ClimACT – Acting for the transition to a low carbon economy in schools – development of support tools

1st Advisory Board Meeting

General overview of the project

Marta Almeida, IST smarta@ctn.tecnico.ulisboa.pt





























- 1. Objective of the ClimACT project
- 2. Interreg Sudoe Program
- 3. Beneficiaries
- 4. Advisory Board
- 5. Internal Organization of the ClimACT project
- 6. ClimACT project structure
- 7. WP1: Development of a thematic networking in SUDOE
- 8. WP2: Development of tools to support the transition to a low-carbon economy in schools
- 9. WP3: Implementation of a methodology conducting to a low carbon economy in 35 pilot schools
- 10. Transversal WP2: Project Communication/Dissemination

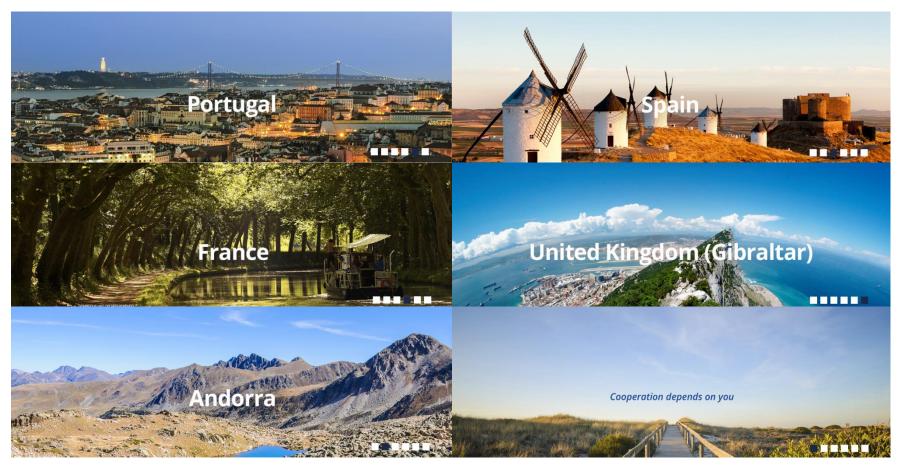
ClimACT project aims to support the transition to a low carbon economy in schools and has four main lines of action:

- 1. Development of a decision support tool that will assess and identify sustainable solutions for schools, based on intelligent resource management, renewable energy and behavior change;
- 2. Development of business models and new management strategies for schools;
- 3. Development of educational tools to raise awareness in low-carbon, assisted by information and communication technologies;
- 4. Creation of a thematic network in the SUDOE region, driven by a Living Lab methodology, which will raise awareness and training and will foster a communication framework between end-users and stakeholders.

Interreg Sudoe



Promote the transnational cooperation to solve common problems from the Southwest Europe region.













Interreg Sudoe

Promote the transnational cooperation to solve common problems from the Southwest Europe region.

ClimACT Project

Total budget: 1,374,000 Euros

FEDER funding: 993,000 Euros (Co-financing rate: 72%)

Public Contribution: 241,900 Euros

Private Contribution: 139,000 Euros

Start date: 1st of July 2016

End date: 30th of June 2019

Duration: 3 years

Andorra

United Kingdom (Gibraltar)

Looperation depends on you











Team - Beneficiaries

TÉCNICO LISBOA	Instituto Superior Técnico, Portugal
iSQ	Instituto de Soldadura e Qualidade, Portugal
EDIGREEN	Edigreen, Portugal
ABAE SSOCIAÇÃO BANDEIRA AZUL DA EUROPA	Associação Bandeira Azul da Europa, Portugal
Ciemat	Centro de Investigaciones Energéticas
Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas	Medioambientales y Tecnológicas, Spain
U STATE OF THE PROPERTY OF THE	Universidad de Sevilla, Spain
Fa Bochelle	Université de La Rochelle, France
ROCHELLE	Ville de La Rochelle, France
UNIVERSITY OF GIBRALTAR	University of Gibraltar, United Kingdom

Team - Advisory Board









































Internal organization of the ClimACT project

Expected roles from AB members

- Guide the Steering Committee in its technical and political decisions;
- Guide project in order to customize project outputs according to end-users needs, to guarantee that they will be used after the end of the project.
- Participate in yearly meetings of the AB committee:
 - 7th September 2016 Lisbon
 - 31st January 2018- Madrid
 - 29 May 2019 Lisbon
- Sign a collaboration protocol.

Advisory Board

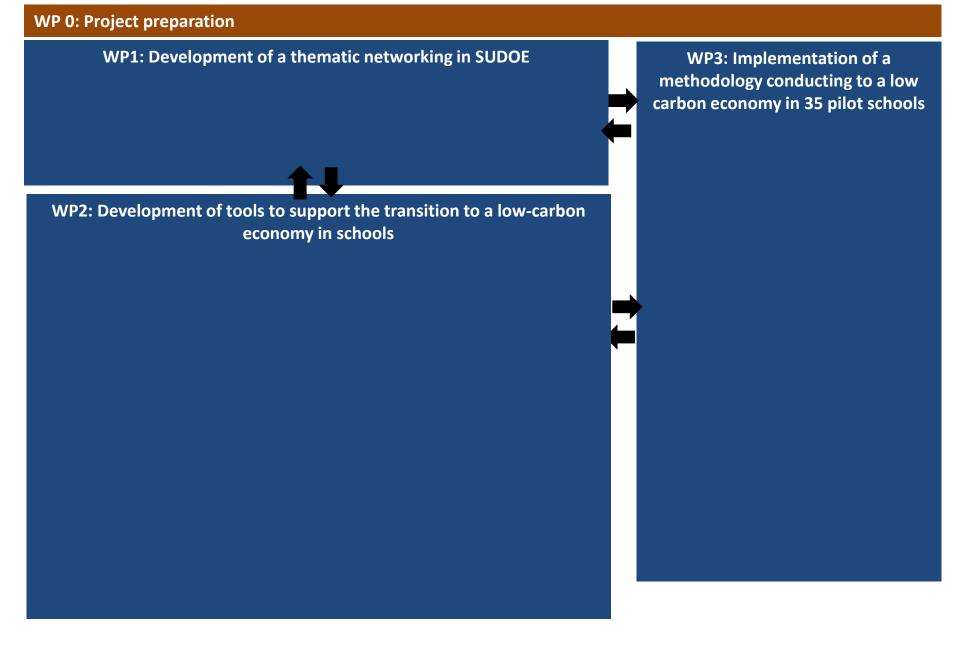
ClimACT Structure

WP 0: Project preparation WP1: Development of a thematic networking in SUDOE WP3: Implementation of a methodology conducting to a low Task 1.1 Development of a Web Portal Task 1.2 Focus Group Discussion carbon economy in 35 pilot schools Task 1.3 Networking with other projects Task 1.4 ClimACT Academy Task 3.1 Commitment to a policy Task 1.5 ClimACT Resource-matching platform conducting to a LCE in schools WP2: Development of tools to support the transition to a low-carbon economy in schools Task 3.2 Assess baseline in energy, environment and CO₂ emissions Task 2.1 Development of the ClimACT decision support tool performance, audits and benchmarking Task 2.2Database Module Task 2.3: KPI Generator Module Task 3.3 Definition of targets and Task 2.4: Building Scenario Module development of action plans Task 2.5: Life Cycle Assessment Module Task 2.6: Cost Benefit Assessment Module Task 3.4: Implement of the action plans Task 2.7: Development of new business models and managment strategies Task 2.8: Development of the ClimACT Educational Platform for Active Learning Task 2.9: E-Learning Module for teachers on Sustainable Development Task 3.5: Progress Evaluation Task 2.10: Classroom Training Module Task 2.11: Gamification Module **Transversal WP1: Project Management**

Transversal WP2: Project Communication/Dissemination

Transversal WP3: Project Monitoring and Evaluation





WP2: Development of tools to support the transition to a low-carbon economy in schools

Task 2.1 Development of the ClimACT decision support tool

Task 2.2Database Module

Task 2.3: KPI Generator Module

Task 2.4: Building Scenario Module

Task 2.5: Life Cycle Assessment Module

Task 2.6: Cost Benefit Assessment Module

Task 2.7: Development of new business models and managment strategies

Task 2.8: Development of the ClimACT Educational Platform for Active Learning

Task 2.9: E-Learning Module for teachers on Sustainable Development

Task 2.10: Classroom Training Module

Task 2.11: Gamification Module

WP 0: Project preparation

WP1: Development of a thematic networking in SUDOE					
Task 1.1 Development of a Web Portal			Task 1.2 Focus Group Discussion		
Task 1.3 Networking with other projects Task 1.4 ClimACT Academy		Task 1.4 ClimACT Academy			
Task 1.5 ClimACT Resource-matching platform					
WP2: Development of tools to support the transition to a low-carbon economy in schools					
Task 2.1 Development of the ClimACT decision support tool					
	Task 2.2Database Module				
	Task 2.3: KPI Generator Module				
	Task 2.4: Building Scenario Module				
	Task 2.5: Life Cycle Assessment Module				
	Task 2.6: Cost Benefit Assessment Module				
Task 2.7: Development of new business models and managment strategies					
Task 2.8: Development of the ClimACT Educational Platform for Active Learning					
	Task 2.9: E-Learning Module for teachers on Sustainable Development				
	Task 2.10: Classroom Training Module				
	Task 2.	11: Gamification Modu	le		

WP 0: Project preparation

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Task 1.3 Networking with other projects		Task 1.4 ClimACT Acade	emy	
	Task 1.5 ClimACT Resou	rce-matching platform		Task : cond
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WP2: D	evelopment of tools to sup		a low-carbon	
	economy	in schools		Task envir
Task 2.1 Development of the ClimACT decision support tool				
	Task 2.2Database Module		-	
	Task 2.3: KPI Generator Modu	le	-	_
	Task 2.4: Building Scenario Mo	odule		Task deve
	Task 2.5: Life Cycle Assessment Module			
	Task 2.6: Cost Benefit Assessm	ent Module		_
Task 2.7: Development of new business models and managment strategies			trategies	Task
Task 2.8:	Development of the ClimACT Ed	ducational Platform for Ad	ctive Learning	
	Task 2.9: E-Learning Module fo	or teachers on Sustainable	e Development	Task
	Task 2.10: Classroom Training	Module		
	Task 2.11: Gamification Modu	le		

WP3: Implementation of a methodology conducting to a low carbon economy in 35 pilot schools

Task 3.1 Commitment to a policy conducting to a LCE in schools

Task 3.2 Assess baseline in energy, environment and CO₂ emissions performance, audits and benchmarking

Task 3.3 Definition of targets and development of action plans

ask 3.4: Implement of the action plans

Task 3.5: Progress Evaluation

WP 0: Project preparation WP1: Development of a thematic networking in SUDOE WP3: Implementation of a methodology conducting to a low Task 1.2 Focus Group Discussion Task 1.1 Development of a Web Portal carbon economy in 35 pilot schools Task 1.3 Networking with other projects Task 1.4 ClimACT Academy Task 3.1 Commitment to a policy Task 1.5 ClimACT Resource-matching platform conducting to a LCE in schools WP2: Development of tools to support the transition to a low-carbon economy in schools Task 3.2 Assess baseline in energy, environment and CO2 emissions Task 2.1 Development of the ClimACT decision support tool performance, audits and benchmarking Task 2.2Database Module Task 2.3: KPI Generator Module Task 3.3 Definition of targets and Task 2.4: Building Scenario Module development of action plans Task 2.5: Life Cycle Assessment Module Task 2.6: Cost Benefit Assessment Module Task 3.4: Implement of the action plans Task 2.7: Development of new business models and managment strategies Task 2.8: Development of the ClimACT Educational Platform for Active Learning Task 2.9: E-Learning Module for teachers on Sustainable Development **Task 3.5: Progress Evaluation** Task 2.10: Classroom Training Module Task 2.11: Gamification Module **Transversal WP1: Project Management**

Transversal WP3: Project Monitoring and Evaluation

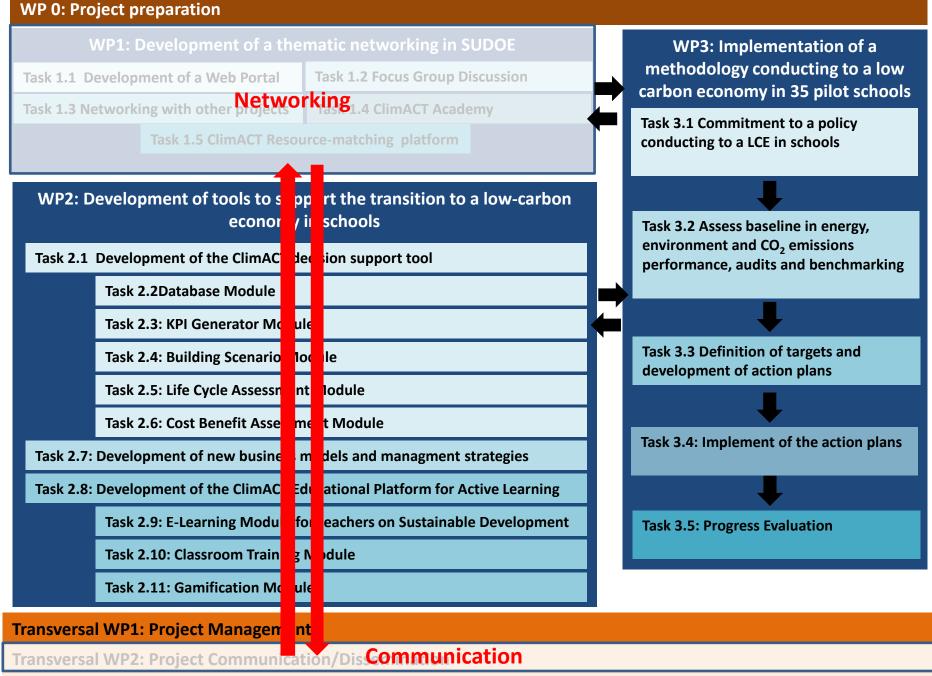
Transversal WP2: Project Communication/Dissemination

WP 0: Project preparation Task 1.1 Development of a Web Portage Task 1.2 Focus Group Discussion of Task 1.3 Networking with other replectant Task 1.4 ClimACT Acrochy no Task 1.5 Clim/St Alesource-matching platform, alk Task 3.1 Commitment to a policy conducting to a LCE in schools WP2: Development of tools to support the transition to a low-carbon Task 3.2 Assess baseline in energy, environment and CO₂ emissions Task 2.1 Development of the ClimACT decision support tool performance, audits and becomarking oftools **Task 2.2Database Module** Task 2.3: KPI Generator Module **Task 2.4: Building Scenario Module** development of action plans Task 2.5: Life Cycle Assessment Task 2.6: Cost Benefit Associate Task 2.7: Development of new Sin ss models and managment strategies Task 2.8: Development Task 2.9: E-Learning Module for teachers on Sustainable Development

Transversal WP1: Project Management

Transversal WP2: Project Communication/Dissemination

Transversal WP3: Project Monitoring and Evaluation



Transversal WP3: Project Monitoring and Evaluation

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WP1: Development of a thematic networking in SUDOE

Ricardo Rato, ISQ RARATO@isq.pt

























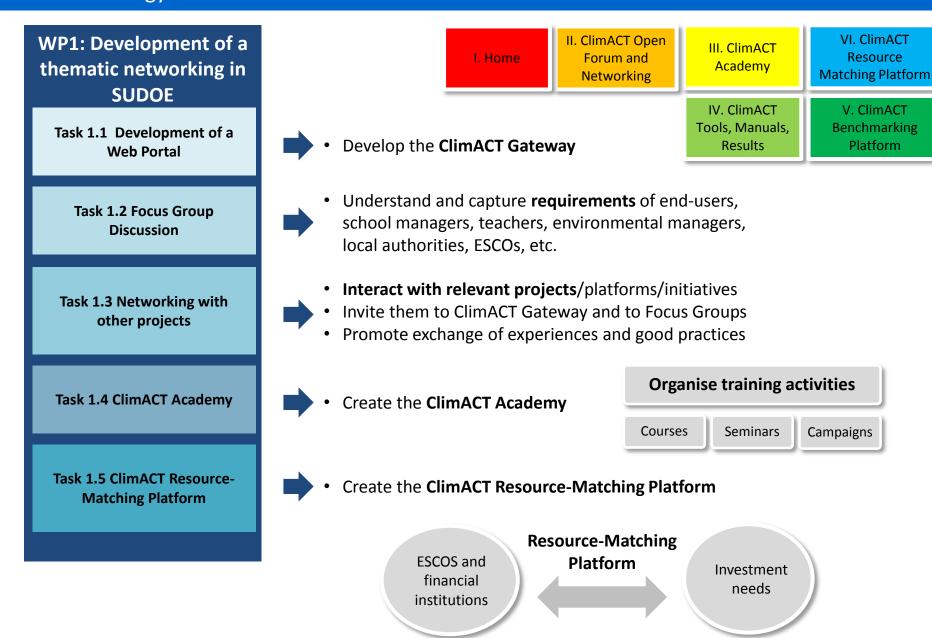




WP1: Development of a thematic networking in SUDOE Objectives

- 1. Develop a Thematic Network in the SUDOE Region
- 2. To promote the transition to a low carbon economy (LCE) in schools across the SUDOE region over the lifespan of the project
- 3. To build strong foundations for further implementation of the project results after the end of the project.
- 4. This thematic networking will be boosted by the ClimACT Living Lab

WP1: Development of a thematic networking in SUDOE Methodology



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WP2: Development of tools to support the transition to a low-carbon economy in schools

José Luís Alexandre, EDIGREEN jlca@edigreen.pt

























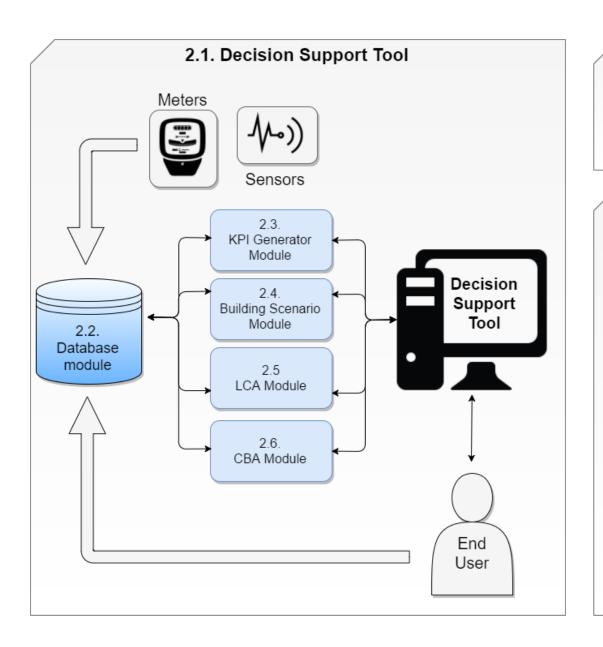




Develop a Decision Support Tool for the transition from oil society to low-carbon economy

Develop of new business models and managements strategies for schools

Active learning for schoolchildren and staff in low carbon awareness



2.7. Business Models & Management Strategies

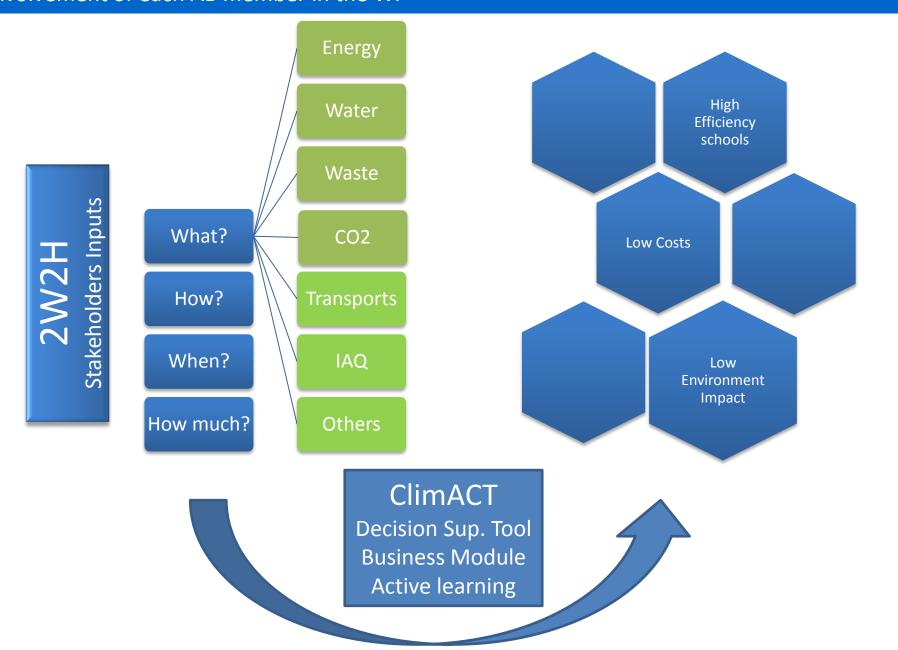
2.8. ClimACT Educational Platform

2.9. E-learning Module for Teachers

2.10. Classroom Training Module

2.11. Serious Gamming Module

WP2: Development of tools to support the transition to a low-carbon economy in schools - Involvement of each AB member in the WP



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WP3: Implementation of a methodology conducting to a low carbon economy in 35 pilot schools

Ricardo Chacartegui, Universidad de Sevilla ricardoch@us.es





























WP3: Implementation of a methodology conducting to a low carbon economy in 35 pilot schools Objectives

Objective of the WP3:

- Demonstrate that the developed tools (developed in WP2) lead to an effective transition to a low-carbon economy in existing schools around SUDOE region.
- The methodology will be validated in real conditions, in 35 schools from Portugal, Spain, France and Gibraltar, over a period of 34 months with the aim to ensure the reliability of the final outcomes.

WP3: Implementation of a methodology conducting to a low carbon economy in 35 pilot schools Methodology

Methodology:

Products	Date	Lead	TASK	Deliverable	Date
		ABAE	3.1 Commitment to a policy conducting to a Low Carbon Economy in schools	3.2.1 LCE COMMITTEE MEMBERS, WORK PLAN AND ECO-CODES	M6 - 31/12/2016
		IST	3.2 Assessment baseline in energy, environment and CO2 emissions performance, audits and benchmarking	3.2.1 GUIDELINES OF STANDARD METHODOLOGIES TO CONDUCT ENERGY AND ENVIRONMENT AUDITS IN SCHOOLS	M7 - 31/01/2017
				3.2.2 REPORT ON BASELINE ENERGY AND ENVIRONMENT PERFORMANCE	M12 - 30/06/2017
3.1. Implementation of a methodology aiming a low-carbon economy in 35 pilot schools	03.2019	USE	3.3 Definition of targets and	3.3.1 SHORT AND LONG TERM TARGETS	M18 - 31/12/2017
3.2. Methodology to implement a low-carbon economy in schools	04.2019		development of action plans	3.3.2 BEST AVAILABLE ACTIONS AND SMART CONTROL STRATEGIES	M18 - 31/12/2017
3.3. ClimACT tools validated	04.2019	USE	3.4 Implementation of action plans	3.4.1 REPORT OF THE IMPLEMENTATION OF	M26 - 31/08/2018
3.4. Strategic Action Plans	04.2019			ACTION PLANS	
conducting to a LCE in SUDOE schools		USE	3.5 Progress evaluation	3.5.1 REPORT OF THE EVALUATION OF THE LCE STRATEGIES IMPLEMENTATION	M33 - 31/03/2019

WP3: Implementation of a methodology conducting to a low carbon economy in 35 pilot schools Involvement of each AB member in the WP

Participation required to AB members:

Country	Beneficiary in charge	Advisory Board Member	Acronym
	Edigreen	Associação Pólo de Competitividade e Tecnologia da Energia	EnergyIN
	Edigreen	Câmara Municipal de Matosinhos	CMM
	Edigreen	Agência de Energia do Porto	AdEPorto AdEPorto
	ABAE	Câmara Municipal de Vila Nova de Gaia	CM-VNG
PORTUGAL	IST	Câmara Municipal de Loures	CM-Loures
	ABAE	Agência Portuguesa do Ambiente - Ministério do Ambiente	APA
	ABAE	Direcção Geral da Educação - Ministério da Educação	DGE
	ABAE	Associação das Agências de Energia e Ambiente	RNAE
	ISQ	Associação Portuguesa das Empresas de Serviços de Energia	APESE
FRANCE	ULR	Agence pour la Défense de l'Environnement et la Maîtrise de l'Energie	ADEME
	USE	Municipality of Seville	Municipality of Seville
	IST	Asociación de Educación Ambiental y del Consumidor	ADEAC
	USE	Agencia Andaluza de la Energía	Agencia Andaluza de la Energía
SPAIN	CIEMAT	Ayuntamiento de Alcala de Henares	Ayuntamiento de Alcala de Henares
	CIEMAT	Ministry of Agriculture, Food and Environment. Spanish Office of Climate Change	MAGRAMA.OECC
	CIEMAT	Ministry of Education, culture and sports	INTEF
	USE	Agencia Pública Andaluza de Educación (Consejería de Educación, Junta de Andalucía)	APAE
	USE	Argos. Proyectos educativos S.L.	Argos
GIBRALTAR	UniGib	Her Majesty's Government of Gibraltar's Department of Education	HMGoG - DoE
	UniGib	Her Majesty's Government of Gibraltar's Department of the Environment and Climate Change	HMGoG - DECC
ANDORRA	UniGib	Departament d'Escola Andorrana i Formació Andorrana, Ministeri d'Educació i Ensenyament Superior	

- 1. To facilitate and support the access to schools.
- 2. To participate in discussion forums.
- 3. To contribute with expertise and knowledge in **ClimACT** research areas.
- 4. To provide feedback of project advances

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WPT2: Project Communication/Dissemination

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T-WP 2 - OBJECTIVE

- To involve the whole school community, allowing the commitment of all community with the transition to a LCE.
- To implement educational tools by teachers and to implement the improvement measures by the schools managers and local authorities.

Target audience:

Local, Regional and National Authorities

NGOs

Research Centers

Energy and environmental companies

Energy, environment, education and business agencies and associations

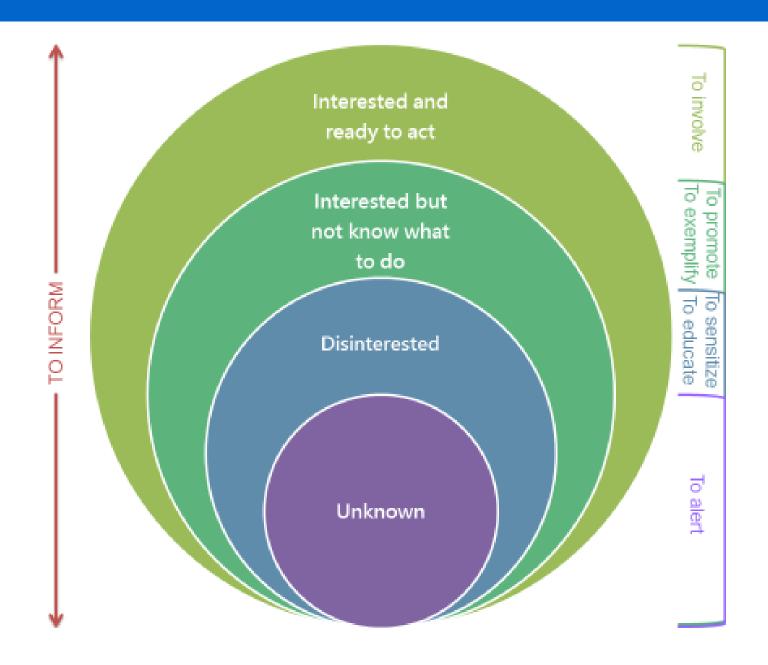
Schools and Universities

Building managers

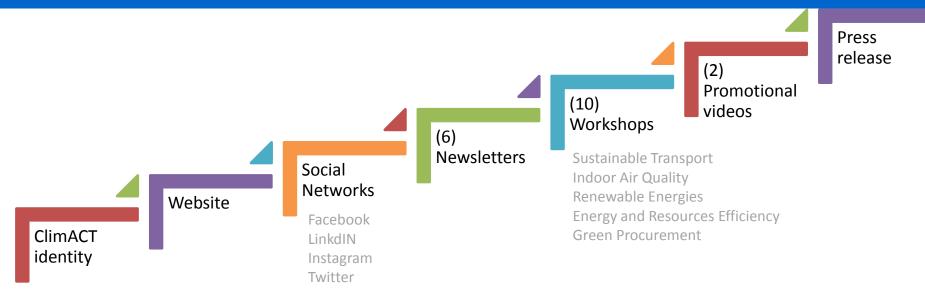
Teachers

Students

Parents

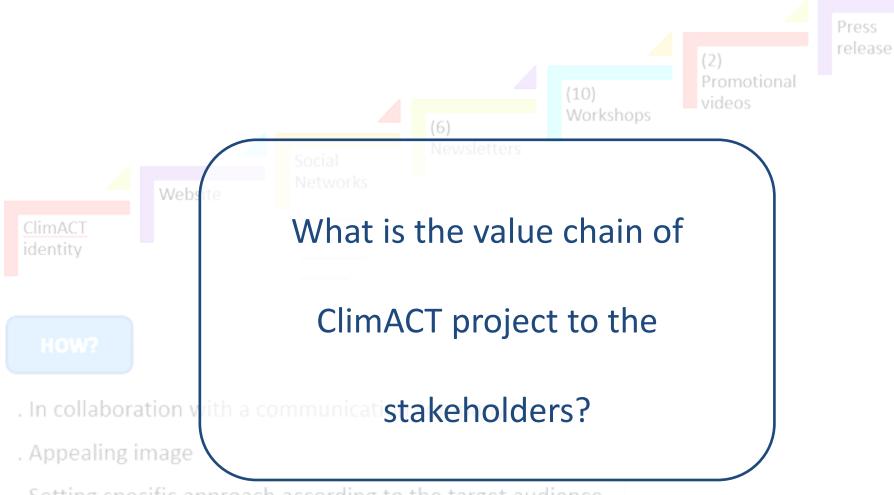


WPT2: Project Communication/Dissemination Involvement of each AB member in the WP



HOW?

- . In collaboration with a communication company
- . Appealing image
- . Setting specific approach according to the target audience
- . Create user-friendly tools
- . Keeping updated the communication/ dissemination tools



- . Setting specific approach according to the target audience
- . Create user-friendly tools
- . Keeping updated the communication/ dissemination tools

Stakeholders

ClimACT

Stakeholders

- Networking
- New communication channels
- Legal requirements
- Materials and Tools:
 - Optimization
 - Customization
- Ethics
- Horizontal Principles

Networking

Academy
Web Portal
Stakeholders

Business

KPI/Benchmarking LCA CBA Business Model

Education

Courses Gaming

Action Plans to LCE

Energy Water Waste Emissions

- Networking
- New communication channels
- Potentiate the business
- Take advantage to competitors
- Access to the best available tools for: sustainability, environment, transports, urbanism, economy, etc
- Educational tools and materials
- Environmental and sustainability awareness
- Manuals and methodologies
- Technical and political recommendations
- Decrease the costs/ expenses
- Better Quality of Life of citizens
- Access to pilot schools audits

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Coffee Break



























