



**EUROPEAN COMMISSION DIRECTORATE-GENERAL ENVIRONMENT  
Directorate A – Governance, Communications and Civil Protection**



## **NAtural RiSk Prevention In MEDiterranean Countries**

### **Final Technical Implementation Report**

**Grant Agreement N 070401/2008/507838/S  
Projects selected under 2008 Call for Proposals C65  
Preparedness & Prevention under the Civil Protection Financial  
Instrument**

**Coordinating beneficiary:  
Region Molise  
Civil Protection and Reconstruction Unit**

**Project Starting date: 01.10.2008 - Ending date: 30.09.2010  
Report Starting date: 01.10.2008 - Ending date: 30.09.2010**

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## 2. General reminder (max 1 page) of project objectives, partnership and expected deliverables.

### Objectives:

The origin of Narpimed project is to be found in the necessity to develop some techniques, methods and procedures aimed at promoting new policies for natural risk prevention (focusing on seismic risks) at the national and European level. These methodologies could be shared among the different associated beneficiaries through the realization of a Manual for risk prevention.

Considering the existing procedures for risk prevention in all the participating countries of the project, the general objective of Narpimed is to define a "shared methodology" aimed at the realization of a trans-national framework for closer collaboration in the civil protection field among the associated beneficiaries, contributing, therefore, to implement the Community action for civil protection. Narpimed, therefore, contributes a) to find a unique definition of natural risk, starting from the seismic risk; b) and to establish a staircase of homogeneous evaluation of natural risks. The strategic objective of Narpimed is to promote the coherence among the different civil protection actions undertaken at national and international level (Spain, Italy and Greece), reinforcing the cooperation with some Mediterranean countries, such as Algeria and Morocco (European added value).

The consortium believe that a shared and unified methodology in the field of civil protection, which is based upon a philosophy of common action, could facilitate the assistance needed from other countries in case of calamity. The consortium will consider the results from previous national and EU projects realized on civil protection cross-border cooperation in the fight against natural disasters.

The Specific objectives of the project are:

- a) to improve the methods and tools of evaluation for preventing actions;
- b) to study some methodologies aimed at evaluating the economic benefits of prevention action compared to reconstruction actions;
- c) to improve the methods and tools of evaluation for the management of emergency;
- d) to mitigate the damages of long duration through the prevention and correct management of emergency.

Narpimed finally emphasises the importance of the governance mechanisms for Civil protection actions, in terms of the local and transnational partnerships between the different kinds of actors involved.

Narpimed addresses priority issues derived from the CALL FOR PROPOSALS FOR COOPERATION PROJECTS ON PREPAREDNESS AND PREVENTION.

### Partnership:

CO - Regione Molise – Servizio Protezione Civile (Italy), AB1 - HERIMED - Associazione per la documentazione, la conservazione e la valorizzazione del patrimonio culturale Euro-Mediterraneo (Italy),

AB2 - Consiglio Nazionale delle Ricerche – Istituto per le Tecnologie della Costruzione – Sede L'Aquila (Italy),

AB3- IAGPDS - Instituto Andaluz de Geofísica y Prevención de Desastres Sísmicos - Universidad de Granada – (Spain),

AB4 Municipality of Kalivia (Greece).

### Expected deliverables:

1st meeting STEERING PROJECT GROUP: Technical guidelines are delivered

A. 4. 1st and 2nd Progress Report

3rd mid term report

Final report

B1. technical report about the knowledge gaps within the different participating countries : state of the art.

B2. The report presents the main outputs of the workshops. Granada (ES) and Campobasso (IT)

B3. 2nd Collection of the documents produced by the partners to realise the OPERATIONAL MANUAL for PREVENTION  
 B3. Documentation available for the 1st draft of the Operational manual  
 B3. 3rd Collection of the documents produced by the partners to realise the Operational Manual of Prevention with strategic guidelines  
 B3. 4th Collection of the documents produced by the partners involved to realise the Operational Manual of Prevention with strategic guidelines  
 B.4 1st training course documentation (brochure, presentations, books) (ES)  
 B.4 1st training course (certification of attendance) (ES)  
 B.4 2nd INTENSIVE TRAINING COURSE POGGIOREALE (SICILY-ITALY): documentation (brochure, presentations, books)  
 B.4 2nd INTENSIVE TRAINING COURSE POGGIOREALE (SICILY-ITALY) (certification of attendance)  
 C.2 WEB SITE prototype is delivered as first version (including technical documentation from the associated beneficiaries)  
 C.2 WEB SITE final version is delivered (including technical documentation from the associated beneficiaries)  
 C.3 Project NEWSLETTER is delivered  
 C.4 1st thematic SEMINAR: outcomes are delivered  
 C.4. 2nd thematic SEMINAR on risk prevention: Operational Manual about risk prevention is delivered as well as outcomes

### **3. General summary of project implementation process**

#### **GENERAL OVERVIEW OF THE PROCESS**

Project tasks implementation during the overall project period has been accomplished as expectations notwithstanding the delays of the first period because of the emergency occurred in L'Aquila on April 2008 in which coordinating beneficiary (CO) and CNR-ITC (AB2) have been largely involved. Additionally, L'Aquila earthquake event has been turned as an opportunity for the project more than an obstacle, since was source of more direct emergency experience for AB2 and was the occasion to put in practice all the experience related to the emergency of earthquake of Molise 2002 improving the errors and improving the good practices. All the beneficiaries not directly involved in this emergencies have suffered for the delay, but on the other end could benefit from the learning opportunity to share with the partners involved in the emergency from the privileged point of view of the NARPIMED network. Of course this positive effect have been largely showed in the operational manual for natural risk prevention.

The last period has been characterised by the main core of the project including 3rd and 4th project steering group meeting held in Granada (Spain) and Kalivia (Greece) (activity A.2) and the 1st and 2nd Intensive training course "Good practices, methods and procedures to avoid or reduce natural disasters in the Mediterranean Countries" held in S.Agata Li Battiati, Sicily (Italy) and Granada (Activity B.4) and the Closing conference in Kalivia (Greece) (Activity C.1). As can be deduced by the reports of the events and by the presence sheet already delivered, the events registered a high level of success, above the expectations. It deserves to be underlined the added value of the NARPIMED network enlarged to other Mediterranean Countries (Algeria, Morocco and Turkey) with the direct participation of technical people to NARPIMED events which have been directly and actively involved not only in the discussion, but also in the drafting of annexes to the manual with an overview of the good practices used in their Countries. In all that occasions a discussions and planning of activities for the drafting of the manual have been made and finalised.

#### **COMPARATIVE ANALYSIS OF:**

##### **- INITIAL AND ACTUAL TIME SCHEDULE**

It has to be noted that the initial delays have been caused by the earthquake of L'Aquila on April 2009 in which Regione Molise – Servizio Protezione Civile (CO) and CNR-ITC L'Aquila (AB2) have been directly involved. In summary, some of the events have been postponed or anticipated, but all the deliverables have been produced as expected. Below summary of the timing expected and the actual timing.

NARPIMED..... Grant Agreement No. SI2.587838		wp leader	
Starting date: 01.10.2008 Ending date: 30.09.2010			
Gantt chart		Reg. Molise - CO Herimed - AB1 IAGPDS - CNR-ITC -Aq- AB2 AB3 Kalivia - AB4	
Task Title			
A - Management and reporting to the			
1 EC			
a) Grant agreement between the co-ordinator and the			
Action A.1 1.1 Commission,		CO	
b) Finalisation and conclusion of the agreements with all			
1.2 associated beneficiaries		CO	
Action A.2 2.1 Steering Project Group meeting		CO	
Action A.3 3.1 Monitoring and control of the incurred expenditure		CO	
Action A.4 4.1 Progress report		CO	
Action A.5 5.1 Reporting of expenditure (Rapporto di spesa)		CO	
2 B-Exchange of experiences			
Action B.1 1.1 State of the Art		AB3	
Action B.2 2.1 Thematic workshop		AB3	
Production of case studies, good practice guides, policy			
Action B.3 3.1 recommendations, strategic guidelines		AB2	
Action B.4 4.1 Intensive training courses		AB1	
3 C-Dissemination			
Action C.1 1.1 Joint launch and closing conference		AB3	
Action C.2 1.2 Project's web site		AB1	
Publication and dissemination of joint leaflets, brochures,			
Action C.3 1.3 newsletters		AB1	
Action C.4 1.4 Two Thematic seminars		AB4	
X Deliverable Description (See Form T3b)			
MILESTONES (See Form T3b) X			

## - PLANNED AND USED RESOURCES

Below tables summarising the planned and used resources per partner and per type of expenditure.

PERSONNEL				
BENEFICIARY REF.	NAME	PLANNED RESOURCE €	USED RESOURCE €	TASK
CO	Giuseppe A Giarrusso	€23.015,87	€17.979,43	A1+B2+A4+B3+B2+A2+C4+C1
CO	Umberto Capriglione	€14.000,00	€15.430,85	B1+B2+C2+A4+A3+C3+B3+A2+C4+C1
CO	Carmine Panichella	€1.571,43	€4.135,57	A1+A5
AB1	Alessandro Pernice	€21.428,57	€21.429,23	A1+B1+B2+C2+A4+A5+C3+B3+A2+C4
AB1	Roberto Albergoni	€16.865,08	€16.865,00	A1+B2+A4+B3+A2
AB2	Giandomenico Cifani	€21.476,57	€21.370,89	A1+B2+A4+B3+A2+C4
AB2	Antonio Martinelli	€16.107,42	€12.085,97	B2+A4+B3+A2+C4
AB2	Livio Corazza	€9.161,69	€2.156,21	A1+B1+C2+C3+B3
AB2	Technical collaborator		€3.877,60	A1+B1+C2+C3+B3
AB2	Administrative staff	€2.684,96	€6.290,78	A1+A5
AB2	Petracca Aurelio	€8.333,33	€597,48	A1+B1+C2+C3+B3
AB3	Francisco Vidal Sanchez	€6.547,62	€21.841,18	A1+C1+B2+A4+B3+A2+C4
AB3	Gerardo Alguacil	€2.678,57	€543,05	B2+A4+B3+A2+C4+B4
AB3	M. D. Vidal Salazar	€3.750,00	€2.739,27	C1+C3+B3+B4
AB3	Mercedes Feriche	€1.285,71	€397,45	B1+C1+C2+B3+B4
AB3	Enrique Valenzuela Tello		€299,30	B1+C1+C2+B3+B4
AB3	Merchedes Feriche		€397,45	A1+A5

	Fernandez-Castanys			
AB4	Filippou Petros	€4.488,10	€2.699,68	A1+B2+A4+B3+A2+C4
AB4	Elena Rapti	€5.932,54	€8.213,62	
AB4		€550,00		B1+B2+C2+A4+C3+B3+A2+C4+A1+A5
<b>TOT</b>		<b>€159.877,47</b>	<b>€159.350,00</b>	

**Travel and subsistence**

<b>BENEFICIARY REF.</b>	<b>FROM-TO</b>	<b>PLANNED RESOURCE €</b>	<b>USED RESOURCE €</b>	<b>TASK</b>
CO	Campobasso-Brussels	€814,00		A2
AB1	Palermo-Brussels	€814,00	€1.179,27	A2
CO	Campobasso-Granada	€1.972,00	€1.379,59	C1+B2+A2
AB1	Palermo-Granada	€1.972,00	€1.924,96	C1+B2+A2
AB2	L'Aquila-Granada	€1.972,00	€3.008,65	C1+B2+A2
AB4	Kalivia-Granada	€1.972,00		C1+B2+A2
AB1	Palermo-Campobasso	€1.160,00	€491,94	B2+A2
AB2	L'Aquila-Campobasso	€460,00	€132,20	B2+A2
AB3	Granada-Campobasso	€1.160,00	€1.831,60	B2+A2
AB4	Kalivia-Campobasso	€1.160,00	€630,00	B2+A2
CO	Campobasso-Kalivia	€1.144,00	€2.272,61	C4+A2
CO	Campobasso-Brussels	€814,00		A2
AB1	Palermo-Brussels	€814,00		A2
AB1	Palermo-Kalivia	€1.144,00	€1.191,88	C4+A2
AB2	L'Aquila-Kalivia	€1.144,00	€1.320,54	C4+A2
AB3	Granada-Kalivia	€1.144,00		C4+A2
CO	Camposasso-Granada	€2.820,00	€3.780,27	B4
AB1	Palermo-Granada	€2.820,00	€1.068,02	B4
AB2	L'Aquila-Granada	€2.820,00	€1.585,46	B4
AB4	Kalivia-Granada	€2.820,00	€1.774,26	B4
CO	Campobasso-Poggioreale	€3.000,00	€2.317,02	B4
AB2	L'Aquila-Poggioreale	€3.000,00	€1.775,38	B4
AB3	Granada-Poggioreale	€3.000,00	€3.647,64	B4
AB4	Kalivia-Poggioreale	€3.000,00	€2.047,00	B4
AB1	Palermo-Campobasso (to Kalivia)	€2.080,00		C4+C1+A2
AB2	L'Aquila-Campobasso	€1.380,00		C4+C1+A2
AB3	Granada-Campobasso	€2.080,00		C4+C1+A2
AB4	Kalivia-Campobasso	€2.080,00		C4+C1+A2
AB1	Palermo-L'Aquila		€171,93	A3+B3
AB2	L'Aquila-Roma		€113,70	A3+B3
AB1	Palermo-Roma		€301,29	A3+B3
AB2	L'Aquila-Bruxelles		€2.586,22	A2
AB1	Palermo-Catania		€2.506,28	B4
AB3	Various to Granada		€3.988,66	B4
<b>TOT</b>		<b>€50.560</b>	<b>€43.026,37</b>	

**Subcontracting/External assistance**

<b>BENEFICIARY REF.</b>	<b>Provider/procedure</b>	<b>Description of service subcontracted</b>	<b>PLANNED RESOURCE €</b>	<b>USED RESOURCE €</b>	<b>TASK</b>
AB3	3 estimates for 150 envelopes, 150 brochures, 200 block-notebooks, 200 folders, 250 pens, 250 bandages and estimate for catering	kick-off meeting	€8.352,50	€1.459,23	C1
AB1	External consultants will be selected by the partner responsible for the project web site	impianto e gestione web site	€11.088,00	€11.088,00	C2
AB1	3 estimates for printing	print newsletter	€720,00		C3
CO	External consultants will be selected by the CO	assistance for realisation prevention manual	€35.000,00	€35.000,00	B3
AB1	External consultants will be selected by the associated beneficiary	assistance for realisation prevention manual	€7.000,00	€4.900,00	B4
AB2	External consultants will be selected by the associated beneficiary	assistance for realisation prevention manual	€21.000,00	€20.534,14	B5
AB4	Interpreters will be found on the registered Regional lists for interpreters according to the partner that entertains the seminar	thematic seminar	€3.800,00	€3.680,00	C4
AB1	teachers will be chosen directly by the Partner	professor for seminar	€2.144,00		C4
AB3	Interpreters will be found on the registered Regional lists for interpreters according to the partner that entertains the training course	intensive training course	€3.000,00		B4
AB1	Expenses related to the organisation of the training courses (teacher, interpreters, logistic service, catering, press conference) in Italy and Spain. Teachers will be chosen directly by the partners. Interpreters will be found on the registered regional lists for interpreters according to the partners that entertains the training training course	training intensive course (Catania and Granada)	€13.304,00	€13.300,00	B4
AB3	Interpreters will be found on the registered Regional lists for interpreters according to the partner that entertains the training course	intensive training course	€3.000,00	€2.783,53	B4
CO	Interpreters will be found on the registered Regional lists for interpreters according to the partner that entertains the seminar	thematic seminar	€3.800,00	€2.646,70	C2
AB1	teachers will be chosen directly by the Partner	docenti per seminario	€2.144,00		C2

CO	3 estimates for 150 envelopes, 150 invitations, 200 block-notebooks, 200 folders, 250 pens, 250 bandages and estimate for catering	closing conference	€5.930,85	€5.770,80	C1
CO	3 estimates for printing	pubblication	€12.737,08	€12.737,08	C3
<b>tot</b>			<b>€133.020,43</b>	<b>€113.899,48</b>	

- EXPECTED AND ACTUAL RESULTS

Below can be found a table summarising expected results vs actual results.

Additional results analysed is described in point 5: Activities.



Task ID	Task Title	Actions	Start Date/End date	<b>Deliverables</b> <b>Supposed Delivery Date / Actual delivery date</b>
A	Management and reporting to the EC	A2, A3, A4, A5	01.06.2009-31.1.2010	<p>A.2 The 1<sup>st</sup> STEERING PROJECT GROUP meeting in Granada 30.03.09 / 17.02.09</p> <p>A.2 The 2<sup>nd</sup> STEERING PROJECT GROUP meeting in Campobasso 3.7.09</p> <p>A.2 The 3<sup>rd</sup> STEERING PROJECT GROUP meeting in Catania 31.3.10</p> <p>A.2 the 4<sup>th</sup> STEERING PROJECT GROUP meeting held in Granada (Spain) 30.06.2010/30.06.2010</p> <p>A.2 the 5<sup>th</sup> STEERING PROJECT GROUP meeting held in Kalivia 30.09.2010/30.09.2010</p> <p>A.4 1<sup>^</sup> progress report (information to the EC) 30.03.09 / 22.06.09</p> <p>A.4 2<sup>^</sup> progress report (information to the EC) 31.07.09 / 31.01.2010</p> <p>A.4 3<sup>^</sup> progress report (information to the EC), final report 31.12.2010/ 23.2.2011</p> <p>A.5 1<sup>^</sup> report of expenditure 30.03.09 / 30.04.09</p> <p>A.5 2<sup>^</sup> report of expenditure 31.07.09 / 031.01.2010</p> <p>A.5 3<sup>^</sup> report of expenditure 31.12.2010/ 23.2.2011</p>
B	Exchange of experiences	B1, B2, B3, B4	01.06.2009-31.1.2010	<p>B1. technical report about the knowledge gaps within the different participating countries : state of the art (it includes documents of analysis) 31.12.2008 / 31.03.09</p> <p>B.2 The report presents the main outputs of the workshop. (15 participants at least for each workshop are those who produce the report) 40 persons attended the meeting in Granada Granada (ES) 22.1.2009 / 17.02.09 Campobasso (IT) 30-03-09 / 3-5.7.09</p> <p>B.3 Documentation available for the 1<sup>st</sup> draft of the Operational manual. 30-05-09 / 3.7.2009</p> <p>B.3 2<sup>nd</sup> collection of the documents produced by the partners involved to realise the OPERATIONAL MANUAL for PREVENTION. 30-09-09 / 31.12.2009</p> <p>B.3 3<sup>rd</sup> collection of the documents produced by the partners involved to realise the OPERATIONAL MANUAL for PREVENTION. Documentation is collected during the 2010 NARPIMED 2nd Intensive Training Course of Granada of June 28, 2010 and related technical meeting among the partners. 28.2.2010/30.06.2010</p> <p>B.3 4<sup>th</sup> collection of the documents produced by the partners involved to realise the OPERATIONAL MANUAL for PREVENTION. 30.4.2010/23-24.09. 2010</p> <p>Documentation is collected during the final project Seminar titled <b><i>"Natural Risk prevention in Mediterranean Countries: Challenge for the future"</i></b> held on September 23, 2010 in Kalivia (Greece) at the Amphitheatre of the Town Hall.This action has been facilitated by HERIMED with reference to the participation of two Organisations</p>

				<p>associated with the NARPIMED project Beneficiaries, such as <b>Ecole Nationale Supérieure d'Architecture (ENSA – ex. EPAU) d'Alger – Laboratoire Architecture et environnement</b> and <b>UNIVERSITÉ ABDELMALEK ESSADI</b> and finally the cooperation of representative of the <b>Disaster and Emergency Management Presidency of the Republic of Turkey</b> who attended two project events (2<sup>nd</sup> intensive training course and final seminar of Kalivia) as guest speaker.</p> <p>B.4 1<sup>st</sup> training course (brochure, presentations, books) took place in S.Agata Li Battiati (Catania), on 29th March 2010. (SICILY-ITALY) <b>1.3.2010/29.3-1.4.2010</b></p> <p>B.4 1<sup>st</sup> training course (certification of attendance) The Power Point presentations that were given at the <b>1st intensive Training course</b>, the agenda and press releases are available for downloading on the project web site. Certification of attendance were delivered to trainees at <b>1.4.2010</b> <b>30.3.2010/1.4.2010</b></p> <p>B.4. 2<sup>nd</sup> training course Documentation (brochure, presentations, etc) for those in charge at civil protection centres and Local Community Representatives took place in Granada on June 28, 2010. <b>1.05.10/28-29.06.2010</b></p> <p>B.4. 2<sup>nd</sup> training course (certification of attendance) Outcomes of the 2nd Intensive Training Course, the brochure of this event is available on the web site of NARPIMED project. Certification of attendance were delivered to trainees at <b>29.06.2010</b> <b>30.05.10/29.06.2010</b></p>
C	Dissemination	C1, C2, C3, C4	01.06.2009-31.1.2010	<p>C.1 The agenda of the kick-off meeting of the project GRANADA – Spain is delivered <b>21.01.2009 / 17.02.2009</b></p> <p>C.2 WEB SITE prototype is delivered as first version (including technical documentation from the associated beneficiaries) <b>01.01.2009 / 01.01.2009</b></p> <p>C.2 WEB SITE final version is delivered (including technical documentation from the associated beneficiaries). A new look version of the website has also been launched during the <b>1st intensive training course</b> which took place in S.Agata Li Battiati (Catania), on 29<sup>th</sup> March 2010. (SICILY-ITALY).<a href="http://www.NARPIMED.org">www.NARPIMED.org</a> <b>30.09.2010 / 18.11.2009</b></p> <p>C.3 Project NEWSLETTER is delivered .Four Project NEWSLETTERS are available on the project website. <a href="http://www.NARPIMED.org">www.NARPIMED.org</a> A new look version of the project brochure (project sheet) is delivered at the <b>1st intensive training course</b> which took place in S.Agata Li Battiati (Catania), on 29<sup>th</sup> March 2010. (SICILY-ITALY). It is also available at <a href="http://www.NARPIMED.org">www.NARPIMED.org</a> <b>30.09.09/ 30.05.09; 30.11.09 ; 31.01.10; 30.06.10</b></p> <p>C.4 1<sup>st</sup> thematic SEMINAR “<b>Good practices, methods and procedures to avoid or reduce natural disasters in the Mediterranean Countries</b>” of Granada (Spain). Outcomes: Minutes of the seminar, power points presentations, etc The 1<sup>st</sup> thematic SEMINAR” took place on Thursday 30 June 2010 in Granada (Spain). The Seminar and the parallel fourth Steering Committee Meeting (SCM) were held both at the UGR - University Campus premises in Cartuja (Granada). Outcomes: minutes, PPTs, etc, are available on Narpimed web site at : <a href="http://www.narpimed.org/?page_id=7">http://www.narpimed.org/?page_id=7</a></p>

				<p><b>30.09.2010/30.6.2010</b>  C.4 Final thematic project SEMINAR. Outcomes: Minutes of the seminar, Power point presentations, The Operational Manual for natural risk prevention. Final International seminar <b><i>"Natural Risk prevention in Mediterranean Countries: Challenge for the future"</i></b>, took place on September 23, 2010, in Kalivia (Greece).  Outcomes: Minutes of the Seminar and PPTs are available on Narpimed web site at :<a href="http://www.narpimed.org/?page_id=7">http://www.narpimed.org/?page_id=7</a>  <b>15.09.2010/23.09.2010</b>  C.4 <b><i>The Operational Manual for natural risk prevention</i></b>. The final Deliverable has been finally written and revised by all partners on December 2010. This delay on schedule is due to the decision of the consortium to enlarge the content of the Manual to three additional Mediterranean Countries, such as Algeria, Morocco and Turkey. The Manual is on press and will be ready for the end of February 2011.  <b>15.09.2010/31.12.2010</b></p>
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## 4. Evaluation of project management/implementation process

### - Positive aspects / opportunities

The best positive aspect remains the interchange of experiences on risk prevention (mainly in earthquake risk) among partners. Fruitful exchange of experience has been started during the thematic workshop in Granada between partners from Countries with similar risk, but with different management approached, organisation and at different evolutionary status in the process of civil protection organisation. This cooperation process have been strengthened during the Campobasso thematic workshop and project steering group where the definitive outline of the prevention manual has been drafted and discussed. In the subsequent meeting in Sicily, Granada and Kalivia, more details have been added to the discussion, and the participation of other Mediterranean Countries representatives added more point of views to the discussions. The network has been strengthened, in fact four of the NARPIMED partners (CO, AB1, AB2 and AB4) met in Rome on 9<sup>th</sup> of November 2010 during the INCA project (LINKING CIVIL PROTECTION AND PLANNING for preventing disasters IN EUROPE, EC Civil Protection Financial Instrument) final event. This was the occasion to meet again and make the point of the status of NARPIMED, to show NARPIMED results to a wider audience and to establish new connections with stakeholders. The cooperation among partners is a very straightforward way to capitalise the project and its results.

### - Internal and external difficulties encountered

The partnerships agreement was signed after the Kick off meeting of Brussels (the 3rd and 4th 2008).

Therefore the implementation process of Narpimed faced some delay because of this inconvenient.

Pre-financing allocation to partners suffered some delay which did not allow them to proceed for payments.

During the whole duration of the project no major internal and external difficulties have been encountered. University of Granada encountered difficulties in reporting their work for this reporting period, even if they participate actively to all the project activities in which its involvement was foreseen.

Some inconsistencies in the distribution of resources to partners have been detected in the Financial forms of the final project draft and have been encompassed. This is worth to be clarified in this report. The sum of the subcontracting/External assistance costs (section F) for each partner at pag 63 and 64 of the Grant Agreement, is not coherent with total budget per beneficiary reported at page 57 of the Grant Agreement (Project funding breakdown). To solve this inconsistency we've considered the partnership agreement, realised as a flexible tool which allowed in this occasion to solve the problem emerged in the grant agreement. See Supplementary to Grant Agreement No.1.

For logistics reasons represented by all the partners, some minor changes have been decided (Action B4). For more detail please see B4 description section. Expenditure reporting suffers delays since most of administrations are used to pay expenses no more than two months after having received the services. Sometimes this process may take longer. For this reason, even if several expenditures have actually been incurred during the second reporting period, most of them can be only reported in the next reporting period. Must be noticed that the third reporting period schedule of activities and events is pretty much more dense than the already past periods.

The final Deliverable has been finally written and revised by all partners on December 2010. This delay on schedule is due to the decision of the consortium to enlarge the content of the Manual to three additional Mediterranean Countries, such as Algeria, Morocco and Turkey. The contribution has been judged very interesting and therefore was judged worth the delay. The Manual is on press and will be ready for the end of February 2011.

- **Partnership/core group cooperation**

Partnership cooperation can be considered good. The Greek representatives, who were not able to attend the Granada venue, finally meet the rest of the partnership in the Campobasso venue and in all the subsequent venues. Communication and collaboration has not been always smooth between the CO and ABs even if clear members tasks have been assigned, especially in the reporting of activities and expenditure, this ended in delays in the reporting to EC. The network has been strengthened, in fact four of the NARPIMED partners (CO, AB1, AB2 and AB4) met in Rome on 9<sup>th</sup> of November 2010 during the INCA project (LINKING CIVIL PROTECTION AND PLANNING for preventing disasters IN EUROPE, EC Civil Protection Financial Instrument) final event. This was the occasion to meet again and make the point of the status of NARPIMED, to show NARPIMED results to a wider audience and to establish new connections with stakeholders. The cooperation among partners is a very straightforward way to capitalise the project and its results.

- **Cooperation with the Commission**

The cooperation with the European Commission has been kept by project coordinator and HERIMED which represents the main disseminating partner of the network, and therefore can be considered excellent. We received the official invitation to the Civil Protection Forum "Towards a more Resilient Society", Brussels, 25-26 Nov 2009. Unfortunately this time coordinator and HERIMED were not able to attend the event due to unforeseen other relevant meetings. Some changes to the foreseen activities have been necessary, and in every occasion EC has been contacted and made aware of the minor changes. In one occasion an amendment to the Grant Agreement has been done.

- **Comments on European value added**

Specifically, the development of coherent and common prevention actions and correct management of emergency is a need in European and Mediterranean countries. This is an European added value for building transnational capacity on risk prevention. Furthermore, such a mechanism provides a more coherent framework for Natural disaster prevention and emergency management, and a better international cooperation among EU Members state (MS) in the field of disaster prevention and risk management. Involvement of other non EU Mediterranean Countries allowed their representatives to have a good overview of the EU practices in this field, important under the light of association (mainly for Turkey) and integration.

- **Lessons learnt and possible improvements**

To interchange experiences and to achieve a greater degree of coordination (on risk prevention and emergency management) among partners is very adequate to hold meetings. A good example was the Campobasso thematic workshop and project steering group. An improvement could be short stays in the work place of other partners. An example has been the collaboration with Italian partners analyzing the effects and emergence response of the L'Aquila (Italy) damaging earthquake. This methodological best practice has been shown in detail during the thematic workshop in Campobasso to other partners. In the subsequent meeting the belief that the common strategy among EU partners is useful for the management of emergency at European level has been strengthened. Narpimed allowed to go deeper into details in the understanding of this common aspects.

## **5. Activities**

- **Comparison between initially planned and actually implemented activities, including monitoring, evaluation and dissemination**

A sound dissemination campaign of NARPIMED project activity is ongoing, including the publishing of dissemination article of the NARPIMED project on Regional Review journal decided and supported by the Coordinating Beneficiary and the participation to INCA project final event in which NARPIMED project results have been shown to a wider public. The presence of an important network of Public bodies (such as HERIMED) is relevant to ensure the durability of the project's results.

### **Action A.1: (Responsible: CO - Molise Region)**

a) Grant agreement between the co-ordinator and the Commission

Grant agreement between the co-ordinator and the Commission has been signed on 22/09/08

b) Finalisation and conclusion of the agreements with all associated beneficiaries,

The Partnership agreements between the CO Molise Region and all ABs have been signed on March 2009.

**Action A.2:** Steering Project Group meeting (Responsible: CO - Molise Region with the contribution of other partners)

All partners but Kalivia municipality attended the first Steering Project Group meeting held in **Granada the 16<sup>th</sup> of February 2009**. The first Project Steering Group Meeting aims was to discuss about the NARPIMED project implementation planning and its related actions among the different associated beneficiaries and to get an analysis/recognition on the State of the art in the Risk Prevention in the countries of the project beneficiaries, a subject tackled by the project.

This Meeting has been a good opportunity to exchange experiences and discuss about several topics of the project. The Prevention of Natural Risk in Euromediterranean countries was discussed by all partners. Experiences of Algeria and Morocco countries were included thanks to the participation of professors Djebri Boulem (Ecole Polytechnique d'Architecture et d'Urbanisme d'Alger, Algeria) and Taoufik Mourabit (Faculty of Sciences and Techniques, Tanger, Morocco).

All partners attended the second Project Steering Group meeting held in **Campobasso the 3rd of July 2009**.

During the second Project Steering Group Meeting the index about the Manual for natural risk prevention in Europe was discussed and created jointly among the participants and an additional analysis/recognition on the State of the art in the Risk Prevention in the countries of the project beneficiaries has been done. See minutes for more details. This Meeting has been a further opportunity to exchange experiences, update each one implementation tasks and discuss about the specific topics of the project.

All partners attended the third Project Steering Group meeting held in **S. Agata Li Battiati the 1 April 2010**.

All partners attended the fourth Project Steering Group meeting held in **Granada the 28-30 June 2010**.

All partners attended the fifth Project Steering Group meeting held in **Kalivia the 26 September 2010**.

**Results:** Minutes and presence sheets of the meetings are available.

**Action A.3:** Monitoring and control of the incurred expenditure (Responsible: CO - Molise Region)

In order to achieve a good control of project expenditure, Molise Region recruited with a public evidence procedures, a financial expert which is now responsible to verify the qualitative, quantitative and temporal coherence of the expenses. She is in constant touch (email and telephone) with all the associates beneficiaries to be constantly informed and to help them in reporting expenses.

**Results:** Technical-Financial Reports available.

**Action A.4:** Progress report (Responsible: CO - Molise Region with the contribution of other partner)

The Technical report has been delivered by all partners to the CO for each reporting period. Consensus reports have been drafted from the CO for each reporting period as a summary of the reports from all associated beneficiaries.

**Results:** Technical Reports available for each partner and consensus report for the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> (final) project period.

**Action A.5:** Reporting of expenditure (Responsible: CO - Molise Region)

Associate beneficiaries sent to the CO an updated report of their financial records, 2<sup>st</sup> progress report copy and relative proof of expenditure. A the present consensus report has been drafted from the CO as a summary of the reports from all associated beneficiaries. Delays in delivery of report has been due to delays in the reporting of some associate beneficiaries.

**Results:** Financial Statement of expenditures available for each partner and consensus report for the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> (final) project period.

**Action B.1:** State of the Art (Responsible: IAGPDS with the contribution of all the partners).

The Instituto Andaluz de Geofísica (IAGPDS)- University of Granada, in order to collect, select and analyse critically documentation to summarize a Technical report, requested to collect the relevant documents contribution from all the partners about the procedures, techniques and existing methodologies for Civil protection in the different associated countries, the official procedures or "general practice" about the prevention of risks (in particular the seismic risk) and the actors at various levels (municipal, regional, national). The present situation about natural risk prevention and Civil Protection mechanisms in the associate countries of North Africa (Algeria and Morocco) has been incorporated into the technical report thanks to the contribution on "Seismic risk in Algeria" produced by Prof. Boualem Djebri from the Ecole polytechnique d'architecture of Algeria.

**Results:** Selection and critical analysis of the collect documentation for the different countries participating (Spain, Italy and Greece) summarized in a technical report.

**Action B.2 –** Thematic workshop (Responsible: CO - Molise Region)

All partners but Kalivia Municipality attended the first Thematic workshop of **Granada** held on the **16 of February 2009**.

The IAGPDS-University of Granada (with the collaboration of Region of Molise, CNR – ITC of L'Aquila and Herimed) organized the First Thematic workshop of the Project in Granada on February 16th 2009. The Thematic workshop was focused on Natural Risk prevention in Italy, Spain and Greece: legislative framework and governance. Mr. Alessandro Pernice (from Herimed) was the chairman. A description of the relevant experience in the field of natural risk prevention by each associated beneficiary (including Algeria and Morocco) has been performed.

The main problems and challenges in the Prevention of Natural Risk in Europe were discussed. The necessity to go beyond disaster-driven as the only way to respond to disasters rather than preventing and reducing the vulnerability at source was recognised as the main necessary goal of the present project.

All partners attended the second Thematic workshop of **Campobasso** held on the **4<sup>th</sup> July 2009**.

The Thematic workshop was focused on Natural Risk prevention in Italy, Spain and Greece and which allowed to get an additional analysis/recognition on the State of the art in the Risk Prevention in the countries of the project beneficiaries and to share the definite index of contents of the Prevention manual. For more details see the report of the thematic workshop available.

**Results:** Participation of the First and Second Thematic Workshop in Granada and in Campobasso and a report presenting the main outputs of the workshops is available.

**Action B.3** – Production of case studies, good practice guidelines, policy recommendations, strategic guidelines (Responsible AB3 - CNR-ITC with the contribution of all the partners).

Documentation for the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> draft of the Operational Manual for Risk Prevention fully available at Month 24 (September 2010) instead of Month 19 (April 2010). Contribution of the two Organisations associated with the NARPIMED project Beneficiaries such as Ecole Nationale Supérieure d'Architecture (ENSA – ex. EPAU) d'Alger – Laboratoire Architecture et environnement and the UNIVERSITÉ ABDELMALEK ESSADI (Morocco) and the participation of the Disaster and Emergency Management Presidency of the Republic of Turkey which attended two project's events (1<sup>st</sup> Intensive Training course of April 2010 held in Catania and the Kalvia Final Project seminar of September 2010) is included.

**Results:** Operational Manual is available in printed copies and on the website.

**Action B.4** – Intensive training courses (Responsible: AB1 - HERIMED)

Some variations on the place and dated of the foresees Intensive training courses have been occurred and decided in accordance with the EC.

The 1<sup>st</sup> Intensive training course *“Good practices, methods and procedures to avoid or reduce natural disasters in the Mediterranean Countries”* was held in S.Agata Li Battiati (CT), Sicily (Italy) on 29 March-1 April 2010 better and more representative place where to held a training course on seismic issues, of Poggioreale (TP) because of its bigger seismic activity due to its closeness to Etna volcano. Regional Civil Protection Service for the Province of Catania has been extensively involved. 35 Trainees who attended the course received the certificates of attendance. Four press releases regarding the training are published on Local and Regional press (La Sicilia) and these are mentioned here: “Civil protection experts from Italy and other Mediterranean Countries visited Santa Venerina Municipality and all local cultural heritage sites damaged by 2002 Earthquake”, edited by Giovanna Mazza; “European Seminar of NARPIMED project in Catania” edited by Gaetano Russo; “Emergency Technicians at School” edited by La Sicilia; NARPIMED training course on natural risk edited by Alessandro Candeloro. Press releases are also available for downloading at the Narpimed web site: [http://www.narpimed.org/?page\\_id=7](http://www.narpimed.org/?page_id=7). In addition, Civil protection experts from Italy and other Mediterranean Countries visited Local Cultural Heritage sites damaged by 2002 Earthquake. The Foreign Relations Coordinatorship of the Disaster and Emergency Management Unit of the Turkish Republic attended the training as guest speaker. Herimed facilitated his participation and cooperation within the framework of the project's activities;

The 2<sup>nd</sup> Intensive training course *“Good practices, methods and procedures to avoid or reduce natural disasters in the Mediterranean Countries”* was held in Granada on 28-30 June 2010. The number of attendants have been 98 (of the 106 initially enrolled) added to the participation of the 21 teachers of the course. Trainees received the certificates of attendance. Minutes of the 2nd Intensive Training Course. Granada, June 28-30, 2010, the brochure of this event and other outcomes are available for downloading at the Narpimed web site :[http://www.narpimed.org/?page\\_id=7](http://www.narpimed.org/?page_id=7); A guest speaker from South Mediterranean Countries (Algeria) is chosen by HERIMED: Prof. Kharchi Fattoum who is professor at Houari Boumediene - University (HBU) Civil Engineering Faculty (AL) attended the training and presented the topic of “Seismic Hazards and Risk Prevention in Algeria. The progress achieved since 1980”;

Both events have been particularly successful: see presence sheets.

**Results:** report and presence sheets of the events are available.

**Action C.1** - Joint launch conference (Responsible AB3 - IAGPDS with the contribution of other partner).



The Joint Launch Conference of the Project "Natural Risk Prevention in Mediterranean Countries" was programmed as a set of lectures on Natural Risk Prevention and on European Funding Opportunities for Natural Risk Prevention and for explaining the main aspects of the NARPIMED project and the results of the first thematic workshop.

The lectures were presented by the project partners (and one invited lecturer). Seminar was attended by representatives of, among the others: National, Regional and Local services on Civil Protection, earthquake and wild fire risk prevention, researchers lecturers and professors of IAGPDS and universities of Granada, Almeria, Sevilla and Jaen. Jorge Serra Llopart (from Spanish Emergency Military Unit. Ministry of Defense, SPAIN) presented Project FIRE. Effects on the Spanish Emergency Military Unit, a trans-national cooperation project in wild fire.

Prof. Jesus Ibañez, (from Instituto Andaluz de Geofísica. Universidad de Granada, SPAIN) explained Volcanic Risk at Canary Islands as an example risk prevention and mitigation.

**Closing conference of Narpimed Project** was held on September, 26<sup>th</sup> 2010 in Kalivia (Greece).

Closing conference was held in Kalivia (not in Campobasso as foreseen) on 26 September 2010. NARPIMED results have been shown. All partners have discussed on results and project sustainability. According to evaluation sheets project results more than successful.

**Results:** The agenda of the conferences, the list of participants, the certificates of attendance, a technical report and evaluation sheets, minutes and Power Point Presentations are available for download at the Narpimed web site:

[http://www.narpimed.org/?page\\_id=7](http://www.narpimed.org/?page_id=7). More than 50 participants attended the conferences.

**Action C.2 - Project's web site** (Responsible: AB1 - HERIMED with the contribution of other partner).

NARPIMED Web site has been launched on July 2009. NARPIMED Web site is accessible on line for consultation and functional ([www.NARPIMED.org](http://www.NARPIMED.org)). Three project newsletters have been created and disseminated by HERIMED networks. During the 2<sup>nd</sup> thematic workshop of Campobasso (3-5, July, 2009) Mr. Alessandro Pernice (HERIMED, Italy) presented the official NARPIMED Project web site. He made a report of the web site, presenting the final structure and layout, all contents. All associated beneficiaries supported HERIMED association during the project design of the web site. Compared to the previous layout the web site is improved according to all suggestions sent by the partners.

The web site contains the extensive chapters and additional documentation of the Operation manual which can be consider an operative synthesis of the documentation gathered and analysed. Additionally representatives of Ecole Nationale Supérieure d'Architecture (ENSA – ex EPAU) d'Alger – Laboratoire Architecture et Environment and the Université Abdelmalek Essadi (Morocco) and the participation of the Disaster and Emergency Management Presidency of the Republic of Turkey which attended some projects events, made available contribution available to public on the project website.

**Results:** available and updated project website and newsletters.

**Action C.3 – Publication and dissemination of joint leaflets, brochures, newsletters** (Responsible: AB1 - HERIMED with the contribution of other partner).

All project partners contributed in the distribution and dissemination of promotional material (joint newsletters and project sheets) through the project web site, HERIMED network and other additional channels.

In particular, we would like to mention that Narpimed project is advertised on the **Regional Review October 2010 newsletter** (issue N. 18, October 2010, page 8). This issue the staff take an in-depth look at **Open Days 2010** – the European week of regions and cities. With more than 6000 people – including policymakers and regional experts – gathered in Brussels, the eighth Open Days promises to be one of the most fruitful yet. Read more: <http://theparliament.com/regrdigimag/issue18>. The Regional Review is also published on Narpimed web site at: <http://www.narpimed.org/?p=627>. Special thanks go to the Head of Civil Protection, Molise Region and his Financial Administration Unit, which has made the financial effort out of the project funds to support this publication. Herimed has also supported all visibility actions and especially the promotion of the project through the Regional Review. Indeed we have started discussing ways to enhance and strengthen our cooperation with other members and network across Europe (sustainability of the project).

**Results:** four newsletter distribution, 1 advertisement page on Regional Review October 2010 newsletter.

**Action C.4 – Two thematic Seminars** (Responsible: AB4 - Kalivia with the contribution of other partner).

1st thematic SEMINAR was held on month 12 instead of month 4: outcomes are delivered on February 2010 instead of September 2009 (see the previous report). 2nd thematic SEMINAR was held on June 30th, 2010 in Granada (Spain) corresponding to Month 20.

**Results:** Minutes of the Project Seminars are available.

#### - Qualitative evaluation of the activities

See previous point.

## **6. Presentation of the technical results and deliverables (one section per deliverable)**

The deliverables are already listed and described at point 5.

Only a special mention is worth for the Operational Manual for Prevention. It has been increased in value with the contribution of other Mediterranean contribution of Algeria, Morocco and Turkey. Extended version of the manual is available on [www.narpimed.org](http://www.narpimed.org).

## **7. Evaluation of the technical results and deliverables**

From the State of the Art of the various mechanism of Civil Protection Organisation in the NARPIMED countries emerged some similarities and basically emerged that the Italian Civil Protection is some steps ahead for its organisation and management of emergencies of the civil, technical, military and voluntary forces and deserved to be taken as good practice for several aspects. Recommendation to EU institutions summarised as in the Operational Manual for Prevention: to go towards EU shared and unified methodology in the field of Civil Protection, cooperation in case of emergency acting together “on the field” can be of fundamental help to harmonise practices and tools. Can be desirable to have a legislative framework directive from EU which can coordinate the national civil protection structures.

## **8. Follow up**

Project implementation has become regular after the first period and in line with foreseen activities, therefore NARPIMED implementation can be considered on schedule despite the initial delay due to the earthquake of L'Aquila.

The good team spirit gained within the partnership allowed to achieve the project objectives obtained. Gathering events represented key moment of sharing the work and capitalise the effort made in the previous months. In the last and more intense period, 4 meeting occasion have been occurred, and this intensive schedule has been beneficial for project final accomplishments.

Furthermore, the analysis of documents of EU projects and EU directives on risk prevention has been an opportunity to identify the last progress in this field.

A special opportunity has been know in situ the effects and emergence response of the destructive earthquake of L'Aquila (Italy) during the reconnaissance to the affected zones. These experiences have transferred to IAGPDS group a first step in translational capacity on risk prevention.



## Consolidated Cost Statement for the Action

*ATTENTION/ to be completed only if the project involves one or more associated beneficiaries*

Part A: Eligible cost categories		Rate %	€	Part B: Financing Plan	€	% of eligible costs
A: Personnel			159.350,00	EC contribution*	235.363,52	74,42%
B: Travel and subsistence			43.026,37	Contribution of the coordinating beneficiary	26.241,64	8,30%
C: Equipment				Contribution of the associated beneficiary/ies	54.670,63	17,29%
D: Sub-contracting			113.899,41	Other sources of funding		0,00%
E: Other direct costs				Direct revenues		0,00%
Indirect costs / overheads		0,00%				
<b>TOTAL ELIGIBLE COSTS</b>			<b>316.275,78</b>			
				<b>TOTAL</b>	<b>316.275,78</b>	
				* eligible costs x EC-funding rate OR maximum EC-contribution, whatever is lower!		
<b>For information only</b>						
Estimation of "in kind" contributions / costs not included in the budget (ineligible costs)						