



BASE Transnational Training Course:  
**CLIMATE CHANGE  
ADAPTATION IN PRACTICE**

28-31 OCTOBER 2015  
Palmela, Portugal

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## Thank You to All Participants!

*Dear Training Course Participants,*

*We are delighted that you were able to take part in the **BASE Transnational Training Course on Climate Change Adaptation in Practice**, taking place in **Palmela, Portugal, 28 - 31 October 2015!***

*The impacts of a changing climate are likely to disrupt ecological, social and economic systems, with some regions and sectors in Europe likely to suffer greater adverse effects. New opportunities will also emerge. An important question is how one can provide incentives for innovative adaptation measures. Addressing this question is crucial for building a sustainable, resource efficient and resilient European society.*

*The project **BASE (Bottom-up Climate Adaptation Strategies towards a Sustainable Europe)** supports action for sustainable climate change adaptation in Europe by making experiences and scientific information about adaptation meaningful, transferable and easily accessible to decision-makers at all levels. With a focus on three important topics (economics, participation, and implementation), this training course will provide and present results from the BASE project as well as foster the discussion between the participants in sharing their knowledge and experiences in different EU sectors and settings.*

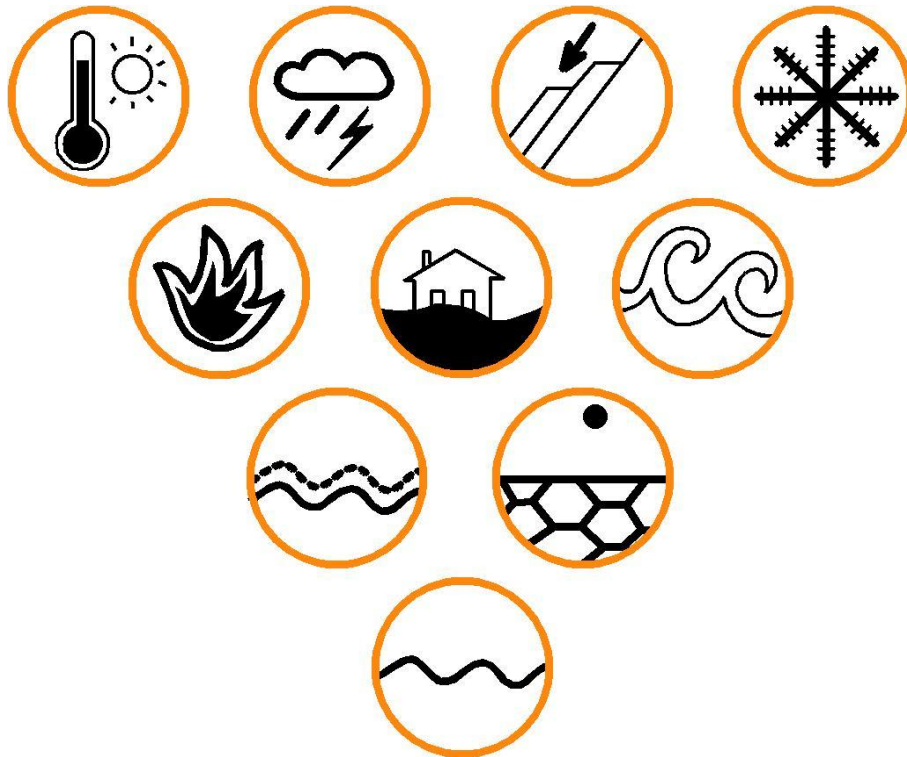
*More information about the BASE project can be found here:*

*<http://base-adaptation.eu>*

*We enjoyed the exchange and productive discussion of ideas and examples of climate adaptation in Europe throughout our days of working and learning together!*

**The BASE Training Course Team**

**from Faculty of Sciences, University of Lisbon (FFCUL)  
and Ecologic Institute, Berlin**



## **BASE - BOTTOM-UP CLIMATE ADAPTATION STRATEGIES TOWARDS A SUSTAINABLE EUROPE**

Let's transform knowledge into adaptation solutions.

***IF all else fails:***

- ✦ Build a floating house...
- ✦ Learn to love our new tropical climate...
  - ✦ Colonize space...
- ✦ Try very hard to evolve...

## List of Participants

	First name	Family name	Institution	Country
1	Viorica	Cergă	Environmental Protection Agency Sibiu	Romania
2	Luis	Costa	Potsdam Institute for Climate Impact Research (PIK)	Germany
3	Merete Hvid	Dalnæs	Municipality of Slagelse	Denmark
4	Juliette	Daniels	CDP	England
5	Julián	Díaz Ortiz	Government of Cantabria	Spain
6	João	Dinis	Câmara Municipal de Cascais	Portugal
7	Bernd	Eggen	Public Health England (PHE)	England
8	Panos	Fetsis	NEEMO EEIG – AEIDL The LIFE Programme	Belgium
9	Birgit	Fremault	Tractebel Engineering	Belgium
10	Thomas	Henfrey	Schumacher Institute for Sustainable Systems / FFCUL	England
11	Beatrix	Kosztzyi	National Adaptation Center	Hungary
12	Klaus	Pallesen	Municipality of Fredensborg	Denmark
13	Isabel	Rosa	Tamera Healing Biotope	Portugal
14	Barbara	Simonič	Ministry of the Environment and Spatial Planning	Slovenia
15	Sophie	Turner	Adaptation Scotland / Sniffer	Scotland
16	Ana Cátia	Vasconcelos	Rhineland-Palatinate Centre of Excellence for Climate Change Impacts	Germany

## BASE Training Course Team

First name	Family name	Institution	Country
Volker	Meyer	Helmholtz Centre for Environmental Research (UFZ)	Germany
Filipe Miguel	Moreira Alves	cE3c research centre, Faculty of Sciences, University of Lisbon (FFCUL).	Portugal
Hugo	Oliveira	cE3c research centre, Faculty of Sciences, University of Lisbon (FFCUL)	Portugal
Gil	Penha-Lopes	cE3c research centre, Faculty of Sciences, University of Lisbon (FFCUL)	Portugal
Nico	Stelljes	Ecologic Institute	Germany
Elena	von Sperber	Ecologic Institute	Germany



## Agenda

Wednesday, 28 October - ARRIVAL DAY	
18:00	Individual Arrival at Lisbon Airport
20:00	<b>Welcome Dinner &amp; Introduction of Participants</b>
Thursday, 29 October – TRAINING DAY 1	
9:00 - 9:30	<b>Welcome to BASE and Biovilla</b> Filipe Miguel Moreira Alves, FFCUL Gil Penha-Lopes, FFCUL
9:30 - 10:00	<b>Local Adaptation in Cascais</b> João Dinis, Câmara Municipal de Cascais
10:00 - 11:00	<b>Interactive Poster Presentation</b> Introduction of Participants and Projects
11:00 - 11:30	<b>Coffee Break</b>
11.30 – 13.00	<b>World Café of BASE Best Practice Examples and Case Studies</b> Tables according to BASE case study clusters: <b>Cities:</b> Filipe Miguel Moreira Alves, FFCUL <b>Agriculture:</b> Gil Penha-Lopes, FFCUL <b>Coasts:</b> Nico Stelljes, Ecologic Institute
13:00-14:00	<b>Lunch Break</b>
14.00 – 15.15	<b>Economic Evaluation of Adaptation Options</b> <b>Part I:</b> Introduction into economic evaluation of adaptation options, Experience and Results from BASE Volker Meyer, UFZ
15:15 – 15:45	<b>Coffee Break</b>
15:45 – 18:00	<b>Economic Evaluation of Adaptation Options</b> <b>Part II:</b> Working Groups Volker Meyer, UFZ
18:00 - 19:00	<b>Biovilla Experience</b> Guided Walking Tour
19:00	<b>Biovilla Fireside Dinner</b>

Friday, 30 October - TRAINING DAY 2	
9.00 – 11:00	<p><b>Participation in Adaptation Processes</b></p> <p>What participatory methods can be used for adaptation processes? Examples will be presented and tested for selected case studies.</p> <p>Gil Penha-Lopes, FFCUL</p>
11:00 – 11:30	<b>Coffee Break</b>
11:30 – 12:15	<p><b>Voices and Ears: Participation Processes in Coastal Areas' Adaptation</b></p> <p>Luisa Schmidt, Principal Researcher, Institute of Social Sciences, University of Lisbon</p>
12:15 – 13:00	<p><b>Implementation and Multi-Scale Policy Analysis</b></p> <p><b>Part I:</b> Introduction and Input by Participants</p> <p>Nico Stelljes, Ecologic Institute</p>
13:00 – 14:00	<b>Lunch Break</b>
14:00 – 15:00	<p><b>Implementation Analysis</b></p> <p><b>Part II:</b> How can adaptation measures be implemented? What are success factors and how to deal with multi-scale policy issues?</p> <p>Nico Stelljes, Ecologic Institute</p>
15:00 – 15:30	<p><b>Open Space Technology</b></p> <p><b>Part I:</b> A participatory method to discuss, share, and answer adaptation related questions from the participants.</p> <p>Gil Penha-Lopes, FFCUL Filipe Miguel Moreira Alves, FFCUL</p>
15:30 – 16:00	<b>Coffee Break</b>
16:00 – 17:00	<p><b>Open Space Technology</b></p> <p><b>Part II</b></p>
17:00 – 18:00	<b>Key Messages to be Implemented at Home</b>
19:00	<p><b>Farewell Dinner</b></p> <p>Awarding of certificates of participation</p>
Saturday, 31 October – EXCURSIONS and DEPARTURE DAY	
10:00 - 13:00	<b>Trekking in the Natural Park with a Visit to the Peak of Serra da Arrábida</b>
10:00 - 12:30	<b>Organic farming and tree planting in Biovilla as CO<sub>2</sub> emissions compensation</b>
	Departure from Lisbon Airport



## Training Course Preparation

### **Session on Economic Evaluation of Adaptation Options**

1. Do you have experience with economic evaluation of adaptation options?  
If yes, please be prepared to describe briefly how it is done in your case study/country
2. Do you see a need for guidance on economic evaluation of adaptation options in your case study/country? If yes, please be prepared to describe briefly the specific situation in your case study/country
3. Do you have any specific problems/questions regarding the economic evaluation of adaptation options which should be addressed during the workshop?

### **Session on Participation in Adaptation Processes**

1. Map the Participatory methodologies used within the Adaptation processes during your professional or civic experience;
2. List the key opportunities and challenges. Consider the questions: who to invite, when to invite and what participatory methodology to use;
3. What is the benefit and cost of using them? Consider different levels of participation but also the phase within the Adaptation process.
4. How does the use of participation change yourself as citizen and professional? Consider values, worldview and practices.

### **Session on Implementation and Multi-Scale Policy Analysis**

1. What are/were barriers in implementing adaptation measures in your region?  
How were these barriers overcome - or what would be a possible way to overcome these barriers?
2. What were success-factors in implementing adaptation measures?
3. Which elements of the success-factors would you consider as transferable?

## The Training Venue



**Biovilla** is a multi-sector cooperative, founded in 2010 by a group of young social entrepreneurs and established in 55 hectares of the Arrábida Natural Park, 40 min south from Lisboa. Biovilla aims to be a place of never ending learning, experimentation and innovation towards sustainability following a quadruple bottom-line of People-Planet-Profit and Spirit.

During the summer time Biovilla works as a Nature Tourism, welcoming people from all over the world for a holistic, integral and community experience and throughout the rest of the year Biovilla hosts trainings, workshops, retreats and other events ranging from Yoga to Sociocracy to organic farming to

Bioconstruction but having the overarching vision of sustainability as a reference.

Biovilla is also deeply concerned with climate change and is investing in different adaptation and mitigation measures to fight soil desertification, drought and extreme precipitation events which are already felt in our region.

Biovilla aims to be a national and international reference regarding the use of technical and social innovations that foster environmental, social and economic prosperity, resilience and Sustainability. [www.biovilla.org](http://www.biovilla.org)



## Participants' Expectations

### Learning and Sharing

Good practice on adaptation to climate change

Learn more about methodologies or strategies to climate change adaptation

Mutual learning - towards co-creation

Learn more about what others are doing

Learn as much as possible - on adaptation processes

Present my own work

Share something useful for others

Have a good time

Meet the broader BASE crew

Share diverse adaptation strategies relevant to Europe

Bottom up innovation sharing

Monitoring of adaptation

### Inspiration and Challenge

Be challenged

Get inspired to move on with my work on adaptation

Young thoughts bringing together creating ideas for adaptation

Get inspired for a new step in my personal carrier

Get a lot of ideas to go home and convert all 493 communities in my country to adapt to climate changes

### Others

Find others interested in coast flooding

Break great aspects of adaptation to manageable questions

Create a good working atmosphere and conditions that enables people to reach their expectations from the training

### Networking

Build connections and a community of practice

Meet future networking partners

Transnational outlook

Develop new contacts and make new friends

Synergies

Meet interesting climate adaptation people



### Socio-Economics

Learn about the economics of adaptation

Gain insights socio economic aspects of climate change adaptation

How to connect knowledge and policy making?

What's the better scale to manage adaptation?

How to fund adaptation measures?

### Joy and Fun

Hear all guitar specialists playing beautiful songs at Biovilla.

Sing and play along beautiful songs together

Eat and drink local wine and food

Everyone feels at home

## World Café of BASE Best Practice Examples and Case Studies



### The WORLD CAFÉ principles

Set the **CONTEXT**

Explore **QUESTIONS**  
that matter

Share collective  
**DISCOVERIES**

Create hospitable  
**SPACE**

Encourage everyone's  
**PARTICIPATION**

**LISTEN** together  
for insights

Connect diverse  
**PERSPECTIVES**

## World Café GUIDELINES

- ✦ FOCUS on what matters
  - ✦ LISTEN to understand
    - ✦ Connect IDEAS
- ✦ Contribute your THINKING and experience
  - ✦ PLAY, doodle, draw
  - ✦ Listen together for PATTERNS, insights and deeper connections



Learn more at  
[www.theworldcafe.com](http://www.theworldcafe.com)

## Economic Evaluation of Adaptation Options

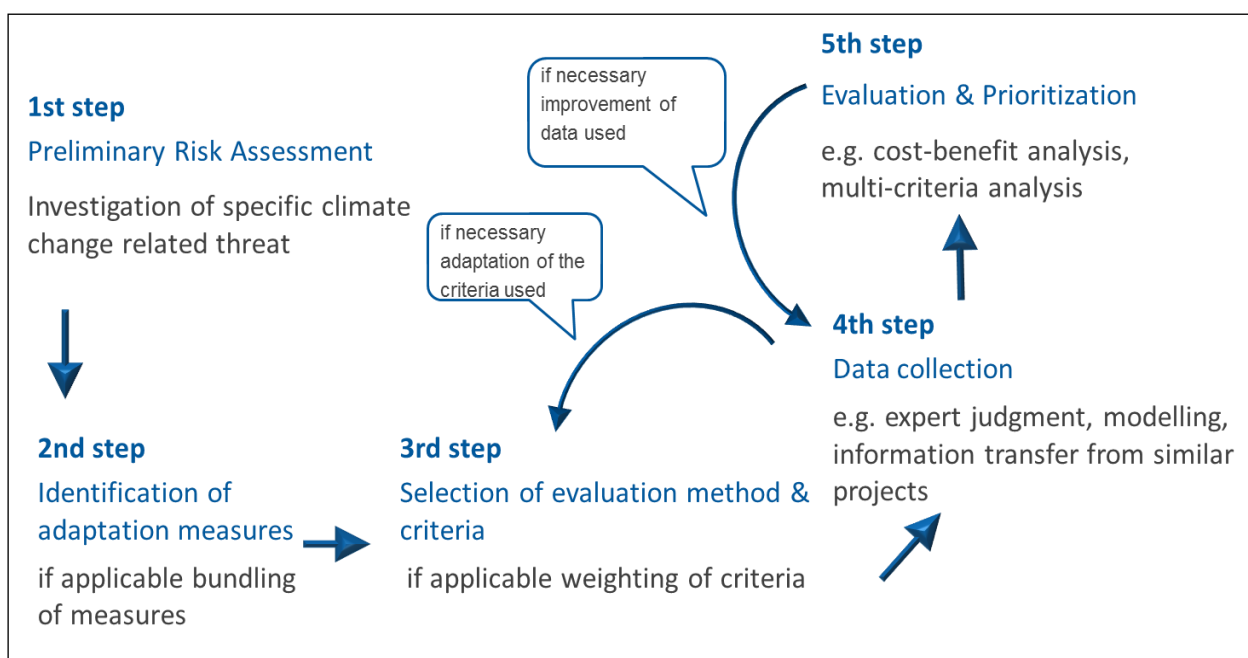


It is widely acknowledged that despite the manifold efforts to reduce greenhouse gas emissions in order to slow down anthropogenic climate change some of its consequences cannot be averted anymore. Therefore, the need for adapting to these changes has increasingly been recognised as a major societal challenge. Decision-makers, who are increasingly confronted with these challenges and have to make complex decisions over short timespans in a fast-changing world. They are challenged to address the social, environmental and economic resilience of their communities while dealing with tight public budget constraints, competing policy claims and high levels of uncertainty. Confronting this socio-political demand asks for the use of solid economic tools, which have to be themselves efficient, easy to understand and apply, while at the same time scientifically sound and socially accepted.



In this session we aimed to provide guidance and examples for the economic evaluation of adaptation options. We introduced a stepwise approach which was applied in twenty BASE case studies (see figure below), as well as several tools used within this process. Exemplary results from some of the case studies were shown. Furthermore, we gave some conclusions regarding a) the results of the evaluation and their transferability and b) the applicability of methods, tools and data sources for the economic evaluation of adaptation options.

In the workshop part of the training sessions participants were asked to take the stepwise approach from BASE and apply it to their own cases, in order to develop a concept for the economic evaluation of adaptation options in their specific case studies.

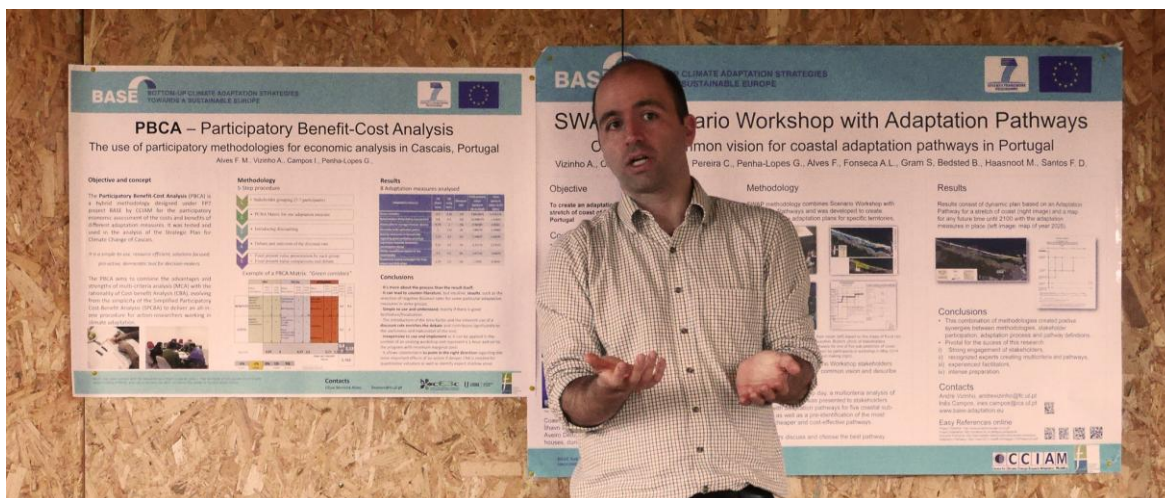


Steps of the process of economic evaluation of adaptation options (Source: BASE Deliverable 5.2)

**Link to BASE report:**

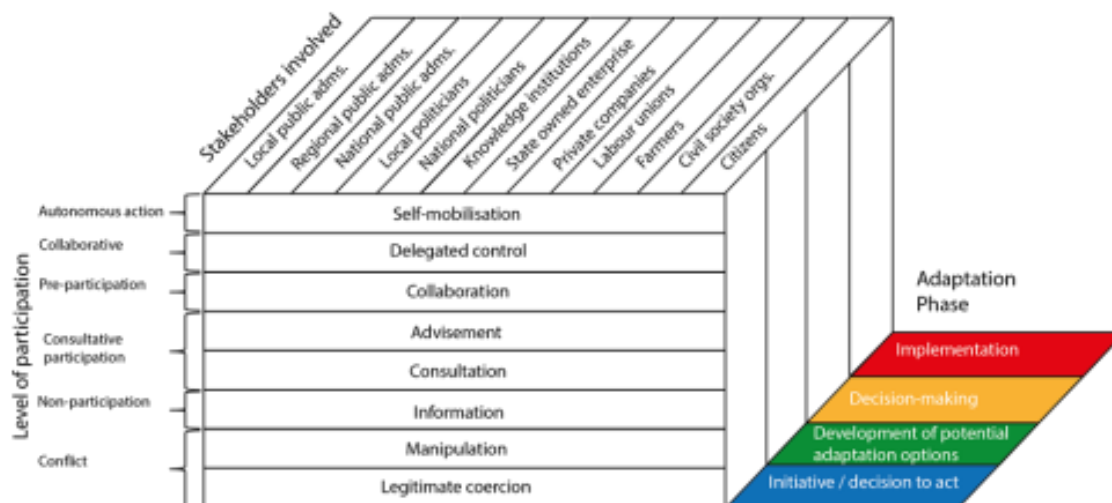
[http://base-adaptation.eu/sites/default/files/Deliverable\\_5\\_2.pdf](http://base-adaptation.eu/sites/default/files/Deliverable_5_2.pdf)

## Participation in Adaptation Processes



It is one of the main objectives of BASE to explore the role of participatory and deliberative methods in improving the integration of knowledge and views of citizens and stakeholders in the design of adaptation strategies, with the aim of improving the design and implementation of such strategies.

The BASE case studies are analysed using a “Participation Matrix” (see below). The aim of the “Participation Matrix” is to provide conceptual clarity when analysing participation and the actor groups involved. The goal of the matrix is to allow for a better understanding of the participatory activities involved in the adaptation process for the case studies. The figure below is a template of the “Participation Matrix”, whereby the case studies are analysed. The aim of the “Participation Matrix” is not prescriptive, but descriptive as it does not claim that a higher intensity of participation is better but rather recognizes the involvement of actors at any stage of the adaptation process. The matrix identifies different dimensions of participation, which is informally visualised, and makes the model suitable for comparing initiatives across case studies.





The identified dimensions include:

1. Level of Participation,
2. Stakeholders involved in the participation process and
3. Adaptation phases. These dimensions were analyzed for the BASE case studies.

As a result, recommendations for policy makers and practitioners were presented:

### Recommendations for policy makers:

Participation processes should...	Participation can...
be politically anchored	reduce costs of adaptation process
provide economic incentives	find synergies with other areas
include all relevant stakeholders	help to prioritize
complemented with a quantitative expert analysis	improve decision making
have defined clear objectives	unfold complex systems
	develop new solutions

### Recommendations for practitioners:

Participation planning should...
have a clear vision for the process
Find a balance between quantitative and qualitative results
Tailor the process to the participants and stakeholders
Use experienced facilitators
Define the time frame of the process
Co-create a common knowledge base

How to use the “Participation Matrix”? A description of different participatory methods and detailed information about the recommendations for policy makers and practitioners are described in the **BASE Report 5.3** which can be downloaded here:

[http://base-adaptation.eu/sites/default/files/Deliverable\\_5\\_3\\_FINAL.pdf](http://base-adaptation.eu/sites/default/files/Deliverable_5_3_FINAL.pdf)

## Implementation Analysis

In the last thematic session of the course participants discussed how adaptation measures can be implemented and what the key obstacles and opportunities are in doing so.

Before the group started the discussion, three short impulse presentations were given. Panos Fetsis gave a short introduction to the EU funding program LIFE. Merete Hvid Dalnæs reported from her work with risk management plans in the Slagelse Municipality. Nico Stelljes reported from the BASE Case Study of Timmendorfer Strand.



- LIFE = L'Instrument Financier pour l'Environnement.
- Projects are fully dedicated to: Pilot, innovative, demonstrative actions to contribute to implementing and developing EU environmental policy and legislation.
- Several ways to benefit from life: • Implement projects: applying as lead beneficiary or as partner; • Get inspired by existing projects in order to identify opportunities; • Use tools & methodologies developed by projects; • Thematic publications.



- Elaborating risk management plans in Slagelse Municipality: • Use of risk and hazard maps; • Good guidance from the state is necessary; • Time is needed to implement the plans; • Communication is very important (Good to show examples and demonstrate possible change).



- Case Study of Timmendorfer Strand: participatory approach of a coastal defense measure.
- Success factors were: • Involvement of key stakeholder from the very beginning; • Understanding the needs of the different stakeholder; • Usage of cost benefit analysis to support the decision-making; • Having enough resources (time and money).

After the short presentations a discussion round was held around the following questions:

- What and who drives (or enables) the adoption and implementation of adaptation measures and strategies/policies?
- What obstacles were encountered during the adoption or implementation of adaptation measures and strategies/policies?
- If any obstacles were overcome, how was this achieved?
- What are the future prospects of the climate change adaptation activities?
- What are the key messages from the different experiences?

**Link to BASE report 5.4:**

[http://base-adaptation.eu/sites/default/files/Deliverable5%204\\_Report\\_final\\_1.pdf](http://base-adaptation.eu/sites/default/files/Deliverable5%204_Report_final_1.pdf)

Discussion of issues, problems and solutions for the implementation of adaptation measures. List of key issues:

- Define the key stakeholder well in advance
- Communicate with the stakeholder in 'their' language
- Define clear responsibilities: the stakeholder will get more involved
- Demonstrate possible effects of climate change – stakeholder will see the need to react
- Do not necessarily name it adaptation – draw on the interest of the stakeholders
- Uncertainty is still an issue – better and more accurate data is needed
- More flexible measures will also help with the issue of uncertainty
- Not only develop plans - turn the plans into action
- To overcome funding issues – seek for low cost measures
- In some cases laws may not be adapted to climate change – these should change as well



## Open Space Technology

Open Space Technology is a participatory tool for groups to work on topics of interest focused on freedom, self-organization and relevance for the group as a complex system. After a theme for the Open Space has been agreed upon, participants can propose session topics and allocate them to a particular predetermined space and time. There will be parallel sessions and the other participants that in that particular slot of time are not presenting a session can choose where they want to give their inputs and contribute to the discussion.

### There are only 5 laws:

- Whoever comes are the right people.
- Whatever happens is the only thing that could have happened.
- When it starts is the right time.
- When it's over, it's over.
- LAW OF 2 FEET: If you aren't in a place where you are learning or contributing, go somewhere where you can.

### And the participant can choose to either:

- Hold a session.
- Stay the entire time in the same session.
- Be a Butterfly, going around each session stopping or leaving whenever (s)he wants, observing.
- Or a Bumblebee, Pollinating sessions from what is being discussed in other sessions.



### BUMBLEBEES and BUTTERFLIES

Use their feet and flit from meeting to meeting.



This approach rewards freedom and self-organization. With these very simple guidelines, participants can co-create solutions, share and contribute to a wider discussion.

More information on Open Space Technology can be found at:

<http://openspaceworld.org/>

## Snapshot Results from one of the Open Space Themes:

### Facilitation Techniques

#### Aspects to keep in mind on facilitation techniques

Don't be afraid to try new activities - methods

You need time to build rapport and trust

Decide what you want to achieve first and then design the activity around the aim.

Get groups to meet without the facilitator

Cut the internet

Give them the opportunity not to participate

Ask the quiet person in the room

Start by formal grouping and move to more informal grouping

Start on time + finish on time

Quality of venue, food and consistency

Climate / environmentally friendly event e.g. accessible by public transport

Set ground rules

Room setup – theatre style not good for discussions

Use small tables as gathering points rather than as desks to put your laptops on

#### Energizers

Shifting places

Standing up stretching

Music

Massage

Games

Voting with your feet, move in different parts of the room

Mix the groups up

#### World Café

Table cloth as a paper

Coffee/Café music

Small groups

30min at each table

At least 3 tables

Send in topics before event

Work out why you are doing it





### Ice Breakers

Cards of different topics e.g. food, colours or climate impacts and ask them to pick their favourite or chosen card and discuss with partner.

Position yourself in order of geographic location of where you were born (N-S) and talk to the person close to you (constellation mapping) they need to talk to each other to order themselves.

Find 3 things out about another person in the group

Find something you have in common with the whole group

The "bean" game. Start with all one colour of beans and aim to collect different colour beans by speaking with each participant.

Name games

### Coming to a decision

Be clear how you will follow up after an event

Don't force a decision

Give a space for people to follow up

Get people to vote with their feet

Sticky dots

Take into account feedback + incorporate





## Biographies - Participants



### Viorica Cergă

*Assistant Project Manager "A green way to sustainable development"*

**Environmental Protection Agency Sibiu**  
Romania

Work Experience: 2015-Assistant manager in the project "A green way to sustainable development", supported by EEA Grants 2009 – 2014, in RO07 Adaptation to Climate Change  
2004–2014 - Environmental Protection Agency Sibiu - Senior Adviser in Permit Department Environmental Impact Assessment Directive,

Seveso, IPPC Education and Training: 2011-Postgraduate – Modern methods in Environmental Impact Assessment for Products and Process"; 2008-Master Degree "Industrial Management "Lucian Blaga" University Sibiu; 1997-University of "Lucian Blaga" Sibiu, Faculty of Ecology and Environmental Protection; Certificate of participate in the training session Project Manager; Trainee – EEA Grants under the project "Partnership for a clean environment, low waste and sustainable development in Region 7 Center"; Certificate of participation "Implementing acquis communautaire in IPPC and Seveso II"; Certificate of participation "Regional workshop regarding writing projects, communication, public relations and international relations"; Participate in training on Environmental Impact Assessment, IPPC, Seveso, Adaptation to Climate Change Publications - author of Guides regarding Waste Management and Waste Landfill under the project "Partnership for a clean environment, low waste and sustainable development in Region 7 Center", Norway Grants. Membership: The Romanian Environment Association.





**Luis Costa**

*Environmental Engineer*

**Potsdam Institute for Climate Impact Research (PIK)**

Germany

I graduated in Environmental Engineering at the University of Trás-os-Montes e Alto Douro in 2006. In the same year I moved to Germany and in 2013 received my Ph.D. from the University of Greifswald under the topic “Climate Change Adaptation and its Costs in a Carbon Constrained World. Most of my work has been developed at the Potsdam Institute for Climate Impact Research in Germany. My main research interests are related to simulate impacts from sea-level rise in socio-economic systems, as well as understanding what could be feasible adaptation strategies. In this respect, I’m particularly interested in representing adaptation as a stage-dependent process in cost assessments. Further interests include fiction writing, collecting maps and playing guitar.



**Merete Hvid Dalnæs**

*Project Manager in cases of coastal protection*

**Municipality of Slagelse**

Denmark

In 1998 I started to study geography in Copenhagen, which I chose the natural geographical line specializing in hydrology. Alongside my studies I worked in DDH (now Orbicon). After studying I was a year in Vejle as an environmental consultant, after which I was engaged in the Area Office in Funen County. After the local government reform in 2007, I had responsibility for nature, rivers, trails and many other tasks within the plan and authority area in a small municipality: Municipality of Langeland. Then I got a temporary / project position streams employee in Slagelse. After 1½ year I got new responsibilities with the Nature Protection Act, coastal protection law and landscape mapping. Three years ago I took a project management course and was appointed project manager for the security of Korsør against flooding from the sea. The main competencies of a physical geographer like me, knowledge of processes and the interaction between man and the world that surrounds us. I have great interest in planning, water, nature, coast and EIA and care about the big picture, especially in complex cases. I develop all the time as a project leader and it is in the field that I see my future.



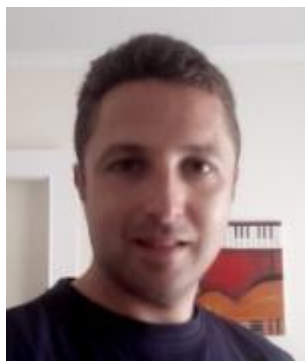
### **Juliette Daniels**

*Cities Manager (Europe, Middle East and Africa)*

**CDP**

England

Juliette Daniels is the Cities Manager for Europe, Middle East and Africa at CDP. CDP works with investors, companies, and governments to drive environmental disclosure and action that will deliver a sustainable economy, prevent dangerous climate change and protect natural resources. CDP holds the largest collection globally of self-reported climate change, water and forest-risk data. She started in this role in August 2015. Prior to this, Juliette was Manager of the London Climate Change Partnership (LCCP) since 2010. LCCP is a cross-sectoral partnership focused on adaptation to climate change and resilience to extreme weather in London. In 2011 Juliette co-founded Climate UK, a community interest company focussed on driving local action on climate change within the UK. She served on Climate UK's Board of Directors until 2015, with the executive portfolios for Health and Business Development. Juliette previously worked for the Environment Agency (England) in a variety of communications and public affairs roles, and has several years of experience as a freelance communications consultant and politics editor.



### **Julián Díaz Ortiz**

*Senior Technical Official in environmental issues*

**Government of Cantabria**

Spain

Julián Díaz Ortiz is native of Santander (Cantabria). He is graduated in Chemical Engineering, M.Sc. in Sustainable Production and Consumption and PhD in Chemical and Process Engineering from University of Cantabria (Spain). He worked as researcher in the University of Cantabria until its incorporation as a career public officer in the Government of Cantabria (Chemical Engineer specialty) in 2006. From that moment he has combined his work in the DG Environment of the Government of Cantabria, with research work focused on environmental management of processes and products, and teaching as associate professor in the Department of Chemical and Biomolecular Engineering of the University of Cantabria. His expertise focuses on environmental assessment linked to industrial pollution control and climate change management via mitigation and adaptation strategies. He participates with an active role in the promotion, development and management of EU funded projects, as well as expert evaluator of EU Horizon 2020 and support in development cooperation projects.



### João Dinis

*Coordinator*

**Câmara Municipal de Cascais**

Portugal

João Dinis is an expert in local sustainability and transition projects. During his experience, he was responsible for the implementation of sustainable project within the Local Agenda 21 of Cascais, such as the urban agriculture program and participatory processes (participatory budgeting, sessions for urban infrastructures and public space, etc.). In addition, he was responsible for technical analysis of the sustainability strategy, environmental monitoring and reporting.

His abilities and knowledge on sustainable development were furthered and shared during his years as a guest teacher in the Estoril Superior School of Hospitality and Tourism where he taught sustainable tourism, GIS planning and local development.

João was been the coordinator of the Climate Change strategy for the city of Cascais since the start of the program. During its six year existence, numerous activities and co-funded projects were implemented with partners from Europe. This strategy ensured a successful assessment of vulnerabilities, adaptive capacity and scenarios, stakeholder involvement and action plan.



### Bernd Eggen

*Principal Climate Change Scientist*

**Public Health England (PHE)**

England

I am principal climate change scientist in the Air Pollution and Climate Change group of Public Health England, based at the Centre for Radiation, Chemical & Environmental Hazards (CRCE) near Oxford. I obtained a PhD in Theoretical Chemistry from the University of Sussex and have over twenty five years' experience in environmental modelling topics, including climate change and climate change adaptation, in both public (Met Office Hadley Centre) and private sector roles (Halcrow, Schlumberger).

Recently I worked on the publication of the "Health and Care System Adaptation Report 2015", which looks at climate change adaptation across the whole of England's health care system, and prior to that on producing the "Health Effects of Climate Change in the UK 2012" report (co-author of 3 chapters: climate change evidence, temperature impacts, changes in UV radiation & effects on health) and "Health Impacts of Windstorms". My current interests are climate change adaptation, allergenic pollen & climate change, temperature effects on health, risk communication and environmental modelling.



### **Panos Fetsis**

*Climate Change expert (LIFE Programme)*

**Neemo – AEIDL**

Belgium

Working as a Climate Change and Energy Expert in the LIFE Communications team, Panos is responsible for the active analysis and dissemination of the results of the LIFE Programme. Due to his concern over environmental degradation, he sought to combine his background in economics and 4 years of work experience at Ernst & Young with environmental and sustainable energy generation

projects.

At Piraeus Bank, as a coordinator in the first “Green Banking branch” in South-Eastern Europe, he provided consulting services in the field of environmental technologies, including economic, technical and policy advisory. Panos has actively participated in the elaboration of various EU environmental projects, mainly focused on three areas: socio-economic impact of natural resource management; climate change economic risks and opportunities; climate change mitigation technologies. Panos holds a Master degree in Economics for Natural Resource and Environmental Management. He speaks Greek, English and French.



### **Fremault Birgit**

*Senior Consultant*

**Tractebel Engineering**

Belgium

Birgit Fremault is bio-engineer and followed additional training on energy (Energy expert type A) and sustainability (BREEAM Communities assessor). Since 2012 Birgit has been working at Tractebel Engineering on various policy projects concerning green

economy, sustainability and climate change.

She developed her skills on climate change adaptation by participating in 2 studies, one on the exploration of the federal contribution to a coherent policy concerning climate adaptation, and another on the development of qualitative and quantitative guidelines for climate change adaptation in spatial planning and urban development. As a project manager she has been particularly involved in the development of sustainability criteria for products and services related to green space and for construction products. In terms of energy-efficient mobility, Birgit is actually coordinating PIEK 2, the Flemish project on silent urban logistics. Previously Birgit worked for more than 10 years as advisor on environment and sustainability at the Federation of Enterprises in Belgium (FEB). Therefore Birgit has a solid knowledge on green and sustainable economy in particular on the relevant legislation at European, federal and interregional levels. Climate change and energy efficiency were her key issues at the FEB. She worked on several publications.



**Thomas Henfrey**

*Senior Researcher and Learning Programmes Coordinator*

**The Schumacher Institute**

England

Tom Henfrey completed a doctorate in Environmental Anthropology at the University of Kent in 2002, the first in this subject to be awarded at a British university. His doctoral thesis was based on two years' fieldwork on indigenous resource use and associated knowledge systems in Guyana, which later fed into the development of the monograph 'Edges, Frontiers and Fringes', due to be published by Berghahn books. His subsequent academic career included several years as a lecturer in Anthropology at Durham University, and researcher in the university's Energy Institute and the Centre for Social Justice and Community Action. He has also contributed guest lectures to programmes in Human Ecology at Kent University and Sustainable Living at York University. His current work occupies the interface of research and grassroots sustainability action, particularly in permaculture, Transition, and community energy. He co-founded and co-coordinates the Transition Research Network, is an active member of the Permaculture Association's Research Advisory Board, and is a worker-director at Northern Community Power, a Community Interest Company that works at the interface of renewable energy and community development.



**Beatrix Kosztyi**

*Researcher*

**National Adaptation Center**

**Geological and Geophysical Institute of Hungary**

Hungary

Since February 2014 I am working on assessments of the impacts of climate change adaptation. I help strategic planning and elaboration of adaptation measures for the Second Hungarian Climate Change Strategy and take part in developing the Climate Change Action Plan. I participate the elaboration of concepts of Local Climate Change Strategies; work on the development of the Settlement Adaptation Barometer questionnaire and keep in touch with international partners of climate change adaptation. I got my degree in biology/ecology at Debrecen University in 2010. Now I am writing my PhD dissertation about obligatory monitoring measures of biodiversity in the European Union. Furthermore I am a second year correspondent MSC student studying International Public Relationship and my focus is climate change adaptation in the EU. I speak English (advanced) and Spanish (intermediate). I consider myself being able to work efficiently on my own and as part of a team too. One of the most important thing about me is that I am rather open-minded. I like travelling and had the opportunity to study biology at the King's College University, London and tropical biology at Bogor University, Indonesia.



### Klaus Pallesen

*Project Manager*

**Municipality of Fredensborg**

Denmark

Education:

Ms. Sc. In environmental biology and chemistry, University of Copenhagen

Post graduate courses in water- and wastewater treatment, and project management, Technical University of Denmark.

Professional experience: November 2012 – Present (3 years)

Denmark:

Municipality of Fredensborg, Denmark - Project Manager

Project management for EC LIFE sponsored project on climate change adaptation and flood control for the Stream of Usserød water system.

2003 – 2012 (9 years): ALECTIA consulting engineers and planners - Project Management Consultant

Assigned to the Department for Owner Rep Services ("Bygherrerådgivning"). Planning, tendering and project management for complex projects

December 1987 – August 2003 (15 years 9 months):

Birch & Krogboe A/S - Environmental consultant, services for private companies and public organisations

August 1985 – December 1987 (2 years 5 months):

Copenhagen Municipality, wastewater department



### Isabel Rosa

*PeaceWorker*

**Tamera Healing Biotope**

Portugal

I am Portuguese, born in 1968. I am a Peace Worker in training and a guided networker. Before my arrival to Tamera Healing Biotope in Southern Portugal in 2011, I was working in advertisement for around 20 years in different areas. Although being a photographer was always my most beloved profession and the one that I still practice. Parallel of my city life, since my early age I was looking to be

in nature, because I felt so much more resonance and I also connect with myself in a deep way. I feel connected with the Whole. I took a course of Permaculture Design and it was the beginning of my change. I decided to live in Tamera and started at the Ecology for 6 months to learn more about permaculture, about seeds, about plantation of trees; about the being of water. I took a course of building water retention landscape; School Mirja; Love School. I love to learn how to live in a community, I love to walk in nature and to observe all that lives from animals to plants to humans. I did several workshops and retreats for self knowledge.



**Barbara Simonič**

*Senior Advisor*

**Ministry of the Environment and Spatial Planning**  
Slovenia

Born on 2nd of February in the infamous year of 1984 I soon started exhibiting strong will and interest in everything this life has to offer. That led me to study International Relations at the University of Ljubljana and European Political and Administrative Studies at the College of Europe, Belgium. In between I tried to fit in as many extra-CV activities as possible, including heading a local scout group, participating in projects, attending numerous seminars, international conferences, and the like. My professional path started at the Centre for research on crises and risks in Nice, France, with an internship in the framework of Leonardo da Vinci programme before landing in Slovene public administration due to scholarship obligations. In the last 5 years working in different entities I have covered a wide array of topics related to both climate change mitigation and adaptation. Lately, work on adaptation focuses mainly on improving knowledge bases, streamlining adaptation with EIA/SEA, water management, national disaster risk assessments and initiating a climate change risk assessment, while I'm also trying to respond to various queries as a national contact point on adaptation.



**Sophie Turner**

*Climate Resilience Project Coordinator*

**Adaption Scotland / Sniffer**  
Scotland

Sophie plays a key role in delivering the Adaptation Scotland programme through delivering the Adaptation Learning Exchange (ALE). The ALE provides a collaborative process to support organisations across Scotland with adaptation planning through the sharing of ideas, highlighting good practice and increasing learning and networking opportunities. This involves organising and delivering workshops, providing one-to-one support to organisations, encouraging partnership working and running training sessions. As part of her role, Sophie also supports public bodies to enable them to comply with their climate change duties, which includes helping them report on their adaptation progress.

Prior to joining Adaptation Scotland, Sophie worked on a variety of action-based adaptation research projects at RMIT University in Melbourne, Australia. Sophie also worked at UKCIP as a science officer, delivering and disseminating climate science information on the UK Climate Projections (UKCP09), and as a project manager/GIS officer in the flood risk management department at the Environment Agency.

### Ana C. Vasconcelos

*Research Assistant*

**Rhineland-Palatinate Centre of Excellence for Climate Change  
/ Chair for Landscape Management - University of Freiburg  
Germany**



Born in Lisbon in 1981. In 2000 concluded a technical education on “Environmental Management” at a Technical Agrarian School near Lisbon. Studied “Forestry Engineering” at the University of Trás-os-Montes and Alto Douro (north Portugal) and complete the Degree in 2007 at the Instituto Superior de Agronomia of the Technical

University of Lisbon. Via EU Program “Leonardo da Vinci” realized a training at the Research Institute for Forest Ecology and Forestry on the Federal State of Rhineland-Palatinate (Germany), developing a Project about management of Buffer Zones of UNESCO Biosphere Reserves. In 2008 started to work as Research Assistant at the Chair for Landscape Management - University of Freiburg being delegated by the Rhineland-Palatinate Centre of Excellence for Climate Change. The regional impacts of Climate Change on forests of Rhineland-Palatinate are since then the main research topic. „Forests and Climate Change – Basis for the Adaption in Rhineland-Palatinate“ is the title of the resulting PhD Thesis from 2013. On the same year the Dissertation was awarded with the “Lennart-Bernadotte Award for Landscape Management”. Actual research project focus on impacts and adaptation on forests under nature conservation.

## Biographies – Training Course Team



### Volker Meyer

*Researcher*

**Helmholtz Centre for Environmental Research - UFZ /  
Department of Economics  
Germany**

Dr. Volker Meyer, is researcher at the Department of Economics at UFZ in Leipzig. He has expertise in the assessment of the costs of natural hazards and the economic evaluation of risk management and climate change adaptation options. Volker Meyer coordinated the project “Risk Map” ([www.risk-map.org](http://www.risk-map.org)) dealing with the improvement of content and visualisation of flood maps and the EU project “Costs of Natural Hazards” ([www.conhaz.org](http://www.conhaz.org)) which aimed at compiling and synthesising current knowledge on cost assessment methods for natural hazards. Furthermore, he was involved in the EU project Floodsite ([www.floodsite.net](http://www.floodsite.net)), the Flood-ERA project ([www.flood-era.ioer.de](http://www.flood-era.ioer.de)) and in the GLOWA-Elbe project on the impacts of global change on water scarcity ([www.glowa-elbe.de](http://www.glowa-elbe.de)). Currently, he is task leader in the EU research project BASE (Bottom-up Climate Adaptation Strategies towards a Sustainable Europe), with the focus on economic evaluation approaches for adaptation options. In 2014 he won the Prix Gay-Lussac Humboldt for French-German Cooperation in Science.





### Filipe Miguel Moreira Alves

*Researcher*

**FCUL/CCIAM – Center for Climate Change Impacts  
Adaptation & Modelling**  
Portugal

Graduation and Masters in Economics, is currently doing his PhD in Policies for Sustainable Development and Climate Change at the University of Lisbon. Researcher in climate change adaptation since 2012 at CCIAM/CE3C namely in the

FP7 project BASE. National coordinator of the SIRClE project.

Permaculture Designer and social entrepreneur is co-founder of Biovilla (Sustainability co-op), of Coopérnico (Solar energy co-op), of Conexão Lusófona (Cultural NGO) and ECOLUTION (Environmental NGO), working with social enterprises since 2007 and currently a member of the board of the portuguese network of third sector leaders (ESLIDER).

Has been inspired by regular visits to the Schumacher College, Findhorn Foundation, New Economics Foundation and Auroville since 2008. Trainer for the Youth in Action EC Programme from 2010 till 2014, has also been delivering talks and trainings on Permaculture, Sustainability economics and resilient living economies in several portuguese universities and different institutions. Shares a deep passion for alternative monetary economics.



### Gil Penha-Lopes

*Invited Auxiliary Professor*

**cE3c research centre, Faculty of Sciences,  
University of Lisbon (FFCUL)**  
Portugal

I graduated in 2004 on Marine Biology at the Faculty of Sciences of the University of Lisbon (FCUL), with a training in aquaculture at Florida Institute of Technology (USA). In February 2009, I completed my PhD in Applied Ecology

(Wastewater Wetlands) at FCUL in collaboration with Vrije Universiteit Brussel. In February 2009 I started a Post-Doc on ecosystem engineering modeling (in collaborating with Southern Denmark University) and in November 2011 I extended the focus of my Post-Doc topic into Integral Ecology, integrating cultural, socio-economic & policy dimensions. My intention was to find robust strategies that promote local sustainability and climate resilience, and I found CCIAM research group to best support and benefit from this research topic. I am now mainly participating in an European project to better understand local adaptation (BASE: [www.base-adaptation.eu](http://www.base-adaptation.eu)) and coordinate a Portuguese project that aims elaborating 26 Municipal Adaptation Strategies and promote local adaptation (ClimAdaPT.Local: [www.climadapt-local.pt](http://www.climadapt-local.pt)). Since 2013 that I lecture on the Climate Change and Sustainable Developmental Policies Doctoral Program of Lisbon University and have founded ECOLISE: [www.ecolise.eu](http://www.ecolise.eu).



### Hugo Oliveira

**Faculty of Sciences,  
University of Lisbon (FFCUL)**  
Portugal

Hugo Oliveira finds his peace in the reconnection with Nature. With a background in Biology and post-graduations on Landscape Ecology, his curiosity and inquisitive mind lead him to study interconnected ways to integrate human settlements back to their healthy relationship with the natural surroundings. He's a Research Associate within the European project BASE, at the Center for Ecology, Evolution and Environmental change (CE3C) – FFCUL. He's currently attending a PhD program on Interdisciplinary Landscape Management / University of Évora, studying the Permaculture movement in Portugal. And an MA in Ecological Design Thinking / Schumacher College. From 2006 onwards he had been studying, applying and teaching Ecovillage and Permaculture Design. He studied in Crystal Waters, Auroville, Tamera, Wongsanit Ashram, Schumacher College and other institutions. Hugo was a co-founder of the "Naterra – Education for Sustainable Development Association" a NGO based in Macao, China. And the site manager and permaculture trainer for the East Timor Permaculture community project "Raio de Sol" from 2008 till 2010.



### Nico Stelljes

*Fellow*  
**Ecologic Institute**  
Germany

I studied environmental science at Leuphana University Lüneburg (Germany) with a focus on ecology and landscape planning. In my thesis I focused on sand replenishment as a coastal protection strategy on the island of Sylt. During my phd I focused on the impact of demography change on sustainability aspects in a coastal region, which was published 2012 and conducted at the Helmholtz-Zentrum Geesthacht together with the University of Hamburg.

Since 2011 I am a Fellow at the Ecologic Institute, Berlin. I was mainly involved in a German project on adaptation to climate change called Regional Adaptation Strategies for the German Baltic Sea Coast (RADOST), where I focused on the identification and transfer of best practices in climate adaptation measures in a national and international context. Within the BASE project I am part of the coastal cluster, hosting the BASE Case Study of Timmendorfer Strand. Also, I was Co-Chair in the program committee of the ECCA Conference, the European Conference on Climate Adaptation, which was held this spring in Copenhagen.



### **Elena von Sperber**

*Events*

**Ecologic Institute**

Germany

As part of Ecologic Institute's Events Team, Elena von Sperber engages in the conceptualization and organization of conferences, workshops, dialogues, and study tours. Her area of particular interest is transatlantic exchange, bringing together environmental experts and stakeholders from both sides of the Atlantic, for dialogue, debate, and exchange of best practices. Before joining Ecologic Institute, she coordinated the international beach certification programme Blue Flag from their international head office in Copenhagen. Elena holds a degree in international cultural and business studies from the University of Passau (Germany) and a master's degree in International Environmental Science from Lund University (Sweden).



### **Filipa Santos**

Apprenticeship coordinator

**Biovilla Sustentabilidade**

Portugal

Filipa Santos is a designer and a social Permaculture trainer. She co-created, developed and implemented a Permaculture land-based life system between 2008 and 2014, where she was living and developing her passion for people, supporting and guiding many on their life transition, from a conventional lifestyle to a more authentic, sustainable and conscious life journey. She was instrumental in the growth of the Permaculture movement in Portugal, and is closely connected to the Transition Town and Ecovillage networks. Filipa developed a method of designing one's inner landscape, based on the Permaculture whole system approach, "from the Inside Out" facilitating personal mapping and vision building processes. She is currently coordinating Apprenticeships at Biovilla, a sustainable and socially responsible cooperative. She is a graduate in Product Design at Universidade de Lisboa, Faculdade de Belas-Artes (2007), two Permaculture Design Certificates (2009/13), the Ecovillage Design Education Training (2013) and a Permaculture Teacher Training (2014). She is also trained in Transition Town, Inner Transition, People and Permaculture and several other social technologies.

## Impressions



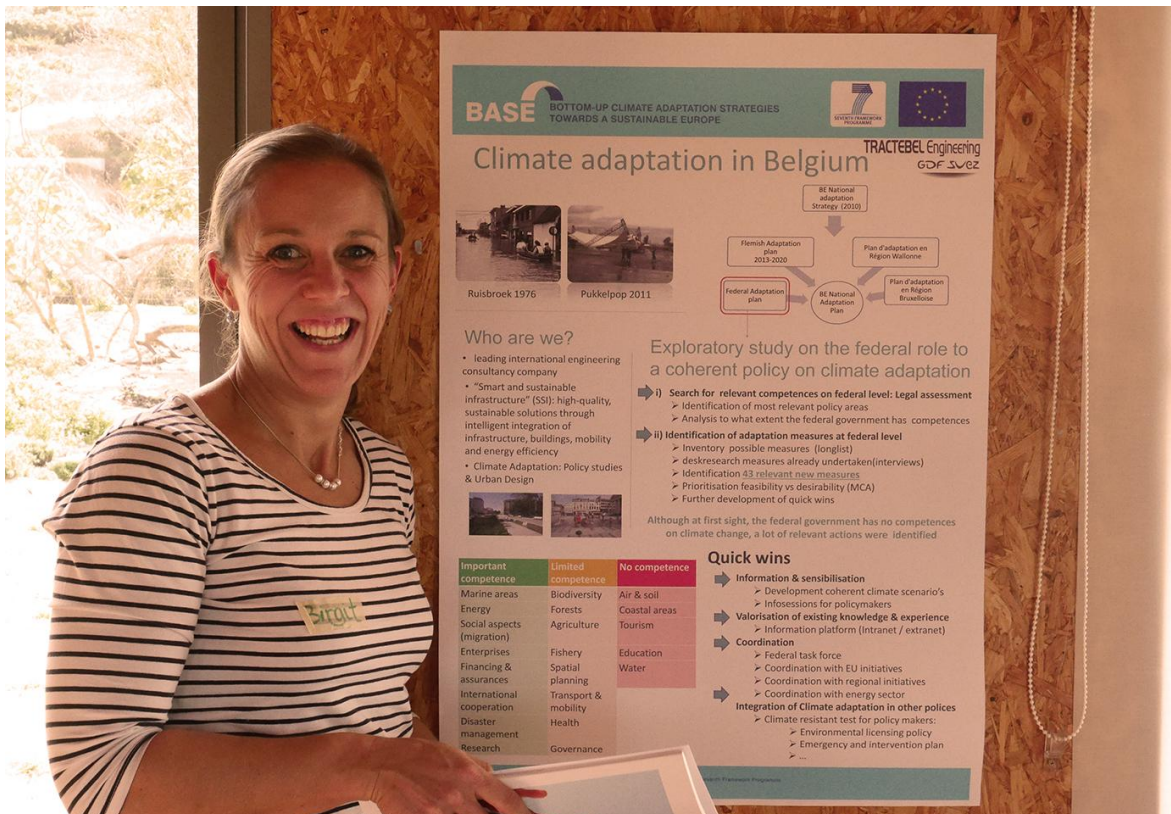


## Poster Exhibition

All participants prepared a poster on their work on local adaptation action and presented it at the training. All posters can be accessed at:

<http://base-adaptation.eu/transnational-training-course>







Layout & Graphics: Filipa Santos, Anna-Helene Römer  
Texts: Volker Meyer, Hugo Oliveira, Gil Penha-Lopes, Filipa Santos, Nico Stelljes, Elena von Sperber  
Fotos: Elena von Sperber, Nico Stelljes, Biovilla



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