

Welcome to the

# ESMERALDA Stakeholder Workshop

on ecosystem service mapping and assessment in EU member states at national level



EU Horizon 2020 Coordination and support action



# Enhancing ecoSystem sERvices mApping for poLicy and Decision mAking



**Benjamin Burkhard**  
Coordinator, Kiel University

EU Horizon 2020 Coordination and support action





★ **Target 2:**

*“to improve knowledge of ecosystems and their services in the EU (Action 5) – the member states shall **map and assess the state of ecosystems and their services** in their national territory by 2014, assess the economic value of such services, and promote the integration of these values into accounting and reporting systems at EU and national level by 2020”*

<http://ec.europa.eu/environment/nature/biodiversity/comm2006/2020.htm>

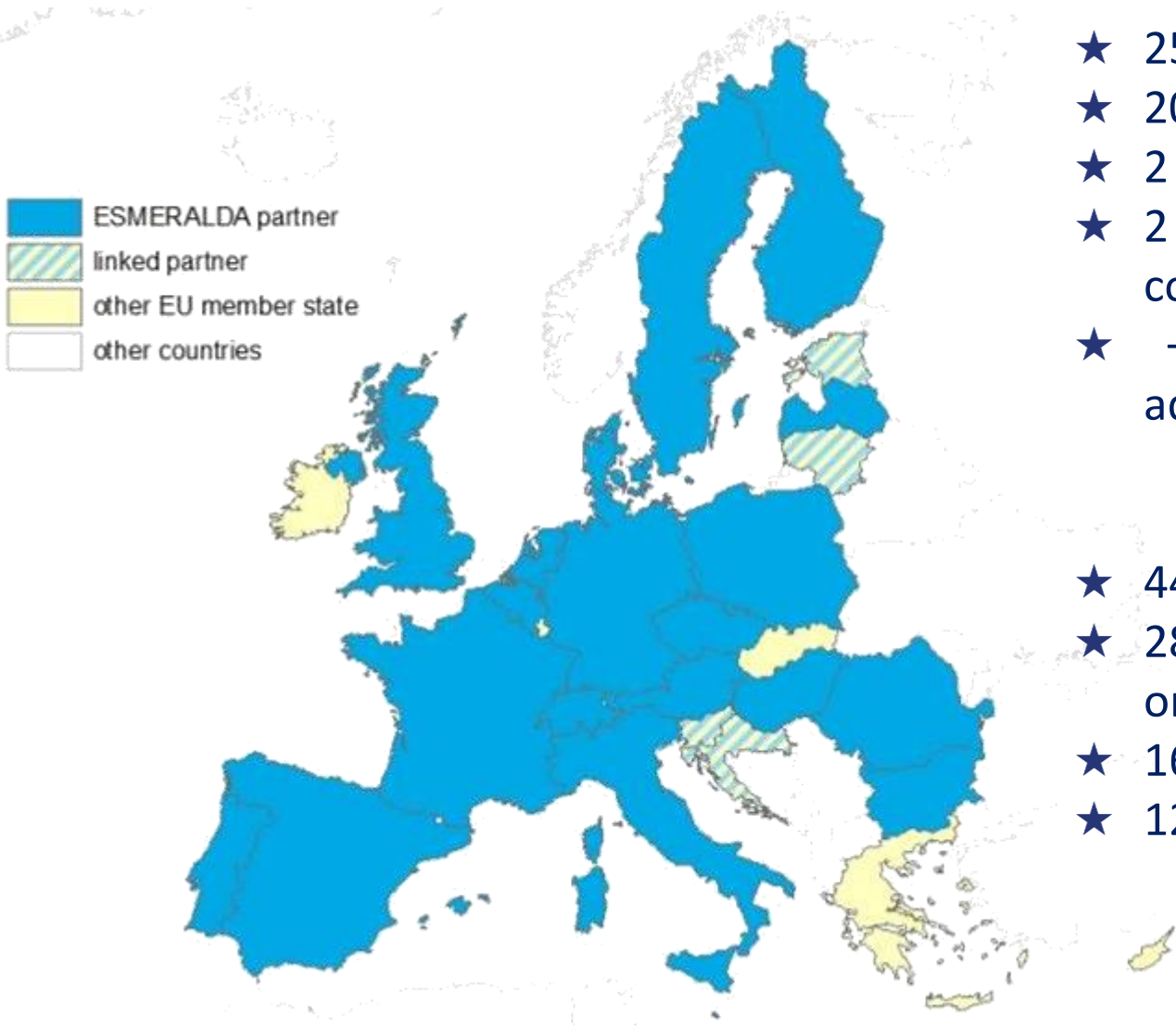
## EU Horizon 2020 topic addressed:

- ★ **Enhancing mapping ecosystems and their services**
- ★ Subcall SC5-10a-2014 of H2020-SC5-2014 call on *Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials*

## ESMERALDA targets:

- ★ **Ecosystem Services (ES) mapping and assessment strategies** for EU member states
- ★ Deliver a '**flexible methodology**' for pan-European, national and regional ES mapping and assessment
- ★ Support the timely delivery by EU member states of **Action 5** of the EU Biodiversity Strategy 2020 by supporting EU MS stakeholders (i.e. national Action 5 authorities)
- ★ Promote **local ES assessments** required for spatial planning, agriculture, climate, water and nature policy
- ★ Transmit experience through **active dialogues** and **co-creation of knowledge**
- ★ **Mobilise all relevant actors**, increase participation of citizens in science and decision making
- ★ Develop a **Strategic Research Agenda (SRA)** for ES mapping and assessment throughout and beyond Horizon 2020

- ★ ESMERALDA is an additional project (**Support & coordination action** funded by EC DG Research & Innovation) to support EU member states in Action 5 tasks
- ★ Builds on/**co-operates** with e.g. EU MAES WG, OpenNESS, OPERAs, MESEU, TRAIN
- ★ **National** and **regional studies** (UK NEA, TEEB, national MAES actions)
- ★ **Coordination** and streamlining existing European ES research
- ★ Exchange of **information, data** and **methods**
- ★ Strengthen existing **networks** and create new European **collaborations** between ES scientists, practitioners, policy makers and the society
- ★ Link European and national research and funding activities with **international activities** (such as ESP, IPBES) - create synergies
- ★ ES mapping and assessment methods **for all EU member states** (incl. the outermost regions and marine areas)

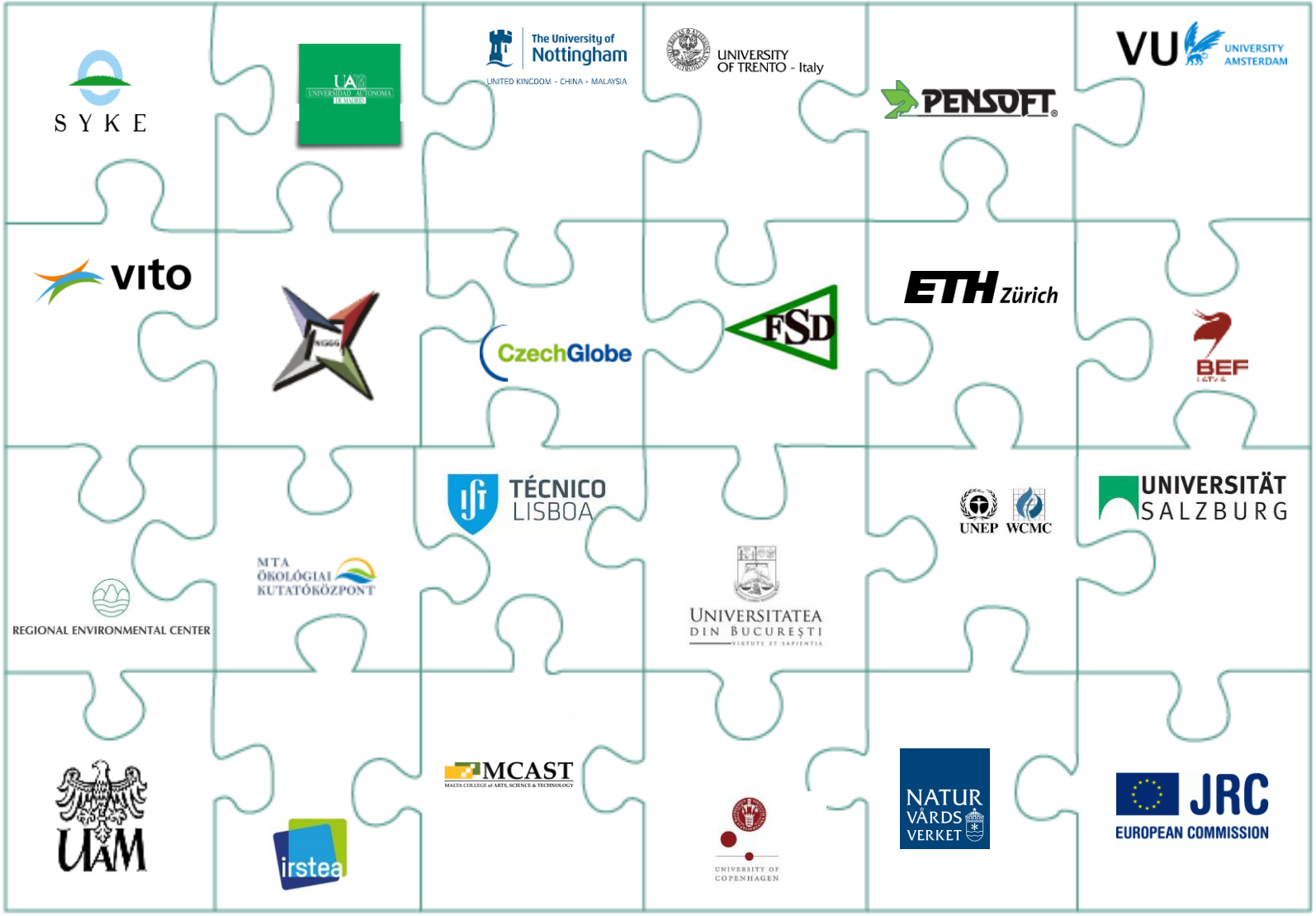


- ★ 25 project partners
- ★ 20 European countries
- ★ 2 linked Baltic countries
- ★ 2 linked western Balkan countries
- ★ + further member states addressed already

- ★ 44 % university partners
- ★ 28 % state or other superior organisations
- ★ 16 % from other academia
- ★ 12 % SMEs



Christian-Albrechts-Universität zu Kiel

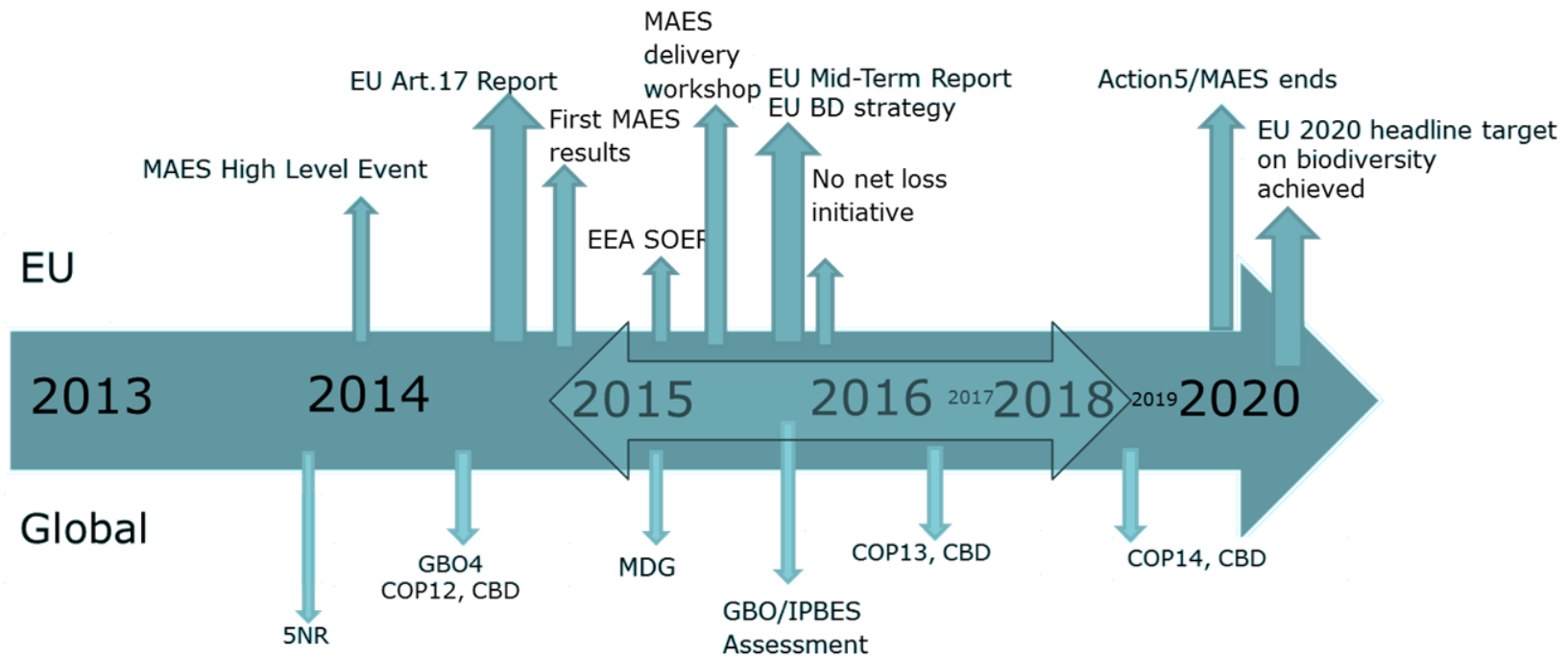




# ESMERALDA timeplan

- ★ Project start: 01.02.2015
- ★ Project duration: 42 months

Timeline showing the integration of ESMERALDA in related EU and global activities:



↔ ESMERALDA

MAES, Mapping and Assessment of Ecosystems and their Services  
 SOER, State of the Environment Report, EEA (European Environment Agency)  
 5NR, 5<sup>th</sup> National Report, Secretariat of the CBD (Convention of Biological Diversity)  
 GBO, Global Biodiversity Outlook  
 COP, conference of the parties  
 MDG, Millennium Development Goals



**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**Key achievements from this phase:**



Project Kick-off Meeting

Milestone 01

May 2015

Benjamin Burkhard  
CAU Kiel

Dissemination level  
Restricted

ESMERALDA  
Enhancing ecosystem services mapping  
for policy and decision making



Official project Kick-off meeting in Kiel in May

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects and databases**;

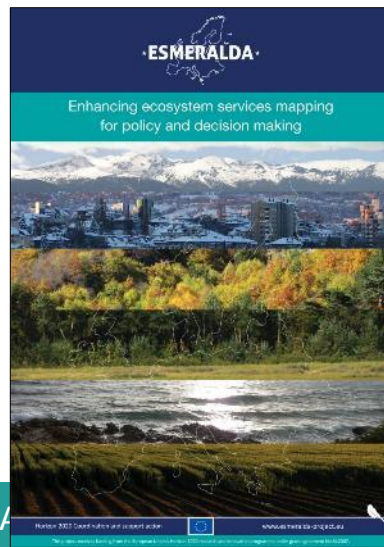
**Key achievements from this phase:**

**Sticker:**

**Logo:**



**Poster:**



**Flyer:**

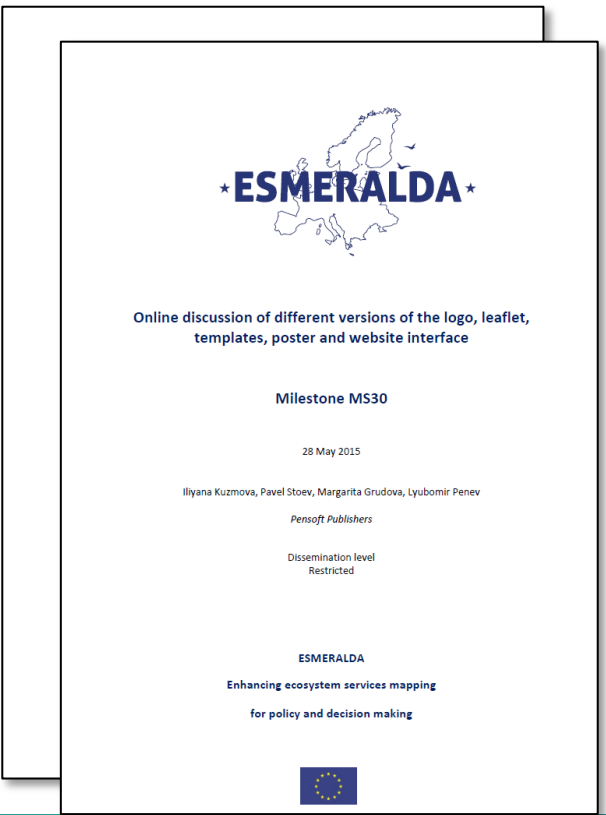


**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects and databases**;

**Key achievements from this phase:**

**Website/Communication platform:**

<http://esmeralda-project.eu>



**ESMERALDA**

Online discussion of different versions of the logo, leaflet, templates, poster and website interface

**Milestone MS30**


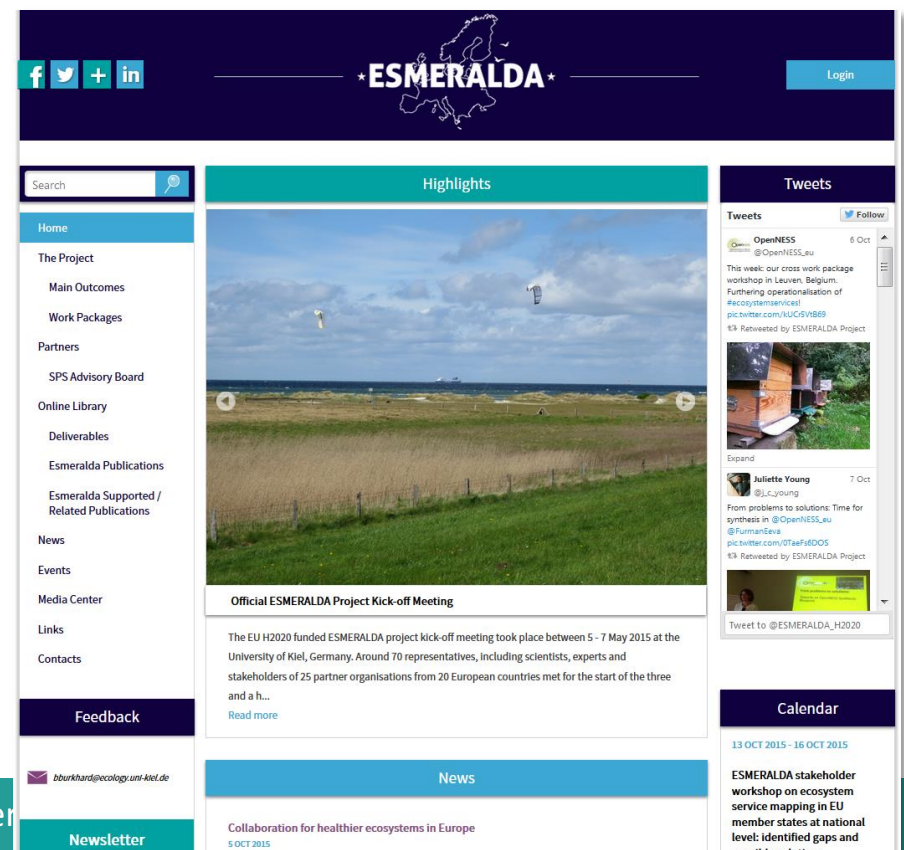
28 May 2015

Iliyana Kuzmova, Pavel Stoev, Margarita Grudova, Lyubomir Penev

*Pensoft Publishers*

Dissemination level  
Restricted

**ESMERALDA**  
Enhancing ecosystem services mapping  
for policy and decision making

**ESMERALDA**

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**Highlights**

**Official ESMERALDA Project Kick-off Meeting**

The EU H2020 funded ESMERALDA project kick-off meeting took place between 5 - 7 May 2015 at the University of Kiel, Germany. Around 70 representatives, including scientists, experts and stakeholders of 25 partner organisations from 20 European countries met for the start of the three and a h...

[Read more](#)

**Tweets**

**Tweets**

**OpenNESS** @OpenNESS\_eu 6 Oct  
This week: our cross work package workshop in Leuven, Belgium. Furthering operationalisation of #ecosystemservices! pic.twitter.com/NUCG5vNB69  
\* Retweeted by ESMERALDA Project

**Juliette Young** @JL\_young 7 Oct  
From problems to solutions: Time for synthesis in @OpenNESS\_eu @FurmanEva pic.twitter.com/OTaeF8RD0S  
\* Retweeted by ESMERALDA Project

**Calendar**

13 OCT 2015 - 16 OCT 2015

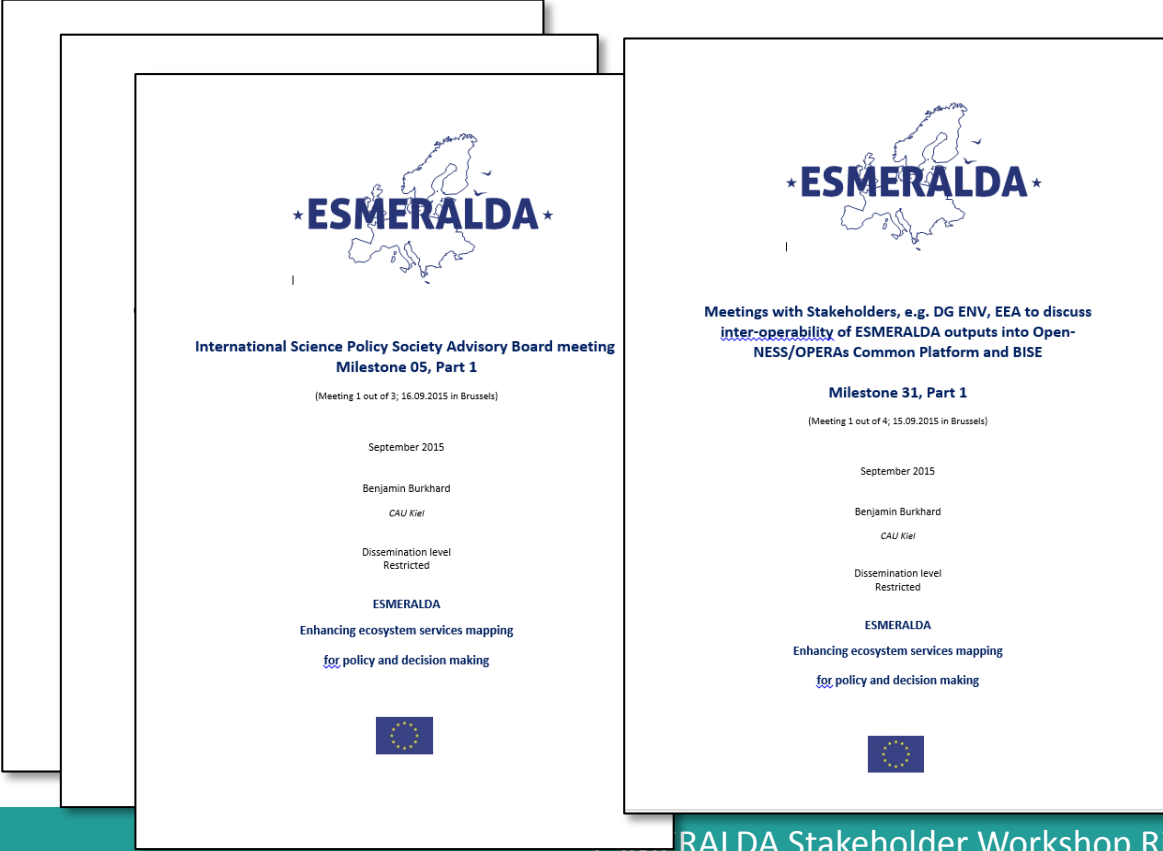
**ESMERALDA stakeholder workshop on ecosystem service mapping in EU member states at national level: identified gaps and possible solutions**

**News**

Collaboration for healthier ecosystems in Europe  
5 OCT 2015

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects and databases**;

## Key achievements from this phase:



**\*ESMERALDA\***

**International Science Policy Society Advisory Board meeting**  
**Milestone 05, Part 1**

(Meeting 1 out of 3; 16.09.2015 in Brussels)


September 2015

Benjamin Burkhard  
CAU Kiel

Dissemination level  
Restricted

**ESMERALDA**

Enhancing ecosystem services mapping  
for policy and decision making



**\*ESMERALDA\***

**Meetings with Stakeholders, e.g. DG ENV, EEA to discuss**  
**inter-operability of ES MERALDA outputs into Open-**  
**NESS/OPERAs Common Platform and BISE**

**Milestone 31, Part 1**

(Meeting 1 out of 4; 15.09.2015 in Brussels)


September 2015

Benjamin Burkhard  
CAU Kiel

Dissemination level  
Restricted

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Enhancing ecosystem services mapping  
for policy and decision making

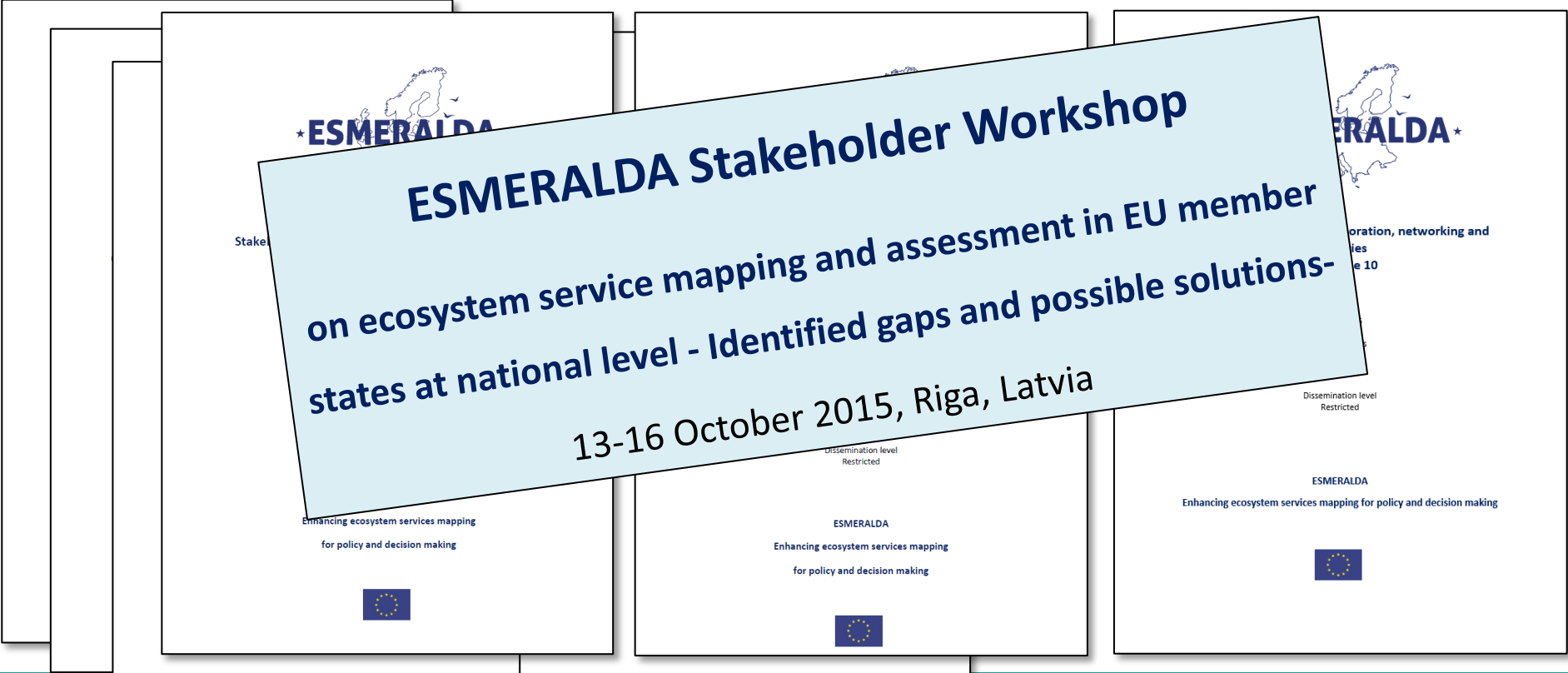





Meeting at JRC Brussels, 16.09.2015

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**Key achievements from this phase:**



**ESMERALDA Stakeholder Workshop**  
on ecosystem service mapping and assessment in EU member states at national level - Identified gaps and possible solutions-  
13-16 October 2015, Riga, Latvia

Stakeholder Workshop

Dissemination level Restricted

ESMERALDA Enhancing ecosystem services mapping for policy and decision making

Dissemination level Restricted

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Dissemination level Restricted

ESMERALDA Enhancing ecosystem services mapping for policy and decision making

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**Key achievements from this phase:**

## ESMERALDA Stakeholder Workshop

**on ecosystem service mapping and assessment in EU member states at national level - Identified gaps and possible solutions-**

13-16 October 2015, Riga, Latvia

followed by:

- Milestone 11 **Draft stocktaking of EU member state needs**
- Milestone 13 **Supporting stakeholder groups** in each member state established
- Deliverable 2.1 **Clustering of all 28 EU member states** according to their prerequisites and needs to perform ES mapping and assessment
- Deliverable 2.2 **Overview of gaps and recommendations** to overcome them

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**First phase key activities have been mainly related to ES MERALDA's**

- **WP 2 - Stakeholder network & Implementation**
- **WP 1 - Coordination and Integration**
- **WP 6 - Dissemination & Knowledge exchange**

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment creating links to existing **related projects** and **databases**;

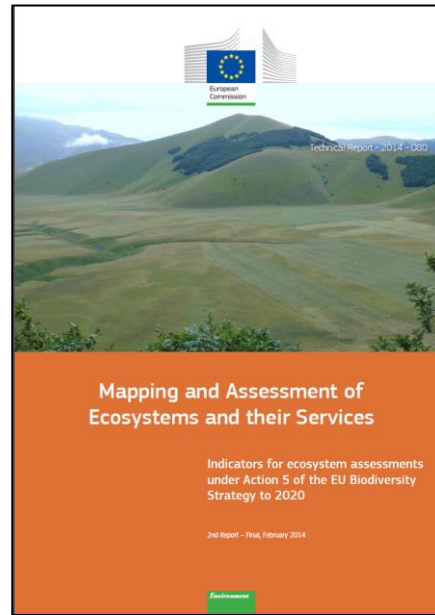
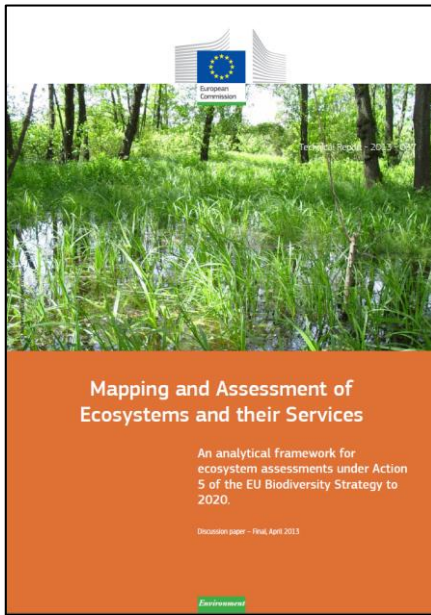
**2<sup>nd</sup> phase:** Development of the **multi-tiered ES mapping and assessment methodology**;

**Second phase key activities are mainly related to ESMERALDA's**

- **WP3 - Mapping methods**
- **WP4 - Assessment methods**
- **WP5 - Methods testing**

**+ all consortium partners!**





## MAES Working group

### Mapping and Assessment of Ecosystems and their Services

1<sup>st</sup> and 2<sup>nd</sup> report (2013, 2014)

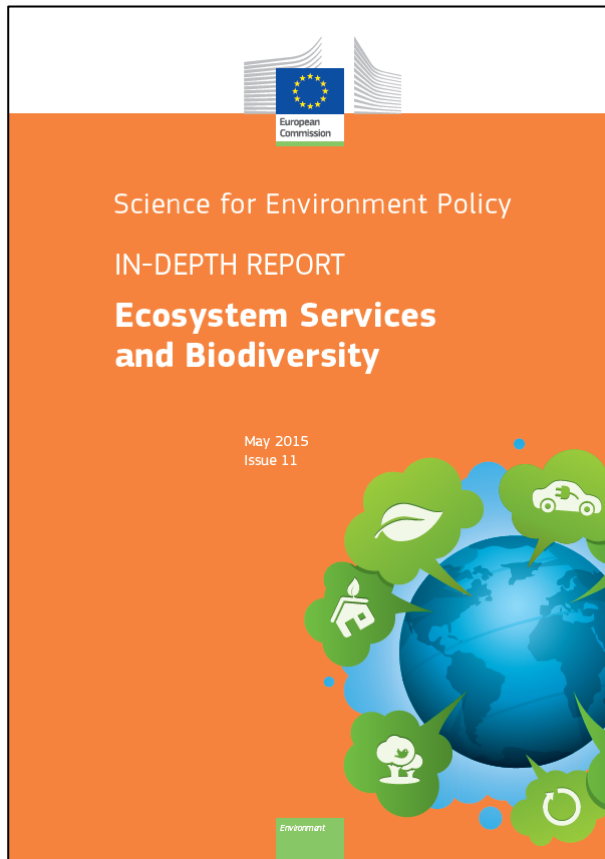
[http://ec.europa.eu/environment/nature/knowledge/ecosystem\\_assessment/pdf/MAESWorkingPaper2013.pdf](http://ec.europa.eu/environment/nature/knowledge/ecosystem_assessment/pdf/MAESWorkingPaper2013.pdf)

[http://ec.europa.eu/environment/nature/knowledge/ecosystem\\_assessment/pdf/2ndMAESWorkingPaper.pdf](http://ec.europa.eu/environment/nature/knowledge/ecosystem_assessment/pdf/2ndMAESWorkingPaper.pdf)



## Tiered approach for ES mapping & assessment

- ★ **Tier 1:** rather simple, e.g. land cover-based
- ★ **Tier 2:** more complex, e.g. statistics-based
- ★ **Tier 3:** complex, e.g. model-based



## Science for Environment Policy **Ecosystem Services and the Environment.**

In-depth Report 11 produced for  
the European Commission, DG ENV (2015)

<http://ec.europa.eu/science-environment-policy>

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**2<sup>nd</sup> phase:** Development of the **multi-tiered ES mapping and assessment methodology**;

**3<sup>rd</sup> phase:** **Testing** the developed methodology in representative thematic and biome-oriented **Workshops** and **Case studies** across EU member states;

### Case studies representative for:

- ★ The variety of natural and socio-economic conditions in EU Member States
- ★ The variety of cross-EU themes relevant for ES
- ★ The geographical regions and biomes of the entire EU

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**2<sup>nd</sup> phase:** Development of the **multi-tiered ES mapping and assessment methodology**;

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First series of workshops to test the first version of the methods:



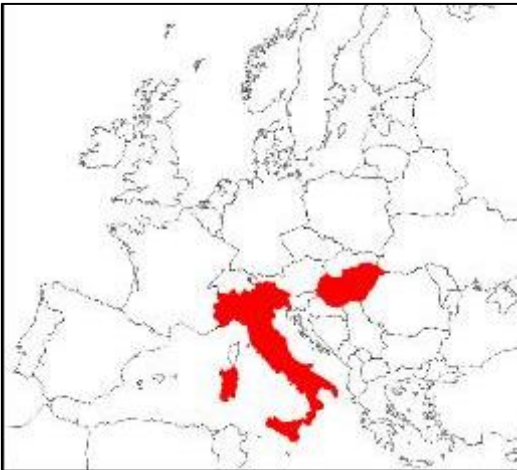
**3 Workshops, 3 case studies each**

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**2<sup>nd</sup> phase:** Development of the **multi-tiered ES mapping and assessment methodology**;

**3<sup>rd</sup> phase:** **Testing** the developed methodology in representative thematic and biome-oriented **Workshops** and **Case studies** across EU member states;

Second series of workshops to test the final version of the methods:



**2 Workshops, 2 case studies each**

**1<sup>st</sup> phase:** Identification of relevant **stakeholders** and stocktaking, collecting and linking **existing approaches** for ES mapping and assessment, creating links to existing **related projects** and **databases**;

**2<sup>nd</sup> phase:** Development of the **multi-tiered ES mapping and assessment methodology**;

**3<sup>rd</sup> phase:** **Testing** the developed methodology in representative thematic and biome-oriented **Workshops** and **Case studies** across EU member states;

**4<sup>th</sup> phase:** Feedbacks from ESMERALDA stakeholders and other relevant user groups, **methodology improvement**;

**5<sup>th</sup> phase:** Producing **tailored and flexible solutions** for ES mapping and assessment for policy and decision making;

**6<sup>th</sup> phase:** Safeguarding the **implementation** of project results in the context of the BD Strategy and Horizon 2020, including strategies for long-term implementation beyond ESMERALDA

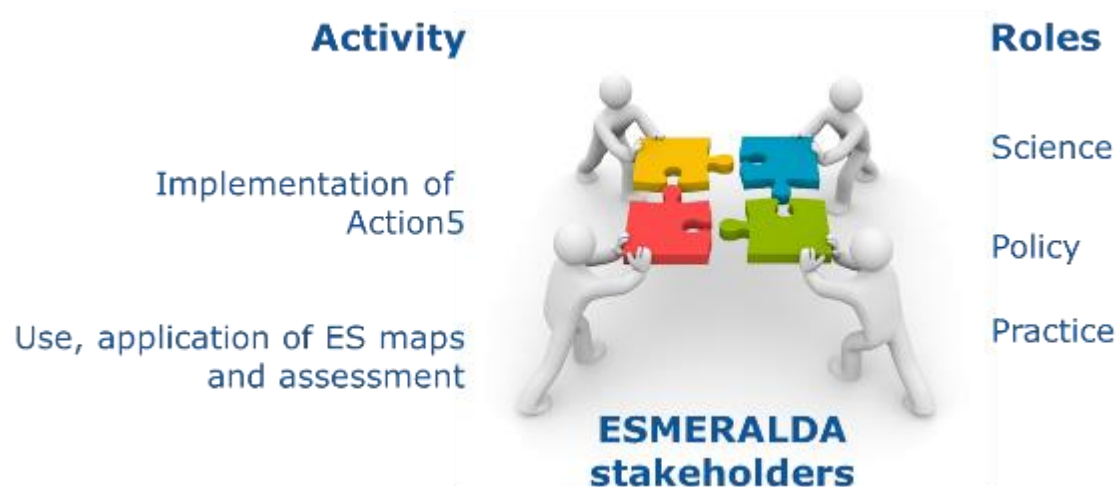
- ★ Bringing ES into application at the **science-policy-society interface** is not only dependent on raising awareness but on increasing the ES approach's applicability in EU and national policies having impact on natural resources
- ★ ES MERALDA will provide tools to demonstrate how **ES approaches can make a difference**
- ★ Creating a **network** of stakeholders, practitioners, researchers and policy makers
- ★ ES MERALDA will substantially **enhance and support** work under Action 5 in EU member states

## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

- Identified gaps and possibilities

### Who are stakeholders in the ESIMERALDA context?

- **Actors** (who implement Action 5)
- Possible or future **users** (who will apply the knowledge base)
- 3 main roles: researchers (**science**), policy/decision makers, public policy officers or civil servants (**policy**), and practitioners (**practice**).





## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

- Identified gaps and needs

### Who are stakeholders in the ESMEALDA context?

- **Actors** (who implement Action 5)
- Possible or future **users** (who will apply the knowledge base)
- 3 main roles: researchers (**science**), policy/decision makers, public policy officers or civil servants (**policy**), and practitioners (**practice**).
- **Stakeholder** types will **change** during the course of ESMEALDA, following the MAES implementation cycle
- The **first phase**: people responsible for implementing MAES at national levels
- Towards **end of the project**, increasing participation from people who use the knowledge base

## Who are stakeholders in this ESMERALDA Workshop?

**74 Representatives from 26 EU member states + Switzerland**

<b>Austria 3</b>	<b>France 2</b>	<b>Netherlands 4</b>
<b>Belgium 2</b>	<b>Germany 3</b>	<b>Poland 1</b>
<b>Bulgaria 7</b>	<b>Greece 2</b>	<b>Portugal 1</b>
<b>Croatia 1</b>	<b>Hungary 1</b>	<b>Romania 2</b>
<b>Cyprus 1</b>	<b>Ireland 1</b>	<b>Slovakia 1</b>
<b>Czech Republic 3</b>	<b>Italy 5</b>	<b>Spain 1</b>
<b>Denmark 1</b>	<b>Latvia 12</b>	<b>Sweden 3</b>
<b>Estonia 5</b>	<b>Lithuania 2</b>	<b>Switzerland 1</b>
<b>Finland 4</b>	<b>Malta 2</b>	<b>United Kingdom 3</b>

- 
- Excellent**
  - Good**
  - Satisfactory**
  - Poor**

## Who are stakeholders in this ESMERALDA Workshop?

### 74 Representatives from 26 EU member states + Switzerland

Adam Pártl	Davide Geneletti	Kremena Gocheva	Panagiotis Dimopoulos
Adamescu Cristian Mihai	Elīna Konstantinova	Kristina Veidemane	Pavel Stoev
Aija Kosk	Erling Andersen	Lauri Klein	Petra Kutlesa
Anda Ruskule	Eva Streberova	Leena Kopperoinen	Petteri Vihervaara
Andris Širovs	Fabio Attorre	Liekens Inge	Philip Roche
Andrzej Mizgajski	Fernando Santos Martin	Liga Brunina	Philippe Puydarrieux
Anja Uhlenbrok	Fiona S. Danks	Linda Scholten	Radoslav Stanchev
Anna Mellin	Gemma Weir	Luke Brander	Rastislav Rybanic
Arto Viinikka	Gita Strobe	Maarten Stevens	Roy Haines-Young
Bálint Czúcz	Hannah Östergård	Marilena Papastavrou	Samad John Smaranda
Benjamin Burkhard	Hermann Klug	Mario V Balzan	Sara Mulder
Beyhan Ekinci	Iliyana Kuzmova	Marion Potschin	Steffen Reichel
Blal Adem Esmail	Ilona Mendzina	Mariyana Nikolova	Stoyan Nedkov
Christina Mallia	Ioannis Kookoris	Mart Külvik	Stoyan Vergiev
Cristina Marta-Pedroso	Iva Honigova	Mattia Martin Azzella	Sven-Erik Rabe
Dace Strigune	Joachim Maes	Michael Weiss	Svetla Doncheva
Dana Prižavoite	Kalev Sepp	Miguel Villoslada	Ton de Nijs
Daniela Hellgren	Kestutis Navickas	Ola Inghe	Vytautas Naruševičius



## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

### PROGRAMME

14 October 2015, Wednesday	
From 8:00	<i>Registration</i>
9:00	General overview of ESIMERALDA activities. Orientation for the workshop <i>Benjamin Burkhard, ESIMERALDA project coordinator, University of Kiel</i>
9:45	Welcome words by the host Baltic Environmental Forum Latvia <i>Kristīna Veidemane, chairperson of the Baltic Environmental Forum Latvia</i>
10:15	Group picture
10:30	<i>Coffee/ tea break</i>
11:00	Stakeholder network and mapping and assessment activities in EU member states based on review of previous and on-going activities <i>Leena Kopperoinen, Finnish Environment Institute SYKE</i>
	Workshop participants have an option to discuss specific questions with ESIMERALDA consortium mapping and assessment experts. Guidance on how to reserve a time slot <i>Leena Kopperoinen, Finnish Environment Institute SYKE</i>
	Guidance on break-out group sessions <i>Leena Kopperoinen, Finnish Environment Institute SYKE</i>
12:00-13:30	<i>Lunch</i>

## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

### PROGRAMME

13:30	Break-out groups: Facilitated discussion of EU2020 targets implementation and activities in member states, gap identification and prerequisites for carrying out the task <i>Facilitators: Benjamin Burkhard, Joachim Maes, Fernando Santos Martin, Marion Potschin, Davide Geneletti, Pavel Stoev</i>
15:00	<i>Coffee/ tea break</i>
15:30	Continuation of the break-out groups with the same topic as before the coffee break
17:00	Facilitated final discussion of the day <i>Fernando Santos, University of Madrid</i>
Around 17:30	Closure of the day
19:00	<i>Dinner at the BELLEVUE Park Hotel Riga restaurant</i>

## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

### PROGRAMME

15 October 2015, Thursday	
9:00	EC biodiversity strategy and MAES activities <i>Joachim Maes, EC Joint Research Centre</i> Discussion
	Synthesis made based on Workshop Day 1 break-out group discussions <i>Joachim Maes, EC Joint Research Centre</i>
10:15	Guidance on break-out group sessions <i>Leena Kopperoinen, Finnish Environment Institute SYKE</i>
10:30	<i>Coffee/ tea break</i>
11:00	Break-out groups: Facilitated discussion on how to overcome problems in ecosystem service mapping and assessment activities and on who should be involved in the work in the countries <i>Facilitators: Benjamin Burkhard, Joachim Maes, Fernando Santos Martin, Marion Potschin, Davide Geneletti, Pavel Stoev</i>
12:30-13:30	<i>Lunch</i>
13:30	Break-out groups: Facilitated discussion on establishing a support group for the ecosystem service mapping and assessment activity in each member state <i>Facilitators: Benjamin Burkhard, Joachim Maes, Fernando Santos Martin, Marion Potschin, Davide Geneletti, Pavel Stoev</i>
15:00	<i>Coffee/ tea break</i>

## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

### PROGRAMME

15:00	<i>Coffee/ tea break</i>
15:30	Synthesis of the day's break-out group discussions <i> Davide Geneletti, University of Trento</i>
16:00	Final discussion on recommendations for how to get forward <i> Benjamin Burkhard, University of Kiel</i>
16:40	Outlook ESMERALDA continuation: developing flexible tools for mapping and assessment, Workshop 2 <i> Marion Potschin, University of Nottingham</i>
16:50	Official closure of the workshop
17:00 – 18:00	ESMERALDA researchers available for country-specific discussions Time slots for personal discussion, booked in advance during the workshop.
19:00	Dinner in Old Riga Town, restaurant "Locale", Grēcinieku 8

## ESMERALDA stakeholder workshop on ecosystem service mapping and assessment in EU member states at national level

### PROGRAMME

For those who registered to the excursion: 16 October 2015, Friday (Please see the detailed information in the technical information file)	
8:00	Departure from the BELLEVUE Park Hotel Riga (two buses)
9:00	Intro lecture/ presentation in the Ķemeri National Park visitor's centre <i>Andris Širovs, Nature Conservation Agency</i>
10:00	Going to the nature trail in the bog: smaller loop 1.7 km (for the ones who are under the time pressure and must leave earlier) and bigger loop 3.7 km (for those ones who have more time and prefer to enjoy more of the bog ecosystem)
Around 12:00	Bus NR 1: departure to the RIX airport / BELLEVUE Park Hotel Riga (for those who are under the time pressure)
Around 13:00	Bus NR 2: departure to the BELLEVUE Park Hotel Riga

## Friday: Excursion!





## The ESMERALDA bottle!

- ★ Has to travel from Workshop to Workshop!
- ★ Itinerary: *Kiel – Riga – Nottingham – Prague – Amsterdam – Madrid – Sofia – Trento – Budapest – Brussels*
- ★ To be filled with something typical from your region/country

... for example, water from the western Baltic Sea in Kiel

**A big thanks to our local hosts, the Baltic Environmental Forum BEF!!**

**Let's have a constructive, successful  
and pleasant meeting!**



Contact: [bburkhard@ecology.uni-kiel.de](mailto:bburkhard@ecology.uni-kiel.de)

<http://esmeralda-project.eu/>

