:

- Improving the implementation of water accounts at EU level by a better calibration of the computation used by the European Environmental Agency (EEA);
- Improving data exchanges between the local stakeholders on water availability, use (and reuse)
- Supporting decision making on the optimisation of measures related to quantitative water resources management (e.g. water allocation)
- Testing new database structure and water accounts compilation tools;
- Preparing coherent development of this approach in other Italian river basins facing water scarcity, droughts and/or desertification.


Potential interest for South and East Mediterranean Partner countries:

Southern and Eastern Mediterranean countries have already been exposed to SEEA-W methodology through-out the MedStat and ENPI-SEIS projects with training sessions and pilot exercises by the national statistics offices.

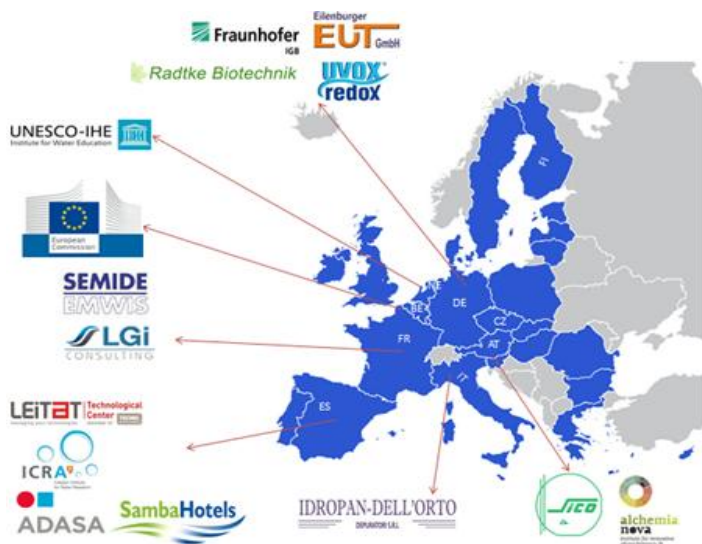
PAWA project results are particularly relevant for:

- Structuring National Water Information Systems, as planned in the Mediterranean Water Knowledge Platform and in the framework of extension of the Shared Environmental Information System to South EU neighborhood countries;
- Potential application for improving quantitative water management at river catchment or aquifer level.



		Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities www.demEAUmed.eu	
Start date	01/01/2014	Duration	42 months
Total Budget	5.83 M€	EC funding	4.02 M€
European Commission, DG Research – 7th Framework Programme of research, technological development and demonstration – Water Innovation in action			

DemEAUmed partners:



Brief description:

demEAUmed (Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities) aims to involve industry representatives, stakeholders, policy-makers and diverse technical and scientific experts in demonstrating and promoting innovative technologies, for an optimal and safe closed water cycle in Euro-Mediterranean tourist facilities, leading to their eventual market uptake.

The demEAUmed consortium is led by LEITAT, and is composed of 15 members from different fields - business, research, technology, hotel communities and public agencies and organizations - from seven European countries: Spain, Germany, The Netherlands, Austria, Italy, France and Belgium.

demEAUmed will face two key challenges: the importance of the tourism economy and water scarcity characteristic of the area. It will be a critical platform for promoting the use of sustainable



and innovative technologies in other Euro-Mediterranean tourist facilities in light of also the global tourism market.

DemEAUmed is facing two essential challenges shared by the Mediterranean countries: the **importance of the tourism sector in their economies, and water scarcity** characteristic of the Mediterranean. The project will be an important showcase contributing to strengthening the link between the water and tourism sectors and a platform to promote the use of sustainable innovative technologies in other Euro-Mediterranean tourism facilities with a view also on to global tourism market.

The demonstration site of DemEAUmed is Samba Hotel, a large resort with 441 air conditioned rooms, green areas and exterior pools, conference rooms, bar and restaurant. The solution proposed integrates innovative water treatment technologies, ICT and water management tools. Different proven water treatment technologies at pre-marketable level will be properly combined to treat and adapt the different water flows to the necessities of the different areas within the resort, while saving fresh water consumption and reducing environmental and socio-economic impact in a safe way.

Expected results:

- Develop, demonstrate and disseminate solutions for closing the water cycle in facilities of the tourism industry.
- Demonstrate the reduction of fresh water consumption, improved efficiency of distribution, water/wastewater treatment and reuse while minimizing carbon footprint.
- Promoting innovative solutions for water-related challenges in the Euro-Mediterranean tourism sector, contributing to ecolabel certification
- Mobilize industry representatives, stakeholders, research centres, diverse technical and scientific experts and policy-makers.


Potential interest for South and East Mediterranean Partner countries:

The tourism sector is a key driver for economic development in Med partner countries while requiring significant water quantities. The solutions proposed by demEAUmed are of interest in order to reduce the water consumption by local water reuse and better management of the water cycle within touristic resorts.

Med Partner countries can be covered by the following activities:

- Survey of main hotel resorts to assess current water management and the potential of water saving (a list of hotels to be surveyed will be necessary)
- Review of the legislation related to water reuse to assess the feasibility of solutions proposed (current legislation to be provided)
- Participation in dissemination activities (provision of information to interested persons) or project advisory board (review of projects output)



 WEAM4i Water & Energy Advanced Management For Irrigation		Water and Energy Advanced Management for Irrigation www.weam4i.eu	
Start date	01/11/2013	Duration	42 months
Total Budget	7.6 M €	EC funding	5.2 M€
European Commission, DG Research – 7th Framework Programme of research, technological development and demonstration – Water Innovation in action			

Map of partners:



Brief description:

WEAM4i (Water and Energy Management for Advanced Irrigation) aims to improve the **efficiency of water use and reduce the costs of power irrigation systems**. The WEAM4i consortium is led by companies Meteosim and ADASA Sistemas, and is composed of 17 members from different fields - business, research, irrigation communities and public agencies and organizations - from five European countries: Spain, Germany, Portugal, The Netherlands and France. The project addresses two of the priorities outlined by the European Innovation Partnership on Water, an initiative of the European Commission (DG- Environment): ‘**Water- Energy Nexus**’ and ‘**Decision Support Systems (DSS) and monitoring**’. On the one hand, it is planned to develop a smart network for the management of irrigation that will act interactively on the rational use of water and energy; that is, demand-based management able to optimize the available offer. In this way, irrigation systems will benefit from the water storage capacity of farming communities and will consume the energy they



need when it is cheaper. Furthermore, an integration model based on a service-oriented ICT platform will be used to obtain a prototype that allows applications to help in decision making related to irrigation at the field. As part of the project, the results will be tested and evaluated practically in three regions of the European Union covering a wide range of crops, water resources and energy markets: Aragon (Spain), Lower Saxony (Germany) and Alentejo (Portugal).

Expected results:

Contribution to the two main objectives of the European Innovation Partnership on Water:


- 1) Facilitate, support and accelerate the development and deployment of innovative solutions to address water challenges
 - Improved efficiency in the use of resources (water and reducing electricity consumption and energy costs).
 - Overcoming barriers to current water users entering the market through the introduction of joint management of demand for water and energy.
 - Improving the adaptability of the irrigation sector to new regulatory and pricing frameworks through changes in decision systems, which are implemented quickly and easily.
 - The environmental benefits of less water and energy, with the consequent reduction of CO2 emissions, which also promotes the consumption of renewable and network integration.
 - The extension and expansion capability in applications, services, users and irrigation areas, thanks to the deployment of open, interoperable, advanced services for irrigation ICT platform.
- 2) Create market opportunities for these innovations, both inside and outside Europe.

Potential interest for South and East Mediterranean Partner countries

The irrigation sector is the main water user in Med partner countries. The solutions proposed by WEAM4i are of prime importance to increase efficiency in this sector while reducing energy consumption. The potential interest relies in:

- Dissemination of results during targeted events in South Med countries
- Dissemination to irrigators communities
- Participation of experts in the project advisory board



		SmArt water management with Integrated Decision support system www.said-project.eu	
Start date	01/01/2014	Duration	36 months
Total Budget	3.2 M €	EC funding	2.2 M€
European Commission, DG Research – 7th Framework Programme of research, technological development and demonstration – Water Innovation in action			

SAID partners:

Abengoa Water S.L. (ABENGOA WATER)	Spain	
Abeinsa Business Development SA (ABEINSA BD)	Spain	
Lesswire AG (LW)	Germany	
Software for Critical Systems SL (SOFTCRITS)	Spain	
Simbiente –Engenhariae Gestao Ambiental Lda (Simbiente)	Portugal	
Addition Projectos e Servicosde InformaticaLda (Addition)	Portugal	
Ubiwhere Lda (Ubiwhere)	Portugal	
Universidad de Malaga (UMA)	Spain	
Ihp Gmbh –Innovations for High Performance Microelectronics/Leibniz-Institut fuer innovative Mikroelektronik (IHP GMBH)	Germany	
Unite Technique du SEMIDE Geie (UT SEMIDE)	France	
Consejeria de MedioAmbiente y OrdenaciondelTerritorio(CMAyOT)	Spain	

Brief description:

SAID (SmArt water management with Integrated Decision support system) aims to increase the knowledge and confidence of all stakeholders (water authorities and managers, governments and EU



authorities, companies and society) in existing pre-commercial technology to build operational smart water management systems in Europe. The project will contribute to improve the quality of life of citizens regarding the use and effect of water, providing validated **tools to reduce flood risks and flood effects**, to **enhance the quality of water** for humans and for irrigation and to **reduce the cost of energy in water related processes**. The SAID consortium is led by Abengoa Water and is composed of 10 members from different fields-business, technology, research, public agencies and organizations- from four European countries: Spain, Germany, Portugal and France.

SAID project will address the development, implementation, validation and integration of the most **innovative Decision Support Systems (DSS)** as the basis for smart water management systems to allow an integrated management of complex basins, reducing the high investment required with current state of the technology. SAID will develop and validated innovations both at the methodological and at the technical level, thus offering advantages to all stakeholders, and particularly to **water authorities and to European SMEs** in the global market of DSSs.

The SAID project's results will be validated and demonstrated on the Guadalhorce dam located in the South Spain, in the province of Málaga.

Expected results:

The main results of SAID project are **software products for managing river basins**. These software DSS and modules can be exploited independently or as a whole, integrated in the platform. Integrating these tools in water management and decision making process will have positive impacts on economic, environmental and societal sectors.

Some of the foreseen impacts are;


- Help to plan design and build wireless sensor networks with large area coverage, simple integration and management of heterogeneous networks
- Reduce the economic losses due to floods (staff costs, material damage, and risk for human life).
- Reduce the energy consumption in water infrastructure operations.
- Improve the socio-economic balance between demand and resources.
- Support Water Authorities to have better decisions regarding water quality management which means less environmental costs.
- Contribute for an overall effective ecosystem protection.

Potential interest for South and East Mediterranean Partner countries

The Decision Support System modules developed by SAID can be used separately or in an integrated way and are mainly focusing on infrastructure management, in particular for dams management with functions related to water quality, flood events and energy. The interest of Med Partner Countries lies in:

- Dissemination to authorities in charge operational dams management
- Potential use or testing of the integrated DSS
- Participation of experts in the project's advisory board



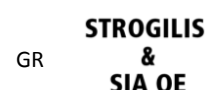
 ONLINE PROFESSIONAL IRRIGATION SCHEDULING EXPERT SYSTEM		Online Professional Irrigation Scheduling Expert System www.opiris.eu	
Start date	01/12/2013	Duration	24 months
Total Budget	1.3 M€	EC funding	840 K€
European Commission, DG Research – 7th Framework Programme of research, technological development and demonstration – Boosting the translation of results into innovative applications in the field of agriculture, forestry, fisheries and aquaculture			

OPIRIS partners:

The Agencia Estatal Consejo Superior de Investigaciones Cientificas
 Centre for Research and Technology Hellas



D Strogylis Kal sia Oe
 Thermokipia Sykeonos



Antonio García Vargas



Argos Electronics “Aliki Nikolaou-Nikita”



Euro-Mediterranean Irrigators Community



Riegos Y Tecnologia



UT SEMIDE / EMWIS TU



Agroktima Kalliatz



Dona Horta- Sociedade Agricola Lda



Flights Orchard Farm



Progeagro



Seedri Puukool



Brief description:

OpIRIS (Online Professional Irrigation Scheduling Expert System) aims to boost the translation of EU research projects' results into innovative applications in the field of agriculture. The overall objective is to build a **knowledge-based system for online precise irrigation scheduling** (OpIRIS) using advanced results from 3 previous EU research projects CLOSYS (FP5-LIFE QUALITY-QLK-CT-2000-01301), IRRIVAL (FP6-FOOD-CT-2006-023120) and SIRRIMED project (FP7-KBBE-2009-3-245159). The innovative solution of the project lies (1) on its historical database built upon real case studies, (2) is shared on the web which guarantees cheaper access to this technology and (3) helps changing the current culture and behavior and into getting agricultural exploitation into the use of ICTs. Validation and demonstration will be undertaken in 6 agricultural exploitations (3 fruit trees orchards and 3 hydroponic productions) in Greece, Spain and United Kingdom.

OpIRIS consortium is composed of 13 partners coming from 6 European countries: Estonia, France, Greece, Portugal, Spain and United Kingdom.

Expected results:

1) Direct results:

- Saving water, especially where annual traditional amount of irrigation water is beyond average crop water requirements.
- Saving energy and manpower required to pump and distribute excess water.

2) Indirect results:


- Reducing leaching of fertilizers out of the plant root zone.
- Improving water and fertilizers availability for the plant.
- Reducing deep water percolation and contamination to underground aquifer by agricultural chemicals.
- Providing information about the local soil hydrodynamic characteristics, the advance of wetting front during irrigation events and the depth and daily pattern of root water uptake.
- Providing information on the hydraulic performance of the irrigation system in use.
- Providing information on the current crop development and growing stages.
- Creating a closer relationship between the farmer and his production system. It offers him a better real understanding of water and nutrient balance within water-soil-plant system.
- Creating consistency in yields between years.

Potential interest for South and East Mediterranean Partner countries:

The irrigation sector is the main water user in Mediterranean countries. The online tool proposed by OPIRIS is of great interest for managers of public or private irrigated areas in order to optimize their water and energy consumption.

- Project results could be disseminated to authorities in charge of irrigation as well as to irrigator communities
- Further validation of the online tools on irrigated areas with different crops in South and East Med countries



		Regional Knowledge Network on Systemic Approaches to Water Resources Management www.rknow.net	
Start date	01/01/2013	Duration	36 months
Total Budget	1.3 M€	EC funding	997 K€
European Commission, DG AidCo – European Neighbourhood and Partnership Instrument Strengthening the Capacities of Non-State Actors in partner countries (Multi-country)			

Partners:



Coordinator:

International Union Conservation of Nature (IUCN), Global Water Programme – Switzerland and the Regional Office for West Asia (ROWA) – **Jordan**



University Abdelmalek Essaâdi of Tetouan – Tangier **Morocco**



EMWIS Technical Unit (Euro-Mediterranean Information System on the know-how in the Water sector) - **France**



Arab Women Organization of Jordan – **Jordan**



Centre for Environment and Development for the Arab Region and Europe (CEDARE) – **Egypt**



Society for the Protection of Nature in Lebanon -**Lebanon**



Palestinian Hydrology Group for Water and Environmental Resources Development (PHG) -**Palestine**

Brief description:

Regional Knowledge Network on Systemic Approaches to Water Resources Management (R-KNOW) is a regional project funded by the European Union for a period of three years. The project aspires to create a Regional Knowledge Network on Water that will assist in strengthening the application of systematic approaches to water management and governance in five countries (Lebanon, Jordan, Palestine, Morocco and Egypt) among local authorities, decision-makers, researchers, experts, practitioners and other stakeholders. It also aims to influence policy and decision-making processes as means to **enhance good governance in the water sector**.

Current and past approaches of water resources management (WRM) have proven to be inadequate to deal with the global water challenges. These approaches are mostly sectorial management, where



each sector (domestic use, agriculture, industry, environmental protection, etc.) is managed separately with limited coordination. These approaches lead to fragmented and uncoordinated management of water resources. Water is a flowing resource which crosses sector boundaries. Many uses of water have spillover effects on other uses, and water development projects have unintended social and environmental consequences.

A great deal of experiences have been implemented all around the world, some examples for the best practices in water management can be found in the region. However, these experiences, practices and knowledge are not well known by many others in the world even in the region.

The project is developing the functions of the Regional Water Knowledge Network (RWKN), linking of existing platforms at different geographical levels, bringing together a wide range of institutions interested in creating new knowledge in systemic approaches to water management. The target groups are decision-makers, water managers and technicians, local authorities, and non-state actors that support and/or are involved in dialogue with decision-makers, such as representatives of Civil Society Organisations, researchers, experts and practitioners.

Four priority thematic areas on water management have been selected for the identification of good practices by the project:

- Water Governance.
- Water, Food and Energy.
- Sustainable Water Technologies.
- Water and Climate Change.

Expected results:

1. The Regional Water Knowledge Network has been established with national networks in Morocco, Egypt, Lebanon, Palestine and Jordan
2. Good practices of successful demo projects (applying systemic approaches to water management) are collected and distributed over the network
3. Knowledge, insights and awareness on systemic approaches to sustainable water resource management has been, shared and disseminated
4. Guidelines on systemic approaches for the 4 priority topics that could be applied to Natural Resources Management have been developed and distributed
5. The capacity of local authorities to use systemic approaches strengthened.

Potential interest for South and East Mediterranean Partner countries:

EMWIS community can participate and contribute to the project and future developments with:

- Identification of flagship projects and excellence centers on the 4 priority topics that could be promoted
- Involvement of national and local water authorities in the national R-know networks
- Preparation of new national networks in other Med Partner countries





VERS UNE PLATEFORME MÉDITERRANÉENNE DES CONNAISSANCES SUR L'EAU

Note de synthèse

(Mars 2014)

Ce projet a reçu la labellisation du secrétariat de l'Union pour la Méditerranée en avril 2014. Il est composé de deux sous-projets complémentaires à savoir : « la création de systèmes nationaux d'information sur l'eau » et « la préparation d'un Livre Blanc Méditerranéen sur l'eau ».

La connaissance au service d'une gestion efficace des ressources en eau

Ce projet répond à la demande formulée par les ministres lors de la conférence sur l'eau de l'Union pour la Méditerranée tenue fin 2008 en Jordanie visant à améliorer les processus de gouvernance de l'eau non seulement sur leur territoire mais aussi sur les ressources partagées et plus généralement au niveau de la région méditerranéenne dans son ensemble. La mise en place d'une plateforme méditerranéenne des connaissances sur l'eau est, en effet, un préalable incontournable pour le développement de politiques durables de gestion intégrée des ressources en eau (GIRE) et leur adaptation au changement climatique.

L'enjeu est double : d'une part, fournir un socle commun pour le développement de Systèmes nationaux d'Information sur l'eau –SNIE- permettant à la fois la réduction des coûts de mise en œuvre et l'harmonisation des données nécessaire pour la coopération interinstitutionnelle, régionale et internationale dans un même pays ; et d'autre part, élaborer un cadre de référence régional (Livre Blanc) capable de réaliser un diagnostic détaillé des ressources disponibles, des besoins environnementaux, des usages, ainsi que des principales politiques et programmes de mesures appliqués dans les pays de la région. Afin de garantir l'appropriation aux niveaux locaux et nationaux, le projet est focalisé sur les données, informations et expertises nécessaires à la planification de la gestion intégrée des ressources en eau et la police de l'eau.

L'harmonisation des données apportée par les SNIE et les analyses et réflexions apportées par le livre blanc permettront notamment une valorisation des bonnes pratiques de la GIRE, une gestion concertée des ressources transfrontalières et le suivi des politiques régionales ou sous-régionales en Méditerranée tels que le projet de Stratégie Méditerranéenne sur l'Eau, le projet de la Stratégie de l'eau pour la Méditerranée occidentale dans le cadre de 5+5, la Stratégie des pays arabes pour l'eau, la dépollution de la Méditerranée (Horizon 2020), le volet eau et assainissement des Objectifs de Développement du Millénaire, les futurs objectifs de développement durable des Nations Unies ou encore la Stratégie Méditerranéenne de Développement Durable.

Le projet contribue directement à faciliter l'implication de toutes les parties prenantes concernées en vue de l'amélioration du processus démocratique et d'une plus grande transparence de l'administration. De plus l'infrastructure de données fournies par le projet est susceptible de générer la création de services à valeur ajoutée et ainsi participer à la croissance par l'innovation dans les pays méditerranéens et encourager l'investissement dans la région.

Les principaux résultats attendus sont

- Des SNIE opérationnels au Maroc, en Tunisie, en Jordanie et au Liban fournissant les données nécessaires à toutes les instances du gouvernement et des institutions publiques pour le développement socio-économique et une gestion durable des ressources en eau dans leur pays ;
- Une démonstration et validation de l'automatisation (grâce aux SNIE) du rapportage vers les initiatives internationales sur base volontaire, à savoir le Plan d'Action pour la Méditerranée du PNUE (stratégie méditerranéenne pour un développement durable), la Ligue Arabe (ressources en eaux partagées entre les pays arabes), et l'Agence Européenne pour l'Environnement (Pollution de la Méditerranée)
- Des lignes directrices régionales harmonisées et une série de formations pour le développement et la gestion des systèmes partagés d'information sur l'eau conformément aux principes européens en vigueur disponibles pour tous les pays méditerranéens. La mise en œuvre de ces recommandations sera un gage de réussite et de réduction des coûts et de la durée de développement pour les futurs SNIE ;
- Une plate forme régionale d'échange d'expériences, de bonnes pratiques et de coordination entre les pays méditerranéens ;
- Une évaluation exhaustive des ressources conventionnelles et non conventionnelles, de l'usage sectoriel de l'eau, des pollutions produites et traitées ;

- Des recommandations sur le processus de développement de livres blancs nationaux sur l'eau basé sur le dialogue avec les parties-prenantes.

Le projet s'inspire sur les connaissances acquises autour de la gestion des données sur l'eau en Europe (Système partagé et élargi d'information sur l'Environnement –SEIS, Système Européen d'Information sur l'Eau –WISE, Directive INSPIRE pour les infrastructures de données spatiales), au niveau des Nations Unies (système de comptabilité environnementale et économique de l'eau –SEEA-W), dans certains pays avancés (France et Espagne-Livre Blanc espagnol notamment) et des outils et données fournies par l'Agence Spatiale Européenne.

Le livre blanc couvrira 6 pays méditerranéens pilotes (Espagne, Jordanie, Liban, Maroc, Monaco et Tunisie). La réalisation de SNIE sera menée dans 4 pays pilotes déjà engagés dans cette démarche (Jordan, Liban, Maroc et Tunisie,). D'autres pays méditerranéens seront impliqués dans des actions de concertation, de validation méthodologique, de formation et de transfert de bonnes pratiques. Le déploiement de SNIE et du Livre Blanc dans d'autres pays volontaires et présentant un contexte approprié pourra être envisagé si des fonds complémentaires sont mobilisés.

Les bénéficiaires sont les autorités nationales et locales de l'eau ainsi que les autres instances gouvernementales concernées par le secteur de l'eau, en particulier les ministères et agences sous tutelles en charge de l'environnement, de l'agriculture, de la santé et instituts de la statistique. La gestion des données sera renforcée avec une approche « gagnant-gagnant » pour toutes les institutions impliquées afin de garantir le succès et une meilleure appropriation.

Cette plateforme méditerranéenne des connaissances sur l'eau s'inscrit dans le cadre du partenariat Euro-méditerranéen (politique Européenne du voisinage, H2020, SEIS, ...)

En 2013, grâce aux fonds mobilisés et aux fonds propres des partenaires, quelques actions régionales et les premières étapes d'étude ou de mise en œuvre des SNIE ont démarré en Tunisie, au Maroc et en Jordanie. Dès novembre 2012, une consultation régionale a initié l'élaboration du livre Blanc méditerranéen sur l'eau.

Il est maintenant urgent de lancer les activités régionales pour consolider les investissements consentis dans ces pays, garantir la coopération interinstitutionnelle et maintenir la continuité de l'engagement de pays méditerranéens.

Promoteurs du projet : Office International de l'Eau (systèmes d'information) et Institut Méditerranéen de l'Eau (livre blanc sur l'eau)

Partenaires de mise en œuvre:

- **Espagne :** Ministère de l'Agriculture, de l'Alimentation et de l'Environnement
- **Jordanie :** Ministère de l'Eau et de l'Irrigation
- **Liban :** Ministère de l'Energie et de l'Eau
- **Maroc :** Ministère de l'Energie, des Mines de l'Eau et de l'Environnement
- **Monaco :** Fondation Prince Albert II
- **Tunisie :** Ministère de l'Agriculture (Direction Générale des Ressources en Eau)
- Système Euro-méditerranéen d'information sur l'eau
- Centre pour l'eau de la Ligue des pays arabes
- Plan Bleu (centre d'activité du PNUE-PAM)
- Réseau Méditerranéen des Organismes de bassin
- Institut Euro-méditerranéen de l'Eau
- Fondation AGBAR

Budget prévisionnel phase 1: 9,525 M€, dont:

- Environ 65% sont relatifs au sous-projet SNIE (phase 1) avec 79% dédiés aux systèmes nationaux dans les 4 pays pilotes. Les fonds déjà mobilisés s'élèvent à 42% du budget de la phase 1 et 33% sont déjà promis sur la durée totale du projet ;
- Environ 35% du budget pour l'élaboration du Livre Blanc Méditerranéen sur l'eau, dont 20% représentent les contributions en nature des partenaires (pays et réseaux).

Le budget de la phase 1 étant réparti comme suit :

- Guides, outils, capitalisation, formations régionales, et validation des bénéficiaires pour le rapportage international: 1,3 M€ (2.7 M€ au total phases 1 et 2)
- SNIE : Jordanie : 0,85 M€ (1.9 M€) ; Liban : 0,28 M€ (2.85 M€) ; Maroc 1,37 M€ (2.15 M€) ; Tunisie : 2,425M€ (3.33 M€) ;
- Livre blanc Méditerranéen sur l'eau : 3.3 M€

Durée prévisionnelle du projet : phase 1 (mi-2013 – mi-2016) et phase 2 (2016-2018)



TOWARDS A MEDITERRANEAN WATER KNOWLEDGE PLATFORM

Summary Note

(March 2014)

*The project, received **the Union for the Mediterranean label in April 2014**. It is composed of two complementary sub-projects namely: the establishment of national water information systems and the preparation of a Mediterranean White Paper on water.*

Knowledge for effective water resources management

This project responds to the request made by the Ministers at the Water Conference of the Union for the Mediterranean held in Jordan in late 2008 to improve water governance processes not only on their territory but also on shared resources and more generally in the Mediterranean region as a whole. The establishment of a Mediterranean Water Knowledge Platform is, indeed, a prerequisite to the development of sustainable policies for integrated water resources management (IWRM) and climate change adaptation.

The challenge is twofold: firstly, to provide a common basis for the development of National Water information Systems - NWIS - allowing both cost reduction in the implementation and harmonisation of data needed for inter-institutional, regional and international co-operation in a country, and secondly, to develop a regional framework (White Paper) capable of performing a detailed assessment of available resources, environmental needs, uses, and major policies and programmes of measures applied in the countries of the region. To ensure appropriation at local and national levels, the project focuses on the data, information and expertise necessary for planning integrated water resources management and water policing.

The harmonisation of data provided by the NWIS and analyses and thinking given in the White Paper will allow a valuation of best IWRM practices, joint management of transboundary resources and follow-up of regional or sub-regional policies in the Mediterranean region, such as the draft Mediterranean Strategy on Water, draft Water Strategy for the Western Mediterranean region under 5+5, the Strategy of Arab countries on water, Mediterranean Pollution removal (by H2020), the water and sanitation component of the Millennium Development Goals, the future UN sustainable development goals or the Mediterranean Strategy for Sustainable Development.

The project directly contributes to facilitating the involvement of all stakeholders concerned in order to improve the democratic process and have greater transparency in the administration. In addition, data infrastructure provided by the project is likely to generate the creation of added-valued services and thus contribute to growth through innovation in the Mediterranean countries and promote investment in the region (donors).

The main expected results are:

- Operational NWISs in Morocco, Tunisia, Jordan, and Lebanon providing data needed at all levels of government and public institutions for socio-economic development and sustainable management of water resources in their countries;
- A demonstration and validation of reporting automation (through NWIS) to international initiatives on voluntary basis, namely the Mediterranean Action Plan of UNEP (Mediterranean Strategy for Sustainable Development), the Arab League (water resources shared between Arab countries), the European Environment Agency (Pollution of the Mediterranean);
- Harmonised regional guidelines and a series of training courses for the development and management of shared water information systems in accordance with European principles in force and ready to be applied by all Mediterranean countries. The implementation of these recommendations will guarantee success and the reduction of costs and duration in the development of future NWISs;
- A regional platform for exchange of experiences, best practices and for co-ordination between the Mediterranean countries;
- A comprehensive assessment of conventional and unconventional resources, sectoral water use, produced and treated pollution;
- Recommendations on the process of developing national white papers on water based on dialogue with stakeholders.

The project is based on the knowledge gained on water data management in Europe (Shared and enlarged Environmental Information System -SEIS, Water Information System for Europe -WISE, INSPIRE Directive for spatial data infrastructure), the United Nations system (System of Environmental Economic Accounting for Water - SEEA-W), in some developed countries (France and Spain - Spanish White Paper in particular) and tools and data provided by the European Space Agency.

The White Paper will cover six Mediterranean pilot countries (Jordan, Lebanon, Morocco, Monaco, Spain, and Tunisia) in its first phase. NWISs will be achieved in four pilot countries which already started this process (Jordan, Lebanon, Morocco and Tunisia). Other Mediterranean countries will be involved in joint actions, methodological validation, training and transfer of best practices. The development of NWISs and White Paper in other volunteer countries having an appropriate context could be considered if additional funds can be raised.

The beneficiaries are the national and local water authorities and other government agencies involved in the water sector, especially the ministries and their supervised agencies in charge of the environment, agriculture, health and statistical institutes. Data management will be strengthened with a win-win approach for all institutions involved to guarantee success and better appropriation.

This Mediterranean water knowledge platform is part of the Euro-Mediterranean Partnership (European Neighbourhood Policy, H2020, SEIS, etc).

In 2013, thanks to raised funds and partners' equities, some regional actions and the 1st stages of the NWIS study and implementation have started in Tunisia, Morocco Jordan. In November 2012, a regional consultation initiated the drafting of a Mediterranean White Paper on water.

It is now urgent to launch regional activities to consolidate investments in these countries, to ensure inter-institutional co-operation and maintain the continuity of the commitments of Mediterranean countries.

Project developers: International Office for Water (Information Systems) and Mediterranean Water Institute (White Paper on Water)

Implementation partners:

- **Jordan** : Ministry of Water and Irrigation,
- **Lebanon:** Ministry of Energy and Water
- **Morocco** : Ministry of Energy, Mines, Water and Environment
- **Monaco** : Prince Albert II Foundation
- **Tunisia** : Ministry of Agriculture (General Directorate of Water Resources)
- **Spain:** Ministry of Agriculture, Food and Environment,
- Euro-Mediterranean Water Information System
- Arab League Center for Water
- Blue Plan (UNEP-MAP activity centre)
- Mediterranean Network of Basin Organisations
- Euro-Mediterranean Water Institute
- AGBAR Foundation

Budget estimate for the 1st phase: M€ 9.525

- About 65% are related to the MedWIS sub-project (phase 1) with: 79% dedicated to the national systems in the 4 pilot countries. The funds already committed amount to 42% of the budget for Phase 1 and 33% are pledged on the total duration of the project.
- About 35% are related to the elaboration of the Mediterranean White Paper on Water with 20% representing in kind contribution from partners (countries and networks).

The total budget for phase 1 is allocated as follows:

- Guides, tools, capitalisation, regional training and validation of the benefits for international reporting: M€1.3 (total phases 1&2: M€ 2.7)
- NWIS: Jordan: M€ 0.85 (Total M€1.9); Lebanon: M€ 0.28 (M€2.85); Morocco M€ 1.37 (M€2.15); Tunisia: M€ 2.425 (M€3.33);
- Mediterranean White Paper on Water : M€ 3.3

Provisional duration of the project: Phase 1 (mid-2013 - mid-2016) and Phase 2 (2016-2018)

Bilan financier / *Financial statement*

Les dépenses de l'Unité Technique du SEMIDE pour l'exercice 2013 sont de l'ordre de 270 000 Euros, contrebalancée par les contribution des membres espagnols, français et italiens de l'Unité Technique (61%); des projets européens (23%) et d'autres missions menées par l'Unité Technique (17%). La figure 1 détaille l'évolution du budget annuelle sur la période 2000-2013.

The Technical Unit spending for 2013 is around 270 000 Euros counterbalanced by financial contributions from the French, Italian and Spanish members of the Technical Unit (61%), European projects (23%) and other missions undertaken by the Technical Unit (17%).

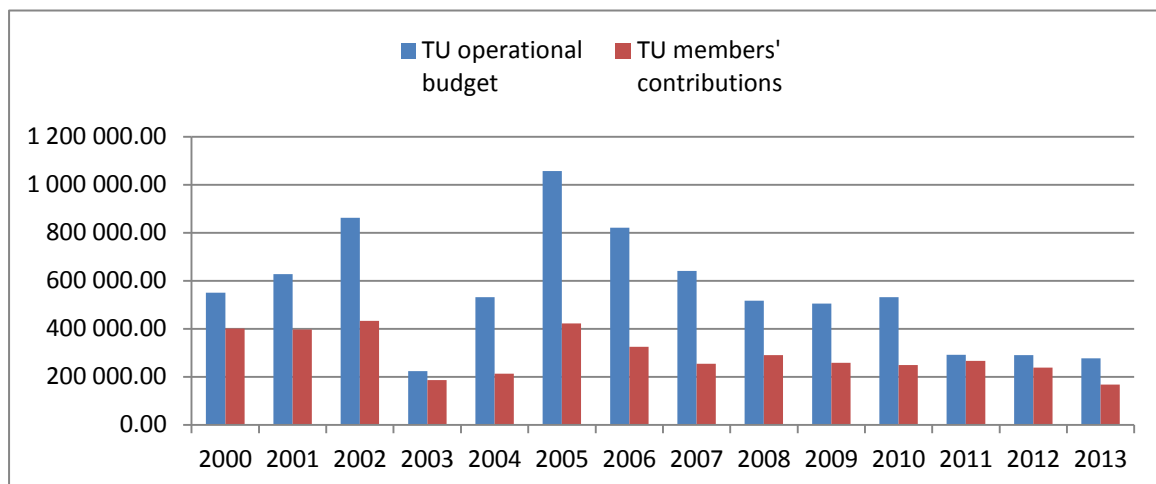


Fig. 1 – Budget annuel operational 2000-2013 (Euros)

Fig. 1 – Yearly operational budget 2000-2013 (Euros)

La figure 2 détaille l'évolution des recettes sur les trios dernières années (valeurs estimatives pour 2014).

The figure 2 below provides an overview the breakdown of incomes over the last 3 years (estimated values for 2014)

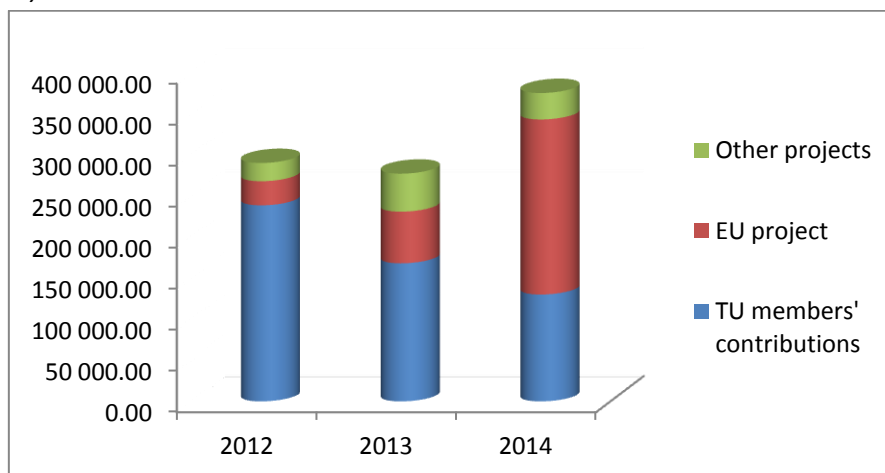


Fig. 2 – Répartition des recettes 2012-2014 (Euros)

Fig. 2 – Yearly of incomes 2012-2014 (Euros)



LISTE PARTICIPANTS COMITE DIRECTEUR DU SEMIDE / EMWIS STEERING COMMITTEE PARTICIPANTS
VALENCIA (Espagne) - 9 SEPTEMBRE 2014 / VALENCIA (SPAIN) - 9 September 2014

Version : 2014-09-05

Algeria	Mr. Tahar AICHAOUJ	Ministère des Ressources en Eau	Directeur des études et aménagement
Algeria	Mrs. Malya BROURI ABES	Ministère des Ressources en Eau	
Algeria	SEDDIKI MOSTEFA	MRE, Cabinet du Ministre	Chargé d'Etudes et de Synthèse au niveau du Cabinet de Mr Le Ministre
Palestinian Authority	Youssef AWAYES	Palestinian Water Authority	Director General International Cooperation
Egypt	Mohamed SALEH	Ministry of Water Ressources and Irrigation	Director General of Minister's Technical Office
Israel	Gavriel Weinberger,	Water Authority	Director of the Hydrological Service
Spain	Mrs. Liana ARDILES LOPEZ	Direccion General del Agua - Ministerio de Agricultura, Alimentacion y Medio Ambiente	General Director for Water
Spain	Mrs. María Ángeles UREÑA	Jucar River Basin Authority (Hydrographic Confederation of Jucar)	President - Presidence steering committee (new)
Spain	Mr. Eduardo Orteu	Ministry of Agriculture, Food and Environment.	Head of the Water Director's office
Spain	Mr. Angel Cajigas	Ministry of Agriculture, Food and Environment.	Deputy Assistant Director-General for water infrastructures
Spain	Mrs. Concepción Marcuello	Ministry of Agriculture, Food and Environment.	Deputy Assistant Director-General for Water Planning and Sustainable Use of Water
Spain	Mr. Teodoro Estrela	Jucar River Basin Authority (Hydrographic Confederation of Jucar)	Head of the Planning Office
France	Alby SCHMITT	Ministère de l'Ecologie, du Développement Durable, des Transports et du Logement - Direction Générale de l'Aménagement, du Logement et de la Nature	Directeur de l'Eau adjoint
France	David Elkaim	Ministère des Affaires Etrangères et du Développement International	Eau et assainissement - Membre de la Task force sur l'agenda post-2015
Italy	Mr. Walter Mazzitti	Ministero dell'Ambiente e della Tutela del Territorio e del Mare	Italian Water Director representative - Presidence steering committee (former)
Turkey	Mr. Bekir YIMAZ	Ministry of Forestry and Water Affairs - General Directorate of Water Management	Water Information System head
Malta	Mr. Manuel SAPIANO	Sustainable Energy and Water Conservation Unit / MALTA	Water Director General
Lebanon	Mr. Fadi COMAIR - Vice-Presidence steering committee	General Directorate of Hydraulic and Electric Resources - Ministry of Energy and Water	General Director
Morocco	Charaf El Hebil	Direction des Affaires Administratives et Financières	Ingénieur à la Division des Méthodes - EMWIS NFP
Tunisia	Mohammed LOTFI NACEF	Bureau de l'Inventaire et des Recherches Hydrauliques	Director - EMWIS NFP
Jordan	M. BANY MUSTAFA	Ministry of Water and Irrigation - JORDAN	Director of the National Water Master Plan
UT SEMIDE	Eric MINO	SEMIDE	Manager
UT SEMIDE	Jauad EL KHARRAZ	SEMIDE	Information Responsible
OIEau	Josiane MONGELLAZ	OIEau	Director International Cooperation
OIEau	Jean-François DONZIER	OIEau	Director General
observers	Chahra KSIA	Center of ArabWater Security - League of Arab States	President
observers	Cécile RODIER QUEFELEC	European Environment Agency	Project Manager Mediterranean Area Cooperation
observers	Plan Bleu - Cécile DUBREUIL	Plan Bleu	Chargée de programme Eau
observers	IME - Mr. Hachmi KENNOU	IME	
observers	IME - Milagros Couchoud	IME	
observers	UpM - Mr. François GUERBER	UpMS	
observers	CMI - Giulia Marchesini	CMI	
observers	REMOC - Maria SERNEGUET	REMOC	
observers	REMOC - Ramiro MARTINEZ	REMOC	

en attente leur confirmation
/ not yet confirmed