

Enhancing ecosystem services mapping for policy and decision making

ESMERALDA results integration and dissemination



EU Horizon 2020 Coordination and Support Action

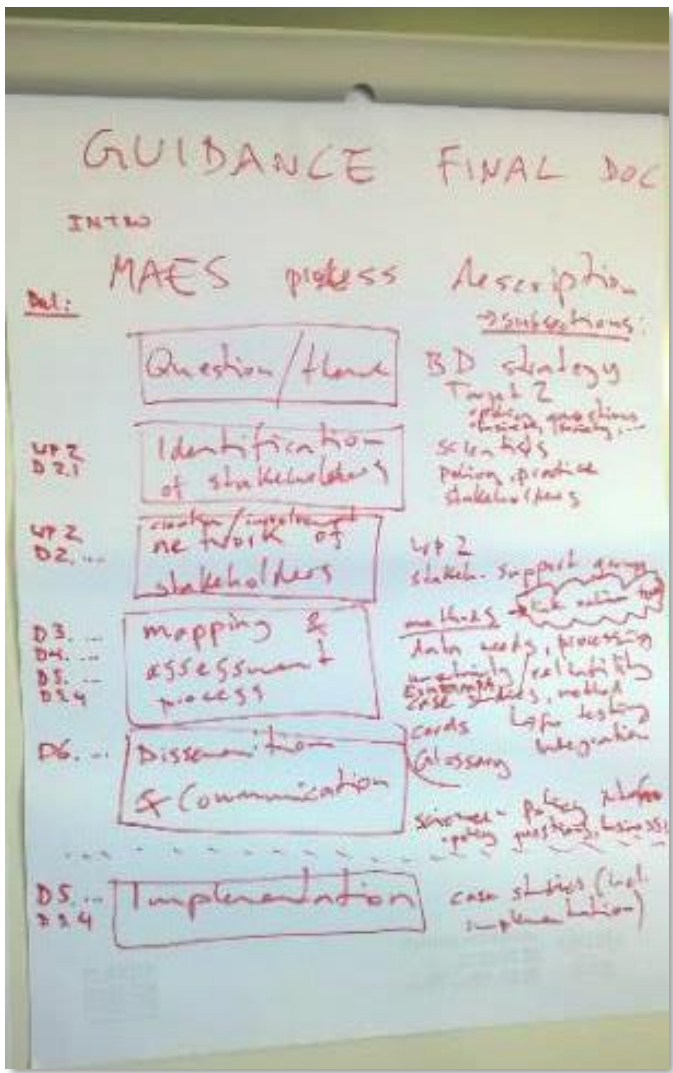


Key ESMERALDA products

- ★ **Deliverable reports**, especially those on methods, case studies and EU member states
- ★ **Country fact sheets**
- ★ **Methods application cards**
- ★ **Case study fact sheets**
- ★ **Methods data base**
- ★ Experience on EU-wide **stakeholder identification, network creation** and maintenance
- ★ Open access **Mapping Ecosystem Services textbook**
- ★ Open access **publications**, e.g. from ESMERALDA Special Issue in *One Ecosystem*
- ★ **Glossary** on ecosystem service mapping-related terms

.. How to integrate and link all these different outcomes and make them available open access, also in a long-term?

★ ESMERALDA MAES Explorer



first draft developed at ESMERALDA Workshop in Plovdiv ...



INTRODUCTION CHAPTER

A figure and texts showing the whole MAES process (e.g. 2 pages), D1.4 ESMERALDA Glossary

	QUESTION / THEME (Why do we do this)	<ul style="list-style-type: none"> - BD strategy – Target 2 · Policy questions, · Business questions, - Society questions
D2.1	IDENTIFICATION OF RELEVANT STAKEHOLDERS	<ul style="list-style-type: none"> · Scientists, policy makers, business people · Stakeholders
D1.7 D2.2, D2.3, D2.5	NETWORK CREATION / INVOLVEMENT OF STAKEHOLDERS	<ul style="list-style-type: none"> · Stakeholder support groups - Links to country fact sheets on BISE · Provide reference to the material on how to create a network
D1.4 D2.4 D3.1, D3.2, D3.3, D3.4 D4.1, D4.4 D5.4	MAPPING & ASSESSMENT PROCESS (scientific process: quantify/map) - <i>Main block of the guidance</i> -	Methods → link to online TOOL ESMERALDA case studies for testing and integration (best practice), method cards, case study fact sheets <ul style="list-style-type: none"> · Data needs, data processing etc. · Data/methods uncertainties / reliability · Link to ESMERALDA Glossary
D5.1, D5.2	MAPPING & ASSESSMENT CASE STUDY APPLICATIONS	<ul style="list-style-type: none"> - ESMERALDA case studies for testing and integration - Link to case studies in online TOOL
D2.1, D2.2 D2.4, D2.5 D6.2, D6.3, D6.4	DISSEMINATION & COMMUNICATION	<ul style="list-style-type: none"> · Science-policy-interface · Policy, business, society questions · Interoperability (BISE, ESP, OPPLA; ...)

To be done basically outside ESMERALDA

D1.7 D5.3 -D5.4, D6.2	IMPLEMENTATION Recommendations on how to implement MAES in EU member states	<ul style="list-style-type: none"> · Case studies with implementation examples · Gaps and recommendations identified in Riga
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★ ESMERALDA MAES Explorer



Welcome to the Guidance on Ecosystem Service Mapping and Assessment by ESMERALDA, a support and coordination action funded under the Horizon 2020 programme for research and innovation of the European Commission.

This website provides guidance which explains the process of how to map and assess ecosystem services as required by Action 5 of the [EU Biodiversity Strategy to 2020](#). Action 5 foresees that the European Commission helps countries set up a knowledge base on ecosystems and ecosystem services and to use this knowledge in policy and decision-making at different levels of governance.

ESMERALDA worked closely together with the working group [MAES](#) on Mapping and Assessment of Ecosystems and their Services to develop guidance which is tailored to the member states of the EU.

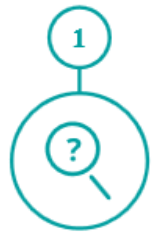
Start exploring the guidance by clicking on one of the entry points below:



↓ Download PDF of full report.

<http://www.maes-explorer.eu/>

★ ESMERALDA MAES Explorer



1
What kind of questions do stakeholders have?



2
Identification of relevant stakeholders



3
Network creation and involvement of stakeholders



4
Mapping and assessment process



5
MAES case study applications



6
Dissemination and communication



7
Implementaion

- ★ You can browse along the whole MAES process to find what you need to implement MAES in your country, region or case study

<http://www.maes-explorer.eu/>



Mapping and assessment process

The ecosystem services mapping and assessment process is the technical/methodological core of MAES. Mapping refers, in this context, to the spatial delineation of ecosystems as well as their condition and the services they supply through the spatial integration of a wide range of methods and data sets. Assessment includes the analysis and review of (existing) information derived from research for the purpose of helping someone in a position of responsibility to evaluate possible actions or think about a problem. In ESMERALDA, the focus was on ecosystem services mapping and assessment, less on ecosystem types, condition or accounting, the other relevant parts for MAES.

ESMERALDA developed a 'flexible methodology' for ecosystem services mapping and assessment providing the building blocks for regional, national and pan-European assessments. This methodology has been built on existing research, related projects, methods and databases. The results of the comprehensive ESMERALDA review of existing studies can be explored by the MAES methods Explorer, a searchable online database as well as the detailed Methods Documentations of biophysical, economic and social methods and possible Methods Integration. Finally, ESMERALDA is providing a useful overview of selected Methods' Applications and links to the ESP Visualisation tool, an online platform where ecosystem service maps can be shared.

MAES methods Explorer tool

Methods' documentation

Method integration

Method application

ESP Visualization tool

<http://www.maes-explorer.eu/>

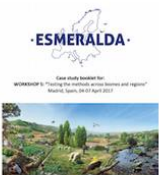


★ Online data base and query tool on ES mapping and assessment methods



Welcome to the MAES Methods Explorer

On this website you can explore the ES MERALDA methods database. The Purpose of this database it to collect the majority of available methods to map and assess ecosystem services. Its aim is also to link those methods to specific ecosystem types as well as ecosystem services.



Methods & Case Studies

Learn more about the methods and explore our case study booklets.

[explore methods & case studies](#)



Search ES MERALDA database

Search the ES MERALDA database for case study literature and methods.

[search database](#)



Policy & business questions

Use policy or business question as a starting point to explore the database.

[explore business / policy questions](#)



Tiers

Use "tiers" as starting point to explore our database.

[explore tiers](#)



<http://www.maes-explorer.eu/>



★ Online data base and query tool on ES mapping and assessment methods



[back to home page](#)

ESMERALDA DATABASE

Here you can search the ESMEALDA database. There are two result types you can search for: Methods or Literature. On the left side you can adjust the search filters. A quick filter that searches in the title is always available. You can add more filters by clicking on the "add filter" button. When searching for methods, opening a method will show you literature items that used it in the context that is described by the search filters. When searching for literature the result will show you literature and in the details methods they used according to the chosen filters.

database

search filters

Literature Methods quick filter

add filter ▾

search results 42 item(s) found

- Choice modelling (choice experiment, discrete choice modelling) (Economic) >
- Conceptual model (Biophysical) >
- Contingent valuation (Economic) >
- Corporate Ecosystem Service Review (Economic) >
- Cost-Benefit Analysis (CBA) (Economic) >
- Cost-Effectiveness Analysis (CEA) (Economic) >
- Damage cost avoided (Economic) >
- Defensive expenditure (Economic) >
- Deliberative assessment (Socio-cultural) >
- Ecological Connectivity models (to include methods/software such as Zonation, MSPA, MatrixGreen, TerrSet (former IDRISI), FunCon, etc.) (Biophysical) >

<http://www.maes-explorer.eu/>

Next steps

- ★ ESMERALDA MAES Explorer still needs **some more content**
- ★ Some **ESMERALDA products** will still be linked:
 - pending Deliverable report D3.4 (methods integration)
 - pending Deliverable report D4.4 (multifunctional assessments)
 - pending Deliverable report D5.4 (methods application guidelines)
 - ESMERALDA Special Issue articles from *One Ecosystem*
 - further relevant publications
- ★ Use ESMERALDA MAES Explorer content as base for Deliverable report D1.7 (Action 5 implementation plan)

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What can happen with the products after ESMERALDA?

- ★ ESMERALDA **MAES Explorer** will be available via the ESP website, OPPLA and BISE
- ★ ESMERALDA **MAES Methods Explorer** will be available

Open questions:

- How to update the information and data?
- How to update country-specific MAES information?

Possible solutions:

- ★ Harness **ESP network** (incl. regional and national Chapters, Working Groups) and website to maintain the website and try to update the database
- ★ Make use of ESMERALDA products in **upcoming projects** (e.g. MOVE, MAIA) and try to update information there
- ★ Apply for **more projects** together!
- ★ Use **ESP Conferences** and other occasions to meet, interact and develop further ideas; e.g. Meeting at ESP Europe Conference in San Sebastián, Spain, 14-19 October 2018

Thanks to everyone for your inputs!



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

