

COST Action ES1408:

European Network for Algal-Bioproductions

ORGANIZACIÓN Y GESTIÓN DE ACTIVIDADES

Cristina González

30.01.2018



EUROPEAN NETWORK FOR ALGAE-BIOPRODUCTS



ORGANIZATION- EUALGAE

Start of Action	24/03/2015
End of Action	23/03/2019

11 countries proposal
3 non COST countries
???? Researchers

Grant Holder: IMDEA Energy



ORGANIZATION

27 countries
4 non COST countries
179 researchers



ESSEM COST Action ES1408

Parties

Action details

MoU	094/14
CSO Approval date	13/11/2014
Start of Action	24/03/2015
End of Action	23/03/2019

Participations

Country	Date	Status
▶ Belgium	10/02/2015	Confirmed
▶ Croatia	08/09/2015	Confirmed
▶ Cyprus	21/01/2015	Confirmed
▶ Czech Republic	15/09/2016	Confirmed
▶ Denmark	11/12/2014	Confirmed
▶ France	03/03/2015	Confirmed
▶ Germany	01/12/2014	Confirmed
▶ Greece	16/12/2014	Confirmed
▶ Hungary	02/11/2016	Confirmed
▶ Iceland	26/11/2014	Confirmed
▶ Ireland	23/12/2014	Confirmed
▶ Israel	24/02/2015	Confirmed
▶ Italy	20/02/2015	Confirmed
▶ Latvia	23/07/2015	Confirmed
▶ Lithuania	14/04/2015	Confirmed
▶ Netherlands	03/02/2015	Confirmed
▶ Norway	14/01/2015	Confirmed
▶ Poland	02/04/2015	Confirmed
▶ Portugal	03/02/2015	Confirmed
▶ Romania	03/07/2015	Confirmed
▶ Serbia	31/01/2015	Confirmed
▶ Slovenia	18/03/2015	Confirmed
▶ Spain	20/11/2014	Confirmed
▶ Sweden	16/10/2015	Confirmed
▶ Switzerland	10/02/2015	Confirmed
▶ Turkey	16/04/2015	Confirmed
▶ United Kingdom	19/03/2015	Confirmed
Total: 27		

Earth System Science and Environmental Management COST Action ES1408

- ▶ Description
- ▶ Parties
- ▶ Management Committee

General Information*

Chair of the Action:
[Dr Cristina GONZALEZ](#) (ES)

Vice Chair of the Action:
[Dr Luísa GOUVEIA](#) (PT)

Science officer of the Action:
[Dr Deniz KARACA](#)

Administrative officer of the Action:
[Ms Tania GONZALEZ OVIN](#)

Downloads*

Action Fact Sheet
[Download AFS as .RTF](#)

Memorandum of Understanding
[Download MoU as PDF](#)

Websites*

Action website:
<http://www.eualgae.eu>

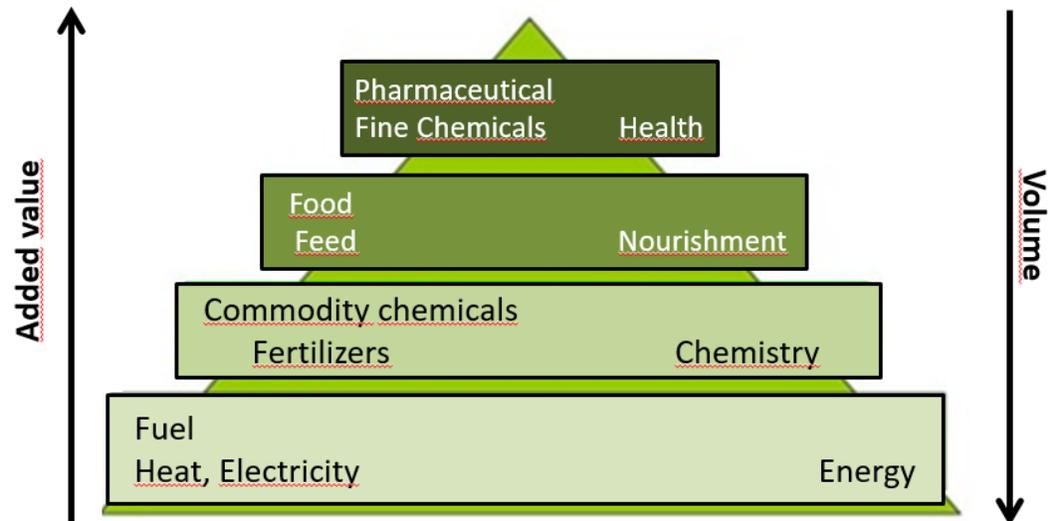
* content provided by e-COST.
Data is synchronised once per night.

ORGANIZATION- EUALGAE

Microalgae Bioproducts



www.energy.imdea.org



ORGANIZATION- EUALGAE



Management Committee
Up to two members of each participating country



Microalgae productivity



Harvesting and cell disruption



High-value products



Sub-products valorization



**Environmental impacts
Technoeconomic analysis**

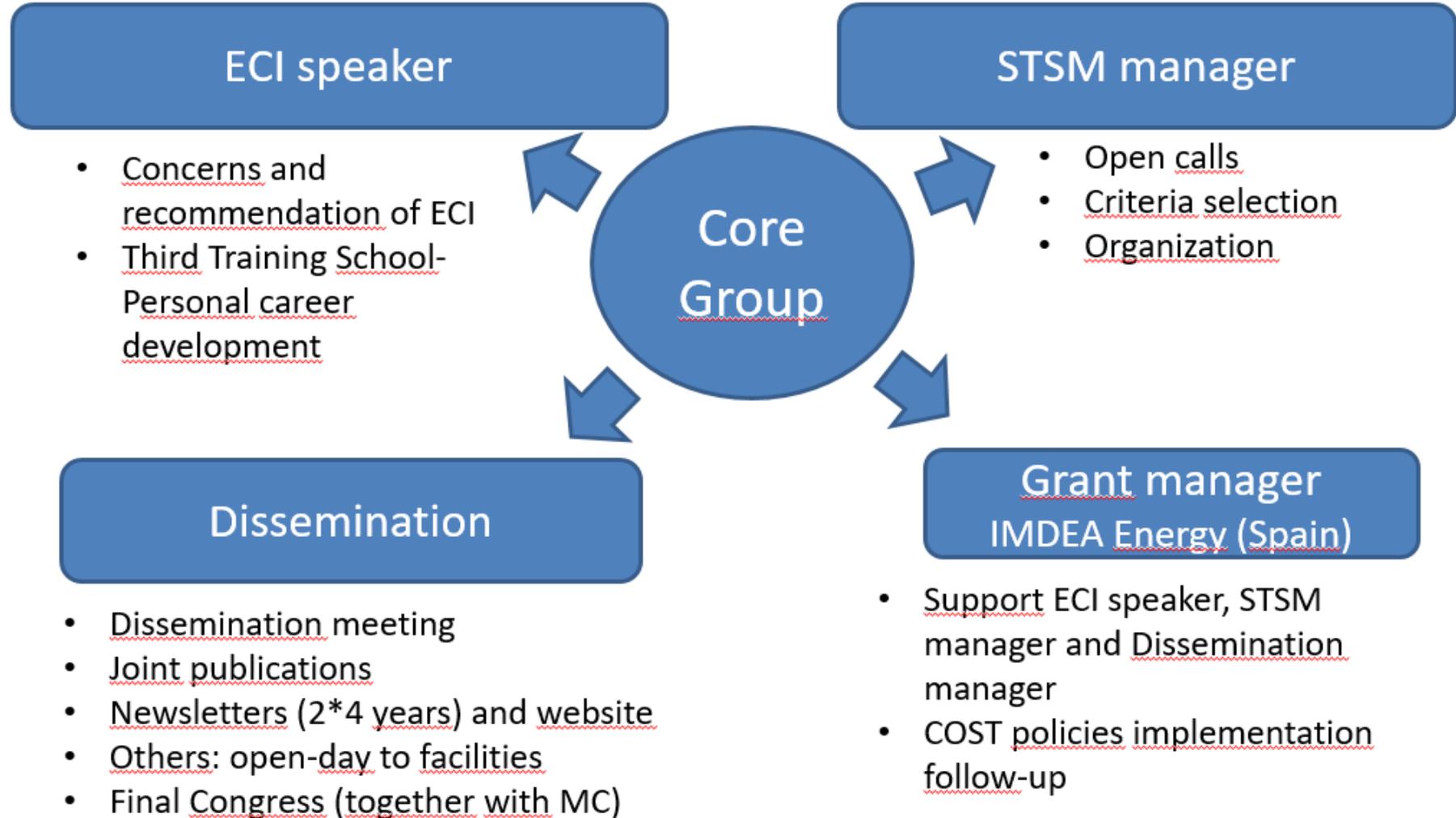


EUALGAE Organization

Chair: Cristina Gonzalez (Spain)

ViceChair: Luisa Gouveia (Portugal)

Grant Holder: IMDEA Energy (Spain)





COST Action –EUALGAE- Activities

- ✓ Meetings, Workshops and Conferences
- ✓ Short-Term Scientific Missions (STSM)
- ✓ Training Schools
- ✓ Dissemination Activities and Publications



MEETINGS

Kick off meeting in Brussels (24.03.2015)
First MC and WG meeting in Dublin (14-16.10.2015)
Second MC and WG meeting in Madrid (3.02.2016)
Meeting with industries Slovenia (1-2.03.2017)
MC meeting Slovenia (03.03.2017)
MC meeting Greece (07.03.2018)

CONFERENCES

ACHEMA, Frankfurt (Germany), 15-19 June 2015- Cristina Gonzalez
IX Congreso Internacional de Ingeniería Bioquímica, XX Congreso Nacional de Ingeniería Bioquímica, Veracruz (Mexico), 16-18 March 2016- Luisa Gouveia
AlgaEurope , Madrid (Spain), 13-15 December 2016- Cristina Gonzalez
EUALGAE in the Workshop “European algae production, with major focus on needs assessment and strategies to bridge the knowledge gaps in production, processing and economic statistics” G. Torzillo and K. Muylaert. Organized by JRC, FAO, COST Actions Phycomorph and EUALGAE, Brussels (Belgium) 5th and 6th of October 2017



WORKSHOPS

April 2016 at Valladolid University (Spain)
“1st EUAlgae Workshop of Algae Bioproducts for Early Career Investigators”

18 ECI from 11 countries



WORKSHOPS

March 2018 at Thessaloniki University (Greece)
“2nd EUAlgae Workshop of Algae Bioproducts for Early Career Investigators”



Short-Term Scientific Missions (STSM) EUALGAE- Activities

Nº	STSM Topic	Participant	Affiliation	HOST
1	Use of metabolic modeling for terpenoid production enhancement	Mr Konstantinos Vavitsas	University of Copenhagen (DN)	University of Iceland (IS)
2	Application of milking process in the Botryococcus braunii production	Ms Judit Martin Juarez	University of Valladolid (ES)	Wageningen University (NL)
3	Biogas upgrading using an algal-bacterial photobioreactor	Ms ANA-MARIA GALAN	The National Institute for Research & Development in Chemistry and Petrochemistry (RO)	University of Valladolid (ES)
4	Supercritical CO2 extraction of hydrocarbons from B. braunii with an emphasis on cell viability	Ms Ece YILDIZ OZTURK	Ege University (TR)	Wageningen University (NL)

Nº	STSM Topic	Participant	Affiliation	HOST
1	Optimising micro-algal protein extraction and characterisation of bioactivities and techno-functional attributes	Ms Ana Lorenzo	Universidad de Valladolid, Valladolid (ES)	Teagasc - Food Research Center (IE)
2	Life cycle assessment of algal-bacterial photobioreactors for biogas upgrading	Dr Ana Ferreira	Universidade de Lisboa (PT)	University of Valladolid (ES)
3	Microalgae in savoury food bioproducts – evaluation of in vitro digestibility and antioxidant activity	Dr Ana Paula Batista	Universidade de Lisboa (PT)	University of Florence (IT)
4	Pretreatment of microalgae by in-situ enzymes for enhanced biogas production	Ms Ece Kendir	Hacettepe University (TR)	IMDEA Energy Institute (ES)
5	Dinoflagellates for sustained supply of active compounds in optimized photobioreactors	Ms Joana Assunção	Universidade do Porto (PT)	University of Almería (ES)
6	Wastewater treatment and biogas production: a comparison of green algae and diatoms	Dr Jelena Godrijan	Ruder Boškovic Institute (HR)	IMDEA Energy (Spain)
7	Optimization of Tetraselmis species growth, productivity and harvest	Dr Mariana Carneiro	Universidade do Porto (PT)	Universidade de Santiago de Compostela (ES)
8	Transfer of knowledge to operate glass column photo-bioreactors	Mr Adrian Pulgarin	EPFL (CH)	Institute of Microbiology (CZ)
9	Suitability of Microalgae to Biodiesel Production	Ms Vânia Pôjo	Universidade do Porto (PT)	Universidade de Santiago de Compostela (ES)



Training Schools- EUALGAE- Activities

The **1st Training School** “Microalgae based processes: upstream and downstream” was held in Lisbon (Portugal) from 9th to 11th of November 2016

19 PhD students
from **15 countries**

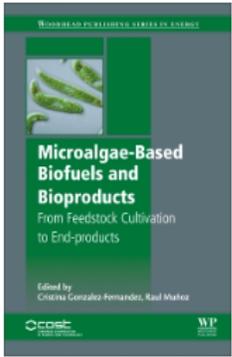


The **2nd Training School** “Microalgae processes: from fundamentals to industrial scale” was held in Almería (Spain) from 13th to 15th of September 2017.

30 PhD students
from **11 countries**



Dissemination Activities and Publications- EUALGAE- Activities



Microalgae-Based Biofuels and Bioproducts

1st Edition

From Feedstock Cultivation to End-Products

☆☆☆☆☆ Write a review

Editors: Raul Muñoz, Cristina Gonzalez-Fernandez

eBook ISBN: 9780081010273

Hardcover ISBN: 9780081010235

Imprint: Woodhead Publishing

Published Date: 13th June 2017

Page Count: 560



ELSEVIER

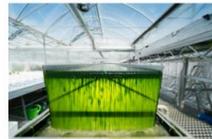


NEWSLETTER #1

December 23rd, 2015

About EUAlgae COST Action ES1408

Fossil fuel covers the majority of our energetic and chemical needs. However, fossil fuels are limited and the petrochemical industry has a negative impact on the environment.



Biomass, as a renewable source, is attracting worldwide attention to satisfy this demand in the so-called bioeconomy. Conventional biomass feedstocks remain controversial due to the limited land availability and competition with food and feed production.

Microalgae represent a promising alternative renewable source since they can be cultivated on non-arable land. Furthermore, microalgae remove and recycle nutrients from wastewater and flue-gases, thus providing additional environmental benefits.

Investigating the production of non-fuel products could play a major role in turning economic and energy balances more favorable. Microalgae offer interesting applications in the nutrition field being high in antioxidants, pigments, polyunsaturated fatty acids and proteins.

This COST Action proposes the establishment of a European network sharing a common goal: development of an economical feasible model for the commercialization of algae-based bioproducts. EUALGAE is created to stimulate not only interaction among research groups across Europe but also to foster cooperation between academia and industry. This scientific platform will generate a synergistic approach for utilization of microalgae biomass for sustainable fuels and fine chemical products.

www.eualgae.eu European Network for Algal-Bioproducts @EuAlgae



NEWSLETTER #2

May, 2016

Second Working Group Meeting in Madrid

The second Working Group (WG) meeting of the EUAlgae COST Action was held in the premises of IMDEA Energy (Grant Holder) on 3rd February 2016.

46 researchers from 20 countries participated in the event. Local support for the organization of this meeting was provided by IMDEA Energy.

The participants had the opportunity to meet new Action participants and to visit the installations of the host institution. Several european calls were identified for collaboration further between the participating research groups and the website of the Actions was presented.



First Workshop of Algae Bioproducts for Early Career Investigators



On 4th April 2016, Valladolid University (Spain) organized the "1st EUAlgae Workshop of Algae Bioproducts for Early Career Investigators" within the framework of the EUAlgae COST Action. 16 young researchers from 11 countries attended the event.

www.eualgae.eu European Network for Algal-Bioproducts: ES1408 @EuAlgae



NEWSLETTER #3

June, 2017

On the 30th April finished the Second Grant Period of the EUAlgae COST Action. During these first two years, the network has increased its size considerably and actually more than 160 researchers are part of it. During this last year Czech Republic and Hungary joined the Action. So far, EUAlgae involves researchers from 27 countries.

New institution Escuela Superior Politécnica del Litoral (ESPOL) from Ecuador, has joined the other 3 COST International Partner Countries of the Action: the United States, Mexico and New Zealand.



www.eualgae.eu European Network for Algal-Bioproducts: ES1408 @EuAlgae

EUALGAE- Activities

PARA TODAS LAS ACTIVIDADES HAY QUE JUSTIFICAR COMO SE HACEN Y A QUIEN SE SELECCIONA

PARA CASI TODAS LAS ACTIVIDADES HAY QUE DISEÑAR UN PROTOCOLO DE ACTUACIÓN

- * STSM
- * ECI WORKSHOP
- * MC
- * TRAINING SCHOOLS



Desde el principio:

- plan de comunicación interno
- protocolos de selección para todas las actividades
- si es una red muy grande, mandato a Core Group



COST Vademecum:

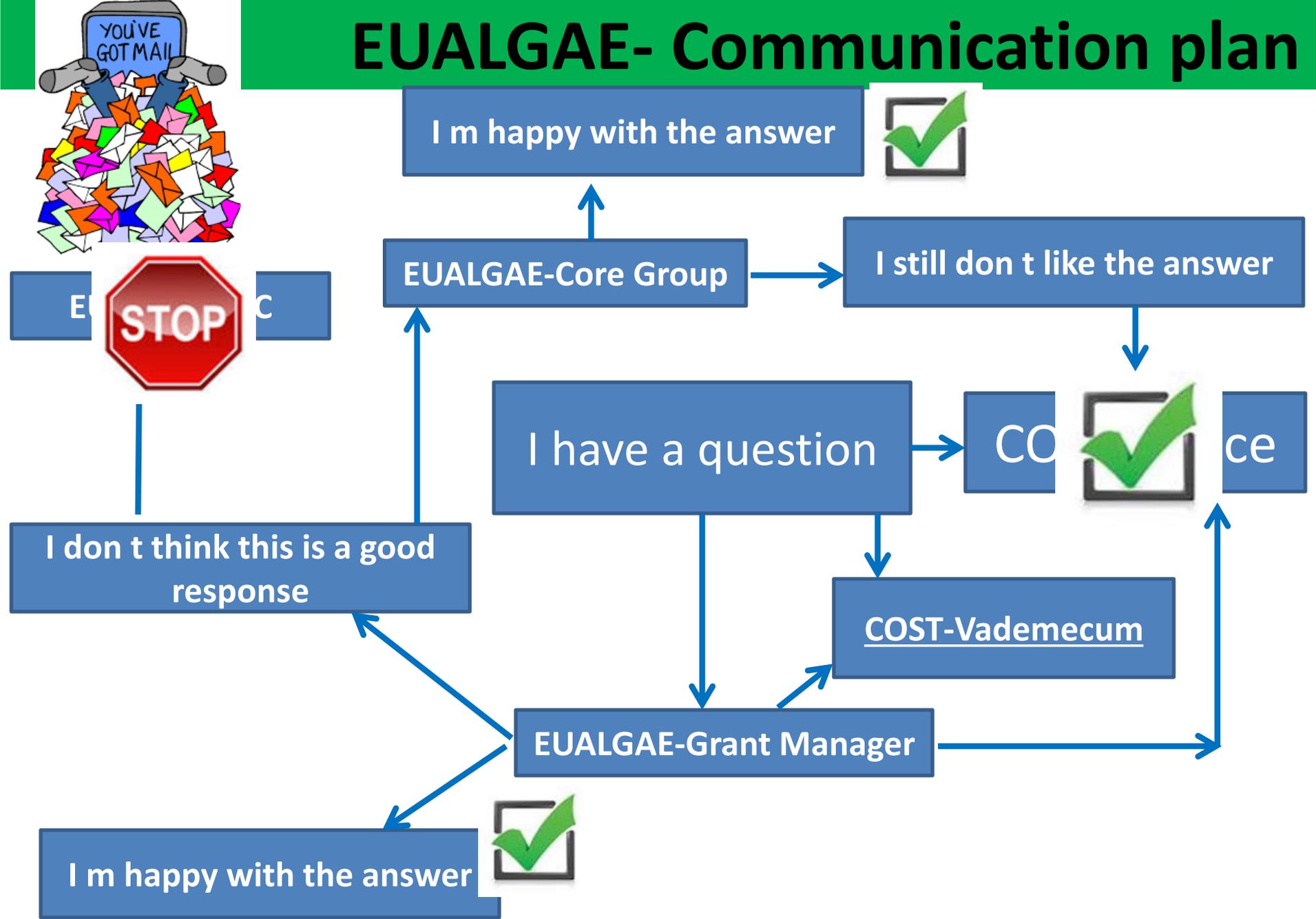
“The MC can also take decisions by means of a ‘written procedure’ which involves the Action Chair sending a communication, by email, detailing the need for **MC approval to the entire MC or Core Group (subject to the Core Group having the formal mandate to make decisions on behalf of the MC)** and must specify a date (of at least 7 days) up to which any MC Member or Core Group Member can contest their disapproval for implementing the proposed change. This ‘written procedure’ is commonly known as an “e-vote” and operates on the premise of presumed consent which means that if MC Members do not respond directly to the respective notifications within at set time frame (of at least 7 days), then the Action Chair and Grant Holder can assume that the MC are in agreement with the decision and can consider the resultant changes as being MC approved.

Core Group: Chair, ViceChair, 5WG leaders, STSM manager,

ECI speaker and Dissemination manager



EUALGAE- Communication plan



COST Action ES1408:

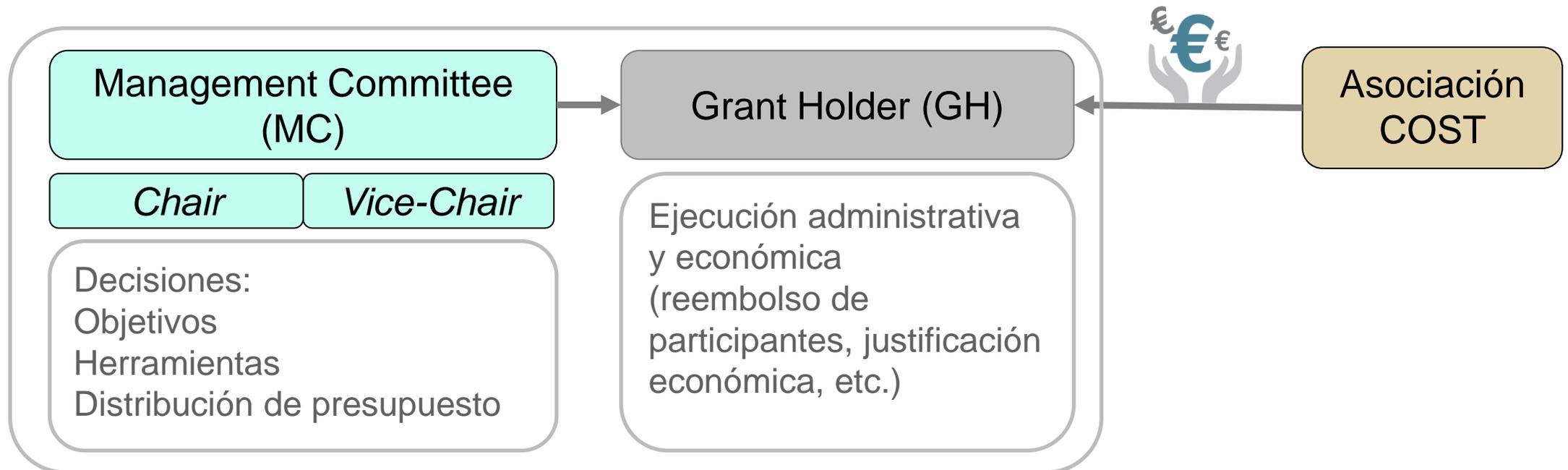
European Network for Algal- Bioproducts

Radoslava Metodieva



Grant Holder (GH)

- Entidad legal seleccionada por el Comité de Gestión (Management Committee - MC).
- Responsable de la ejecución administrativa y económica de la Acción ante la Asociación COST.



Grant Holder (GH)

Scientific coordination

- Apoyo al MC de la Acción en la elaboración de los informes científicos

Administrative responsibilities

- Preparación de documentos para las reuniones
- Coordinación de las reuniones de la Acción
- Archivo de documentación de los procesos de reembolso y los pagos asociados
- Archivo de documentación relacionada con las decisiones del MC
- Apoyo en diseminación, creación y gestión de la página web, etc.

Financial responsibilities

- Gestión de solicitudes de reembolso
- Asegurar que los pagos se han realizado en línea con las decisiones del MC y los criterios de elegibilidad del COST
- Preparación y presentación de los informes financieros

FSAC – Financial Scientific and Administrative
Coordination tasks budget line – max. 15% del Grant

COST Action Grant Agreement

AGA-ES1408-3

COST Action ES1408

European network for algal-bioproducts (EUALGAE)

1 por cada Grant Period (habitualmente de 12 meses)

Condiciones del Grant

- Máxima subvención a percibir en el Grant Period.
- Condiciones de pago:

1º pago	50% del Grant	<i>Inicio (tener en cuenta actividades iniciales)</i>
2º pago	35% del Grant	<i>Previo Informe Intermedio</i>
3º pago	max. 15% Grant	<i>Con Informe Final</i>

- Devolución de fondos no utilizados en el período en curso.
- Fija el porcentaje de la partida FSAC para el Grant Holder
- El W&B Plan (Anexo A):
 - ✓ Forma parte del Grant Agreement (Anexo A). Carácter contractual
 - ✓ Desglosa el presupuesto por partidas según las actividades planificadas
 - ✓ Debe ser validado y aprobado previamente por los COST Officers y el MC
- Vademecum (Anexo B)

Plan de Trabajo (W&B Plan) y Presupuesto

WORKPLAN

Annex A - Work And Budget plan - R I ES1408

European network for algal-bioproducts (EUALGAE)
Grant Period from 01/05/2017 to 30/04/2018

Summary Budget

Networking Tool	Quant.	Budget
Meetings	2	31844.24 EUR
Training Schools	1	33250.00 EUR
Short Term Scientific Missions (STSM)	16	40000.00 EUR
ITC Conference Grant	10	23810.50 EUR
COST Action Dissemination	1	1500.00 EUR
Other Expenses Related to Scientific Activities (OERSA)	1	30.00 EUR
		SCIENCE EXPENDITURE : 130434.74 EUR
Financial and Scientific Administration and Coordination (FSAC) - MAX. 15%	15%	19565.21 EUR
		TOTAL GRANT : 149999.95 EUR



Ejecución y Justificación

<https://e-services.cost.eu>



Grant Period Overview

Meetings

Training Schools

STSMs

ITC Conference Grants

Action Dissemination

OERSA

Reports

« Management Tool

Actions / ES1408 / Periods / Manage

Financial Period: AGA-ES1408-3

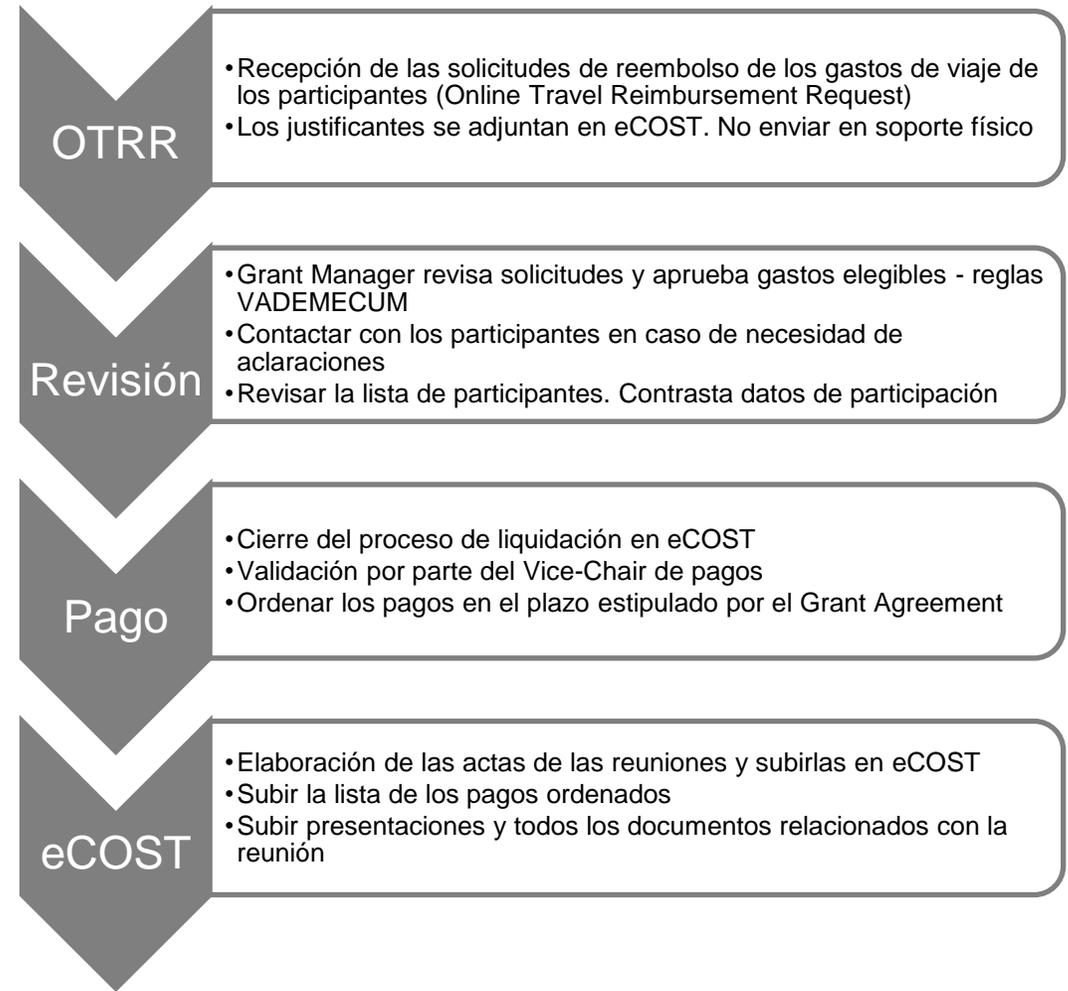
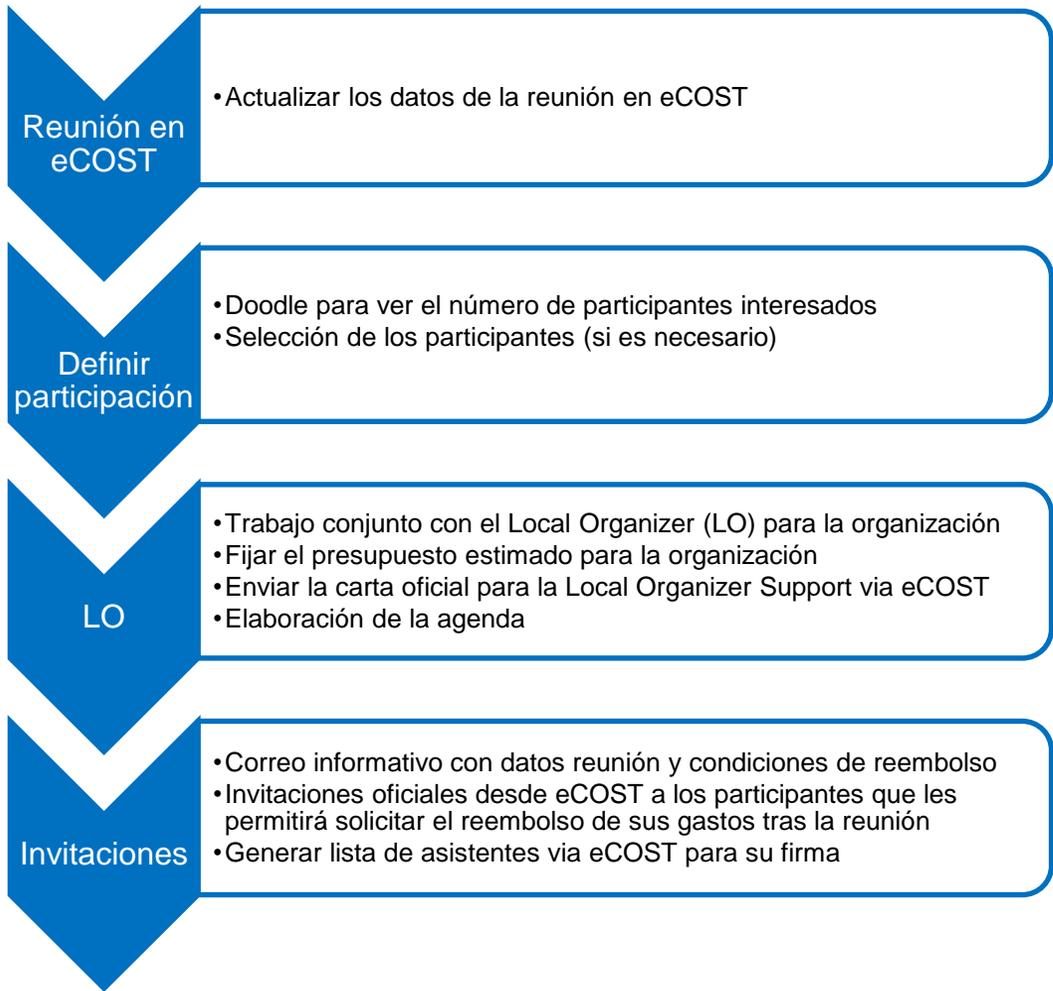
From 01/05/2017 to 30/04/2018

	Grant budget (a)
Total Meeting	31 844.24
Total Training School	33 250.00
Total Short Term Scientific Mission (STSM)	40 000.00
Total Inclusiveness Target Countries Conference Grant (ITC CG)	23 810.50
Total Action Dissemination	1 500.00
Total Other Expenses Related to Scientific Activities (OERSA)	30.00
Total Networking expenditure	130 434.74
Total Eligible Networking expenditure	130 434.74
Total FSAC 15% of Eligible Networking expenditure	19 565.21
Total Eligible Costs	149 999.95



Ejecución

Meetings, Workshops, etc





Reunión en
eCOST

- Actualizar los datos de la reunión en eCOST

Definir
participación

- Doodle para ver el número de participantes interesados
- Selección de los participantes (si es necesario)

LO

- Trabajo conjunto con el Local Organizer (LO) para la organización
- Fijar el presupuesto estimado para la organización
- Enviar la carta oficial para la Local Organizer Support via eCOST
- Elaboración de la agenda

Invitaciones

- Correo informativo con datos reunión y condiciones de reembolso
- Invitaciones oficiales desde eCOST a los participantes que les permitirá solicitar el reembolso de sus gastos tras la reunión
- Generar lista de asistentes via eCOST para su firma



OTRR

- Recepción de las solicitudes de reembolso de los gastos de viaje de los participantes (Online Travel Reimbursement Request)
- Los justificantes se adjuntan en eCOST. No enviar en soporte físico

Revisión

- Grant Manager revisa solicitudes y aprueba gastos elegibles - reglas VADEMECUM
- Contactar con los participantes en caso de necesidad de aclaraciones
- Revisar la lista de participantes. Contrasta datos de participación

Pago

- Cierre del proceso de liquidación en eCOST
- Validación por parte del Vice-Chair de pagos
- Ordenar los pagos en el plazo estipulado por el Grant Agreement

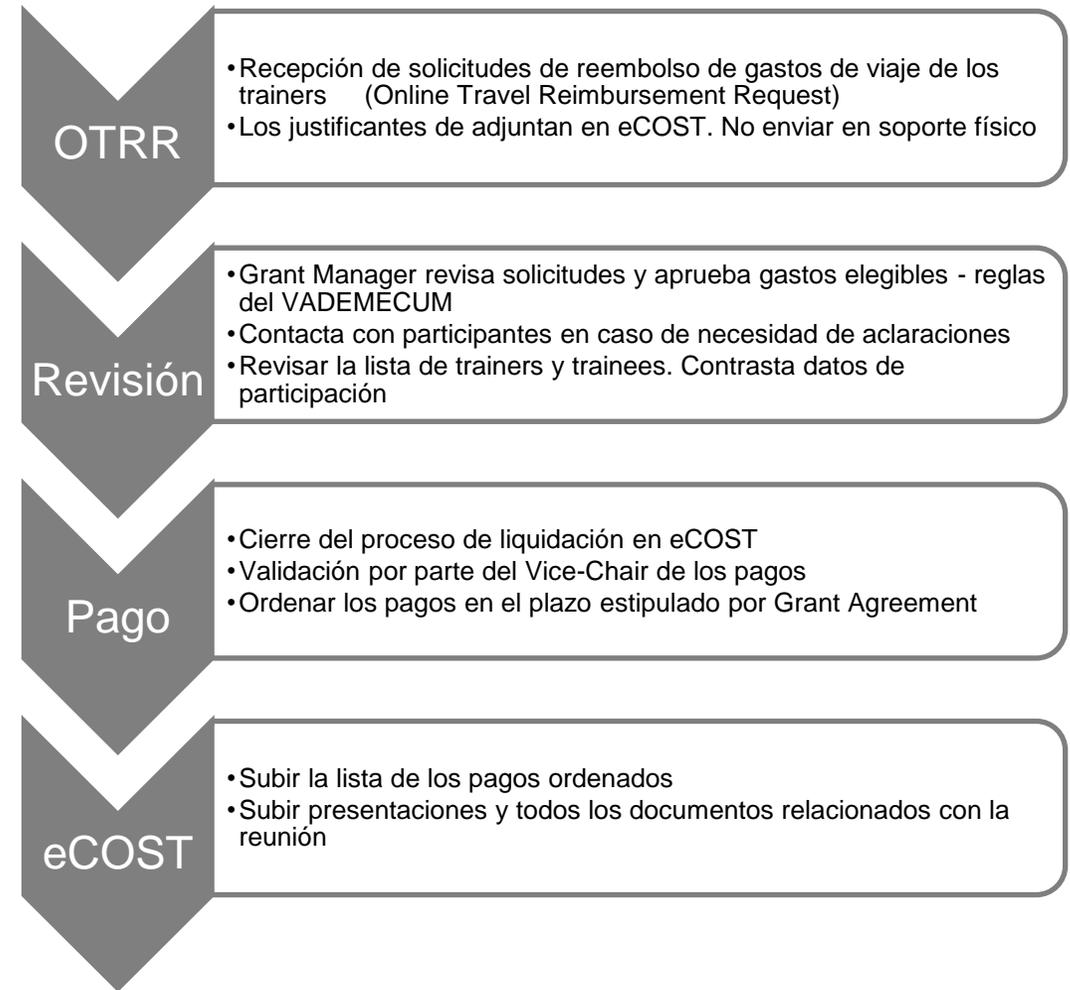
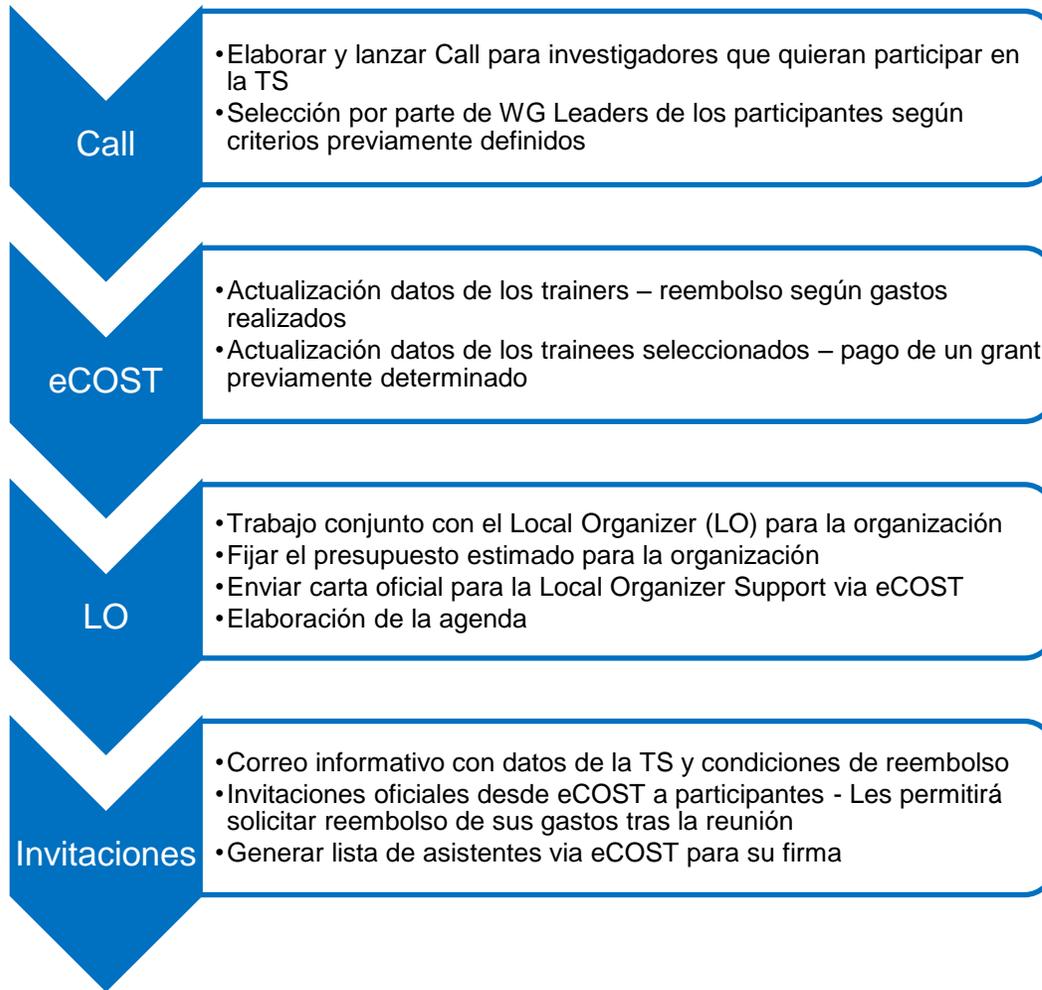
eCOST

- Elaboración de las actas de las reuniones y subirlas en eCOST
- Subir la lista de los pagos ordenados
- Subir presentaciones y todos los documentos relacionados con la reunión



Ejecución

Training schools





Call

- Elaborar y lanzar Call para investigadores que quieran participar en la TS
- Selección por parte de WG Leaders de los participantes según criterios previamente definidos

eCOST

- Actualización datos de los trainers – reembolso según gastos realizados
- Actualización datos de los trainees seleccionados – pago de un grant previamente determinado

LO

- Trabajo conjunto con el Local Organizer (LO) para la organización
- Fijar el presupuesto estimado para la organización
- Enviar carta oficial para la Local Organizer Support via eCOST
- Elaboración de la agenda

Invitaciones

- Correo informativo con datos de la TS y condiciones de reembolso
- Invitaciones oficiales desde eCOST a participantes - Les permitirá solicitar reembolso de sus gastos tras la reunión
- Generar lista de asistentes via eCOST para su firma



OTRR

- Recepción de solicitudes de reembolso de gastos de viaje de los trainers (Online Travel Reimbursement Request)
- Los justificantes de adjuntan en eCOST. No enviar en soporte físico

Revisión

- Grant Manager revisa solicitudes y aprueba gastos elegibles - reglas del VADEMECUM
- Contacta con participantes en caso de necesidad de aclaraciones
- Revisar la lista de trainers y trainees. Contrasta datos de participación

Pago

- Cierre del proceso de liquidación en eCOST
- Validación por parte del Vice-Chair de los pagos
- Ordenar los pagos en el plazo estipulado por Grant Agreement

eCOST

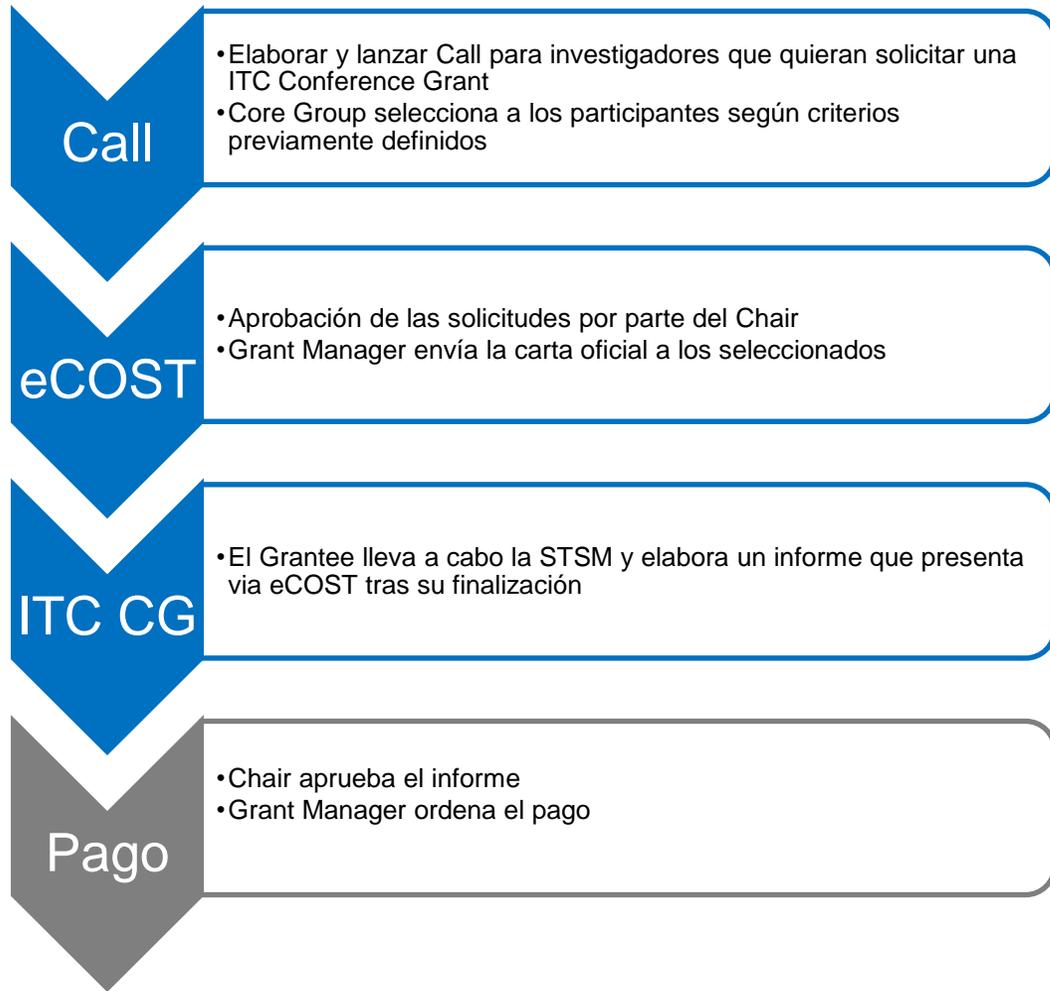
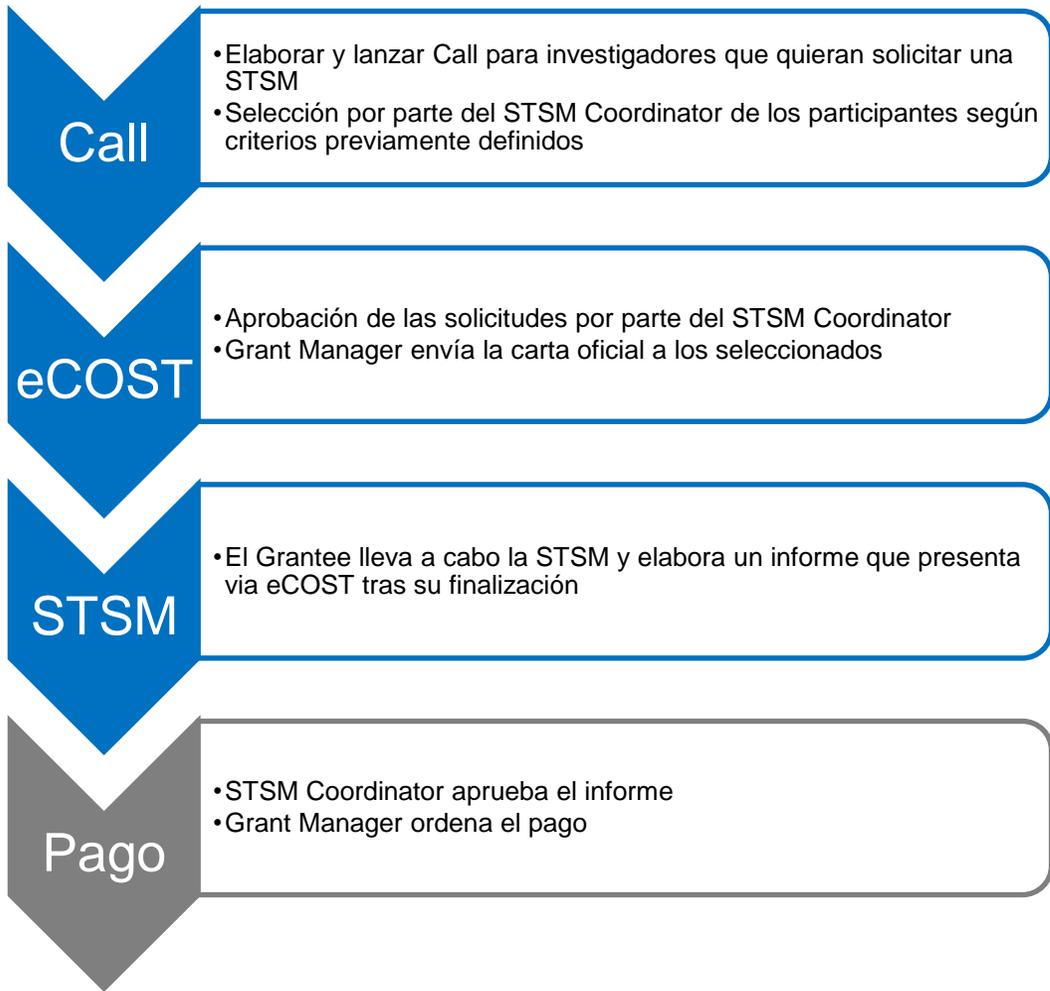
- Subir la lista de los pagos ordenados
- Subir presentaciones y todos los documentos relacionados con la reunión



Ejecución

Short Term Scientific Missions

ITC Conference Grants



Short Term Scientific Missions

Call

- Elaborar y lanzar Call para investigadores que quieran solicitar una STSM
- Selección por parte del STSM Coordinator de los participantes según criterios previamente definidos

eCOST

- Aprobación de las solicitudes por parte del STSM Coordinator
- Grant Manager envía la carta oficial a los seleccionados

STSM

- El Grantee lleva a cabo la STSM y elabora un informe que presenta via eCOST tras su finalización

Pago

- STSM Coordinator aprueba el informe
- Grant Manager ordena el pago



ITC Conference Grants

Call

- Elaborar y lanzar Call para investigadores que quieran solicitar una ITC Conference Grant
- Core Group selecciona a los participantes según criterios previamente definidos

eCOST

- Aprobación de las solicitudes por parte del Chair
- Grant Manager envía la carta oficial a los seleccionados

ITC CG

- El Grantee participa en la Conferencia Internacional y elabora un informe que presenta via eCOST tras su finalización

Pago

- Chair aprueba el informe
- Grant Manager ordena el pago

Ejecución

Dissemination

eCOST

- Página web, material diseminación, etc.
- Contra factura, IVA no elegible

OERSA

eCOST

- Ej. Tasas por transferencias
- Justificante de la transacción

FSAC

eCOST

- Financial Scientific and Administrative Coordination tasks
- Porcentaje del presupuesto ejecutado en la partida de Science Expenditure
- Máximo un 15% del total ejecutado



Justificación

- Intermediate Financial Report
- Final Financial Report – 45 días



- Grant Period Overview
- Meetings
- Training Schools
- STSMs
- ITC Conference Grants
- Action Dissemination
- OERSA
- Reports**
- « Management Tool

Actions / ES1408 / Periods / Manage Grant 3 / Reports



COST Action ES1408, Earth System Science And Environmental Management
European network for algal-bioproducts (EUALGAE)

Grant Period: AGA-ES1408-3 from 2017-05-01 to 2018-04-30

A report is pending submission.

Below you can find an overview of all your reports.

Report title	Type	Period of reporting	Date of report	Status	Options
AGA-ES1408-3-IFR	Intermediate Financial Report (IFR)	from 2017-05-01 to 2017-11-07	2017-11-07 13:17:28	Rejected	  



A tener en cuenta

- Alta dedicación tanto del Chair, como del Grant Manager
- Involucración baja en organización de actividades por Working Group members
- Pago después de las actividades

Ventajas

- Oportunidad de intercambio de conocimientos
- Visibilidad para la institución y los investigadores
- Posibilidades para futuras colaboraciones
- Financiación para las actividades de gestión

Recomendaciones

- Asignar un gestor de proyectos antes de que empiece la Acción
- Jornadas informativas para gestores organizadas por la Asociación COST
- Contactar con otros Grant Holders



Gracias por vuestra atención!

Cristina González-Fernandez

Chair de EUALGAE

cristina.gonzalez@imdea.org

Radoslava Metodieva-López

Grant Manager de EUALGAE

radoslava.metodieva@imdea.org