

PROJECT: TEMP – Textile Excellence in EU-MED Partners
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1. Executive summary

The TEMP project was a capacity building project, towards the strengthen of the technical and scientific competence within the EUROMED region in the field of textile technology related topics. The project main goal is to enhance the S&T cooperation in the Textile & Clothing field between Portugal, Italy and Tunisia by reinforcing strategic partnerships in this 3 research entities and 3 Innovation Promotion Associations, namely: CITEVE - Technological Centre for the Textile and Clothing Industry of Portugal (Coordinator); Centre Technique du Textile (CETTEX); Treviso Tecnologia (TVTEC); Next Technology Tecnotessile Societa Nazionale di Ricerca r.l. (NEXT TECNOTESSILE); The Portuguese Textile Association (ATP) and the Tunisian Innovation and Industry Promotional Agency (APII).

The project developed an ambitious program of actions and activities, such as: 1) Exchange and mobilization of human resources between partnering organizations; Knowledge transfer in the field of Environmental & Energy Management; Product and Material Laboratorial Management; IPR & Innovation management and Product Development. This knowledge transfer and technical assistance program was based in the set up of a very ambitious mobility programme ensuring the exchange of researchers and technical staff between European organizations and the Tunisian centre, which is the target of this capacity building project. Another relevant activity of the TEMP project was the Definition of specific S&T priorities in partners regions, creating a research agenda and an innovation Roadmap specifically designed for the Textile & Clothing sector within the EUROMED region. With this EUROMED Innovation Roadmap on Textiles and Clothing, the partners of the TEMP project would like to contribute to the definition of scientific and technical priorities within the partners' regions, in an integrated way, towards a more effective and positive cooperation. By highlighting research and innovation priorities and relevant cooperation topics for the period of 2010-2020, in total coherence with the SRA (strategic research agenda) defined in other relevant European documents such as the Strategic Research Agenda of the Technological Platform for the Future of Textiles & Clothing, the TEMP project partners believe that a more effective impact and better resource management, can be achieved regarding the particular situation and challenges of the regions involved in the TEMP project. To ensure an effective dissemination and communication of project results, besides setting up a very strong program of dissemination activities which included more than 15 events (workshops, seminars and conferences) the TEMP project is highly visible on line, through two different platforms: An institutional project website (<http://www.temp-eumed.eu/>) and a cooperation facilitator website (<http://www.eumed-gateway.eu/>). The EU-MED gateway cooperation platform is a

centralized hot spot where you can find all relevant information regarding scientific and technological cooperation within the EU-MED area.

The expected impact of these activities will be a better integration of EU and MED countries; improve S&T capacities in the MPC (Mediterranean Partner Country) country and convergence region helping the reinforcement of the regional economic and social development; creating fruitful and stronger links between partner's organization and further RTD organizations in the partnering countries. The set up of a shared services portfolio between partners is also expected to contribute to the economic impact of the project.

2. Summary description of the project context and the main objectives

The TEMP project was a capacity building project towards the strengthen of the technical and scientific competence within the EUROMED region in the field of textile related topics. The project main goal is to enhance the S&T cooperation in the Textile & Clothing field between Portugal, Italy and Tunisia by reinforcing strategic partnerships in this 3 research entities and 3 Innovation Promotion Associations, namely: CITEVE - Technological Centre for the Textile and Clothing Industry of Portugal (Coordinator); Centre Technique du Textile (CETTEX); Treviso Tecnologia (TVTEC); Next Technology Tecnotessile Societa Nazionale di Ricerca r.l. (NEXT TECNOTESSILE); The Portuguese Textile Association (ATP) and the Tunisian Innovation and Industry Promotional Agency (APII).

TEMP Project focuses on improving a tighter relationship between Italy, Portugal and Tunisia, in the field of textile & clothing technology, promoting closer cooperation between complementary organizations, namely in the following topics:

- Development of Scientific and Human Potential;
- Exchange of know-how and best practices;
- Increase of scientific and technical research capacities.

This has been achieved through combined actions and activities, such as:

- Create a Contact Platform with other scientific fields of knowledge or even other industrial sectors (shoe manufacturing, machinery manufacturing) of mutual interest, aiming to improve contacts in all the fashion industry within the partner's countries.
- Exchange and mobilization of human and material resources between partner's organizations;
- Knowledge transfer in the field of water management; environmental and energy management; scientific laboratorial analysis and tests; IPR & innovation management and other scientific and technical expertise areas;
- Disseminating scientific information and knowledge as well as the results of S&T research;
- Implementation of RTD past project results and best practices in the Textile and Clothing industry of the MED country and convergence region;
- Provide technical assistance and training to enhance knowledge transfer;

- Definition of specific scientific and technical priorities in the partners regions, creating a research agenda for the period 2010-2015.

All this activities were combined in a coherent structure based in 7 workpackages:

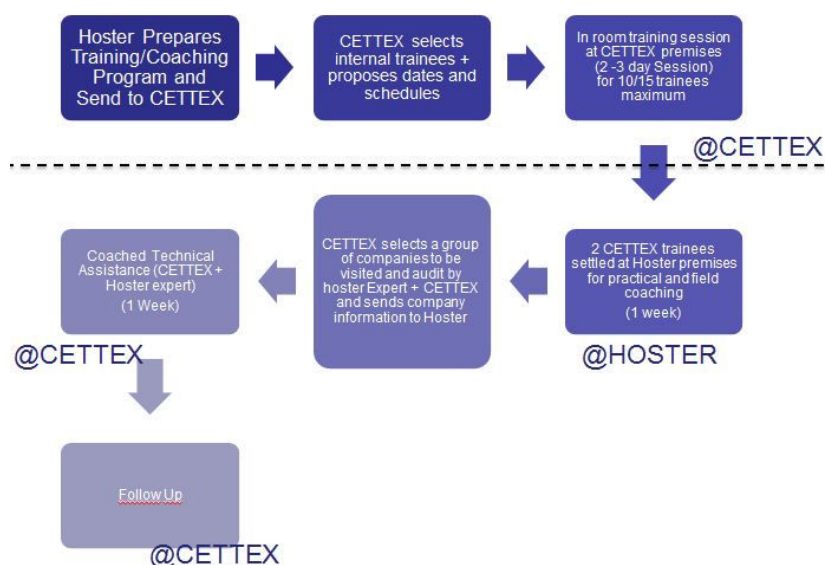
Work Package	Work package title
WP1	Work Platform Definition
WP2	Human Resources Mobility
WP3	Technology and Knowledge Transfer Activities
WP4	Technical Assistance Activities
WP5	Definition of Specific S&T Priorities
WP6	Dissemination Activities and Establishment of the “Contact Platform”
WP7	Management and Coordination

WP1 was mostly about the set up of a common understanding and vision about the project framework and objectives in order to facilitate all the upcoming tasks and work. Most of this activity was related to the proposal review and to the set up of working groups for each specific technological field addressed by the project, in order for those groups to prepare and develop part of work foreseen in other tasks and to share among them specific technological information.

WP2, WP3 and **WP4** were developed in very integrated and complementary way in order to maximize task's results and impact. Besides CETTEX investment in new research and testing equipment mostly within the scope of WP4, the main objective of these WPs was the set up of the mobility program which was the core activity of the project since in order to strength and amplify the competence and capacity building process at CETTEX. This means staff from CETTEX (Trainees) having training and coached technical assistance sessions in the European Project Partners's Facilities and experts from those European centers conducting coaching and training/knowledge transfer sessions at CETTEX premises. As mentioned before, the mobility program is also instrumental for WP3 and WP4 objectives, since most of the knowledge and technology transfer and technical assistance foreseen within those WP's was achieved through the mobility of human resources between partner institutes.

The mobility program comprised an integrated **training, coaching** and **technical assistance** program, involving different groups of engineers, technicians and researchers from CETTEX, organized in 6 different actions and addressing 6 different topics which were set up and provided by different project partners: 1) Environment & Energy (CITEVE), 2) Product & Process Technologies (NEXT TECNOTESSILE), 3) Product Design & Fashion (TVTEC), 4) Laboratorial Analysis Methods and Management (CITEVE), 5) IPR & Innovation Management (CITEVE + TVTEC), 6) Quality & Organizational Management (CITEVE+NEXT TECNOTESSILE). According to CETTEX needs and interests, the duration and work load of each action of the mobility program was specifically adapted into two categories:

- 4 Long Mobility Actions (96 Hours each), which was applied to topics 1,2,3 and 4. The long mobility actions comprised an integrated program of staff mobility, knowledge transfer and coached technical assistance within those topics according to the methodology bellow and involving the mobility of both CETTEX staff to European partners' premises and European Partners Staff to CETTEX premises.
- 2 Short Mobility Actions (16 Hours Each) which was applied to topics 5 and 6 , involving only the mobility of European partnerts's staff to CETTEX



➤ Short Mobility Actions

Program Stages	ACTIONS	
	IPR & Innovation Management	Quality & Organizational Management
Organization/ Coordinator	CITEVE + TVTEC	CITEVE + NEXT TECNOTESSILE
In Room Training/Coaching At CETTEX Premises (2-3 Days)	March 2012	May 2012 (Innovation Standards) May 2012 (Conception of non-standard testing methods) September 2012 (Supply Chain Management)

➤ Long Mobility Actions

Program Stages	Actions			
	Environm ent & Energy	Product & Process Technologies	Design & Fashion	Laboratorial Testing and Management
Hosting Organization/ Coordinator	CITEVE	NEXT TECNOTESSILE	TVTEC	CITEVE
In Room Training At CETTEX Premises (2-3 day session)	April 2011	June 2011	October 2011	Done at hosting premises (1)
CETTEX Staff Coaching at Hosting Facilities (1 Week)	June 2011 July 2011	July 2011	December 2011	July 2012
Coaching & Technology Transfer at CETTEX + Field Work (1 Week)	January 2012	November 2012	February 2012	November 2012 (1)

One important action within **WP4** was the investment in research and testing equipment/technology at CETTEX. The technology implemented by CETTEX allowed the centre to achieve new research and testing capacity within the field of textile materials, allowing it to better serve the local textile & clothing community. This technology implementation process, was supported and therefore strengthen by the mobility program action n° 4 (Laboratorial Analysis Methods and Management) which was set up in order to specifically match the analytical and methodological testing requirements of the new technologies/equipment installed within the project activities at CETTEX. The equipment bought and installed within WP 4 was: 1 orbital shaker, 1 boiling bath with shaker, 1 Equipment for measurement of water permeability; 1 equipment to perform the snagging test; Several glass material; Hardware and software to evaluate fabrics dimensional stability according to ISO 6330:2012; Equipment for sampling and equipment for control of testing devices;

Also within the scope of WP4, despite not foreseen initially, but discussed and accepted with the Project Officer, CETTEX has benefit from the partners' technical assistance and knowledge in order to renew and upgrade its institutional website. This upgrade was essential in order for better communicate to the scientific and business community the new competences and capacities resulting from the TEMP project capacity building activities.

WP5 aimed at the definition of Specific Scientific &Technological Priorities for the development of the textile & clothing sector within the EROMED region, identifying topics of common interest for the different partner countries, highlighting research and innovation priorities and relevant cooperation topics for the period of 2010-2020, in total coherence with the SRA (strategic research agenda) defined by the European

Technological Platform for the Future of Textiles & Clothing. Most of the work performed was based in data collection from existing relevant publications/statistical data, from interviews and meetings with relevant stakeholders in each partner country and also from background knowledge and information available in each partners' organization. One important deliverable of the project was the definition of a EUROMED R&D and Innovation Roadmap for the Textile and Clothing sector. This strategic document was published in English and French language and includes relevant information like a detailed characterization of the Italian, Portuguese and Tunisian Textile & Clothing Industry, an overview of existent documents and initiatives regarding local and national roadmapping activities, a vision for an EUROMED Region of Textile & Clothing Excellence in R&D+ Innovation and concludes with the TEMP project proposal for an R&D and Innovation Roadmap Towards 2020. With this deliverable the partners of the TEMP project would like to contribute to the definition of scientific and technical priorities within the partners' regions, in an integrated way, towards a more effective and positive cooperation.

The expected impact of these activities will be a better integration of EU and MED countries; an improvement in scientific and technical capacities in the MPC (Mediterranean Partner Country) country and convergence region thus helping the reinforcement of the regional economic and social development; the establishment of strong and effective links between the partner's organization and other RTD organizations in the partner's countries.

WP6 included the project dissemination activities, mostly achieved by the organization and/or attendance in relevant local and international events addressing the target audience (Textile & Clothing Community), through the publication of communication tools (brochures, posters, banners and leaflets) as well as by using two different electronic communication channels: An institutional project website (<http://www.temp-eumed.eu/>) and a cooperation facilitator website (<http://www.eumed-gateway.eu/>). The EU-MED gateway cooperation platform, another project deliverable, is a centralized hot spot where you can find all relevant information regarding scientific and technological cooperation within the EU-MED area regarding textile and clothing business. The TEMP project was promoted and visible in more than 15 events across the EUROMED region. Still on the dissemination level, concerning synergies with other on-going platforms and projects, a relevant aspect was the interaction with other 3 ongoing projects within the so called Waste Cluster Initiative (WCI), that brought together different projects with common interest in water and waste management, contributing therefore to less overlapping and better integration between activities and strategies under development in ongoing funded European projects. Also important was the poster exhibition at the Annual Conference of The European Textile Technology Platform.

WP7 exclusively addressed management activities in order to ensure good project development and good communication among partners. In order to facilitate the communication between partners and document /data management, an internal project management web based tool (TEMP WORKSPACE) was adopted and used for project management. All project files, agendas, minutes, documents, publications, contacts and images were stored within this platform, which was available via project website, making therefore very easy to share relevant information between partners. The consortium met for 7 times, at least one time in each partner country and all project partners' have always attend the meetings.

3. Potential impact (including the socio-economic impact and the wider societal implications of the project so far) and the main dissemination activities and the exploitation of results.

3.1. Project Potential Impacts

T&C Industry has the necessary potential to set a model and example of re-enforced cooperation between the countries of the Mediterranean area, that isn't limited by geography but also to a number of other countries that for historical or cultural reasons or even economic circumstances constitute a large Mediterranean region. This region is fundamental to maintain peace, security and economic prosperity to hundreds of thousands of individuals, and assume itself as a geo-political and geo-economic core, that is capable to compete with other controls of power and business in the world today. Without using the usual rhetoric and bureaucracy that are usually imposed to deal with such issues and which most of the times stay as good intentions and keep inertia, it is certain that one can structure a vision for the Euro-Mediterranean T&C. Based on one hand by a common rich and diversified past which modeled nations and the world, with the aim of cooperation by innovation, either by R&D or less technological. No less important is creativeness, where design fashion and more efficient design processes are the best examples.

In effect, this cooperative vision for the Euro-Mediterranean region that TEMP tried to systematize and even accomplish for the T&C aims the implementation of a set of objectives that structure and interact.

So, more than presenting itself as a goal of commercial policies of the EU, to make the southern countries of the Mediterranean the first option for the supply of T&C it is necessary to share know-how and resources. The balance between cost and quality, geographic and cultural proximity conditions positively service and liability. But when you look for suppliers in further away geographies, this cannot be attained, as recent history has shown.

By creating a cooperative option in the Euro-Mediterranean region, one is acting intensely for the growth of trade at all levels of the value chain and is promoting producers and traders but also the consumer that this way can access to products and services of higher added value. Price is still an important issue for the consumer but special emphasis is given to the satisfaction of needs on a sophisticated value point of view. This is easier acknowledged in the southern European countries and by their retail models, which have conquered large shares of consumption all over the world.

To work in cooperation, to transfer knowledge and experience from both parts also determines product/service added value in the Euro-Mediterranean region. This way, new arguments are gathered against world competition, for low price, mass production and non-differentiation are confined to certain consumption segments, which eventually are not interesting to the Mediterranean T&C chain. Therefore is expected that Tunisian SME's directly and indirectly benefiting from the capacity building approach promoted by the project on a technology transfer and research organization like CETTEX, will be better prepared to enhance a stronger cooperation with European companies, towards the exploitation of new markets.

Besides one must look upon cooperation not as a one way flux, or with rigidly defined fluxes, for which Europe relocated production or orders to south, being a consumption market looking for products of relatively low price products, without any other ambition but to develop classic production activities, without sophistication and no evolving in the value chain. Control and profit for this type of production lay in the hands of those who relocated production and little to the land where it was relocated.

One of the interesting outputs of the TEMP project was the agreement to provide in the future a joint service offer between CETTEX and the different European R&D centres participating in the project. Is expected, for this strategy to have a long last effect in the project dynamic, by creating a clear understanding towards the extension of the cooperation but in this case addressing specific company needs which can be better solved by an integrated service portfolio. In fact, also as a relevant impact, a core group of the TEMP project partners already submitted a proposal to the FP7 INCO program under the acronym FASHIOMED, coordinated by TVTEC and aiming at empowering the TEMP experience to other MPC partners. Fortunately today many of the Mediterranean region countries are already collecting the fruits of their investments, by originating emerging appealing consumer markets with segments of society of resources, education, cosmopolitanism and sophistication in taste. It's fair to believe that the TEMP project experience and outputs will also have a positive impact in this process, since it has demonstrated the importance of staff mobility between organizations in the consolidation of knowledge transfer and cooperation processes.

Finally, the Euro-Mediterranean region shares concern for sustainability, whether it is environmental, social and even economic. Not diminishing historical differences and the evolution experienced by the different countries, giving special but asymmetrical attention to these issues, they all share the desire for a more balanced space, capable of satisfying their population's needs and that, legitimately want the best for themselves and mostly their future generations. Once more by addressing topics like environmental management or energy management, the TEMP project will certainly have an impact in the leverage of the MPC companies towards European standards and practices regarding sustainable production. As an example, the joint service portfolio offered by CETTEX+CITEVE in the field of environmental and energy audits, as an output from the TEMP project, will contribute for local companies to better deal with such relevant competitive factors. The cooperation set up by the TEMP project between organizations supporting industrial SME's and the "facilitator" tools such as the gateway website; will certainly impact in the relations between European and MPC companies in the future. The last dissemination event in which the TEMP project consortium participated was the CAT 2012 – Business & Technology Convention, in Tunisia. At this event the project partners, besides sharing the project booth at the exhibition area, presented their joint offer portfolio within the brokerage event. This approach can be considered as a relevant positive impact of the project, in what concerns the level of cooperation and common trust between organizations towards new upcoming challenges.

More relation, more business, more scientific interchange, more common work made with projects like TEMP are an unequivocal certainty that the construction of the Euro-Mediterranean region is more than a political utopia but rather an irreversible process of development for the building of a better common future for everyone involved.

3.2. Main Dissemination Activities:

Project dissemination activities, mostly achieved by the organization and/or attendance in relevant local and international events addressing the target audience (Textile & Clothing Community), through the publication of communication tools (brochures, posters, banners and leaflets) as well as by using two different electronic communication channels: An institutional project website (<http://www.temp-eumed.eu/>) and a cooperation facilitator website (<http://www.eumed-gateway.eu/>). See below the list of dissemination events from the project, within the reporting period:

Date/Place	Event	Type of Dissemination
October 2010 / Tunis (TU)	SIET – International Exhibition of textile Equipment	Project Stand
June 2011 / Tunis (TU)	TEXMED 2011 Exhibition	Project Stand
June 2011 / Tunis (TU)	TEXMED 2011 Exhibition	Project Workshop; Brochures available
February 2012 / Porto (PT)	Modtissimo Exhibition / Seminar: “The Textile Industry in Tunisia”	Project Communication; Brochures Available;
March 2012 / Milan (IT)	CONFERENCE ON CHALLENGES AND OPPORTUNITIES FOR THE TEXTILES AND CLOTHING SECTOR IN THE EURO-MEDITERRANEAN REGION	Project Communication; Gateway Website Presentation; Leaflets Available
September 2012/Florence (IT)	“A further step toward S&T cooperation in the Textile & Clothing field between Italy and Tunisia”	Conference ; Project Communication; Brochures Available
October 2012 / Tunis (TU)	TEXMED 2012 Exhibition	Stand, Brochures and Project Banner
October 2012 / Tunis (TU)	TEMP Project Final Conference	Project Final Conference, Roadmap and Brochures Available
October 2012 / Tunis (TU)	TEXMED 2012 Exhibition	Project Stand
November 2012/Famalicão (PT)	XIV Forum of Textile Industry	Project Communication, Roadmap and Brochures Available
November 2012/Sousse (TU)	“Waste Cluster Initiative (WCI) in Hadrumete	Stand and project communication
November 2012 / Milan (IT)	Mllano Med Forum	EUMED-GATEWAY.EU was main sponsor of the event; Project Booth, Brichures and leaflets available
November 2012 / Tunis (TU)	CAT 2012 – Business & Technology Convention	Project Stand, brochures and leaflets available, participation in the Brokerage Evcent

Also relevant within communication and dissemination activities were contacts, networking and synergies developed with other ongoing initiatives. This was particularly the objective of task Task 6.3 within WP6 - *Establish synergies with other ongoing platforms and projects*. The TEMP project strengthened links with some international initiatives related to T&C, R&D and SMEs investment and opportunities:

- ANIMA Investment Network (<http://www.animaweb.org/en/index.php>)
- INVEST IN MED (<http://www.invest-in-med.eu/>)
- EMDC - PROMOS Milano ([EURO-MED Development Center for MSMEs](http://www.emdc.eu))
- INSME (International Network for SMEs, <http://www.insme.org/>)
- Pôle de compétitivité Monastir-El Fejja (which coordinates a directory of Technical Textiles Tunisian companies, www.mfcpole.com.tn)
- Textile 2020, Advanced Technical Textile cluster (<http://textile2020.eu/>)
- Industrial Council for Technology and Innovation (Egypt)
- UpTex - Competitiveness Cluster (www.up-tex.fr)
- PCAM - Programme d'appui à la Compétitivité des entreprises et à la facilitation de l'Accès au Marché (www.pcam.gov.tn)
- **SOWAEUMED Project** (Network in Solid Waste and Water Treatment Between Europe and Mediterranean Countries) (<http://grupsderecerca.uab.cat/sowaeumed>)
- **STInno** (Sustainable Innovations And Treatment In Industrial Waste Water Clusters) (<http://www.kalmar.regionforbund.se/stinno/>)
- **WASTEKIT Project** (Waste Management Focusing on: Knowledge and Integration to create Transnational Economic Development) (<http://www.wastekit.eu/>)

Within the official project website <http://www.temp-eumed.eu>, namely in the “news” area and within the EUMED Gateway website (<http://www.eumed-gateway.eu/>) is possible to find more information and pictures and about the dissemination activities of the project;

3.3. Exploitation of Results

The fact of the TEMP project of being a Coordination Action project following a capacity building approach gives to the exploitation of results a different dimension and perspective. In this sense, there are no research results to exploit and no patents or designs to license, but there are project results which can be further exploited in the future in order to extend the project effect creating conditions to positively “contaminate” other stakeholders. In fact, one of the main results of the project which corresponds to one of its main proposed objectives is the cooperation linkage, the confidence and trust level which the project has been able to build among all the participating organizations, which certainly has a positive demonstration effect on different stakeholders. This will certainly be exploited in the upcoming future by all the partners in order to develop new partnerships and new joint initiatives which should be of common interest, not only for each organization it, but also to the stakeholders which are directly or indirectly related to the different project partners.

Regarding specific concrete results of the projects, the following table shows the exploitation potential and strategy to be followed in each case:

Improved CETTEX technological capacity in the field of textiles material R&D and testing	Improved R&D and testing portfolio offered to Tunisian companies and other relevant local stakeholders ; Develop new services and projects addressing the Tunisian textile & Clothing Companies;
Improved CETTEX technological capacity in the field of Environmental & Energy Management, Product Design, IPR and Innovation Management;	Improved service portfolio offered to Tunisian companies and other relevant local stakeholders ; Develop new services and projects addressing the Tunisian textile & Clothing Companies;
EUROMED Innovation Roadmap on Textiles & Clothing	This strategic publication will be used by all partners in policy advising work, with local and national public organizations and relevant stakeholders, having responsibilities in the R&D and innovation public policy design. As well as a supporting guideline within new R&D projects consortia building within the EUROMED area;
EUMED Gateway Website	The EUMED gateway website is one of the powerful results of the project which has a strong exploitation potential. The EUMED Gateway Website will be exploited by TREVISIO TECNOLOGIA (TVTEC) which will maintain the website hosting and all the website management work. All partners will also contribute with providing TVTEC with relevant information and inputs to feed the website.
Joint Service Portfolio	CETTEX will use the joint service portfolio developed with each of the project partners, in order to market this integrated offer in the different fields of knowledge to potential clients. With this strategy CETTEX will enlarge its competence portfolio by combining its own competences with the ones available at CITEVE, TVTEC or NEXT TECNOTESSILE depending on the technical field.
Mobility Program Methodology	The methodology of the mobility program will be exploited by all European partners in further exchange programs which might be developed with other MED partners;

4. Public website address and relevant contact details

Project Websites:

- Official Project Website: <http://www.temp-eumed.eu/>
- EUMED Gateway Website: <http://www.eumed-gateway.eu>

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