

## Work And Budget Plan

FP1405 Grant Agreement Period 3

01/05/2017 to 30/04/2018

### Section I: Action Profile

#### Action General Information

Action Code	FP1405	MC Chair	Ms Sanne Tiekstra
Action Title	FP1405 - Active and intelligent fibre-based packaging - innovation and market introduction (ActInPak)		
MOU	099/14	Draft MOU	oc-2014-1-18987
CSO Approval Date	2014-11-13		
Action Start Date	2015-03-20	Action End Date	2019-03-19
Science Officer	Dr Fatima Bouchama	Administrative Officer	Ms Andrea Tortajada

#### Participating COST Members:

	ITC		Non-ITC		Total
COST Members (countries) having accepted the MoU	Number	17	Number	16	33
	% of all ITCs	51.52%	% of all non-ITCs	48.48%	
Number of Action MC members	30		32		62

COST Member and Acceptance Date		
AT 17/12/2014	EL 16/02/2015	PT 04/02/2015
BE 10/02/2015	HU 28/11/2014	RO 30/01/2015
BA 26/02/2016	IE 07/04/2015	RS 20/02/2015
BG 10/12/2014	IL 18/12/2015	SK 15/03/2015
HR 12/01/2015	IT 30/01/2015	SI 24/11/2014
CY 25/05/2016	LV 27/10/2016	ES 10/12/2014
CZ 16/02/2015	LT 13/04/2015	SE 26/01/2015
DK 05/12/2014	LU 08/12/2014	CH 16/03/2015
FI 09/12/2014	NL 24/11/2014	TR 16/03/2015
FR 03/12/2014	NO 23/03/2015	UK 18/11/2014
DE 05/12/2014	PL 05/12/2014	MK 22/11/2016

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### International cooperation

	NNC	IPC	Specific Organisation	Total
Number of entities formally approved to join Action	0	5	0	5
Number of countries	0	5	0	5

### Working Groups

	WG Title	WG Leader	Number of WG members
WG1	Development/Innovation	Prof Selçuk Yildirim	85
WG2	Industrialisation/Market introduction	Dr Johanna Lahti	40
WG3	LCA/Sustainability issues, health and safety	Mr Grzegorz Ganczewski	30
WG4	Knowledge transfer and dissemination	Dr David Ravnjak	27

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

### Action Objectives from MoU

Aim/primary Objective
<p>The main objective of the Action is to develop a knowledge-based network on sustainable, active and intelligent fibre-based packaging in order to overcome current technological, industrial, and social limitations that hinder the wide deployment of existing and newly developed solutions in market applications.</p>
Secondary objectives
<ol style="list-style-type: none"> <li data-bbox="236 667 1434 840">1.  To direct future innovations and contribute to existing development efforts into scientific/technical research into fibre-based materials, new additives and techniques for active and intelligent functions.</li> <li data-bbox="236 869 1434 1019">2.  To identify market demands, possibilities and any obstacles to market introduction of active and intelligent fibre-based packaging.</li> <li data-bbox="236 1048 1434 1176">3.  Identify the technical limits and opportunities for development of active and intelligent fibre-based packaging.</li> <li data-bbox="236 1205 1434 1332">4.  Identify market demands and supply chain challenges to ensure easy introduction of smart packaging.</li> <li data-bbox="236 1361 1434 1467">5.  Identify sustainability, health and safety issues.</li> <li data-bbox="236 1496 1434 1601">6.  Disseminate knowledge to industry and society.</li> </ol>

### Grant Agreement Period

Grant Agreement Period Start Date	01/05/2017	Grant Agreement Period End Date	30/04/2018
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### Grant Agreement Period Goals

Number	Grant Agreement Period Goal	MoU Objective(s) it relates to
GAPG 1	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.	<ul style="list-style-type: none"> <li>• Aim/Primary objective</li> <li>• Secondary objective 1</li> <li>• Secondary objective 2</li> <li>• Secondary objective 3</li> <li>• Secondary objective 4</li> </ul>
GAPG 2	Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging.	<ul style="list-style-type: none"> <li>• Aim/Primary objective</li> <li>• Secondary objective 1</li> <li>• Secondary objective 2</li> <li>• Secondary objective 3</li> <li>• Secondary objective 4</li> <li>• Secondary objective 6</li> </ul>
GAPG 3	Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Active and Intelligent Packaging to industry and general public.	<ul style="list-style-type: none"> <li>• Aim/Primary objective</li> <li>• Secondary objective 5</li> </ul>

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

### Work and Budget Plan Summary

<b>A. COST Networking Tools</b>	EUR
(1) Meetings	100,550.00
(2) Training Schools	17,120.00
(3) Short Term Scientific Missions (STSM)	20,000.00
(4) COST Action Dissemination	6,225.00
(5) Other Expenses Related to Scientific Activities (OERSA)	450.00
<b>B. Total Science Expenditure (sum of (1) to (5))</b>	144,345.00
<b>C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)</b>	21,651.75
<b>Total Grant (B+C)</b>	165,996.75

## Meetings

### Overview

Meeting Title	Meeting Type	Dates	Location	ITC	Total Cost(EUR)
Roadmapping workshop	Working Group Meeting, Workshops/Conferences	13/09/2017 - 13/09/2017	Budapest (Hungary)	Yes	20,650.00
Application and communication	Management Committee Meeting, Working Group Meeting, Workshops/Conferences	07/11/2017 - 09/11/2017	Rehovot (Israel)	No	72,800.00
SG meeting	Core Group Meeting	11/01/2018 - 11/01/2018	Luxembourg (Luxembourg)	Yes	7,100.00
				Total	100,550.00

### Details

Meeting Type	Working Group Meeting, Workshops/Conferences		
Title of the Meeting	Roadmapping workshop		
Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.		
Description	Workshop for WGs: Roadmapping workshop in which WGs will evaluate developed technologies to select most promising ones, based on review papers and draft a roadmap to direct future work.		
Output(s)	Selection of most promising technologies // Draft of a roadmap //		
Location	Budapest (Hungary)	ITC	Yes
Start Date	2017-09-13 09:00:00	End Date	2017-09-13 18:00:00
Duration	1 day		
Number of expected total participants	50	Number of participants to be reimbursed from COST funds	35
Average reimbursement(per participant)(EUR)	570.00	Total Reimbursement costs (EUR)	19,950.00
Local Organiser Support (EUR)	700.00		
Total cost of the meeting (EUR)	20,650.00		

Meeting Type	Management Committee Meeting, Working Group Meeting, Workshops/Conferences
Title of the Meeting	Application and communication

Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.,Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging.,Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Active and Intelligent Packaging to industry and general public.		
Description	Based on the successful meeting in November 2016 in Bled, Slovenia, the program will be as follows: 7-11 from 14:00 to 17:00 Management Committee Meeting // 8-11 from 9:00 to 17:00 conference with a focus on social sciences and application/implementation, as well as a design workshop. Within this day, the participants will be asked to envision a scenario and make a prototype as a step forward from the demonstrators that were decided upon in the previous GPs. The workshop should be attended by different industries, scientists to be able to benefit from cross-sectoral approaches. // 9-11 from 9:00 to 13:00 will be reserved for Working Group meetings to follow up on previous meetings and work and draft further activities. // within this meeting also the winner of the student contest will present the results, as well as STSM students will be invited to present their work. Furthermore, industry will be gathered and actively invited to participate.		
Output(s)	Final drafts of roadmaps // Experiences and results from the student contest launched in GP2 // Experiences and results from STSM students // Workshop and conference presentations and proceedings (in electronic format), preferably // Awareness amongst industry //		
Location	Rehovot (Israel)	ITC	No
Start Date	2017-11-07 14:00:00	End Date	2017-11-09 13:00:00
Duration	3 days		
Number of expected total participants	100	Number of participants to be reimbursed from COST funds	70
Average reimbursement(per participant)(EUR)	980.00	Total Reimbursement costs (EUR)	68,600.00
Local Organiser Support (EUR)	4,200.00		
Total cost of the meeting (EUR)	72,800.00		

Meeting Type	Core Group Meeting
Title of the Meeting	SG meeting
Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.,Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging.,Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Active and Intelligent Packaging to

	industry and general public.		
Description	Steering Group meeting to evaluate GP3 and draft the WBP for GP4.		
Output(s)	GP4 WBP draft // Evaluation of GP3		
Location	Luxembourg (Luxembourg)	ITC	Yes
Start Date	2018-01-11 09:00:00	End Date	2018-01-11 17:00:00
Duration	1 day		
Number of expected total participants	10	Number of participants to be reimbursed from COST funds	10
Average reimbursement(per participant)(EUR)	710.00	Total Reimbursement costs (EUR)	7,100.00
Local Organiser Support (EUR)	0.00		
Total cost of the meeting (EUR)	7,100.00		



## Training Schools

### Overview

Title of the Training School	Dates	Location	ITC	Total Cost(EUR)
Active and intelligent solutions for packaging applications: A Summer School	12/06/2017 - 16/06/2017	Tampere (Finland)	No	17,120.00
			Total	17,120.00

### Details

Title of the Training School	Active and intelligent solutions for packaging applications: A Summer School		
Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.,Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Acitve and Intelligent Packaging to industry and general public.		
Description	5 days Training School to bring together leading speakers from academia as well as industry across Europe and deliver an introduction on the topic "Active and intelligent solutions for packaging applications". The Training School will be hosted by Tampere University of Technology in Tampere, Finland, and scientifically supported by Abo Akademi in Turku, Finland. The Training School will cover a.o. packaging materials, production techniques, A&I solutions, food contact, sustainability, and include practical work such as pilot coater, labwork, LCA Workshop.		
Output(s)	For trainees: better understanding of applications of active and intelligent technologies in packaging. For the Action: awareness amongst and cooperation with industry participants.		
Location	Tampere (Finland)	ITC	No
Start Date	2017-06-12 10:00:00	End Date	2017-06-16 16:00:00
Number of trainers	10	Number of trainees	30
Number of trainers to be reimbursed	6	Number of trainees to be reimbursed	15
Average trainer Reimbursement(EUR)	820.00	Average reimbursement per trainee(EUR)	700.00
Total trainer Reimbursement(EUR)	4,920.00	Total trainee Grant(EUR)	10,500.00
Local Organiser Support (EUR)	1,700.00		
Total cost of the Training School(EUR)	17,120.00		

### Short Term Scientific Missions (STSM)

Number	Average cost per STSM(EUR)	Total cost(EUR)
8	2,500.00	20,000.00
Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.,Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging.,Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Active and Intelligent Packaging to industry and general public.	
Description	At least 8 STSMs should be executed by the end of GP2, preferably from science to industry or v.v. and focused towards the three demonstrators as targeted by the different Working Groups. The STSMs will be supported by the execution of a student contest in which students are invited to work on either a design or a business case (launched November 2016).	
Output(s)	Contribution of experience in the analysis of state-of-the-art, boundary conditions, and most promising scientific developments // Initiation of collaboration between laboratories // Reports on the STSM activities, in the form of a presentation during the next meeting and a video to be uploaded on the Action website, LinkedIn page and other social media. //	

### COST Action Dissemination

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Website update and maintenance	Action Website	University of Ljubljana	30/04/2018	1,500.00
Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry.,Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging.,Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Active and Intelligent Packaging to industry and general public.			
Description	Update and maintenance of the website to increase awareness about active and intelligent packaging through whole value chain and society.			
Output(s)	Up to date website <a href="http://www.actinpak.eu">www.actinpak.eu</a>			

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Demonstration of active and intelligent packaging	Multi-media	to be decided based on offers (best price-quality)	30/04/2018	2,000.00

Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry., Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging., Sustainability analysis of Active and Intelligent demonstrators (defined in GP2) to be able to finalise case studies that show the potential and opportunities of Active and Intelligent Packaging to industry and general public.
Description	Three different videos to explain the developed demonstration cases for active and intelligent packaging towards society, preferably children. This to create awareness but mainly to communicate the advantages of the technologies.
Output(s)	Awareness and understanding within society, at all levels, in order to gain acceptance for a&i packaging, willingness to buy, assure people of the safety, and generate interest in research in general.

Title	Type	Publisher/provider	Expected date of Release	Cost(EUR)
Scientific papers	Electronic publication	to be decided based on the best fit for purpose	30/04/2018	2,725.00
Grant Period Goal(s) it will address	Identification of future challenges to successful market introduction of Active and Intelligent Packaging in order to develop a roadmap to direct scientific activities to support industry., Input from social sciences on application, design, and communication will be gathered in order to define their role in the development of Active and Intelligent Packaging.			
Description	Publication of scientific papers as prepared by WG1, WG2, WG3. Preferably, 1 electronic paper under Open Access is foreseen for each WG to publish the Action's work done.			
Output(s)	Direct future scientific research by dissemination of ActInPak findings and results			

Total Disseminations	6,225.00
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### Other Expenses Related to Scientific Activities (OERSA)

Item	Cost(EUR)
Bank costs	450.00



## WORKPLAN

### Annex A - Work And Budget plan

#### FP1405

Active and intelligent fibre-based packaging - innovation and market introduction (ActInPak)

Grant Period from 01/05/2017 to 30/04/2018

#### Summary Budget

Networking Tool	Quant.	Budget
Meetings	3	100550.00 EUR
Training Schools	1	17120.00 EUR
Short Term Scientific Missions (STSM)	8	20000.00 EUR
COST Action Dissemination	3	6225.00 EUR
Other Expenses Related to Scientific Activities (OERSA)	1	450.00 EUR
		<b>SCIENCE EXPENDITURE : 144345.00 EUR</b>
Financial and Scientific Administration and Coordination (FSAC) - MAX. 15%	15%	21651.75 EUR
		<b>TOTAL GRANT : 165996.75 EUR</b>

Signature : \_\_\_\_\_

Date : \_\_\_\_\_



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## Indicative Information

### Details for Meetings

#### Meeting 1

<b>Type :</b>	Working Group Meeting, Workshops/Conferences
<b>Title :</b>	Roadmapping workshop
<b>Location :</b>	Budapest (Hungary)
<b>Date :</b>	13/09/2017 - 13/09/2017
<b>Total Participants :</b>	50
<b>Total Reimbursed :</b>	35
<b>Hasderogation :</b>	
<b>Travel Costs :</b>	19950.00 EUR
<b>Local Organiser Support :</b>	700.00 EUR

#### Meeting 2

<b>Type :</b>	Management Committee Meeting, Working Group Meeting, Workshops/Conferences
<b>Title :</b>	Application and communication
<b>Location :</b>	Rehovot (Israel)
<b>Date :</b>	07/11/2017 - 09/11/2017
<b>Total Participants :</b>	100
<b>Total Reimbursed :</b>	70
<b>Hasderogation :</b>	
<b>Travel Costs :</b>	68600.00 EUR
<b>Local Organiser Support :</b>	4200.00 EUR

#### Meeting 3

<b>Type :</b>	Core Group Meeting
<b>Title :</b>	SG meeting
<b>Location :</b>	Luxembourg (Luxembourg)
<b>Date :</b>	11/01/2018 - 11/01/2018
<b>Total Participants :</b>	10
<b>Total Reimbursed :</b>	10
<b>Hasderogation :</b>	
<b>Travel Costs :</b>	7100.00 EUR
<b>Local Organiser Support :</b>	0.00 EUR

### Details for Training Schools

#### Training School 1

<b>Title :</b>	Active and intelligent solutions for packaging applications: A Summer School
<b>Location :</b>	Tampere (Finland)
<b>Date :</b>	12/06/2017 - 16/06/2017
<b>Number Of Trainers :</b>	10



**Number Of Trainees :** 30  
**Travel Costs Trainers :** 4920.00 EUR  
**Travel Costs Trainees :** 10500.00 EUR  
**Local Organiser Support :** 1700.00 EUR

### Details for Short Term Scientific Missions (STSM)

#### STSM Summary

**Number Of STSMs :** 8  
**Amount Per STSM :** 2500.00 EUR  
**Total Budget For STSMs :** 20000.00 EUR

### Details for COST Action Dissemination

#### Item 1

**Title :** Website update and maintenance  
**Expected Release Date :** 30/04/2018  
**Publisher Or Supplier :** University of Ljubljana  
**Type :** Action Website  
**Amount :** 1500.00 EUR

#### Item 2

**Title :** Demonstration of active and intelligent packaging  
**Expected Release Date :** 30/04/2018  
**Publisher Or Supplier :** to be decided based on offers (best price-quality)  
**Type :** Multi-media  
**Amount :** 2000.00 EUR

#### Item 3

**Title :** Scientific papers  
**Expected Release Date :** 30/04/2018  
**Publisher Or Supplier :** to be decided based on the best fit for purpose  
**Type :** Electronic publication  
**Amount :** 2725.00 EUR

### Details for Other Expenses Related to Scientific Activities (OERSA)

#### Expense 1

**Title :** Bank costs  
**Amount :** 450.00 EUR

