

Work And Budget Plan
ES1401 Grant Agreement Period 1
 01/01/2015 to 31/08/2015

Section I: Action Profile

Action General Information

Action Code	ES1401	MC Chair	Dr Andrea Morelli
Action Title	ES1401 - Time Dependent Seismology (TIDES)		
MOU	029/14	Draft MOU	oc-2013-2-16102
CSO Approval Date	2014-05-14		
Action Start Date	2014-11-03	Action End Date	2018-11-02
Science Officer	Dr Deniz Karaca	Administrative Officer	Ms Tania Gonzalez Ovin

Participating COST Member Countries and Cooperating State:

	ITC		Non-ITC		Total
Cost Countries having accepted the MOU	Number	10	Number	15	25
	% of all ITCs	40%	% of all non-ITCs	60%	
Number of MC Members	15		25		40

Country and Acceptance Date		
AT 14/10/2014	IE 27/08/2014	SK 19/09/2014
BE 25/11/2015	IT 31/07/2014	ES 22/05/2014
BG 17/07/2014	LU 29/09/2014	SE 09/09/2014
CZ 27/08/2014	MT 14/10/2014	CH 05/09/2014
FI 22/10/2015	NL 02/06/2014	TR 02/03/2015
FR 26/06/2014	NO 10/07/2014	UK 27/05/2014
DE 20/05/2014	PL 01/04/2015	MK 17/09/2015
EL 16/02/2015	PT 03/07/2014	
IS 30/09/2015	RS 27/01/2016	

Submitted : N/A

Generated : 2016-04-27 at 10:49 AM



International cooperation

	NNC	IPC	Specific Organisation	Total
Number of entities formally approved to join Action	2	0	0	2
Number of countries	2	0	0	2

Working Groups

	WG Title	WG Leader	Number of Members
WG1	Workflow integration of data and computing resources	Prof Heiner Igel	10
WG2	Seismic interferometry and ambient noise	Dr Martin Schimmel	10
WG3	Forward problems, High-performance computing applications	Dr Yann CAPDEVILLE	10
WG4	Seismic tomography, full waveform inversion, uncertainties	Prof Karin Sigloch	10
WG5	Applications in the natural environment and industry	Prof Christopher Bean	10

Section II: MoU objectives and Grant Agreement Period Goals and Activities

Action Objectives from MoU

Aim/primary Objective	The main objective of the Action is to (1) merge expertise in academia and industry on seismic data processing and modeling for inverse problems; (2) develop the emerging field of time-dependent seismology to monitor complex Earth systems.
Secondary objectives	<ul style="list-style-type: none"> • integration and validation of innovative data mining techniques and numerical methods • development of new design for massive field experiments • evaluation of uncertainties in full-waveform inversion and time-dependent tomography • development of strategies for real-time data assimilation • development of reliable techniques for monitoring active processes (earthquakes, volcanic eruptions, landslides,) • networking of top-level laboratories, coordination among academia and industry in time-dependent seismology • organization of effective exchange programs for early-stage researchers • catalysis of creative initiatives • stimulation of discussion with other data-driven disciplines, climate and ocean science, acoustics, geology, astrophysics

Grant Agreement Period

Grant Agreement Period Start Date	01/01/2015	Grant Agreement Period End Date	31/08/2015
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Grant Agreement Period Goals

Number	Grant Agreement Period Goal	MoU Objective(s) it relates to
GAPG 1	Improve in-depth and critical knowledge of instruments, data, and modeling techniques. Widen awareness of innovative observables and tools.	Aim/Primary objective Secondary objective 1 Secondary objective 8
GAPG 2	Promote short-term scientific missions and exchange among laboratories.	Aim/Primary objective Secondary objective 6 Secondary objective 7
GAPG 3	Monitor current Action activities and plan future ones	Aim/Primary objective

Section IV: Work and Budget Plan for the Grant Agreement Period

Work and Budget Plan Summary

A. COST Networking Tools	EUR
(1) Meetings	16,687.35
(2) Training Schools	49,430.72
(3) STSMs	0.00
(4) Dissemination	0.00
(5) Other Expenses Related to Scientific Activities	0.00
B. Total Science Expenditure (sum of (1) to (5))	66,118.07
C. FSAC (max. of 15% of B)	9,917.71
D. Total Expenditure (B+C)	76,035.78

Meetings

Overview

Meeting Title	Meeting Type	Dates	Location	ITC	Total Cost(EUR)
Meeting of the Management Committee	Management Committee Meeting, Core Group Meeting, Working Group Meeting	01/06/2015 - 05/06/2015	Bertinoro (FC) (Italy)	No	16,687.35
				Total	16,687.35

Details

Meeting Type	Management Committee Meeting, Core Group Meeting, Working Group Meeting		
Title of the Meeting	Meeting of the Management Committee		
Grant Period Goal(s) it will address	Monitor current Action activities and plan future ones		
Description	Meeting of the Management Committee		
Output(s)	Monitoring of Action process; planning of future actions		
Location	Bertinoro (FC) (Italy)	ITC	No
Start Date	2015-06-01 08:00:00	End Date	2015-06-05 17:00:00
Duration	5 days		
Number of expected total participants	26	Number of participants to be reimbursed from COST funds	26
Average reimbursement(per participant)(EUR)	542.00	Total Reimbursement costs (EUR)	14,092.00
Local Organiser Support (EUR)	2,595.35		
Total cost of the meeting (EUR)	16,687.35		

Training School

Overview

Title of the Training School	Dates	Location	ITC	Total Cost(EUR)
How to get the best out of seismic data? From instrument to simulation	01/06/2015 - 05/06/2015	Bertinoro (FC) (Italy)	No	49,430.72
			Total	49,430.72

Details

Title of the Training School	How to get the best out of seismic data? From instrument to simulation		
Grant Period Goal(s) it will address	Improve in-depth and critical knowledge of instruments, data, and modeling techniques. Widen awareness of innovative observables and tools., Promote short-term scientific missions and exchange among laboratories.		
Description	Training school on improving exploitation of data through use of new tools		
Output(s)	Train the new generation of earth scientist on innovative techniques		
Location	Bertinoro (FC) (Italy)	ITC	No
Start Date	2015-06-01 00:00:00	End Date	2015-06-05 00:00:00
Number of trainers	12	Number of trainees	80
Number of trainers to be reimbursed	12	Number of trainees to be reimbursed	54
Average trainer Reimbursement(EUR)	1,030.00	Average reimbursement per trainee(EUR)	545.00
Total trainer Reimbursement(EUR)	12,360.00	Total trainee Grant(EUR)	29,430.00
Local Organiser Support (EUR)	7,640.72		
Total cost of the Training School(EUR)	49,430.72		

STSM

Number	0
Average cost per STSM(EUR)	2,500.00
Total cost(EUR)	0.00

How will the STSMs contribute to the achievement of the Grant Period Goals?

Promote short-term scientific missions and exchange among laboratories.
Support exchange of young scientists among institutions in participating countries.
Increased diffusion of expertise and improvement of networking among laboratories