

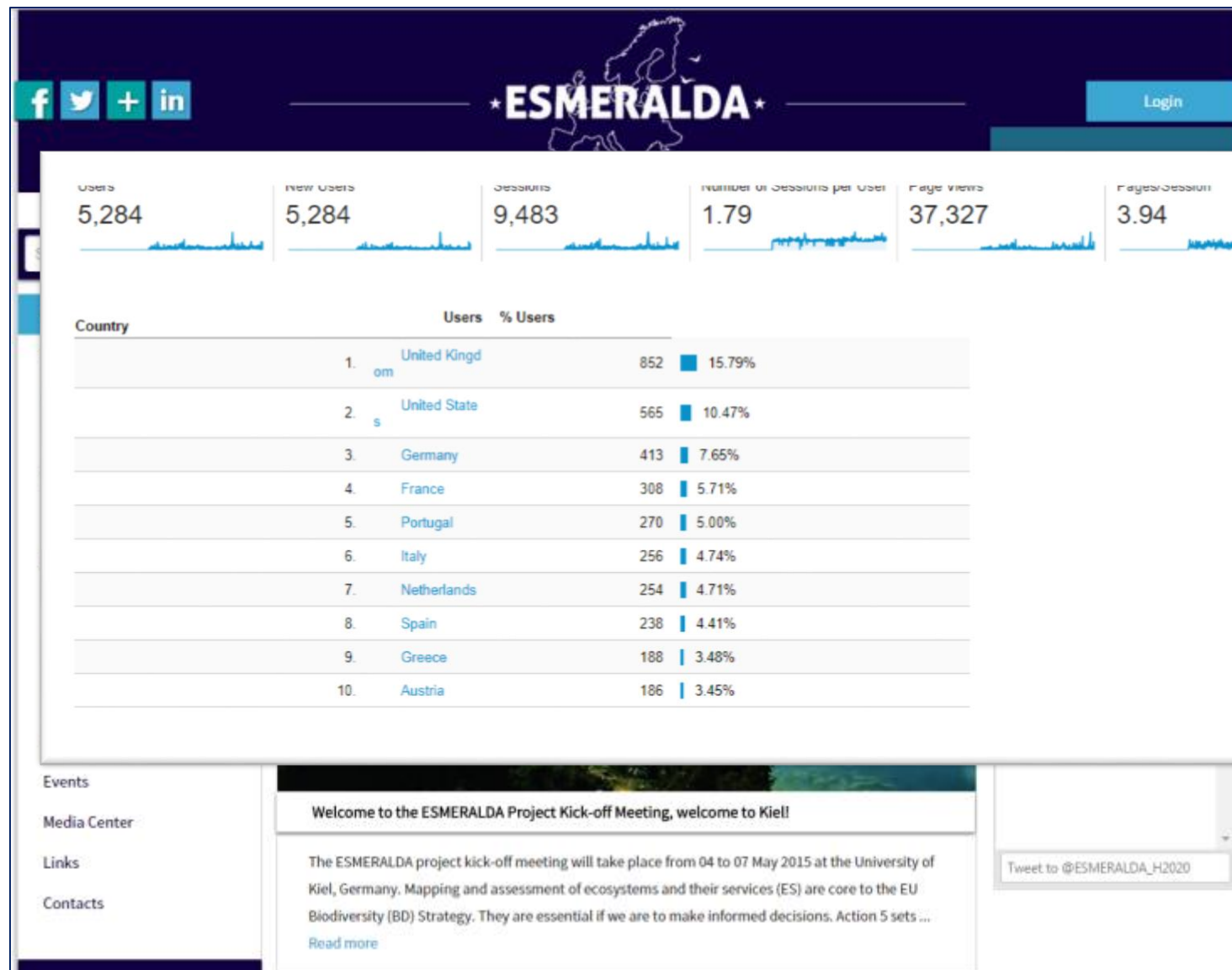
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EU Horizon 2020 Coordination and support action





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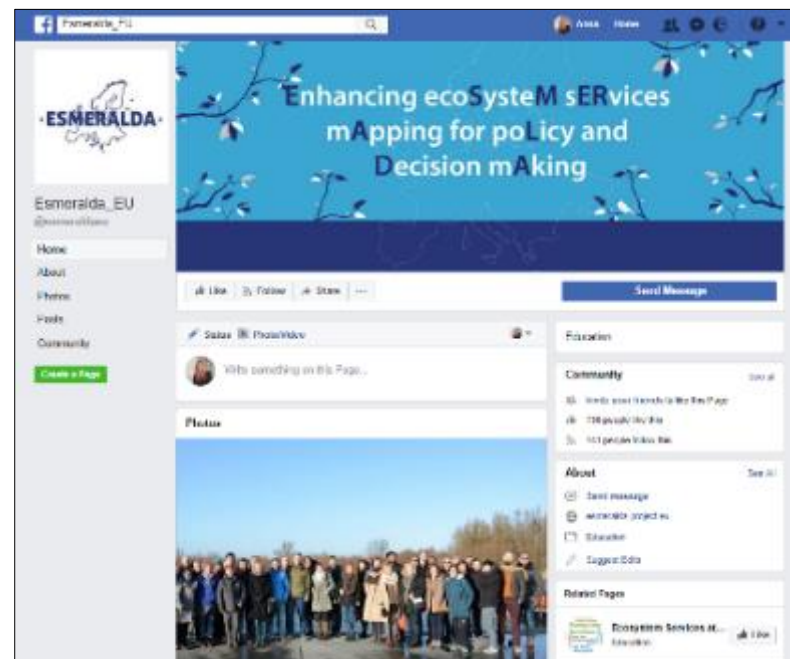
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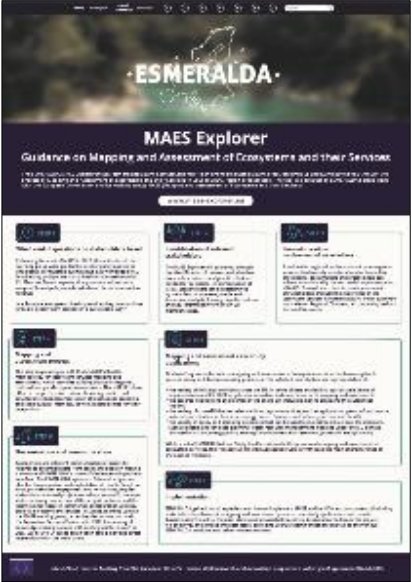
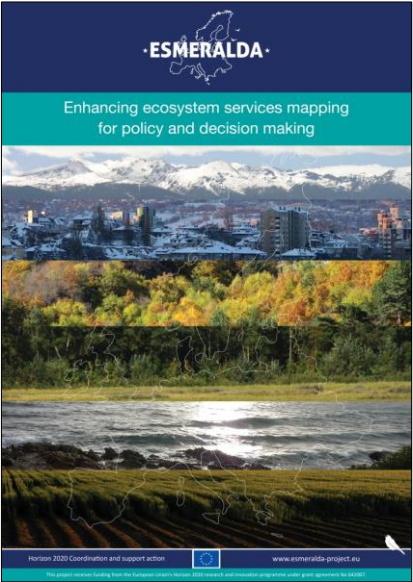


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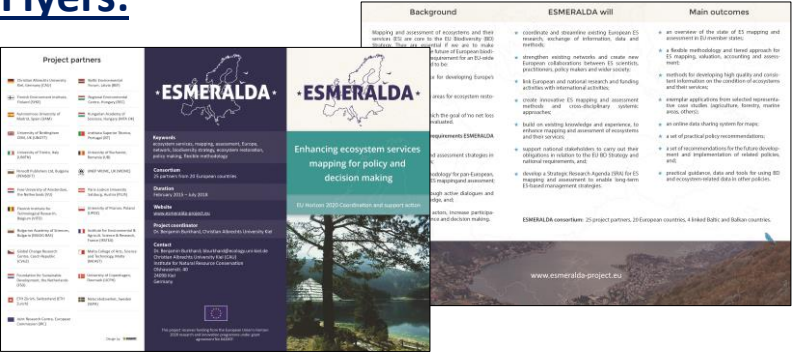
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December 2017



Group photo of ESMEALDA project partners and stakeholders during the first trip to Lisbon on 15th October 2016. Miguel Belmont, Coimbra, Portugal

Reporting back from meetings and workshops



Amsterdam, January 2017

From 6 to 12 January 2017, ESMEALDA held the second of a series of five planned project milestone events at MITEC, the 'Mediterranean Institute for Technology, Environment and Society'. The event was held in Lisbon, Portugal, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment. The event was held in Lisbon, Portugal, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment. The event was held in Lisbon, Portugal, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment.



Madrid, April 2017

ESMEALDA project partners and stakeholders met for a 3-day workshop in Madrid, Spain, to discuss the progress of the project and to plan future actions. The workshop was held in Madrid, Spain, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment. The workshop was held in Madrid, Spain, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment.

Read more...

March 2016

ESMERALDA meets key stakeholders from EU member states in Riga

The first ESMEALDA Stakeholder Meeting took place from 13 to 14 October 2015 in Riga, Latvia, on the first of a series of events planned to involve the project's stakeholders with stakeholders. The event brought together project partners and stakeholders from across the EU and beyond to discuss the project's progress and to plan future actions. The event was held in Riga, Latvia, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment.



The event, organised by the ESMEALDA partners, was held in Riga, Latvia, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment. The event was held in Riga, Latvia, and was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment.

Read more...

November 2016



Group photo from the 'Towards a Europe-wide integrated framework for mapping and assessment of ecosystem services' workshop, Nottingham, UK, 14-15 April 2016.

THE ESMEALDA PARTNERSHIP MEETING ON 'TOWARDS A EUROPE-WIDE INTEGRATED FRAMEWORK FOR MAPPING AND ASSESSMENT OF ECOSYSTEM SERVICES' WAS HELD IN NOTTINGHAM, UK, ON 14-15 APRIL 2016. THE MEETING WAS ATTENDED BY 50 PARTICIPANTS, INCLUDING PROJECT PARTNERS, STAKEHOLDERS, AND EXPERTS IN THE FIELD OF ECOSYSTEM SERVICES MAPPING AND ASSESSMENT.

FOUNDED BY UNIVERSITY OF NOTTINGHAM, THE MEETING WAS HELD IN THE CITY OF NOTTINGHAM, UK. THE MEETING WAS ATTENDED BY 50 PARTICIPANTS, INCLUDING PROJECT PARTNERS, STAKEHOLDERS, AND EXPERTS IN THE FIELD OF ECOSYSTEM SERVICES MAPPING AND ASSESSMENT. THE MEETING WAS HELD IN NOTTINGHAM, UK, ON 14-15 APRIL 2016.

Workshop in Nottingham: Towards a Europe-wide integrated framework for mapping and assessment of ecosystem services

With the aim of developing a framework for the Mapping and Assessment of Ecosystem Services and their Benefits (MAES) process, ESMEALDA held a dedicated workshop in Nottingham, UK, on 14-15 April 2016. The workshop was attended by 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment.

The workshop, which took place from 14 to 15 April 2016 in Nottingham, UK, brought together 50 participants, including project partners, stakeholders, and experts in the field of ecosystem services mapping and assessment.

August 2015



Newsletter 1



Group photo from the ESMEALDA project partners meeting, 14-15 April 2016.

What is ESMEALDA?

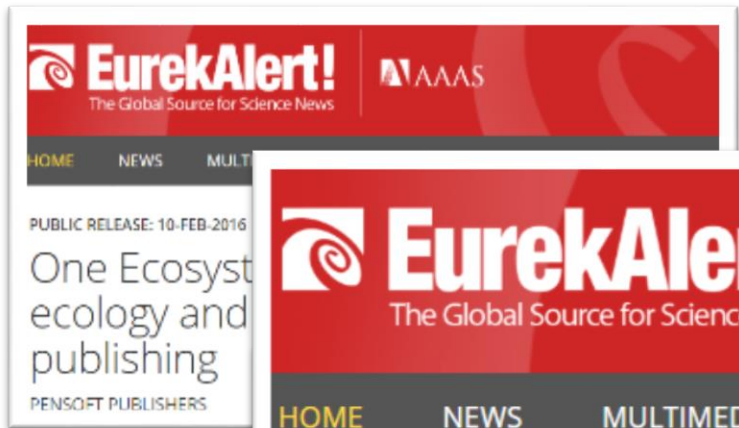
ESMEALDA is a project funded by the European Union under the Horizon 2020 research and innovation programme. The project aims to develop a framework for the Mapping and Assessment of Ecosystem Services and their Benefits (MAES) process.

The project is led by the University of Nottingham, UK, and involves a consortium of 14 European universities and research institutions. The project aims to develop a framework for the Mapping and Assessment of Ecosystem Services and their Benefits (MAES) process.

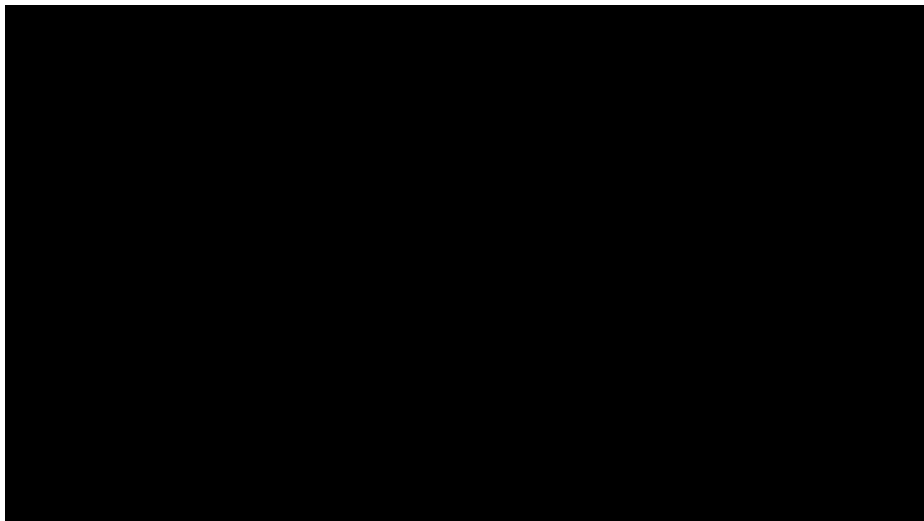
The project is funded by the European Union under the Horizon 2020 research and innovation programme. The project aims to develop a framework for the Mapping and Assessment of Ecosystem Services and their Benefits (MAES) process.

Learn more about the project and our activities on our website: www.esmeralda.eu

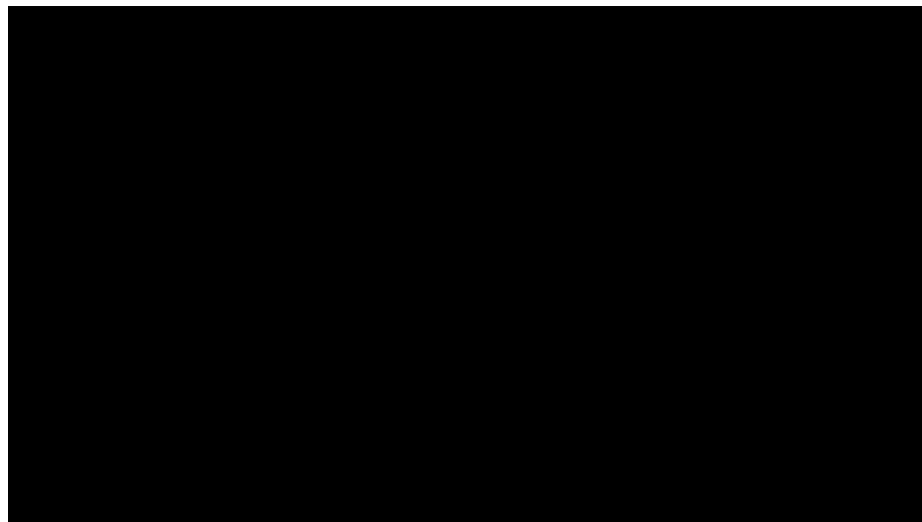
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Workshop, Nottingham, UK



First Stakeholder Workshop, Riga, Latvia







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Open Access in Horizon 2020

Peer-reviewed scientific publications

All projects receiving Horizon 2020 funding are **required** to make sure that any peer-reviewed journal article they publish is openly accessible, free of charge (article 29.2. Model Grant Agreement).

Research data



The Commission is running a **pilot on open access** to research data in Horizon 2020: the Open Research Data (ORD) pilot. This pilot takes into account the need to balance openness with the protection of scientific information, commercialisation and Intellectual Property Rights (IPR), privacy concerns, and security, as well as questions of data management and preservation. The pilot applies to research data underlying publications but beneficiaries can also voluntarily make other datasets open.

Participating projects are required to develop a Data Management Plan, in which they will specify what data will be open. In previous work programmes, the ORD Pilot was limited to some specific areas of Horizon 2020. Starting with the 2017 work programme, however, the ORD pilot was extended to cover **all thematic areas** of Horizon 2020, thus realising the Commission's ambition of "open research data per default" (but allowing for opt-outs).

Ecosystem Service Mapping and Assessment as a Support for Policy and Decision Making

Authors: Stepniewska Malgorzata

URL/DOI: doi: 10.1002/cien.201500777 Status: In Press

JOURNAL: CLEAN – Soil, Air, Water

Esmeralda DERIVED: NO | Type of document: Journal paper | UPLOADED ON: 19.07.2016 BY: Malgorzata Stepniewska | [Download citation](#) | [Comment](#)

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Report on Management Plan and Self- Assessment

Authors: Burkhard, B.

Status: Published Year: 2018

date: January 2018 | Number: D1.6

Esmeralda DERIVED: YES | Type of document: Deliverable | UPLOADED ON: 02.05.2018 BY: Margarita Grudova | [Download citation](#) | [Comment](#)

Report illustrating the application of the final methods in policy and decision-making

Authors: Geneletti, D., Adem Esmail, B. et al.

Status: Published Year: 2018

date: April 2018 | Number: D5.3

Esmeralda DERIVED: NO | Type of document: Deliverable | UPLOADED ON: 30.04.2018 BY: Margarita Grudova | [Download citation](#) | [Comment](#)

Dissemination and communication activities (press releases, e-newsletter, social network broadcasting, factsheets, policy brief, report cards, final brochure)

Authors: Iliyana Kuzmova, Margarita Grudova, Pavel Stoev

Status: Published Year: 2018

date: January 2018 | Number: D6.4

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Biophysical mapping and assessment methods for ecosystem services

Authors: Vihervaara, P., Mononen, L., Nedkov S., Viinikka, A., et al.

Status: Published Year: 2018

date: April 2018 | Number: D3.3

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Policy Brief

One Ecosystem V. 402/06
https://doi.org/10.5802/oneos.2.0.27/05

Revision of the Common International Classification for Ecosystem Services (CICES V5.1): A Policy Brief

by Ilja Haines Young, Marlon H. Perceval Young

Abstract

The Common International Classification of Ecosystem Services (CICES) is widely used for mapping, ecosystem assessment, and natural capital ecosystem accounting. (On the basis of the experience gained in using it since the first version was published in 2011, it has been updated for version 5.1. This policy brief summarises what has been done and how the new version can be used.

Research Article

One Ecosystem V. 402/02
https://doi.org/10.5802/oneos.2.0.27/04

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Which questions drive the Mapping and Assessment of Ecosystems and their Services under Action 5 of the EU Biodiversity Strategy?

by Joachim Maes, Inge Dekeers, Claire Bruen

Abstract

Action 5 of the European Union's Biodiversity Strategy to 2030 asks that Member States map and assess the state of ecosystems and their services in their national territory. Policymakers and stakeholders in those countries frequently ask why this work is necessary. This article shows that this question can be broken down into a number of specific questions which, in turn, bring specific requests for knowledge and guidance to the surface. This paper develops a typology of questions and identifies the following five categories: knowledge requests, policy support questions, questions on resources and responsibilities, application questions and technical and methodological guidance questions. Next, this typology of questions is framed in an adaptive policy cycle and coupled to a set of available solutions.

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1) Core MAES activities and research projects :

- TEEB-Germany Scoping-Study: Part A: Physical Accounting for Ecosystem Services, 2010 – 2014, finalised. Final report (346 pp.) In German language available at BfN.de. Subject/main topics: Definition of Ecosystem Services, Prioritization of services with special importance for Germany, exploration of available data, presentation/creation/discussion of alternative indicators for each service, reasoned proposal of one Indicator for each service, mapping of indicator values on the basis of available data; scoping study on economic values for ecosystem services (meta-analysis)



Enhancing ecosystem services mapping for policy and decision making

Country Fact Sheet: Finland (FI)



December 2015

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Enhancing ecosystem services mapping for policy and decision making

Country Fact Sheet: Germany (DE)



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Enhancing ecosystem services mapping for policy and decision making

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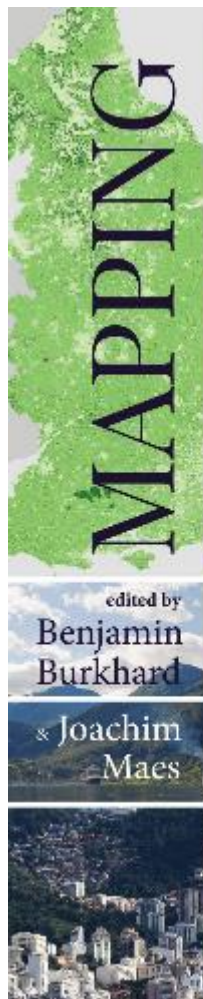
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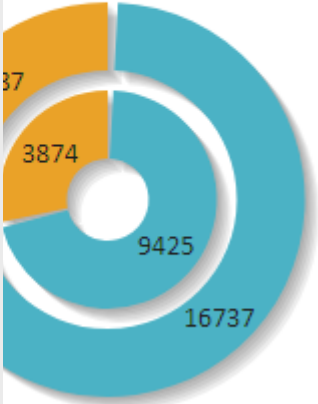
Bettina Weibel, Sven-Erik Rabe, Benjamin Burkhard, Adrienne Grêt-Regamey (2018)
On the importance of a broad stakeholder network for developing a credible, salient and legitimate tiered approach for assessing ecosystem services. One Ecosystem 3: : e25470.
 DOI: [10.3897/oneeco.3.e25470](https://doi.org/10.3897/oneeco.3.e25470)

Joachim Maes, Benjamin Burkhard, Davide Geneletti (2018)
Ecosystem services are inclusive and deliver multiple values. A comment on the concept of nature's contributions to people. One Ecosystem 3: : e24720.
 DOI: [10.3897/oneeco.3.e24720](https://doi.org/10.3897/oneeco.3.e24720)

Léa Tardieu (2017)
The need for integrated spatial assessments in ecosystem service mapping. Review of Agricultural, Food and Environmental Studies 98: : 173.
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Mapping and assessing ecosystems services. ESMERALDA special issue

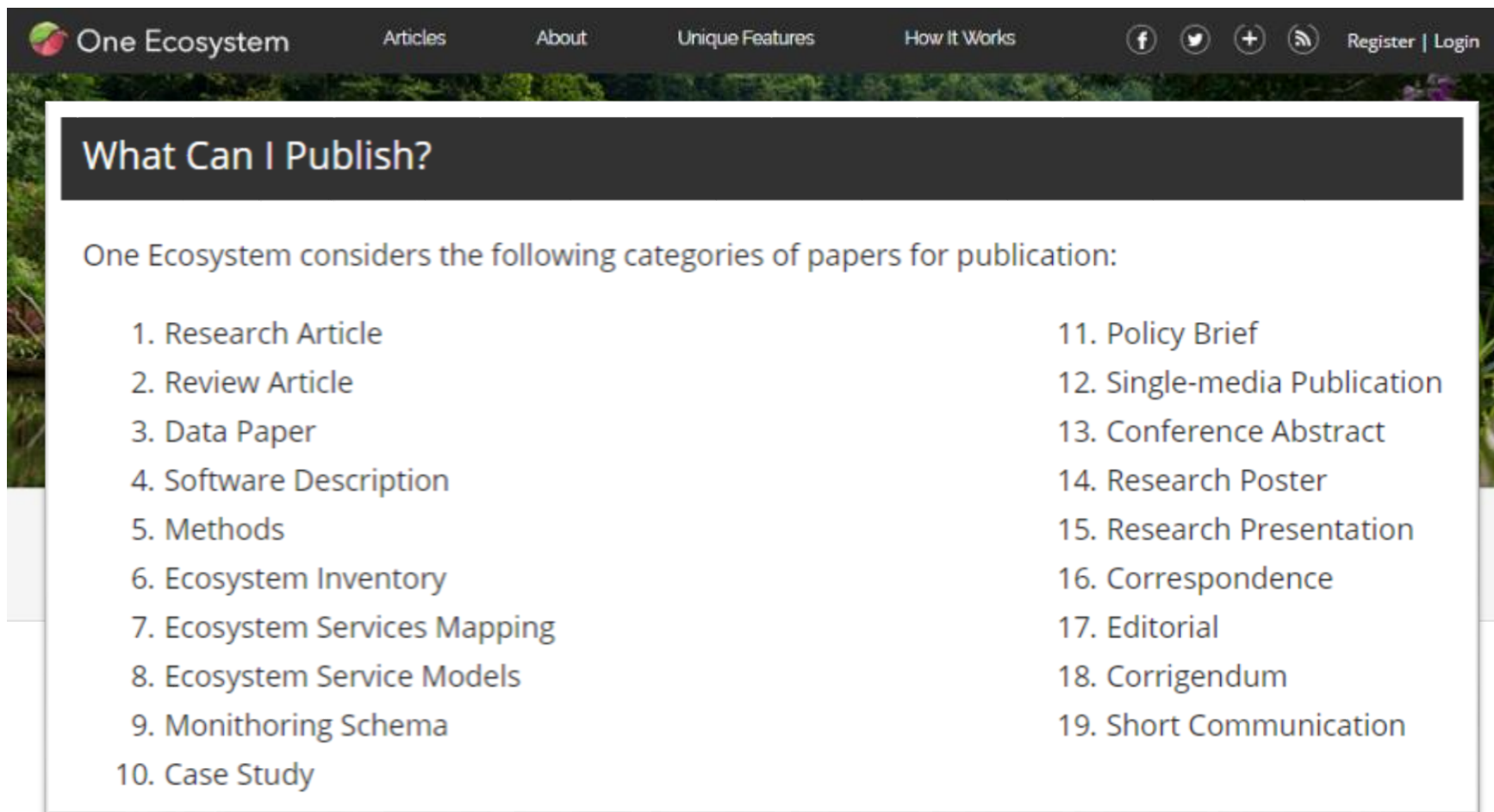
The proposed Special Issue in One Ecosystem will be one of the outcomes from the EU funded project ESMERALDA (Enhancing ecosystem services mapping for policy and decision making <http://www.esmeralda-project.eu/>). ESMERALDA aims to deliver a 'flexible methodology' that can provide innovative building blocks for pan-European, national and regional ES mapping and assessment. This will ensure the timely delivery by all EU member states of Action 5 of the European Biodiversity strategy, and local assessments required for spatial planning, agriculture, climate, water and nature policy.

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11. Policy Brief
12. Single-media Publication
13. Conference Abstract
14. Research Poster
15. Research Presentation
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Open for submissions ranging across the entire research cycle, including data, models, methods, workflows, results, software, perspectives and policy recommendations.

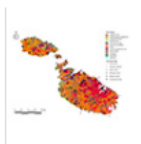
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Towards integrated mapping and assessment of ecosystems and their services in Bulgaria: The Central Balkan case study

Stoyan Nedkov, Bilyana Borisova, Boian Koulov, Miglena Zhiyanski, Svetla Bratanova-Doncheva, Mariyana Nikolova, Julia Kroumova

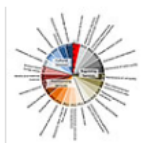
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Mario V Balzan, Iain Debono

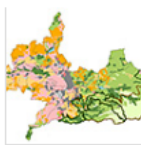
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May the matrix be with you! Guidelines for the application of expert-based matrix approach for ecosystem services assessment and mapping

C. Sylvie Campagne, Philip Roche

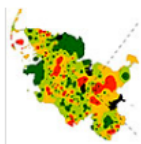
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Characterising the rural-urban gradient through the participatory mapping of ecosystem services: insights for landscape planning

Sara Palomo-Campesino, Ignacio Palomo, Javier Moreno, José González

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Mapping of nutrient regulating ecosystem service supply and demand on different scales in Schleswig-Holstein, Germany

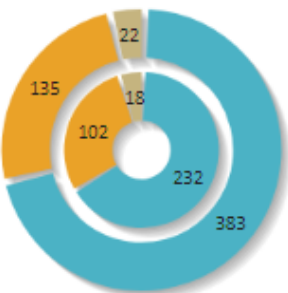
Sabine Bicking, Benjamin Burkhard, Marion Kruse, Felix Müller

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Mapping Habitat Quality in the Lombardy Region, Italy

Stefano Sala, Silvia Rombi, Andrea Accidducci, Federico Chiaradelli

Abstract

This paper reports a case study which examines the how mapping ecosystem services can be used to identify areas of significant natural value to be protected or restored. We mapped habitat quality in Lombardy (northwest Italy) using the InVEST (Integrated Valuation of Ecosystem Services and Tradeoff) model. Model outputs were used to approximate the spatial distribution of ecological quality across the region provided a framework to support the implementation of the Lombardy Regional Landscape Plan. This resulted in a proposal for introduction of new protected areas in the updated Landscape Plan, while other areas were proposed to be removed.

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Methods One Ecosystem 3: e27108
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Methodological aspects of ecosystem service valuation at the national level

David Věškr, Iouana Gramatikopoulou, Jan Dostál, Tereza Křiváková, Lenka Čermáková

Abstract

Ecosystem service valuations focusing on the assessment of ecosystem service values in space and time have recently been receiving considerable attention. Ecosystem service valuation data are critical for developing national ecosystem accounts and for assessment of costs and benefits associated with national strategies and plans. In this article, we discuss selected methodological aspects of ecosystem service valuation at the national level for the Czech Republic. We present a classification of ecosystems based on CORINE Land Cover and Consolidated Layer of Ecosystems of the Czech Republic. The focal point of our article is a systematic review of ecosystem service values. A systematic review requires a standardised protocol for imputation of valuation studies. To illustrate the proposed methodology, we conducted a search of ecosystem service valuation studies at the European level. While there is a significant number of ecosystem service valuation studies, the number of studies which could be used for an effective value transfer is limited. We discuss the limitations of the value transfer approach and suggest further steps for improving the scientific basis for national level valuations.

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Policy Brief One Ecosystem 3: e27108
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Revision of the Common International Classification for Ecosystem Services (CICES V5.1): A Policy Brief

Roy Haines-Young, Marion B. Potschin-Young

Abstract

The Common International Classification of Ecosystem Services (CICES) is widely used for mapping, ecosystem assessment, and natural capital ecosystem accounting. On the basis of the experience gained in using it since the first version was published in 2013, it has been updated for version 5.1. This policy brief summarises what has been done and how the classification can be used.

Adoption of Machine Learning Techniques in Ecology and Earth Science

▼ Anne E Thessen

Abstract

Background

The natural sciences, such as ecology and earth science, study complex interactions between biotic and abiotic systems in order to understand and make predictions. Machine-learning-based methods have an advantage over traditional statistical methods in studying these systems because the former do not impose unrealistic assumptions (such as linearity), are capable of inferring missing data, and can reduce long-term expert annotation burden. Thus, a wider adoption of machine learning methods in ecology and earth science has the potential to greatly accelerate the pace and quality of science. Despite these advantages, the full potential of machine learning techniques in ecology and earth science has not be fully realized.

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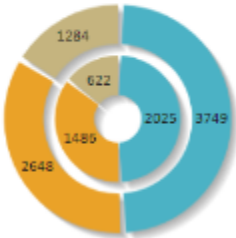
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