

Program Booklet

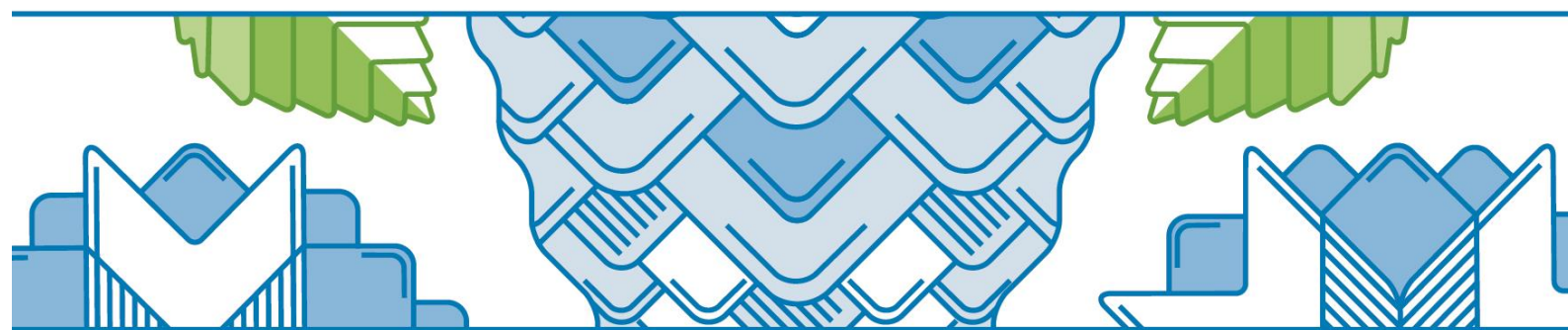
3rd **ESP**



EUROPE Tartu, Estonia
CONFERENCE

Ecosystem Services Science,
Policy and Practice in the
face of Global Changes

2021 7-10 June



Colofon

Citation

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Thank you

We would like to thank EMU for its support and dedication in making this conference happen. In addition, we are very grateful for the support of the conference organizing committee, partners and sponsors.

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Kate Snow Design

Table of contents

Colofon	3
Welcome to the 3rd ESP Europe conference in Tartu, Estonia	2
Organisation	5
Day-by-day schedule	6
Market place	11
Conference awards	12
Conference app	12
Useful tips	12
Conference Sponsors	13
Ecosystem Services Partnership	13
Floorplan	14
Appendix I: Detailed session programs	15
Appendix II: Poster Session	56
Appendix III: Timetable and room overview	60
Conference Program overview	65

Welcome to the 3rd ESP Europe conference in Tartu, Estonia

Warm welcome on behalf of the Local Organisers and the Estonian University of Life Sciences

Human dependence on biodiversity and healthy ecosystems has received a lot of recognition lately. We are pleased to note that this recognition of our dependence on nature does not only appear in academia but increasingly also in policy and decision making as well as the business community and society at large. This is in a large part a result of the Millennium Ecosystem Assessment (2005) and the TEEB study (2010), the Intergovernmental Panel on Biodiversity and Ecosystem Services IPBES (established in 2012), and the EU Biodiversity Strategy (2011) that recognises ecosystem services and many other national and international policy documents. Since 2008, the Ecosystem Services Partnership ESP has been stimulating this process and now unifies the efforts of over 3300 active individuals from all corners of the world to further develop the science policy and practice of the ecosystem services concept.

Many achievements in the further development of the ecosystem services concept have been made in the last decade and we are especially pleased to see an increasing number of diverse applications not only in science, but also in policy-making, the business sector, and in supporting practical conservation and nature restoration activities.

During this 3rd ESP Europe Conference we will share many achievements made, but also discuss which steps are still needed to further implement the ES concept and how it can help address the many Global Challenges we face.

We would have liked to welcome you all here in Tartu, the oldest town in Estonia, town of students, in person, but due to 'Corona' this conference is organised in a hybrid format, allowing for both in-person and digital participation. In addition to a full program with many sessions and special events, we also offer welcome reception, conference dinner, and two exciting field trips to South Estonia and Lahemaa National Park for those who joined us here in person.

One advantage of a hybrid event is that less travel is involved and we are further reducing our environmental footprint during this Hybrid Conference by, for instance, using principles of the Green University, what is approved by the Estonian University of Life Sciences, serving regional organic food, avoiding printed Conference material by using a mobile App and offering the possibility to participate in a carbon compensation scheme.

We thank the representatives from the Estonian University of Life Sciences, the Estonian Environmental Agency, and the University of Tartu for their support for this conference

We also sincerely thank the ESP Executive Committee and Secretariat for choosing Estonia as the location for the 3rd ESP Europe Conference and their hard work in making this conference possible. It has been enormous work what You have done! Actually, you have prepared the Conference twice – last year and now. Thank You very much indeed for a fantastic work - Benjamin, Diane, Dolf, and Iskra!

We hope that you enjoy the Hybrid Conference and we wish you a successful, inspiring and pleasant stay in Tartu during the 3th ESP European Conference, either in person or virtual.

Prof. Kalev Sepp
Conference Chair

Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Estonia

Dr. Miguel Villoslada
Conference Co-Chair

Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Estonia

Welcome on behalf of the Ecosystem Services Partnership (ESP)

After the 1st ESP Europe in Antwerp (2016) and the 2nd in San Sebastian (2018), this ESP Conference promises to be another special event, in turbulent times...

Shortly after the 10th World Conference in Hannover in October 2019, the Covid 19 pandemic broke out, leading to many canceled or postponed meetings: in 2020 we had planned to organise the 3rd ESP Africa and 2nd ESP MENA conference, which were both postponed to 2021. The only conference that took place in 2020 was the 3rd Latin America conference in Mexico in December, which was held fully online with almost 450 participants presenting over 250 papers. This Conference was a great success and provided ESP with first experience of organizing an online event and showcased once again the value of having strong and active regional chapters.

Originally we planned to organize the 3rd ESP Europe Conference in June 2020, we then moved it to September and eventually had to postpone it even more to June 2021 (which is now).

One of the few positive side-effects of the pandemic is that we are getting more used to online meetings, which saves time, energy and helps to protect the environment with less travel "externalities". However, meeting online is of course not at all the same as meeting in-person, which is why we offer this ESP Europe conference as Hybrid event. We are very pleased with the very high number of registered participants (460) from 51 countries, of which 20 from countries outside Europe from all parts of the world. Due to 'Corona' only about 55 participants are present on-site (about 12%).

Much has happened since the last ESP World Conference in 2019 and we are very pleased that in spite of the lockdown, ESP continued to grow in number's (with now over 300 members and more than 3.300 followers) and maybe even more important with many activities: the number of National Networks increased, many working groups were very active and new working groups and task forces were created on urgent ES-related topics. We will hear more about this during the ESP Forum on Monday.

We also strengthened our links with IPBES (this spring a series of successful workshops on valuation was organised) and other partner organizations, such as the Capitals Coalition, were engaged to reach out more to the business world and help them take the many values of nature and ecosystem services more serious. Two encouraging signs that this message is increasingly being heard are the Dasgupta report released in February, and the acceptance by the UN Statistical Commission to expand the SEEA to include Ecosystem Services in national accounts in March this year.

Current developments and calls for action show that ESP is needed more than ever as an independent, global community of concerned and engaged activists, bringing together scientists, practitioners and policy makers to discuss how the ES-concept and respective applications can continue to contribute to provide solutions to achieve a more just and sustainable society and address the many Global changes we are facing today. Not only the pandemic, which has been linked to the on-going loss of natural habitats, but also climate and land use changes and other causes of land degradation are leading to a vicious circle of even more emissions and social disruptions.

How the ES-concept can help to address these challenges will be discussed during the following days of our ESP Europe Conference in six interesting keynote speeches, ranging from EU Policies (Green Deal) by Anne Teller (European Commission; head of MAES WG) and EU programs (Sylvia Barova; CINEA - European Climate, Infrastructure and Environment Executive Agency), to the role of environmental economics (Erik Gomez-Baggethun; Norwegian University of Life Sciences, President European Society for Ecological Economics) and the business community (Nadine McCormick; WBCSD, World Business Council For Sustainable Development) and the need for holistic view on 'EcoHealth' by Carlos Zambrana (Vice

President for Conservation and Health at the EcoHealth Alliance), and a final keynote by Anton Skaruba (Est. Univ. of Life Sciences) on challenges and opportunities for ES implementation with special focus on eastern Europe. and on the way forward.

We are very pleased with the overwhelming interest of active participation: over 425 presentations in 38 sessions, and several trainings and special events on a wide range of topics. This will be the first hybrid ESP Conference, connecting delegates in Tartu with the ones participating online. To make this possible, we will rely on the dynamic digital event platform "Let's Get Digital" for the "official program" (plenaries, parallel sessions, exhibitors and trainings). The platform also includes interactive features, and offers the options to connect with speakers, scheduling one-on-one or group meetings. It is crucial for us to preserve the very special atmosphere that ESP Conferences are known for - a space for old and new colleagues and friends, coming together to share their passion for the ecosystem services field (and often to argue about it). We are aware that a huge part of the Conference experience value lies in the networking and socializing. That's why next to the interactive elements of the main platform, we have set up an online conference lounge. The lounge will be hosted in "Gather town", an online environment, which closely replicates the real-life experience of 'hanging out' at the venue with your fellow participants.

Thus, we will do our best to give everyone a great experience, and we hope this format has the positive effect of making ESP events more accessible in the future. However, organising a hybrid event, especially for the first time, takes a lot of extra effort and we thank the local organisers (Kalev Sepp & Miguel Villoslada + their team) and the ESP Secretariat (Diane, Iskra and team: Alice, Vince and Patience) for their hard work during the past months (and year..).

We are also grateful to the sponsors: the Tartu City Government, the Estonian University of Life Sciences, the Estonian Environmental Agency, the Baltic Environment Forum and their Baltic Friends, and the publishers Pensoft, Elsevier, Springer, and Land for their financial support.

We hope you will enjoy the next 4 days and that all will go well. Organising a hybrid conference for the first time is an exciting event, in many ways!

Dr. Rudolf de Groot
Conference Co-Chair, Chair ESP
Associate Professor Wageningen University, The Netherlands

Prof. Dr. Benjamin Burkhard
Conference & ESP Co-Chair
Institute of Physical Geography and Landscape Ecology, Leibniz Universität Hannover, Germany

Organisation

Conference Organising Committee (COC)

Co-chairs

- Kalev Sepp – Estonian university of Life Sciences, Estonia - Conference chair
- Rudolf de Groot – Wageningen University/Ecosystem Services Partnership (ESP-Chair), The Netherlands - Conference co-chair
- Benjamin Burkhard – Leibniz University Hannover, Germany - Conference co-chair
- Miguel Villoslada – Estonian university of Life Sciences, Estonia - Conference co-chair

Local Organising Committee (LOC)

- Kalev Sepp - Estonian university of Life Sciences, Estonia
- Miguel Villoslada - Estonian University of Life Sciences, Estonia
- Madli Linder - Estonian Environmental Agency, Estonia
- Siiri Kõlm - Estonian University of Life Sciences, Estonia
- Aveliina Helm - University of Tartu, Estonia

Support Team

- Miguel Villoslada - Estonian University of Life Sciences, Estonia
- Diane Ingabire- Ecosystem Services Partnership (ESP Secretariat), The Netherlands- Conference manager
- Iskra Konovska - Ecosystem Services Partnership (ESP Secretariat), The Netherlands- Communication manager
- With support from: Alice Giorgis, Patience Muguti, Vince van 't Hoff, Stefanos Solomides

Scientific Program Committee (SPC)

- Co-chair: Benjamin Burkhard, Rudolf de Groot, Kalev Sepp, Miguel Villoslada
- Organisers special sessions: Carla Washbourne, Davide Geneletti, Klara Winkler, Louise Willemen, Zuzana Harmackova
- Others: Christian Albert, Sylvie Campagne, Evangelia Drakou, Christine Fuerst, João Garcia Rodrigues, Luis Inostroza, Sander Jacobs, Nina Kaiser, Thomas Koellner, Inge Liekens, Berta Martin-Lopez, Simon Moolenaar, Stoyan Nedkov, Alexander van Oudenhoven, Paulo Pereira, Anda Ruskule, Fernando Santos-Martin, Matthias Schröter, Anton Shkaruba, Joachim Spangenberg, Sebastian Villasante,

Day-by-day schedule

Day 0: Sunday 6 June

Pre-conference trainings (pre-registration required):

- JRC - Accounting for Ecosystem Services: theoretical basis and practical applications in Europe: 10:00 – 14:00 (Room: *Limosa limosa*)
- ESP TWG 4 - Applications of Remote Sensing for Ecosystem Services assessments: 11:00 – 17:00 (Room: *Ursus arctos*)
- YESS - Early-Career pre-conference get together: 18:00 – 20:00 (Room: <https://www.wonder.me/r?id=73413803-b919-4394-8371-1d0a161a6f8a>)
- **16:00-18:00** Pre-conference registration
 - Estonian University of Life Sciences, Kreutzwaldi 1, 51006 Tartu, Estonia.

Day 1: Monday 6 June

- **09:00 - 10:00** Registration
- **10:00 - 10:30** Opening (Room: *Grus Grus*)
 - **Kalev Sepp** (Estonian university of Life Sciences, Estonia)
 - **Mait Klaassen** (Rector of Estonian university of Life Sciences)
 - **Rudolf de Groot** (Chair Ecosystem Services Partnership, The Netherlands)
 - **Benjamin Burkhard** (ESP Co-Chair/Leibniz University Hannover, Germany)
- **10:30 - 11:30** Keynote speakers (Room: *Grus Grus*)
 - **Anne Teller** (European Commission) - *The role of ES in implementing the EU Green deal*
 - **Sylvia Barova** (CINEA, European Commission) - *Bringing Nature back through LIFE*
 - **Nina Kaiser** (University of Duisburg-Essen) - *Short introduction on the YESS perspective (Young Ecosystem Services Specialists)*
- **11:30 - 12:30** ESP Forum (Room: *Grus Grus*)
- **12:00 - 13:30** Lunch break
- **13:30 - 15:00** Parallel sessions

Biome Working Group sessions (B)

- [B1 - Bridging the gap between science and policy on marine ecosystem services operationalization in the light of the upcoming EU agenda for 2030](#), E. Drakou, A. Ziemba, S. Villasante, et al. (Room: *Alces alces*)
- [B4 - Human, livestock and wildlife \(im\)mobility in grassland and savannah ecosystem](#), D. M. Matias, et al. (Room: *Oxycoccus palustris*)

Open sessions (O)

- [O2 - Early-career researchers' perspectives: Challenges in the face of global changes](#), N. Kaiser, S. Podschun, et al. (Room: *Centaurea cyanus*)

Sectoral Working Group sessions (S)

- [S3 - Forest Ecosystem Service Governance and Valuation – Pathways towards a new forestry agenda](#), C. Mann, et al. (Room: *Lynx lynx*)
- [S8c - The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas](#), M.A. Cebrián-Piqueras, A. Filyushkina, et al. (Room: *Ursus arctos*)

Thematic Working Group sessions (T)

- [T4b - National & large scale MAES projects in Europe, including the EU Outermost Regions and Overseas Countries and Territories: challenges, solutions and lessons learned](#), A.Vári, I. Sieber, et al. (Room: *Canis lupus*)
- [T9 - Natural environments, ecosystem services and public health in a time of crisis](#), J. Stadler, et al. (Room: *Limosa limosa*)
- [T12 - Disturbances, extreme events and ecosystem services in the Anthropocene: impacts, challenges and management](#), J. V. Roces-Diaz, et al. (Room: *Rubus chamaemorus*)
- [T16 - In search of policy instruments for ecosystems conservation: a decision-tree approach to PES, REDD+ and Biodiversity Offsets practices](#), N. Weins, et al. (Room: *Primula veris*)
- **15:00 - 15:30** Coffee break
- **15:30 - 17:00** Parallel sessions

Biome Working Group sessions (B)

- [B1 - Bridging the gap between science and policy on marine ecosystem services operationalization in the light of the upcoming EU agenda for 2030](#), E. Drakou, A. Ziemba, S. Villasante, et al. (continued) (Room: *Alces alces*)

Open sessions (O)

- [O6 - A Sustainability Compass to support sustainable governance of Baltic Sea](#), M. Sajeva & A. Ruskule (Room: *Primula veris*)

Sectoral Working Group sessions (S)

- [S3 - Forest Ecosystem Service Governance and Valuation – Pathways towards a new forestry agenda](#), C. Mann, et al. (continued) (Room: *Lynx lynx*)
- [S8c - The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas](#), M.A. Cebrián-Piqueras, A. Filyushkina, et al. (continued) (Room: *Ursus arctos*)

Thematic Working Group sessions (T)

- [T4b - National & large scale MAES projects in Europe, including the EU Outermost Regions and Overseas Countries and Territories: challenges, solutions and lessons learned](#), A.Vári, I. Sieber, et al. (continued) (Room: *Canis lupus*)
- [T4d - Developing and advancing national MAES processes - a path from mapping to implementation](#), M. Linder, A. Helm, et al. (Room: *Centaurea cyanus*)
- [T9 - Natural environments, ecosystem services and public health in a time of crisis](#), J. Stadler, et al. (continued) (Room: *Limosa limosa*)
- [T12 - Disturbances, extreme events and ecosystem services in the Anthropocene: impacts, challenges and management](#), J. V. Roces-Diaz, et al. (continued) (Room: *Rubus chamaemorus*)
- **17:00 - 18:30** Poster session
- **18:00 - 20:00** ARIES (ARtificial Intelligence for Environment & Sustainability) Masterclass (Room: *Vaccinium myrtillus*)
- **18:30 - 21:00** Welcome reception - Kreutwaldi 5, Tartu, 51006 (Main entrance hall)

Day 2: Tuesday 8 June

10:00 - 10:30 Field trips:

- Estonian Wetlands: a natural carbon sink and source of biodiversity
- Cultural landscape and heritage in Lahemaa National Park

Field trip busses will depart in front of Theatre Vanemuine ([see conference online map](#)). In case of any questions regarding the field trips, please ask at the conference information

desk. Please check the website or the conference app for more details on the timetable and departure location.

Day 3: Wednesday 9 June

- **09:25 - 09:30** Opening (*Room: Grus Grus*)
 - **Benjamin Burkhard** (ESP Co-Chair/Leibniz University Hannover, Germany)
- **09:30 – 10:30** Keynote speaker & panel discussion (**Room: Grus Grus**)
 - **Erik Gomez-Baggethun** (Norwegian University of Life Sciences /European Society Ecological Economics) - *Ecosystem services vs nature's contributions to people: Paradigm shift or old wine in new bottles?*
 - **Nadine McCormick** (World Business Council for Sustainable development) - *Speaking the language of business to integrate biodiversity into corporate decision-making*
- **10:30 - 11:00** Coffee break
- **11:00 - 12:00** Parallel sessions

[Biome Working Group sessions \(B\)](#)

- [B2 - Planning and implementing Nature-based Solutions for water management at different scales](#), A. Ruskule, B. Adem Esmail, et al. (*Room: Ursus arctos*)
- [B10 - Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models](#), L. Jones, S. Salata, et al. (*Room: Lynx lynx*)

[Sectoral Working Group sessions \(S\)](#)

- [S8a - Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes](#), E. Cohen-Shacham & E. Cabecinha (*Room: Canis lupus*)
- [S8b - Planning nature-based solutions while keeping people's preferences in mind](#), J. Louda, J. Brabec, et al. (*Room: Limosa limosa*)

[Thematic Working Group sessions \(T\)](#)

- [T1 - The ecosystem service classification challenge: experiences with CICES and other ES typologies in Europe](#), B. Czúcz, A. La Notte, et al. (*Room: Centaurea cyanus*)
 - [T2 - EKLIPSE- The European Science-Policy-Society Interface on Biodiversity and Ecosystem Services](#), M. Vandewalle & W. Allan (*Room: Rubus chamaemorus*)
 - [T3 - Ecosystem services indicators in the era of big, coarse data](#), A. van Oudenhoven, et al. (*Room: Primula veris*)
 - [T11 - Telecoupling and interregional flows of ecosystem services: methods and applications](#), M. Schröter, C. J. Schulp, et al. (*Room: Oxycoccus palustris*)
 - [T18 - Governing ecosystem services and biodiversity in socio-ecological systems](#), L. Loft, S. Ronchi, M. Spyra, et al. (*Room: Alces alces*)
- **12:00 - 13:30** Market place
 - **12:00 - 13:30** Lunch break
 - **13:30 - 15:00** Parallel sessions

[Biome Working Group sessions \(B\)](#)

- [B2 - Planning and implementing Nature-based Solutions for water management at different scales](#), A. Ruskule, B. Adem Esmail, et al. (continued) (*Room: Ursus arctos*)
- [B10 - Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models](#), L. Jones, S. Salata, et al. (continued) (*Room: Lynx lynx*)

Open sessions (O)

- [04 - Guidelines, tools, databases and standards for implementing integrated ecosystem services assessments](#), R. de Groot, B. Rugani, et al. (Room: *Canis lupus*)

Sectoral Working Group sessions (S)

- [S8b - Planning nature-based solutions while keeping people's preferences in mind](#), J. Louda, J. Brabec, et al. (continued) (Room: *Limosa limosa*)

Thematic Working Group sessions (T)

- [T3 - Ecosystem services indicators in the era of big, coarse data](#), A. van Oudenhoven, et al. (continued) (Room: *Primula veris*)
 - [T4a - Mapping and assessment of ecosystem condition and relationships with ecosystem service supply](#), P. Rendón, S. Campagne, B. Burkhard, et al. (Room: *Rubus chamaemorus*)
 - [T5 - Integrated models and ecosystem services – application in real-world case studies](#), K. Burkhard, et al. (Room: *Oxycoccus palustris*)
 - [T6 - Valuation WG Workshop: broadening cultural and institutional boundaries for plural valuation](#), S. Jacobs, R. Plant, et al. (Room: *Centaurea cyanus*)
 - [T18 - Governing ecosystem services and biodiversity in socio-ecological systems](#), L. Loft, S. Ronchi, M. Spyra, et al. (continued) (Room: *Alces alces*)
- **15:00 - 15:30** Coffee break
 - **15:30 - 17:30** Parallel sessions

Biome Working Group sessions (B)

- [B2 - Planning and implementing Nature-based Solutions for water management at different scales](#), A. Ruskule, B. Adem Esmail, et al. (continued) (Room: *Ursus arctos*)
- [B3 - Forest ecosystem services, water regulation & public policies in the face of global changes](#), A. Robert & G. Valatin (Room: *Primula veris*)
- [B10 - Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models](#), L. Jones, S. Salata, et al. (continued) (Room: *Lynx lynx*)

Open sessions (O)

- [04 - Guidelines, tools, databases and standards for implementing integrated ecosystem services assessments](#), R. de Groot, B. Rugani, et al. (continued) (Room: *Canis lupus*)
- [07 - Introduction to natural capital - What are the relationships between business and nature? We Value Nature "train the trainer"](#), K. Bonga & N. McCormick (Room: *Vaccinium myrtillus*)

Sectoral Working Group sessions (S)

- [S8b - Planning nature-based solutions while keeping people's preferences in mind](#), J. Louda, J. Brabec, et al. (continued) (Room: *Limosa limosa*)

Thematic Working Group sessions (T)

- [T4a - Mapping and assessment of ecosystem condition and relationships with ecosystem service supply](#), P. Rendón, S. Campagne, B. Burkhard, et al. (continued) (Room: *Rubus chamaemorus*)
 - [T5 - Integrated models and ecosystem services – application in real-world case studies](#), K. Burkhard, et al. (Room: *Oxycoccus palustris*)
 - [T6 - Valuation WG Workshop: broadening cultural and institutional boundaries for plural valuation](#), S. Jacobs, R. Plant, et al. (continued) (Room: *Centaurea cyanus*)
 - [T18 - Governing ecosystem services and biodiversity in socio-ecological systems](#), L. Loft, S. Ronchi, M. Spyra, et al. (continued) (Room: *Alces alces*)
- **18:30** - Conference dinner

The conference dinner will take place at **Gunpowder Cellar restaurant** (Lossi 28, Tartu, 51003). If you indicated any dietary restrictions, the staff of Gunpowder Cellar has been informed.

Day 4: Thursday 10 June

- **09:25 - 09:30** Opening (*Room: Grus Grus*)
 - **Rudolf de Groot** (Chair Ecosystem Services Partnership, The Netherlands)
- **09:30 - 10:30** Parallel sessions

Open sessions (O)

- [01 - ESP Steering Committee Internal Session](#), Z. V. Harmackova, S. Jacobs, et al. (only open for invited speaker abstract submission) (*Room: Oxycoccus palustris*)
- [05 - Disentangling equity in ecosystem services](#), F. Benra, et al. (*Room: Centaurea cyanus*)

Sectoral Working Group sessions (S)

- [S1 - Modelling ecosystem services for defining a safe operating space in European agricultural landscapes](#), P. Zander, et al. (*Room: Lynx lynx*)
- [S5 - Progress and challenges in the operationalisation of the ecosystem services approach for aquatic resources management](#), M. Kelly-Quinn, J. M. Bodoque del Pozo, et al. (*Room: Primula veris*)

Thematic Working Group sessions (T)

- [T4c - Innovation in ES mapping: sharing experiences from spatial analysis, visualization, communication and user engagement](#), M. Villoslada, L. Willemen, B. Burkhard, et al. (*Room: Rubus chamaemorus*)
- [T8 - Cultural Ecosystem Services: Time to advance theory and practice](#), J. Langemeyer, S. de Vries, J. Danek, et al. (*Room: Limosa limosa*)
- [T14 - Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces](#), F. Roche, P. Pereira, et al. (*Room: Alces alces*)
- [T17 - From assessment to accounting: how countries experience the development of NCA. Insights from applications](#), A. La Notte, I. Grammatikopoulou, et al. (*Room: Ursus arctos*)
- **10:30 - 11:00** Coffee break
- **11:00 - 12:30** Parallel sessions

Open sessions (O)

- [05 - Disentangling equity in ecosystem services](#), F. Benra, et al. (*Room: Centaurea cyanus*)
- [08a - Emerging concepts in ecosystem services assessment](#), E. Prangel (*Room: Oxycoccus palustris*)

Sectoral Working Group sessions (S)

- [S1 - Modelling ecosystem services for defining a safe operating space in European agricultural landscapes](#), P. Zander, et al. (continued) (*Room: Lynx lynx*)
- [S5 - Progress and challenges in the operationalisation of the ecosystem services approach for aquatic resources management](#), M. Kelly-Quinn, J. M. Bodoque del Pozo, et al. (continued) (*Room: Primula veris*)
- [S8a - Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes](#), E. Cohen-Shacham & E. Cabecinha (*Room: Canis lupus*)

Thematic Working Group sessions (T)

- [T4c - Innovation in ES mapping: sharing experiences from spatial analysis, visualization, communication and user engagement](#), M. Villoslada, L. Willemen, B. Burkhard, et al. (continued) (*Room: Rubus chamaemorus*)
- [T8 - Cultural Ecosystem Services: Time to advance theory and practice](#), J. Langemeyer, S. de Vries, J. Danek, et al. (continued) (*Room: Limosa limosa*)

- [T14 - Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces](#), F. Roche, P. Pereira, et al. (continued) (Room: *Alces alces*)
- [T17 - From assessment to accounting: how countries experience the development of NCA. Insights from applications](#), A. La Notte, I. Grammatikopoulou, et al. (continued) (Room: *Ursus arctos*)
- **12:30 - 13:30** Lunch break
- **13:30 - 15:00** Parallel sessions

Open sessions (O)

- [O3 - Workshop: The editor's perspective: what to do and what to avoid as the author of a manuscript](#), L. Inostroza (only open for invited speaker abstract submission) (Room: *Vaccinium myrtillus*)
- [O8b - Applications of ecosystem services assessment in different contexts](#), M. S. O. Ortiz & J. K. Huerta (Room: *Oxycoccus palustris*)

Sectoral Working Group sessions (S)

- [S1 - Modelling ecosystem services for defining a safe operating space in European agricultural landscapes](#), P. Zander, et al. (continued) (Room: *Lynx lynx*)
- [S6 - Business and Ecosystem Services in Research and Practice](#), M. van Weelden, D. Murgese, et al. (Room: *Primula veris*)
- [S8a - Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes](#), E. Cohen-Shacham & E. Cabecinha (continued) (Room: *Canis lupus*)

Thematic Working Group sessions (T)

- [T4c - Innovation in ES mapping: sharing experiences from spatial analysis, visualization, communication and user engagement](#), M. Villoslada, L. Willemen, B. Burkhard, et al. (continued) (Room: *Rubus chamaemorus*)
- [T8 - Cultural Ecosystem Services: Time to advance theory and practice](#), J. Langemeyer, S. de Vries, J. Danek, et al. (continued) (Room: *Limosa limosa*)
- [T14 - Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces](#), F. Roche, P. Pereira, et al. (continued) (Room: *Alces alces*)
- [T17 - From assessment to accounting: how countries experience the development of NCA. Insights from applications](#), A. La Notte, I. Grammatikopoulou, et al. (continued) (Room: *Ursus arctos*)
- **15:00 -15:30** Coffee break
- **15:30 -16:30** Keynote speakers
 - **Carlos Zambrana-Torrel** (EcoHealth Alliance) - *The links between deforestation and disease emergence or How Saving Forests Could Save Your Life*
 - **Anton Shkaruba** (Estonian University of Life Science) - *Challenges and opportunities for ES implementation with focus on Eastern Europe*
- **16:30-17:00** Reflection on the conference results (Room: *Grus Grus*)
- **17:00 -17:30** Closing session (Room: *Grus Grus*)

Market place

The following stands will be present at the market place on Wednesday (online):

1. Biodiversity Exploratories
2. Integrating Nature-based solutions in climate change adaptation
3. Natural Capital Singapore
4. To Ally Technology, Nature and Society for integrated urban water management – ATENAS

Conference awards

During the poster session on Monday from 17:00-18:30, poster tours will be organised. The posters will be presented by their authors in two guided tours (Tour A & B).

Each tour will have five small sessions happening simultaneously. Each poster presenter will have 3 to 5 minutes to present the poster. Questions related to the poster can be posed after the tours, or on Wednesday from 12:00-13:30.

As a poster session participant, you will be able to vote for the best poster through the conference app. All posters will be provided with an ID to enable the voting.

The three poster winners will be announced during the closing session on Thursday 10 June.

Conference app

In order to reduce printing and our CO2 footprint, the COC has decided to offer a conference app instead of a printed program booklet. This version of the program booklet will only be provided as a download on the [conference website](#), in case you prefer all information in one file.

To access the ESP Europe Conference app, please go to your app store, download the app 'Let's Get Digital', click 'register', and then choose 'ESP Europe 2021 conference'. After installing the app, you can:

- Access the event program, abstracts and speakers list
- Create your own daily schedule that will guide you through the day
- Stay informed and receive the latest messages and news
- Chat with other attendees
- Take notes during sessions

After downloading the app, don't forget to enable push notifications to stay up-to-date on the latest happenings and important news!

Useful tips

To make your stay as pleasant as possible, hereby some tips for your stay:

- WiFi is freely available at the venues for the conference guests. There are two connections at each room: *eduroam* connection and *EMYap* or *EMYcampus*, and no username or password required.
- If you would still like to join the field trip or conference dinner, please check on Monday latest at the information desk if there is still availability to sign up.
- When attending the field trip, please make sure to wear comfortable shoes. Make sure to check what to bring on [the field trip](#) page. Also, take any necessary personal medication.

Conference Sponsors



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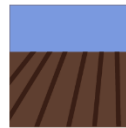


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Ecosystem Services Partnership

The Ecosystem Services Partnership (ESP) aims to enhance communication, coordination and cooperation, and to build a strong network of individuals and organizations. ESP enhances and encourages a diversity of approaches, while reducing unnecessary duplication of effort in the conceptualization and application of ecosystem services.

ESP connects over 3000 ecosystem services scientists, policy makers and practitioners who work together in more than 40 Working Groups and a growing number of National Networks on all continents. ESP is a [membership based](#) organisation, both institutional and individual members can subscribe. The Partnership has a specified governance structure and Executive committee.

The ESP Europe 2021 Regional Conference is part of the bi-annual cycle of [ESP regional conferences](#) around the globe.

Floorplan

This section provides the time schedules for the workshops as far as known upon production of this booklet. Check for possible deviations or updates at the registration desk or on the conference app.

The session programs are arranged per day:

Day 1: Monday, 7 June 2021

Afternoon

13:30-15:00

B1 - Bridging the gap between science and policy on marine ecosystem services operationalization in the light of the upcoming EU agenda for 2030

15:30 - 15:00 Monday, 7 June

Hosts: E. Drakou, A. Ziemba, S. Villasante, S. Wanke, S. A. Vergouwen, S. de Juan, A. M. Addamo

	Time	Name	Title of the Presentation
B1-0	13:30	E. Drakou	Introduction
B1-1	13:40	A. M. Gomez-Aguayo	Marine ecosystem services in Xàbia, north of Alicante (Spain): An economic valuation via multicriteria analysis
B1-2	13:55	J. José	Assessment of cultural ecosystem services: A framework for collaborative management of MPAs linked to SCUBA Diving activities
B1-3	14:10	J. Cuncha	Assessing Regulation and Maintenance Ecosystem Services capacity along a coast-sea gradient in NW of Portugal
B1-4	14:25	C. Riieger-Simonsen	Towards ecosystem-based management of marine wildlife using ecosystem service assessments at the population level
B1-5	14:40	E. Robber	The impact of beach wrack and marine litter on Baltic sandy beach ecosystem services

B4 - Human, livestock and wildlife (im)mobility in grassland and savannah ecosystems

15:30 - 15:00 Monday, 7 June

Host: D. M. Matias

	Time	Name	Title of the Presentation
B4-1		B. Batjav	The role of mobility in ecological knowledge of the Eastern Steppe of Mongolia
B4-2		M. Mehring	Rural to urban migration in Mongolia – social-ecological conditions for a stepwise process
B4-3		M. Raucherer	State's Immobility vs. Pastoralist Mobility – A Case Study of Mongolia and Namibia
B4-4		D. A. Menestrey Schwieger	Understanding desertification at the community level in Namibia's eastern

		communal rangelands: a comparative study integrating social and ecological insights
B4-5	R. Kraus	The conflict-loaded potential of wildlife management for sustainable savannah use: the example of human-elephant interactions in Namibia
B4-6	J. Rouet-Leduc	Grazing for ecosystem services in Europe: motivation and challenges of land users for sustainable grazing management
B4-7	U. Kasymov	A global review of grassland policies and their impact on the conservation and sustainable use of dryland ecosystems

The session will be a round-table discussion.

O2 - ECR's perspectives: Challenges in the face of global changes (in-person or virtual presentation)

13:30 - 15:00 Monday, 7 June

Hosts: N. Kaiser, S. Podschun, A. Filyushkina, C. Washbourne, S. Peter

S3 – Forests Ecosystem Service Governance and Valuation – Pathways towards a new forestry agenda

13:30 – 15:00 Monday, 7 June

Hosts: C. Mann, M. Hernández-Morcillo, B. Hansjürgens, L. Loft

	Time	Name	Title of the Presentation
S3-1	13:30	C. Mann	Governance Innovations for forest ecosystem service provision – Insights from an EU-wide survey & Introduction to the session and insights from an EU-wide survey
S3-2	13:45	L. Hagedoorn	Reducing the finance gap for nature-based solutions with time contributions
S3-3	14:00	C. Blatter	Sectoral policies cause incoherence in forest management and ecosystem service provisioning: a Finnish case study
S3-4	14:15	C. Dirac	Governance mixes for the management of recreation in urban and peri-urban forests: the Swiss case study
S3-5	14:30	E. Doblás-Miranda	The Interreg Europe project PROGRESS: Promoting the Governance of Regional Ecosystem Services
S3-6	14:45	J. L. Roux	Governance of Forest Ecosystem Services in the EU: Exploring innovative policy

support mechanisms for the provisioning of FES

S8c – The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas

13:30 – 15:00 Monday, 7 June

Hosts: M. A. Cebrián-Piqueras, A. Filyushkina, M. D. López-Rodríguez, S. Keller, V. Lo

	Time	Name	Title of the Presentation
S8c-1	13:30	A. Filyushkina	Protected areas in a peri-urban mosaic: what can we learn from visions of local residents and stakeholders?
S8c-2	13:45	M. Metzger	Developing a shared vision for sustainable regional land use in the Southern Ayrshire and Galloway Biosphere in Scotland
S8c-3	14:00	G. Mariaselvam	How can we bring back the lost spirit of conservation? – A study in Abohar Wildlife Sanctuary, India
S8c-4	14:15	V. Lo	How stable are visions for protected area management? Stakeholder perspectives before and during a pandemic
S8c-5	14:30	A. Armoskaite	What are we protecting against? Ramifications of the spread of a non-native fish species on protected benthic stony reefs in the eastern Baltic and the services they supply
S8c-6	14:45	I. Mestre	Taking into account Nature's contributions to people in the management of protected areas: a leverage for integrated land-use management

T4b – National & large scale MAES projects in Europe, including the EU Outermost Regions and Overseas Countries and Territories: challenges, solutions and lessons learned

13:30 – 15:00 Monday, 7 June

Hosts: A. Vari, I. Sieber, I. Arany, B. Czúcz, S. Nedkov, M. Adamescu, J. Maes, B. Burkhard

	Time	Name	Title of the Presentation
T4b-1	13:30	D. Dačkářová	Towards national assessment and mapping of ecosystem services in the Czech Republic within LIFE
T4b-2	13:45	E. Tanács	Results and experiences of the Hungarian national ecosystem assessment

T4b-3	14:00	M. Linder	Country-wide mapping and assessment of the ecosystem condition and services in Estonia – the results
T4b-4	14:15	M. V. Balzan	Challenges and opportunities for the implementation of MAES outcomes in environmental and planning policies in a small island state
T4b-5	14:30	I. M. Sieber	MAES implementation in the EU Overseas – an often overseen process
T4b-6	14:45		Discussion

T9 – Natural environments, ecosystem services and public health in a time of crisis

13:30 – 15:00 Monday, 7 June

Hosts: J. Stadler, A. Bonn, M. R. Marselle

Time	Name	Title of the Presentation	
T9-1	13:30	S. Pouso	Contact with blue-green spaces during the COVID-19 pandemic lockdown beneficial for mental health
T9-2	13:45	A. Dzhambov	Does greenery experienced indoors and outdoors provide an escape and support mental health during the COVID-19 quarantine?
T9-3	14:00	F. Baró	Even your houseplant helps! Exposure to nature and mental health outcomes during COVID-19 lockdown in Spain and Portugal
T9-4	14:15	C. Noël	Perceived health impact and usage of public green spaces in Brussels' metropolitan area during the COVID-19 epidemic
T9-5	14:30	N. Kabisch	Impact of summer heat on urban park visitation, perceived health and ecosystem service appreciation
T9-6	14:45	F. Beute	Which types and characteristics of green and blue spaces have a positive impact on mental health?

T12 – Disturbances, extreme events and ecosystem services in the Anthropocene: impacts, challenges and management

13:30 – 15:00 Monday, 7 June

Hosts: J. V. Roces-Diaz, A. Regos, J. Lecina-Diaz

Time	Name	Title of the Presentation
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T12-1	13:30	M. Felipe-Lucia	Land-use intensity alters networks between biodiversity, ecosystem functions and services
T12-2	13:45	M. Prokopova	Assessment of land sensitivity to degradation at habitat level
T12-3	14:00	D. Barnes	Emergence, growth and value of polar blue carbon sinks in hotspots of the climate crisis
T12-4	14:15	B. K. Ileri	Anthropogenic activities impacting on water ecosystem services supply in Kapingazi catchment, Embu County, Kenya
T12-5	14:30	A. Stritih	Integrating disturbance risk into mountain forest ecosystem service assessments
T12-6	14:45	J. Lecina-Diaz	Drought-induced risk of losing forest ecosystem services: the role of exposed values, hazard magnitude, susceptibility and lack of adaptive capacity

T16 – In search of policy instruments for ecosystems conservation: a decision-tree approach to PES, REDD+ and Biodiversity Offsets practices

13:30 – 15:00 Monday, 7 June

Hosts: C. Malagutti Fassina, N. S. Zamboni, N. Werner Weins, B. Lliso, L. Costa de Oliveira Santos, A. Scabin, L. Vellozo

	Time	Name	Title of the Presentation
T16-0	13:30	N. Weins	Opening
T16-1	13:35	B. Lliso	Brief presentation of instruments
T16-2 Group A 13:40-14:30			
T16-2A	13:40	A. Deitenbach	Elaboration of seven Municipal Plans of the Atlantic Forest in Lagamar (Parana) Mosaic region considering ecosystem-based adaptation to climate change
T16-2A	13:40	H. Carrascosa Von Glehn	Payment for environmental services as an inductor of land use change in rural areas in São Paulo State, Brazil: Conexão Mata Atlântica Project
T16-2A	13:40	R. Borges	Policies scenarios for halting forest loss in the Brazilian Amazon
T16-2 Group B 13:40-14:30			
T16-2B	13:40	G. Cazzolino	Assessing the values of Cape Verde' ecosystems: an ecosystem services-based approach to understand the environmental impacts of spatial plans and suggest biodiversity off-set measures

T16-2B	13:40	M. A. C. Teixeira	Ecosystem services and aspects of the economy and cultural identity of the Amazonian population in the face of global climate changes
T16-2B	13:40	B. Schulze	Tailor-made agri-environmental program design based on stakeholders' attitudinal profiles
T16-3	14:30		Regrouping / Teamwork
T16-4	14:50		Discussion

Day 1: Monday, 7 June 2021

Afternoon

15:30-17:00

B1 - Bridging the gap between science and policy on marine ecosystem services operationalization in the light of the upcoming EU agenda for 2030

15:30 - 17:00 Monday, 7 June

Hosts: E. Drakou, A. Ziemba, S. Villasante, S. Wanke, S. A. Vergouwen, S. de Juan, A. M. Addamo

	Time	Name	Title of the Presentation
B1-1	15:30	L. Hagedoorn	Angry waves that eat the coast: an economic analysis of nature-based and engineering solutions to coastal erosion
B1-2	15:45	L. Basconi	Multiple ecosystem services assessment in the North Adriatic Sea (Italy)
B1-3	16:00	K. Veidemane	Integrating ecosystem services in participatory scenario building for addressing new EU marine policies in land-sea interface and maritime spatial planning of Latvia
B1-4	16:15	M. Inácio	Looking at the future: the impact of alternative scenarios in the supply of ecosystem services in Lithuania Economic Exclusive Zone
B1-5	16:30		Discussion

O3 - Workshop: The editor's perspective: what to do and what to avoid as the author of a manuscript

15:30 - 17:00 Monday, 7 June

Hosts: L. Inostroza

O6 – A Sustainability Compass to support sustainable governance of Baltic Sea

15:30 – 17:00 Monday, 7 June

Hosts: M. Sajeve, A. Ruskule

	Time	Name	Title of the Presentation
O6-1	15:30	M. Sajeve	Introduction Evidence-based science for informing ethical decision making: a Sustainability Compass towards sustainable development
O6-2	15:45	H. S. Hansen	BONUS BASMATI - decision support for maritime spatial planning
O6-3	15:55	R. Aps	Participatory mapping of marine ecosystem services in support of sustainable maritime spatial planning
O6-4	16:05	F. R. Barboza	Spatially explicit modelling of ecosystem services to support sustainable governance of the Baltic Sea
O6-5	16:15	A. Ruskule	Linking marine and coastal ecosystem service supply to well-being of coastal communities in Latvia
O6-6	15:25	T. Kuhn	Lesson learned: The development of policy relevant literature syntheses through stakeholder participation
O6-7	16:35	M. Sajeve	Moderated discussion about evidence-based governance strategies for marine planning in pursuit of sustainable and integrated human and environmental systems in the Baltic sea

S3 – Forests Ecosystem Service Governance and Valuation – Pathways towards a new forestry agenda

15:30 – 17:00 Monday, 7 June

Hosts: C. Mann, M. Hernández-Morcillo, B. Hansjürgens, L. Loft

	Time	Name	Title of the Presentation
S3-1	15:30	M. Deconchat	Forest for biomass or for biodiversity: scenarii for solving conflicts in the French context
S3-2	15:45	M. Triviño	High rates of short-term dynamics of forest ecosystem services
S3-3	16:00	S. Sorge	Identifying (and understanding) influencing factors of innovative governance for a sustainable supply for forest ecosystem services: a socio-ecological-technical analysis framework

S3-4	16:15	C. Sattler	Participatory Process Net-Mapping to analyze governance innovations for the provision of forest ecosystem services
S3-5	16:30	L. Loft	The emergence of governance innovations for the sustainable provision of forest ecosystem services in Europe: An empirical comparison of six innovation journeys
S3-6	16:45		Discussion

S8c – The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas

15:30 – 17:00 Monday, 7 June

Hosts: M. A. Cebrián-Piqueras, A. Filyushkina, M. D. López-Rodríguez, R. Keller, V. Lo

	Time	Name	Title of the Presentation
S8c-1	15:30	T. Šumrada	Novel approaches to grassland conservation in the remote protected areas of Central and Eastern Europe
S8c-2	15:45	M. D. López Rodríguez	A boundary object approach for collective action in conservation governance: case study from Sierra de Guadarrama National Park (Spain)
S8c-3	16:00	K./M. Negacz/ Petersson	The role of international cooperative initiatives in enhancing biodiversity in protected areas
S8c-4	16:15	M. Marselle	Conceptualizing the pathways linking biodiversity to human health and well-being: An interdisciplinary framework
S8c-5	16:30	M. A. Cebrián-Piqueras	Tracking inclusive conservation: A systematic review of the challenges of and opportunities for social inclusion in current protected area management using correlation network analysis
S8c-6	16:45		Discussion

T4b – National & large scale MAES projects in Europe, including the EU Outermost Regions and Overseas Countries and Territories: challenges, solutions and lessons learned

15:30 – 17:15 Monday, 7 June

Hosts: A. Vari, I. Sieber, I. Arany, B. Czúcz, S. Nedkov, M. Adamescu, J. Maes, B. Burkhard

	Time	Name	Title of the Presentation
T4b-1	15:30	K. Gocheva	Towards a holistic regional approach to ecosystem management in a changing

			climate: spatial analysis of ecosystem services supply and demand for climate change adaptation in and around Sofia, Bulgaria
T4b-2	15:45	P. Dimopoulos	MAES_GR: A web-based platform to support mapping and assessment of ecosystems and their services in Greece
T4b-3	16:00	E. Tromeur	Assessing monetary reference values for different kinds of ecosystem services: results from the French Assessment of Ecosystems and Ecosystem Services
T4b-4	16:15	M. Stępniewska	Services provided by main types of ecosystems in Poland – an applied approach (ECOSERV-POL)
T4b-5	16:30	B. Burkhard	Overview of the MAES-barometer
T4b-6	16:45	A. Vári	National & large scale MAES projects in Europe - what have we learnt?
T4b-7	17:00		Discussion

T4d – Developing and advancing national MAES processes: a path from mapping to implementation

15:30 – 17:30 Monday, 7 June

Hosts: M. Linder, A. Helm, K. Sepp, M. Otsus

	Time	Name	Title of the Presentation
T4d-1	15:30	M. Linder	Introduction Utilization of the results of national MAES in decision making in Estonia
T4d-2	15:45	E. Veromann	Nation-wide mapping and assessment of the condition and services of Estonian agri-ecosystems and potential utilization of the approach in agri-environment schemes
T4d-3	16:00	M. Trencheva	Two-scale approach of ecosystem services assessment and perspectives on implementation in North Macedonia
T4d-4	16:15	P. Mederly	Ecosystem services approach facilitating sustainable development of rural areas in Slovakia
T4d-5	16:30	A. Pilogallo	Mapping Ecosystem Services Multifunctionality: the Italian case
T4d-6	16:45	J. Kotta	PlanWise4Blue: Online tool to assess cumulative impacts of human pressures on ecosystem services

T4d-7	17:00	J. Daněk	Tailoring ecosystem services assessment to stakeholder needs in the framework of consultations with key actors in Natura 2000 sites in the Czech Republic
T4d-8	17:15		Discussion

T9 – Natural environments, ecosystem services and public health in a time of crisis

15:30 – 17:00 Monday, 7 June

Hosts: J. Stadler, A. Boon, M. R. Marselle

	Time	Name	Title of the Presentation
T9-1	15:30	C. L. Y. Tan	Urban nature spaces, leisure activities, and human wellbeing: Unravelling the links in a tropical city-state
T9-2	15:45	M. Zorić	Specific content of volatile organic compounds in trees determine green spaces potential in terms of enhancing human health and well-being
T9-3	16:00	K. Irvine	Cultural ecosystem services: exploring landscape characteristics and spiritual wellbeing
T9-4	16:15	J. C. Alejandre	Prescribing blue space interventions in health and social care settings: a systematic review using realist synthesis
T9-5	16:30	S. Podschun	Collateral values of COVID-19? Exploring the use of STRAVA data to derive spatial-temporal patterns of recreation
T9-6	16:45		Discussion

T12 – Disturbances, extreme events and ecosystem services in the Anthropocene: impacts, challenges and management

15:30 – 17:00 Monday, 7 June

Hosts: J. V. Rocés-Díaz, A. Regos, J. Lecina-Díaz

	Time	Name	Title of the Presentation
T12-1	15:30	J. V. Rocés-Díaz	Forests and woodlands, fires and ecosystem services: exploring some of the multiple relationships
T12-2	15:45	P. Roche	Ecosystem resilience and vulnerability to forest fires, changes in the production of ecosystem services in northern Provence, France

T12-3	16:00	A. Sil	Evaluation and application of a fire regime modelling tool to characterize fire-related functions and services in a fire-prone Mediterranean mountain landscape
T12-4	16:15		Discussion

Day 2: Wednesday, 9 June 2021

Morning

11:00 – 12:00

B2 – Planning and implementing Nature-based Solutions for water management at different scales

11:00 – 12:00 Wednesday, 9 June

Hosts: A. Ruskule, B. Edam Esmail, K. Veidemane, C. S. Ferreira, P. Guerrero, K. Burkhard, Z. Lībiete, I. Vinogradovs, D. Vollomer, N. Nagabhatla, L. Suleiman, D. Haase

	Time	Name	Title of the Presentation
B2-0	11:00	A. Ruskule	Introduction
B2-1	11:05	J. Šīre	Demonstration of nature-based solutions for improvement of the status of water bodies in Latvia
B2-2	11:18	Z. Kalvīte	Green infrastructure for water protection in forestland: Solutions, effectiveness and practical application in Latvia
B2-3	11:31	F. Di Grazia	Ecosystem services of the Piave River catchment (Italy), examining climate and river restoration scenarios
B2-4	11:44	K. Karner	Optimizing land and water-based ecosystem services under climate change – a regional case study application in Austria

B10 – Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models

11:00 – 12:00 Wednesday, 9 June

Hosts: L. Jones, S. Salata, S. Ronchi, A. Arcidiacono, D. Fletcher, L. Inostroza, N. Kabish, A. Fitch

	Time	Name	Title of the Presentation
B10-0	11:00	L. Jones	Introduction
B10-1	11:10	C. Stanley	A concept for determining the perceived quality of urban green spaces as the basis for a green space planning tool

B10-2	11:20	C. Brouillet	Do we have enough space for walking in times of a Pandemic?
B10-3	11:30	R. Kraemer	Parks in context: Advancing citywide spatial quality assessments of urban green spaces using fine-scale indicators
B10-4	11:40	W. Jaung	Temperature and air pollution reductions by urban green spaces are highly valued in a tropical city-state
B10-5	11:50		Discussion

S8a – Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes

11:00 – 12:00 Wednesday, 9 June

Hosts: E. Cohen-Shacham, E. Cabecinha

	Time	Name	Title of the Presentation
S8a-0	11:00	E. Cohen-Shacham E. Cobecinha	Introduction
S8a-1	11:03	E. Cohen-Shacham	IUCN's operational framework to implement Nature-based Solutions
S8a-2	11:15	E. Cabecinha	Linking Nature-based Solutions to Ecosystem Services: using IUCN Global Standard to upscale NbS implementation
S8a-3	11:45	A. Murillas-Maza	Nature-based solutions to climate change mitigation and adaptation: Indicators of Biodiversity by Ecosystem Services
S8a-4	11:30	A. La Notte	Nature-Based Solutions as ecological assets providing ecosystem services in urban accounting

S8b – Planning nature-based solutions while keeping people's preferences in mind

11:00 – 12:00 Wednesday, 9 June

Hosts: J. Louda, J. Brabec, D. Sikorska, K. Grunewald, J. Macháč

	Time	Name	Title of the Presentation
S8b-0	11:00	J. Louda	Introduction
S8b-1	11:08	D. Sikorska	Less is more – how informal green spaces can improve urban green space availability and decrease maintenance costs
S8b-2	11:21	E. Łaskiewicz	Green spaces are my places: the interplays between place attachment, greenery features and environmental justice

S8b-3	11:34	R. U. Syrbe	The value of urban nature for health and wellbeing as ecosystem service – an empirical comparative study for three cities in Germany and Czechia
S8b-4	11:47	L. Suchá	Combining participatory scenario building with vulnerability analysis modelling as a tool for supporting nature-based solutions implementation: the case from the Czech Republic

T1 – The ecosystem service classification challenge: experiences with CICES and other ES typologies in Europe

11:00 – 12:00 Wednesday, 9 June

Hosts: B. Czúcz, A. La Notte, B. Burkhard, J. E. Petersen, C. Brown, S. King, J. Maes, R. Haines-Young

	Time	Name	Title of the Presentation
T1-1	11:00	A. La Notte	Types and typologies of ecosystem services for accounting purposes
T1-2	11:15	J. Finisdore	18 benefits of using ecosystem services classification systems
T1-3	11:30	M. Dallimer	Do ecosystem service frameworks represent people's values?
T1-4	11:45	I. Gasparini	Forests Functions and Forest Ecosystem Services: the use of these concepts in forest practice in Switzerland

T2 – EKLIPSE-The European Science-Policy-Society Interface on Biodiversity and Ecosystem Services

11:00 – 12:00 Wednesday, 9 June

Hosts: M. Vandewalle, K. Locher-Krause

T3 – Ecosystem services indicators in the era of big, coarse data

11:00 – 12:00 Wednesday, 9 June

Hosts: A. van Oudenhoven, E. Drakou, A. La Notte, O. Selomane, B. Czúcz

	Time	Name	Title of the Presentation
T3-0	11:00	A. van Oudenhoven	Introduction
T3-1	11:10	K. van Ruymbeke	Assessing environmental performance of agricultural practices in Europe using ecosystem services: A rapid evidence assessment and environmental performance indicator approach

T3-2	11:25	S. Meier	Assessing potential wild bee habitats in Germany from nationwide datasets
T3-3	11:40	G. Linney	The importance of accounting for natural capital attribute interlinkages when assessing ecosystem service provision
T3-4	11:55		Discussion

T11 – Telecoupling and interregional flows of ecosystem services: methods and applications

11:00 – 12:00 Wednesday, 9 June

Hosts: M. Felipe-Lucia, C. J. Schulp, M. Felipe-Lucia, E. Drakou, T. Koellner

	Time	Name	Title of the Presentation
T11-1	11:00	C. Chalkiadakis	Assessment of marine ecosystem service flows: A critical literature review
T11-2	11:15	G. Bidoglio	Trade-induced displacement of impacts of global crop production on marine ecosystem eutrophication
T11-3	11:30	M. Brueck	Ecosystem service flows from southwestern Ethiopia: a disaggregated analysis with regard to scale
T11-4	11:45		Discussion

T18 – Governing ecosystem services and biodiversity in socio-ecological systems

11:00 – 12:00 Wednesday, 9 June

Hosts: L. Loft, S. Ronchi, M. Spyra, A. Vallet, A. Arcidiacono, C. Cortinovis, S. Lai, N. Droste, B. Hansjürgens

	Time	Name	Title of the Presentation
T18-0	11:00	L. Loft M. Spyra S. Ronchi	Introduction
T18-1	11:05	I. Ameetzaga-Arregi	Practical guide for the design of spatial planning plans from the perspective of Ecosystem Service
T18-2	11:20	G. Lombardini	Ecosystem services as an opportunity for innovation in spatial planning: The case of Ligurian Alps
T18-3	11:35	S. Lai	Green infrastructure as a tool to ground planning policies to ward off hydro-geological hazard: Suggestions from a Sardinian case study

T18-4	11:50	J. A. Olsson	Mainstreaming biodiversity offsetting into Swedish municipal planning through the lens of Ecosystem Services
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Day 2: Wednesday, 9 June 2021

Afternoon

13:30 – 15:00

B2 – Planning and implementing Nature-based Solutions for water management at different scale

13:30 – 15:00 Wednesday, 9 June

Hosts: A. Ruskule, B. Adem Esmail, K. Veidemane, C. S. Ferreira, P. Guerrero, K. Burkhard, Z. Lībiete, I. VinogradovS, D. Vollmer, N. Nagabhatla, L. Suleiman, D. Haase

	Time	Name	Title of the Presentation
B2-0	13:30	B. Adem Esmail	Introduction
B2-1	13:35	V. Pinto	An urban nature-based solution for pluvial flood regulation: a case study from Coimbra, Portugal
B2-2	13:48	M. Guerrero-Hidalga	Intangible damages of combined sewer overflows spills in recreational services of coastal urban areas
B2-3	14:01	M. S. Orta Ortiz	Upscaling nature-based solutions and assessing cumulative benefits for stormwater management in the city of Las Palmas de Gran Canarias
B2-4	14:14	B. Masiri	The role of green infrastructure towards water security - chasing legitimacy in a changing urban environment
B2-5	14:27	N. Singh	Nature-Based Solutions for Sustainable Water management in the Peri-Urban: Towards a better understanding of opportunities and constraints in Stockholm County, Sweden
B2-6	14:40	N. Salliou	A model-based dialogue between design, science and stakeholders for the design of sustainable and resilient cities
B2-7	14:53		Discussion

B10 – Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models

13:30 – 15:00 Wednesday, 9 June

Hosts: L. Jones, S. Salata, S. Ronchi, A. Arcidiacono, D. Fletcher, L. Inostroza, N. Kabish, A. Fitch

	Time	Name	Title of the Presentation
B10-0	13:30	S. Salata	Introduction
B10-1	13:40	S. Ronchi	Setting Urban design parameters based on Ecosystem Services modelling: an application in Milano city
B10-2	13:50	H. Duchkova	Mismatches in urban microclimate cooling and unequal distribution among beneficiaries, a case study of Prague, Czech Republic
B10-3	14:00	D. Geneletti	Implementing Nature-based solutions in cities through performance-based urban planning
B10-4	14:10	L. Sulkarnaeva	Assessing, valuing, and mapping ecosystem services at city level: The case of Tyumen (Russia)
B10-5	14:20	D. Fletcher	Quantifying the Ecosystem Service of noise mitigation provided by urban woodland, at scale
B10-6	14:30	J. Babí Almenar	Assessing the contribution of urban forest to ecological connectivity and net ecosystem services supply in densifying cities
B10-7	14:40		Discussion

04 – Guidelines, tools, databases and standards for implementing integrated ecosystem services assessments

13:30 – 15:00 Wednesday, 9 June

Hosts: R. De Groot, B. Rugani, V. Colino, S. Moolenaar, F. Rodriguez, L. Inostroza, S. Quatrini

	Time	Name	Title of the Presentation
04-1	13:30	R. De Groot	Guidlines for Integrated assessment of costs and benefits of large-scale landscape restoration
04-2	13:45	E. Drakou	A novel approach toward ES guidelines, and Standards
04-3	14:00	J. Hugé	Ecosystem services assessment tools: a review and user-informed classification
04-4	14:15	B. Cortinovis	Synthesizing multiple ecosystem service assessments for urban planning: a review of approaches, and recommendations

04-5	14:30	A. Bulckaen	ARIES (ARTificial Intelligence for Environment & Sustainability) for SEEA for rapid natural capital accounts generation: Towards fast, transparent and standardized yet customizable ecosystem accounts
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S8b – Planning nature-based solutions while keeping people’s preferences in mind

13:30 – 15:00 Wednesday, 9 June

Hosts: J. Louda, J. Brabec, D. Sikorska, K. Grunewald, J. Macháč

Time	Name	Title of the Presentation	
S8b-1	13:30	J. Brabec	Do residents’ preferences hinder provision of ecosystem services from green and blue infrastructure? Evidence from Czechia and Germany
S8b-2	13:45	B. Immerzeel	Appreciation of Nordic landscapes and how the bioeconomy might change that: results from a discrete choice experiment
S8b-3	14:00	L. Fockaert	Local support for agro-environmental measures in Flanders and the role of knowledge and environmental attitudes
S8b-4	14:15	M. Hekrle	Public perception of different nature-based flood protection solutions: lessons from field research in Czechia
S8b-5	14:30	L. Hagedoorn	The role of ecosystem-based adaptation in reducing vulnerability to climate change
S8b-6	14:45	D. La Rosa	From preferences of social groups to planning and management solutions of green spaces in Bucharest

T3 – Ecosystem services indicators in the era of big, coarse data

13:30 – 15:00 Wednesday, 9 June

Hosts: A. van Oudenhoven, E. Drakou, A. La Notte, O. Selomane, B. Czucz

Time	Name	Title of the Presentation	
T3-1	13:30	V. Matasov	Changes of the recreation patterns in urban parks associated with COVID -19
T3-2	13:45	L. Jones	Combining natural and cultural elements to model quality of landscapes (landscape character) at national scale
T3-3	14:00	M. Gugulica	Mapping indicators of cultural ecosystem services in urban green spaces based on

			geosocial media data and unsupervised text classification
T3-4	14:15	I. Havinga	Modelling the aesthetic contributions of ecosystems using social media and computer vision
T3-5	14:30	M. Venohr	Assessing water-based recreational activity dynamics from social media data
T3-6	14:45		Discussion

T4a – Mapping and assessment of ecosystem condition and relationships with ecosystem service supply

13:30 – 15:05 Wednesday, 9 June

Hosts: P. Rendón, S. Campagne, B. Burkhard, P. Roche

	Time	Name	Title of the Presentation
T4a-0	13:30	P. Rendón	Introduction
T4a-1	13:35	S. Rova	Relationship between ecosystem services' capacity and flow in the Venice lagoon: which implications for a sustainable management?
T4a-2	13:50	A. Lillebø	Assessing risk and vulnerability of coastal habitats to deliver ecosystem services: a socio-ecological Natura 2000 site as case study
T4a-3	14:05	K. Merekalova	Ecosystem services of wetland landscapes under land use change - a case study of Meshchera lowland, Central Russia
T4a-4	14:20	A. Helm	Methods to quantify ecosystem condition in a country-wide assessment - Estonian approach
T4a-5	14:35	N. Melovska	Mapping and assessment of ecosystem condition – MAES implementation in North Macedonia
T4a-6	14:50	M. Weissgerber	Ecosystem services and land use changes: a case study of forest expansion in a peri-urban area

T5 – Integrated models and ecosystem services – application in real world case studies

13:30 – 15:00 Wednesday, 9 June

Hosts: K. Burkhard, P. Harrison, B. de Knecht, Z. Harmackova, R. Remme, S. Nedkov, R. Alkemade, N. Schulp

	Time	Name	Title of the Presentation
T5-0	13:30		Welcoming and update on ESP TWG5 Modelling ES activities
T5-1	13:40	V. Pechanec	Integrated modelling and evaluation of the landscape, the state of biodiversity and ecosystem services for the needs of landscaping
T5-2	13:53	P. Harrison	Co-design of an integrated ecosystem service model to inform agricultural and environmental policy in Wales
T5-3	14:06	A. Marquez Torres	How 198 models of pastureland management can be accessible, interoperable and user friendly
T5-4	14:19	B. Black	Ex-ante identification of policy interventions to secure a functioning ecological infrastructure: A participatory Bayesian Network approach in Switzerland
T5-5	14:32	K. Burkhard	How can climate change impact modelling and uncertainty analysis actually inform decision-making and support adaptation to change? An example of land use adaptation at the German North Sea coast
T5-6	14:45		Discussion

T6 – Valuation WG Workshop: broadening cultural and institutional boundaries for plural valuation

13:30 – 15:00 Wednesday, 9 June

Hosts: S. Jacobs, R. Plant, D. Geneletti, D. Barton, P. Cabral

	Time	Name	Title of the Presentation
T6-0	13:30	S. Jacobs	Welcoming & Introduction
T6-1	13:40	R. Plant	Landholder perceptions of biodiversity offsetting rights and responsibilities: A trigger for institutional reform?
T6-2	13:50	Y. El ghafraoui	Exploring landscape values and preferences to understand human-nature connectedness across Spanish drylands
T6-3	14:00	C. Madueño-Florián	Social valuation of ecosystem services provided by the Mariño watershed in Apurimac, Peru
T6-4	14:10	P. Cabral	Stakeholders' vision of ecosystem services for Portugal: a participatory approach
T6-5	14:20	K. Sangha	Understanding the importance of cultural ecosystems services for managing natural

			resources and enhancing Indigenous well-being
T6-6	14:30	T. Schmitt	How do values of grasslands and their ecosystem services vary in space?
T6-7	14:40	C. Bullock	Informing the management of rivers by drawing on socio-ecological knowledge, cultural ecosystem services and plural values
T6-8	14:50	Z. V. Harmackova	Linking multiple values of nature with future impacts: Value-based participatory scenario development for sustainable landscape governance

T18 – Governing ecosystem services and biodiversity in socio-ecological systems

13:30 – 15:00 Wednesday, 9 June

Hosts: L. Loft, S. Ronchi, M. Spyra, A. Vallet, A. Arcidiacono, C. Cortinovis, S. Lai, N. Droste, B. Hansjürgens

	Time	Name	Title of the Presentation
T18-0	13:30	L. Loft M. Spyra S. Ronchi	Introduction
T18-1	13:35	M. Giacomelli	The integration of ecosystem services in landscape planning: a systematic literature review
T18-2	13:50	M. Spyra	Protection of peri-urban open spaces at the level of regional policy-making: examples from six European regions
T18-3	14:05	M. Haensel	Policy instruments and their success of preserving permanent grassland in Bavaria
T18-4	14:20	K. Krauze	Dealing with the wicked problems of urban environment – is the way out paved with ecosystem services? The case of the City of Lodz' Long-Term Socio-Ecological Research Platform
T18-5	14:35	A. M. Popa	Assessing the ecosystem services and disservices provided by green spaces in care facilities for elderly people
T18-6	14:50	L. Loft M. Spyra S. Ronchi	Online survey

Day 2: Wednesday, 9 June 2021

Afternoon

15:30 – 17:30

B2 – Planning and implementing Nature-based Solutions for water management at different scale

15:30 – 17:30 Wednesday, 9 June

Hosts: A. Ruskule, B. Adem Esmail, K. Veidemane, C. S. Ferreira, P. Guerrero, K. Burkhard, Z. Lībiete, I. Vinogradovs, D. Vollmer, N. Nagabhatla, L. Suleiman, D. Haase

	Time	Name	Title of the Presentation
B2-1	15:30	M. Balzan	Mapping and assessing ecosystem services to plan and assess water management actions at different scales in Malta
B2-2	15:43	E. Uuemaa	Dimensioning of riparian buffer zones in agricultural catchments at national level
B2-3	15:56	M. Turner	Evidence led nature-based solutions in the North West River Basin District: the Natural Course approach
B2-4	16:09	A. Broeckx	The use of a multi-scale Topographic Position Index for the identification of upstream depressional wetlands
B2-5	16:22	M. A. Rahaman	Nature-based solution for water management in salinity affected coastal belt of Bangladesh
B2-6	16:35	L. A. Tadesse	Total economic valuation of Ecosystem Services of the Sudd Wetland for green infrastructure planning and development
B2-7	16:48	I. Vinogradovs	Green infrastructure planning as a tool for operationalizing ecological solidarity for rural-urban cohesion
B2-8	17:00		Discussion

B3 – Forest ecosystem services, water regulation & public policies in the face of global changes

15:30 – 17:50 Wednesday, 9 June

Hosts: A. Robert, G. Valatin

	Time	Name	Title of the Presentation
B3-0	15:30	A. Robert G. Valatin	Introduction
B3-1	15:35	G. Valatin	Woodlands for water quality Payments for Ecosystem Services: findings of the PESFOR-W COST Action
B3-2	15:50	F. Gordillo	Additionality and leakage resulting from PES implementation? Evidence from the Ecuadorian Amazonia

B3-3	16:05	A. Hardaker	Optimization of land use in the Welsh uplands for reconciling increased tree cover, ecosystem services and agricultural incomes
B3-4	16:20	M. Segun Bolarinwa	The Effect of Deforestation on Climate Change
B3-5	16:35	R. Yaneva	A DPSIR assessment on ecosystem services in Sredna Stara Planina Mountain, Bulgaria
B3-6	16:50	B. West	Make like a tree and leave: How will tree species loss and climate change alter future temperate broadleaved forests?
B3-7	17:05	A. Deitenbach	Elaboration of nine Municipal Plans of the Atlantic Forest in Central Rio de Janeiro Mosaic region considering ecosystem-based adaptation to climate change
B3-8	17:20	A. Lecegui	Exploring the contribution of forestry and pastoral management practices to Ecosystem Services delivery in Mediterranean silvopastoral systems
B3-9	17:35		Discussion
B3-10	17:45		Conclusion

B10 – Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models

15:30 – 17:30 Wednesday, 9 June

Hosts: L. Jones, S. Salata, S. Ronchi, A. Arcidiacono, D. Fletcher, L. Inostroza, N. Kabish, A. Fitch

	Time	Name	Title of the Presentation
B10-0	15:30	L. Inostroza	Introduction
B10-1	15:40	D. Longato	Planning Nature-based Solutions in Valletta (Malta) by analyzing citizens' demand, spatial opportunities and policy instruments
B10-2	15:50	C. Dworczyk	Conceptualising demand for ecosystem services – an adapted spatial-structural approach
B10-3	16:00	S. van der Meulen	Changing demands for urban surface water extractions and in situ use functions
B10-4	16:10	K. Marekalova	Urban ecosystem services in Lipetsk (Russia): mapping, assessment, modeling
B10-5	16:20		Short break

B10-6	16:30	Y. Ma	Revealing the value of ecosystem services from city parks for nearby residents: a hedonic pricing study in Beijing
B10-7	16:40	C. Cantuarias-Villesuzanne	The impact of biodiversity and urban ecosystem services in real estate. The case of the region Ile-de-France
B10-8	16:50	M. Leone	Uptake of the green infrastructure concept in urban policies and planning: a field study in 4 European cities
B10-9	17:00	D. N. Bird	Dowscaling of daily Land Surface Temperature (LST) to fine scale (30m x 30m) using a variation of the DisTrad approach that mixes MODIS LST and LANDSAT NDVI data at different spatial frequencies
B10-10	17:10		Discussion

04 – Guidelines, tools, databases and standards for implementing integrated ecosystem services assessments

15:30 – 17:30 Wednesday, 9 June

Hosts: R. De Groot, B. Rugani, V. Colino, S. Moolenaar, F. Rodriguez, L. Inostroza, S. Quatrini

	Time	Name	Title of the Presentation
04-1	15:30	R. De Groot	Services Valuation Database (ESVD): functionalities and use(rs)
04-2	15:45	A. Moreau	The Ecosystem Services Valuation Database (ESVD) and the Biodiversity Integrated Assessment and Computation tool (B-INTACT)
04-3	16:00	F. Rodriguez	Affinity factors for benefit transfer
04-4	16:15	B. Rugani	Expanding the boundary of life cycle costing with ecosystem services to support cost-benefit analysis of nature-based solutions
04-5	16:30	E. Orguera	Urban Agriculture and Ecosystem Services: a sustainable solution in the food security context
04-6	16:45	S. Quatrini	Use of ecosystem services in sustainability standards
04-7	17:00	F. Leucci	Unlocking the potential of liability laws through the ecosystem services or how to make polluters fully liable for environmental losses?
04-8	17:15		Discussion

07 – Introduction to natural capital - What are the relationships between business and nature? We Value Nature “train the trainer”

15:30 – 17:30 Wednesday, 9 June

Hosts: K. Bonga, N. Mc Cormick

Speakers: K. Bonga, N. McCormick

S8b – Planning nature-based solutions while keeping people’s preferences in mind

15:30 – 17:30 Wednesday, 9 June

Hosts: J. Louda, J. Brabec, D. Sikorska, K. Grunewald, J. Macháč

	Time	Name	Title of the Presentation
S8b-1	15:30	B. Loewen	Balancing resilience and inclusivity: Nordic-Baltic experiences of participative planning for urban resilience through nature-based solutions
S8b-2	15:42	R. Włodarczyk-Marciniak	Public participation in the design of contemporary green cities. Coping with challenges and obstacles of the process in Łódź - the city of central Poland
S8b-3	15:54	A. Wilczyńska	Ecosystem services of blue spaces in Warsaw – users perspective
S8b-4	16:06	C. Stanley	meinGrün - an app that combines supply and demand for informing urban green space planners
S8b-5	16:18	A. Philips	Use-related and socio-demographic variations in urban green space preferences
S8b-6	16:30	S. Peter	Cultural worldviews consistently explain bundles of ecosystem service prioritisation across rural Germany
S8b-7	16:42	A. Janson	Social perception of riparian forest value: case study in Latvia
S8b-8	16:54	O. Cudlín	Proposal of "nature-based solutions", supporting the sustainability of the ecosystem service provision in the Krkonoše National Park (Czech Republic)
S8b-9	17:06	J. Pueyo-Ros	The Edible Game: A participatory approach to foster edible nature-based solutions
S8b-10	17:18	J. Louda	Discussion

T4a – Mapping and assessment of ecosystem condition and relationships with ecosystem service supply

15:30 – 17:30 Wednesday, 9 June

Hosts: P. Rendón, S. Campagne, B. Burkhard, P. Roche

	Time	Name	Title of the Presentation
T4a-1	15:30	P. Rendón	Linking ecosystem condition and ecosystem services: A MAES framework applied to European agroecosystems
T4a-2	15:45	E. Prangel	Effects of degradation and restoration on biodiversity and ecosystem services of semi-natural grasslands
T4a-3	16:00	S. Candiago	Analysing vineyard landscapes and their ecosystem services under climate change
T4a-4	16:15	E. Bukvareva	Biodiversity and ecosystem services help preserve each other: what does it mean for decision making at different spatial scales?
T4a-5	16:30	P. Roche	Using ecosystem condition to modulate ecosystem services capacity matrix scores
T4a-6	16:45	A. La Notte	At which stage condition characteristics can link to ecosystem services in the accounting framework? Few INCA-based examples at EU level
T4a-7	17:00	B. Farrell	What condition is your condition in?
T4a-8	17:15	A. Vari	Alternative cascade models - suggestions and discussion

T5 – Integrated models and ecosystem services – application in real world case studies

15:30 – 17:30 Wednesday, 9 June

Hosts: K. Burkhard, P. Harrison, B. de Knegt, Z. Harmackova, R. Remme, S. Nedkov, R. Alkemade, N. Schulp

	Time	Name	Title of the Presentation
T5-1	15:30	M. A. E. Forio	Bayesian Belief Network models as trade-off tools of ecosystem services in the Guayas River Basin in Ecuador
T5-2	15:43	A. Paqual	Valuation of land-water ecosystem services and invasive species when using Pareto Frontiers: a showcase in Hawai'i Island, USA
T5-3	15:56	B. Botequin	Tree species composition and understory coverage as drivers of habitat diversity - An innovative approach for an optimized landscape biodiversity assessment
T5-4	16:09	M. Felipe-Lucia	Incorporating ecosystem services to social-ecological networks: gap or redundancy?

T5-5	16:22	M. Hinsch	Influence and dependence on input data for the modelling of pollinator habitat suitability with “ESTIMAP” and “InVEST”
T5-6	16:35	E. S. Arslan	A GIS Based Approach for Predicting Recreational Ecosystem Services Hotspots
T5-7	16:48	T. Wübbelmann	Urban flood regulation Ecosystem Services under climate change – A modelling approach for heavy precipitation events
T5-8	17:01	L. Tardieu	Moving beyond soil sealing evaluation in urban planning with ecosystem services quantification
T5-9	17:14		Discussion
T5-10	17:29		Close session

T6 – Valuation WG Workshop: broadening cultural and institutional boundaries for plural valuation

15:30 – 17:30 Wednesday, 9 June

Hosts: S. Jacobs, R. Plant, B. Martin-Lopez, D. Geneletti, D. Barton, P. Cabral

Time	Name	Title of the Presentation	
T6-0	15:30	S. Jacobs	Re-Welcoming & Re-Introduction
T6-1	15:40	J. H. Spangenberg	Ecosystem Services (ESS): from ecosystems to benefits. Subjectivity and Valuation in Context
T6-2	15:50	J. Breyne	How the integration of preferences and socio-cultural values within an ES framework can be meaningful for natural resource management
T6-3	16:00	J. Blanchard-Lafayette	Hook, line and sinker – The Life Frames as an anchor for diverse value perspectives in UK coastal communities
T6-4	16:10	B. Lliso	Motivational crowding effects in payments for ecosystem services under alternative value frames: Instrumental versus Relational values
T6-5	16:20	E. V. Helseth	Plural values of forest ecosystems for sustainable community development – a case study in Norway
T6-6	16:30		Discussion: Aggregation of individual values to societal value: how to?
T6-7	17:00		Discussion: Integration of diverse values in a societal value: how to?

T18 – Governing ecosystem services and biodiversity in socio-ecological systems

15:30 – 17:30 Wednesday, 9 June

Hosts: L. Loft, S. Ronchi, A. Vallet, A. Arcidiacono, C. Cortinovia, S. Lai, N. Droste, B. Hansjürgens

	Time	Name	Title of the Presentation
T18-0	15:30	L. Loft M. Spyra S. Ronchi	Introduction
T18-1	15:35	T. Eichhorn	The success of contractual solutions for the provision of public goods and ecosystem services from agriculture and forestry – A qualitative analysis of 120 case studies in- and outside Europe
T18-2	15:50	C. Claron	Mapping ecosystem services to design cost-effective private land conservation
T18-3	16:05	R. Isaac	Governance pluralism to manage the complexity of ecosystem services co-production
T18-4	16:20	T. Pacetti	Evaluating Environmental and Resource Costs in water tariffs through an ecosystem services approach: a case for Italy
T18-5	16:35	Z. Wu	Sustainable Livelihood Security (SLS) in the Poyang Lake Ecological Economic Zone: Spatial-temporal evolution and constraints identification
T18-6	16:50	E. Bruno	Market-based instruments to enhance Urban Ecosystem Services: a review
T18-7	17:00	F. Benra	Context matters - designing equitable and balanced PES strategies
T18-8	17:15	C. Chen	Incentive based policy instruments guiding towards sustainable use of peatlands in EU

Day 3: Thursday, 10 June 2021

Morning

9:30 – 10:30

01 – ESP Steering Committee Internal Session

9:30 – 10:30 Thursday, 10 June

Hosts: Z. V. Harmackova, S. Jacobs

05 – Disentangling equity in ecosystem services

9:30 – 10:30 Thursday, 10 June

Hosts: F. Benra, M. Felipe-Lucia, A. Bonn

	Time	Name	Title of the Presentation
05-1	9:30	B. M. Zodered	Mapping recognition justice: methodological and conceptual challenges
05-2	9:45	B. Locatelli	Social-ecological network analysis to explore equity in the management and use of ecosystem services
05-3	10:00	M. Felipe-Lucia	Building consensus on how to conceptualize ecosystem services as social-ecological networks
05-4	10:15	J. Langemeyer	Weaving notions of justice into urban ecosystem services research and practice

S1 – Modelling ecosystem services for defining a safe operating space in European agricultural landscapes

9:30 – 10:30 Thursday, 10 June

Hosts: P. Zander, T. Wrbka, F. Herzog, K. Sepp, F. Danzinger, J. Schuler

	Time	Name	Title of the Presentation
S1-1	9:30	S. Pedro	Public policy toolbox for a transition to sustainable food systems
S1-2	9:45	E. Hunter	Using the Cascade Framework to understand grassland policy logic and ES across Europe
S1-3	10:00	D. Alba-Patiño	Assessing impacts of ecological restoration on human well-being across Mediterranean cultural landscapes
S1-4	10:15	R. Suzette Lorilla	Using machine learning to analyse the effects of agricultural practices on ecosystem services

S5 – Progress and challenges in the operationalization of the ecosystem services approach into policy & practice for aquatic resources management

9:30 – 10:30 Thursday, 10 June

Hosts: M. Kelly-Quinn, J. M. Bodoque del Pozo, M. Christie, J. Backx, M. de Lange

	Time	Name	Title of the Presentation
S5-1	9:30	M. Vainu	Progress and challenges of the assessment of river ecosystem services in Estonia: the case of Viru subcatchment
S5-2	9:45	R. Aps	Indicators of marine ecosystem services inform the Baltic Sea ecosystem-based fisheries management and the maritime spatial planning
S5-3	10:00	D. Norton	Natural capital accounting: integrating ecosystem services into catchment management
S5-4	10:15	S. Wanke	Addressing Ecosystem Services within Integrated Multi-Trophic Aquaculture (IMTA) Systems and Conventional Aquaculture Systems through Bayesian Networks

T4c – Innovation in ES mapping: Sharing experiences from spatial analysis, visualization, communication and user engagement

9:30 – 10:30 Thursday, 10 June

Hosts: M. Villoslada, L. Willemen, B. Burkhard, E. Drakou, I. Palomo

	Time	Name	Title of the Presentation
T4c-1	9:30	A. Vallet	Assessing and mapping ecosystem services with local knowledge and Bayesian networks: Medicinal plants in Peru
T4c -2	9:45	M. Lovric	Combining survey input and GIS data to map forest ecosystem services across Europe
T4c -3	10:00	A. Tisma	Modelling landscape aesthetic quality on global scale: GLOBIO ES-LAQ
T4c -4	10:15		Discussion

T8 – Cultural Ecosystem Services: Time to advance theory and practice

9:30 – 10:30 Thursday, 10 June

Hosts: J. Langemeyer, S. de Vries, J. Danek

	Time	Name	Title of the Presentation
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T8-1	9:30	U. Schirpke	People's perceptions related to cultural ecosystem services of mountain lakes
T8-2	9:45	R. Edwards	A "magic teleportation machine": Shared Cultural Ecosystem Benefits are drawn from nature across ethnically diverse urban green space users
T8-3	10:00	S. Ranger	What goes around comes around. A novel, integrated model reflecting the non-linear interplay between ecosystems, human values and human wellbeing
T8-4	10:15	S. de Vries	The relevance of cultural ecosystem services for quality of life

T14 – Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces

9:30 – 10:30 Thursday, 10 June

Hosts: P. Roche, P. Pereira, F. Turkelboom, L. Valença Pinto, S. Jacobs, J. Priess, C. S. Ferreira, S. Campagne

	Time	Name	Title of the Presentation
T14-1	9:30	R. Carmen	Keep it real: Selecting realistic sets of urban green space indicators
T14-2	9:45	Y. Depietri	Reconciling tradeoffs and maximizing synergies in the design and implementation of green, blue, and grey infrastructure in urban areas
T14-3	10:00	D. La Rosa	Green Infrastructure for urban cooling: high-resolution scenarios based on urban morphology and environmental predictor model
T14-4	10:15	P. Thapa	Assessment of importance of ecosystem services around

T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications

9:30 – 10:30 Thursday, 10 June

Hosts: A. La Notte, I. Grammatikopoulou, S. Campagne

	Time	Name	Title of the Presentation
T17-1	9:30	S. Campagne	Ecosystem Accounting: Where are we in Europe?
T17-2	9:45	B. Smet	INCA 2021-2023, advance the implementation of ecosystem accounts in the EU

T17-3	10:00	L. De Smet	A criteria based framework for evaluating ecosystem accounts
T17-4	10:15	C. Surun	Environmental accounting: a hesitant walk between strong and weak sustainability. An illustration with the history of monetary valuation in the SEEA between 1993 and 2020

Day 3: Thursday, 10 June 2021

Morning

11:00 – 12:30

05 – Disentangling equity in ecosystem services

11:00 – 12:30 Thursday, 10 June

Hosts: F. Benra, M. Felipe-Lucia, A. Bonn

	Time	Name	Title of the Presentation
05-1	11:00	F. Benra	Assessing inequalities is key to understand relationship between wellbeing and ES supply
05-2	11:15	C. De Luca	Assessing Cultural Ecosystem Services (CES) distributional justice in cities: the case of Bologna
05-3	11:30	J. Kato Huerta	A spatial environmental justice index to prioritise the implementation of nature-based solutions in cities
05-4	11:45	H. Hanson	Ticking the green box: Ethical consequences of planning urban ecosystem services in a 'rational way'
05-5	12:00	N. Kabisch	Environmental justice in a world of global change - considering equity, equality or justice in ecosystem services research
05-6	12:15	J. Loos	How the ecosystem services framework may cater for environmental justice

08a – Emerging concepts in ecosystem services assessment

11:00 – 12:30 Thursday, 10 June

Hosts: E. Prangel

	Time	Name	Title of the Presentation
O8a-1	11:00	J. A. Molina-Valero	The assessment and comparison of structural patterns among mediterranean, temperate and boreal mature forest of <i>Pinus sylvestris</i>
O8a-2	11:15	F. Joly	Biological operability, a new concept based on ergonomics to assess the difficulty to optimize bundles of ecosystem services
O8a-3	11:30	J. Seják	Why ecosystem service valuations should be counterbalanced by the Earth's thermodynamic costs
O8a-4	11:45	A. Grando	Design with Ecosystem services: environmental performance tools as an integrated methodology for landscape design
O8a-5	12:00	M. Bekchanova	Biochar's effect on the ecosystem services provided by sandy-textured and contaminated sandy soils: a systematic review protocol
O8a-6	12:15	S. Le Clec'h	Critical transitions of biodiversity and ecosystem services along a gradient of agricultural intensification in the Amazon

S1 – Modelling ecosystem services for defining a safe operating space in European agricultural landscapes

11:00 – 12:15 Thursday, 10 June

Hosts: P. Zander, T. Wrbka, F. Herzog, K. Sepp, F. Danzinger, J. Schuler

	Time	Name	Title of the Presentation
S1-1	11:00	F. Danzinger	Regional Green Infrastructure functionality assessment as a foundation to develop evidence-based strategies and action plans through stakeholder involvement
S1-2	11:15	N. Klein	Towards an ecologically adapted agriculture: the role of landscape structures
S1-3	11:30	R. Marja	Effectiveness of agri-environmental management on pollinators species richness is more dependent on ecological contrast than on landscape structure or land-use intensity

S1-4	11:45	I. Arany	Beekeepers can help keeping safe operating boundaries for agriculture
S1-5	12:00	J. Kachler	Co-production of ecosystem services: how much evidence is out there?

S5 – Progress and challenges in the operationalization of the ecosystem services approach into policy & practice for aquatic resources management

11:00 – 12:30 Thursday, 10 June

Hosts: M. Kelly-Quinn, J. M. Bodoque del Pozo, M. Christie, J. Backx, M. de Lange

	Time	Name	Title of the Presentation
S5-1	11:00	M. Penk	An ecosystem service-based decision-support tool for river basin management
S5-2	11:15	M. Christie	An evaluation of the ecosystem service benefits associated with achieving the EU WFD target of all rivers attaining 'satisfactory' ecological condition
S5-3	11:30	L. Ritzenhofen	Ecosystem Service Assessment within the Water Framework Directive - Mussel Cultivation as Controversial Measure
S5-4	11:45	C. Caro	Ecosystem services as a resilience descriptor in habitat risk assessment using the InVEST model
S5-5	12:00	E. Albrecht	Trade-offs between hydropower and biodiversity - A case study on water governance in Kemi river basin
S5-6	12:15	J. Bodoque	Data and modelling needs to support integration of the ecosystem services approach into water resources management

S8a – Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes

11:00 – 12:30 Thursday, 10 June

Hosts: E. Cohen-Shacham, E. Cabecinha

	Time	Name	Title of the Presentation
S8a-1	11:00	T. Dubo	Are Nature-based Solutions for adaptation to climate change located strategically in the Alps?
S8a -2	11:15	M. Paul	Coastal protection and ecosystem services for nature-based management at the German North Sea coast

S8a -3	11:30	V. Giombini	Mapping multifunctional and interconnected Green Infrastructure networks: harnessing nature to meet multiple societal challenges
S8a -4	11:45	S. D. Murgese	The assessment of City of Turin green areas ecosystem services as a tool for land management policies and climate change adaptation
S8a -5	12:00	A. Morán-Ordóñez	Forest restoration to maximize ecosystem service provision across a biological corridor. The importance of accounting for local livelihoods
S8a -6	12:15	E. Bruley	Analysis of levers and barriers to ecosystem-based adaptation implementation in the French Alps

T4c – Innovation in ES mapping: Sharing experiences from spatial analysis, visualization, communication and user engagement

11:00 – 12:30 Thursday, 10 June

Hosts: M. Villoslada, L. Willemen, B. Burkhard, E. Drakou, I. Palomo

Time	Name	Title of the Presentation	
T4c-1	11:00	L. Agbleze	The science and art of mapping ecosystem services: A look at spatial indicators, tools and geoprocessing techniques for ecosystem services assessment
T4c-2	11:15	J. Staes	A LIDAR/DEM based method for Spatial prioritisation of Ecosystem based Adaptation measures
T4c-3	11:30	M. Loreti	A comparative analysis of spatial assessment methodologies for urban ecosystem services
T4c-4	11:45	M. S. Schirru	Same place, different stakeholder communities: ecosystem perspective caleidoscopes?
T4c-5	12:00	M. M. Tonda	Linking Cultural Ecosystem Services, common good and landscape perspective as an alternative tool for drylands management
T4c-6	12:15		Discussion

T8 – Cultural Ecosystem Services: Time to advance theory and practice

11:00 – 12:30 Thursday, 10 June

Hosts: J. Langemeyer, S. de Vries, J. Danek

	Time	Name	Title of the Presentation
T8-0	11:00	J. Langemeyer	Introduction
T8-1	11:15	O. Karasov	Mapping supply and demand for cultural ecosystem services with integrated analysis of remote sensing and social media data
T8-2	11:25	N. N. Kaiser	From sewer to nature: Social media analysis on the impacts of restoration on cultural ecosystem services and biodiversity
T8-3	11:35	S. Winder	Landscape-scale insights into recreational activities derived from image content and an open-source classifier
T8-4	11:45	N. Fox	Reddit: A novel data source for cultural ecosystem service studies
T8-5	11:55	H. Lee	Artificial Intelligence for mapping cultural ecosystem services in Europe using crowd-sourced photos
T8-6	12:05	A. Ghermandi	In the eye of the AI beholder: a comparative analysis of computer vision-assisted characterizations of human-nature interactions in urban green spaces
T8-7	12:15		Discussion

T14 – Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces

11:00 – 12:30 Thursday, 10 June

Hosts: P. Roche, P. Pereira, F. Turkelboom, L. Valença Pinto, S. Jacobs, J. Priess, C. S. Ferreira, S. Campagne

	Time	Name	Title of the Presentation
T14-1	11:00	M. V. Balzan	Mapping and assessing ecosystem services to prioritise nature-based solutions in a high-density urban areas
T14-2	11:15	J. Wang	Harnessing neogeography methods in ecosystem services assessment: A scoping review for the context of green infrastructure planning
T14-3	11:30	F. Nevzati	The ecosystem services from green infrastructure that support human well-being along an urban-wilderness gradient
T14-4	11:45	P. Roche	Integrative management of green infrastructures multifunctionality, ecosystem integrity and ecosystem services

T14-5	12:00	S. Heremans	Spatial management prioritization in green infrastructure: a landscape-scale approach
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T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications

11:00 – 12:30 Thursday, 10 June

Hosts: A. La Notte, I. Grammatikopoulou, S. Campagne

	Time	Name	Title of the Presentation
T17-1	11:00	A. Comte	Ecosystem accounting: past scientific developments and future challenges
T17-2	11:15	K. Oras	Lessons learned on accounting for ecosystem services: bridging the values of services and measures taken
T17-3	11:30	C. Farrell	Natural capital accounting at catchment scale in Ireland: scaling down to scale up
T17-4	11:45	A. La Notte	Ecosystem Services accounts INCA applications in EU27
T17-5	12:00	A. Alfieri	Presentation on the System of Environmental-Economic Accounting – Ecosystem Accounting (SEEA EA)
T17-6	12:15	A. La Notte I. Grammatokopoulou	Presentation of OE initiatives

Day 3: Thursday, 10 June 2021

Afternoon

13:30 – 15:00

O8b – Applications of ecosystem services assessment in different contexts

13:30 – 15:01 Thursday, 10 June

Hosts: M. S. Orta Ortiz, J. Kato Huerta

	Time	Name	Title of the Presentation
O8b-1	13:30	A. Kostantinova	Urban green spaces as providers of cultural ecosystem services: case study of three Russian megacities
O8b-2	13:43	K. Burkhard	Ecological sustainability of water distribution in the Danube basin – impacts of agricultural water use on biodiversity
O8b-3	13:56	D. Hristova	Modelling flood control for the needs of ecosystem accounts in Bulgaria
O8b-4	14:09	H. Sagie	The adoption and application of ecosystem services as a conceptual framework for

			landscape management and planning on the national level, the case of Israel
O8b-5	14:22	J. Schumacher	Assessment of ecosystem services across the land and sea interface: approach and application in Baltic case studies
O8b-6	14:35	A. L. Boesing	Ecosystem services at risk: integrating spatiotemporal dynamics of supply and demand to promote long-term provision
O8b-7	14:48	D. N. Bird	Downscaling of daily Land Surface Temperature (LST) to fine scale (30m x 30m) using a variation of the DisTrad approach that mixes MODIS LST and LANDSAT NDVI data at different spatial frequencies

S1 – Modelling ecosystem services for defining a safe operating space in European agricultural landscapes

13:30 – 14:45 Thursday, 10 June

Hosts: P. Zander, T. Wrbka, F. Herzog, K. Sepp, F. Danzinger, J. Schuler

Time	Name	Title of the Presentation	
S1-1	13:30	T. Conradt	Aligning principally incompatible spatiotemporal data for agricultural yield prediction and ESS modelling
S1-2	13:45	N. Elleaume	Adapting fodder production to climate change in the Alps: A Bayesian analysis to explore robust adaptations despite uncertainties
S1-3	14:00	M. Neyret	Landscape deintensification results in higher and more equitable ecosystem service supply
S1-4	14:15	M. Schönhart	Participatory scenario design for ecosystem services and biodiversity modelling at landscape level
S1-5	14:30	S. Kay	Spatial modelling of farmland economics, biodiversity, and ecosystem services in agricultural landscapes in Switzerland

S6 – Business and Ecosystem Services in Research and Practice

13:30 – 14:30 Thursday, 10 June

Hosts: M. van Weelden, D. Murgese, D. D'Amato

	Time	Name	Title of the Presentation
S6-0	13:30	M. van Weelden	Introduction
S6-1	13:35	A. La Notte	The role of ecosystem services in corporate natural capital accounting: an initial framework proposal
S6-2	13:45	C. Chen	Digital platform to support private sector's contribution of payments for ecosystem services
S6-3	13:55	S. Mc Guinness	Making the business case for biodiversity in Ireland through Financial Needs Assessment
S6-4	14:05		Discussion
S6-5	14:25	M. van Weelden D. Murgese D. D'Amato	Closing

S8a – Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes

13:30 – 15:15 Thursday, 10 June

Hosts: E. Cohen-Shacham, E. Cobecinha

	Time	Name	Title of the Presentation
S8a-1	13:30	J. Lecina-Diaz	Nature-based solutions to wildfires in complex socioecological systems: insights from stakeholders' perspectives in two transboundary protected areas
S8a-2	13:45	S. Balbi	Intelligent planning of nature-based solutions for resilient socio-ecosystems
S8a-3	14:00	L. Costadone	The ecological and economic value of urban lakes in urban heat island mitigation
S8a-4	14:15	H. Koo	An integrative research-policy framework for the better implementation of nature-based solutions in policy-making of urban and peri-urban forests
S8a-5	14:30	M. Balzan	ReNaturing cities through evidence-based implementation of nature-based solutions
S8a-6	14:45	S. Salata	Performance-based Solutions against Cloudburst Events. The case of Turin (North-West Italy)
S8a-7	15:00		Discussion and way forward

T1 – The ecosystem service classification challenge: experiences with CICES and other ES typologies in Europe

13:30 – 15:00 Thursday, 10 June

Hosts: B. Czúcz, A. La Notte, B. Burkhard, J. E. Petersen, C. Brown, S. King, J. Maes, R. Haines-Young

	Time	Name	Title of the Presentation
T1-1	13:30	B. Steinhoff-Knopp	CICES and soil-related ecosystem services: The challenge of representing soils in ES typologies
T1-2	13:45	K. Burkhard	Customizing ES typologies for the needs of coastal protection and management at the German North Sea coast
T1-3	14:00	D. Castilla-Espino	Cultural Ecosystem Services related to small scale fisheries in the EU Atlantic Arc: mapping and relevance in a multivariant framework
T1-4	14:15		Discussion: Quo vadis ecosystem classifications? - Questions and Challenges

T4c – Innovation in ES mapping: Sharing experiences from spatial analysis, visualization, communication and user engagement

13:30 – 15:00 Thursday, 10 June

Hosts: M. Villoslada, L. Willemen, B. Burkhard, E. Drakou, I. Palomo

	Time	Name	Title of the Presentation
T4c-1	13:30	H. Prodanova	Uncertainty analysis in expert-based ecosystem services mapping
T4c-2	13:45	R. Sampaio De Lima	The role and potential of UAVs for vegetation measurement and ecosystem services valuation
T4c-3	14:00	A. Pathal	Total Economic Valuation of Ecosystem Services provided by Soor Sarovar Bird Sanctuary, Agra, India
T4c-4	14:15	B. Seo	Habitat mapping and conservation area planning using camera-trap photos, computer vision, and network analysis: a case study of Yellow-throated marten in DMZ, South Korea
T4c-5	14:30	K. Gocheva	From big to bigger data: combining long - term remote sensing and climate data reanalysis to augment the condition assessment of High- Mountain Ecosystems (HME) in Rila Mountain, Bulgaria
T4c-6	14:45		Discussion

T8 – Cultural Ecosystem Services: Time to advance theory and practice

13:30 – 15:00 Thursday, 10 June

Hosts: J. Langemeyer, S. de Vries, J. Danek

	Time	Name	Title of the Presentation
T8-0	13:30	J. Danek	Introduction
T8-1	13:35	L. Slovak	Dealing with the ambiguous nature of cultural ecosystem services - participatory mapping and assessment of non-material values of nature in the Czech Republic
T8-2	13:50	M. Felipe-Lucia	Enjoying nature? Bundles of cultural ecosystem services for different visitor groups in mountain National Parks
T8-3	14:05	B. Kostanjšek	Addressing cultural ecosystem services in CICES classification: case study on characteristic cultural landscape types in Slovenia
T8-4	14:20	L. Maebe	The numerous faces of the cultural ecosystem services
T8-5	14:35	E. Pramova	Sensing, feeling, thinking: cultural ecosystem services beyond the cognitive
T8-6	14:50		Discussion

T14 – Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces

13:30 – 15:00 Thursday, 10 June

Hosts: P. Roche, P. Pereira, F. Turkelboom, L. Valença Pinto, S. Jacobs, J. Priess, C. S. Ferreira, S. Campagne

	Time	Name	Title of the Presentation
T14-1	13:30	M. Mehring	Choosing between agricultural production and biodiversity conservation in rural landscapes: Preferences of local people in North-Western Europe
T14-2	13:45	F. Turkelboom	Social valuation and friction analysis of green infrastructure
T14-3	14:00	E. S. Arslan	Assessing cultural ecosystem services produced by urban green-blue infrastructure using place-based approach
T14-4	14:15	R. May	Ecosystem service bundles in multifunctional landscapes
T14-5	14:30		Conclusions & Exchanges

T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications

13:30 – 15:15 Thursday, 10 June

Hosts: A. La Notte, I. Grammatikopoulou, S. Campagne

	Time	Name	Title of the Presentation
T17-1	13:30	M. Sylla	Methodological and empirical challenges of SEEA EEA in developing contexts: towards ecosystem service accounts in the Kyrgyz Republic
T17-2	13:45	S. Nedkov	Flood regulation accounting in mountain watersheds in Bulgaria
T17-3	14:00	A. Fitch	Under the influence of Nature: the contribution of Natural Capital to tourism spend
T17-4	14:15	W. van Reeth	Ecosystem Extent Accounting and Reporting in Flanders: Lessons learned
T17-5	14:30	E. Horváthová	The SEEA EEA Water Filtration Account for the Czech Republic
T17-6	14:45	I. Kokkoris	Integrating biodiversity data into Mapping and Assessment of Ecosystem and Their Services (MAES) implementation in Greece: The Flora pilot
T17-7	15:00	L. De Smet	A criteria-based framework for evaluating ecosystem accounts

Appendix II: Poster Session

This poster session will be held on **Monday 7th** from **17:00-18:30**. The list below shows the session which the poster abstract is related. We invite all to join the poster session.

Biome Working Group Posters (B)

B2- Planning and implementing Nature-based Solutions for water management at different scales

ID	Name	Title of the Presentation
B2-1	T. Smart	An Integrated Ecological Network Tool for lowland wetland and woodland habitats in Northwest England

B3- Forest ecosystem services, water regulation & public policies in the face of global changes

ID	Name	Title of the Presentation
B3-1	M. Deconchat	Edge paradox: forest edges as a threat and an opportunity for biodiversity and ecosystem services

B4- Human, livestock and wildlife (im)mobility in grassland and savannah ecosystem

ID	Name	Title of the Presentation
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B4-1	R. Kraus	The conflict-loaded potential of wildlife management for sustainable savannah use: the example of human-elephant interactions in Namibia
B10- Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models		
ID	Name	Title of the Presentation
B10-1	K. Kokamägi	Identification of Urban Heat Islands, Green and Blue Infrastructure by Unmanned Aerial Vehicle
B10-2	L. Semerdzhieva	Natural Heritage Sites in Bulgarian Urban Environment
B10-3	D. Fletcher	City Explorer: Interactive Urban Ecosystem Services Modelling Tool
B10-4	Y. Yan	People's Dynamic Adaptations to Changes in Green Space Supply
B10-5	O. Alvarado	A Comparative Review of Assessment Tools for Measuring and Quantifying Urban Ecosystem Services

Open Session Posters (O)

O2- Early-career researchers' perspectives: Challenges in the face of global change		
ID	Name	Title of the Presentation
O2-1	M. Yuan	Food-energy-water nexus consideration in linking ecosystem services and sustainable development
O2-2	J. Cusens	How will afforestation impact on ecosystem services values in non-forested landscapes?
O4- Guidelines, tools, databases and standards for implementing integrated ecosystem services assessment		
ID	Name	Title of the Presentation
O4-1	K. Wu	Quantifying short-term spatial-temporal dynamics of recreational activities on and around surface waters by Social Media Data
O4-2	A.R. da Fonseca	Climate change impacts on biodiversity in Atlantic landscapes – a Portuguese case study
O4-3	E. Cabecinha	Innovating with nature towards integrated landscape management: Engaging communities into ecosystem services

Sectoral Working Group Posters (S)

S1- Modelling ecosystem services for defining a safe operating space in European agricultural landscapes		
ID	Name	Title of the Presentation
S1-1	A. Saavedra	Agroecological network planning as an approach for food system localisation. The Lisbon city-region case study
S1-2	J. Slancikova	Ecological farming – an example of ecosystem services restoration in Slovakia
S1-3	K. Heinsoo	Alternative ecosystem services in Estonian semi-natural grasslands
S1-4	M. Meyer	Food system, landscape dynamics and ecosystem services across Europe
S8a - Integrating ecosystem services science and tools in implementing Nature-based Solutions to better address global changes		

ID	Name	Title of the Presentation
S8a-1	B. Šarapatka	The impact of global changes on erosion processes and related ecosystem services
S8b - Planning nature-based solutions while keeping people's preferences in mind		
ID	Name	Title of the Presentation
S8b-1	R. Riebl	Societal actors' perceived benefits of hedgerows for ecosystem services
S8b-2	D. Sikorska	Invasive plant species of wastelands – nuisance, threat to biodiversity or a source of ecosystem services provisioning in cities?
S8c - The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas		
ID	Name	Title of the Presentation
S8c-1	K. Kyenkyehene Kusi	Prospective evaluation of the impact of land use change on ecosystem services in the Ourika watershed, Morocco
S8c-2	J.I. Zalles	Biosphere reserves as conservation territories: environmental cognitions and spatial affiliation
S8c-3	J.C. Campos	Trade-offs between climate regulation, fire mitigation and biodiversity conservation under climate- and fire-smart management policies

Thematic Working Group Posters (T)

T1 – The ecosystem service classification challenge: experiences with CICES and other ES typologies in Europe		
ID	Name	Title of the Presentation
T1-1	B. Immerzeel	Societal benefits from Nordic catchments: an integrative approach using the ecosystem services framework
T2- EKLIPSE-The European Science-Policy-Society Interface on Biodiversity and Ecosystem Services		
ID	Name	Title of the Presentation
T2-1	T. K. Ploumi	Demonstrating dependencies between humanity and nature for a sustainable future: A nitrogen case-study
T2-2	B. de Knegt	Scenarios for biodiversity and ecosystem services in the Netherlands
T3 – Ecosystem services indicators in the era of big, coarse data		
ID	Name	Title of the Presentation
T3-1	K. Gocheva	Exploring the effects of drivers of change on nature's contributions to people provided by dry rivers
T4a - Mapping and assessment of ecosystem condition and relationships with ecosystem service supply		
ID	Name	Title of the Presentation
T4a-1	J. Makovníková	Regulating ecosystem services in differently used agroecosystems along a climatic gradient in Slovakia
T4a-2	P. Tramberend	Climate change impacts on land use and ecosystem services
T4a-3	M. Brodersen	Application of interdisciplinary research for improved understanding of social-ecological systems: the case of the National Marine Park of Alonissos in Greece

T4a-4	K. Kaziukonyte	Expert-based assessment and mapping of ecosystem services potential in Nemunas delta region
T4a-5	J. Špulerová	Approach to Assessment of Regulatory Ecosystem Services and Supporting Ecosystem Functions on local level (case study in Slovakia)
T4a-6	E. Garau	Starting from the beneficiaries to understand the supply flow: analysis of the spatial relationships of water ecosystem services.

T4b- National and large scale MAES projects in Europe, including the EU Outermost Regions and Overseas Countries and Territories: challenges, solutions and lessons learnt

ID	Name	Title of the Presentation
T4b-1	E. Prangel	Using species pool approach for country-wide mapping of plant-related ecosystem services
T4b-2	K. Gocheva	Towards a holistic regional approach to ecosystem management in a changing climate: spatial analysis of ecosystem services supply and demand for climate change adaptation in and around Sofia, Bulgaria
T4b-3	M. Šmid Hribar	Review of the ecosystem services research in Slovenia

T4c- Innovation in ES mapping: sharing experiences from spatial analysis, visualisation, communication, and user engagement

ID	Name	Title of the Presentation
T4c-1	A. Reke	Copernicus SIS Biodiversity service and its relevance to ecosystem service community
T4c-2	H. Duchkova	Methods for mapping urban ecosystem service mismatches

T4d- Developing and advancing national MAES processes: a path from mapping to implementation

ID	Name	Title of the Presentation
T4d-1	I. Honavko	Solutions of ecosystem services approach applying in Nature Management Planning – example of Nature Park “Piejūra”, Latvia

T5- Integrated models and ecosystem services - application in real world case studies

ID	Name	Title of the Presentation
T5-1	L. van de Pol	Developing a quantitative holistic sustainability impact assessment tool for marine ecosystem services
T5-2	F. Benra	Mapping water ecosystem services: Evaluating InVEST model predictions in data scarce regions
T5-3	V.J.C. Rabanal	“Give value to nature: learn how to measure what ecosystem services do for us”: a new Erasmus+ project for the valuation of ecosystem services in European high schools
T5-4	A. Helm	Country-wide mapping of habitat provision service: use of indicator species characterizing habitat dimensions

T8- Cultural Ecosystem Services: Time to advance theory and practice

ID	Name	Title of the Presentation
T8-1	L. Kirkpatrick	Blue Space and Cultural Ecosystem Services in a Changing World: Mapping Disciplines, Definitions and Methods
T8-2	M. Bué	A structured approach to compare differences across countries in the cultural ecosystem services provided by cockles
T8-3	J. Roux	Exploring spiritual values of forests across Europe and Asia – Towards a transition hypothesis
T8-4	L. Peña	Mapping Cultural Ecosystem Services at a Biosphere Reserve

T8-5	Z. Lībiete	The use of forest ecosystems and their elements for representational purposes in rural hospitality businesses in Latvia
T9- Natural environments, ecosystem services and public health in a time of crisis services		
ID	Name	Title of the Presentation
T9-1	E. Jūrmalis	Forest visit during troubled Christmas – a case study in Latvia
T9-2	M. Droli	What lies at the heart of 'forest therapy' ecosystem services?
T9-3	T.N. Ploumi	Mental Health benefits deriving from Nature: an urban perspective of psychological ecosystem services during the pandemic
T9-4	A. Popa	Nature-based solutions: from theory to implementation in Romanian urban planning
T11 – Telecoupling and interregional flows of ecosystem services: methods and applications		
ID	Name	Title of the Presentation
T11-1	T.M. Sitotaw	Sacred church forests as sources of wild pollinators for the surrounding smallholder agricultural farms: a unique combination of religion and crop pollination in the Lake Tana basin, Ethiopia
T12 – Disturbances, extreme events, and ecosystem services in Anthropocene: impacts, challenges and management		
ID	Name	Title of the Presentation
T12-1	N. Nicolás Ruiz	Exploring the effects of drivers of change on nature's contributions to people provided by dry rivers
T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications		
ID	Name	Title of the Presentation
T17-1	M. Sylla	How ecosystem services provided within landscape park influence local economy?
T17-2	L. Coleman	Natural capital accounting at catchment scale in Ireland: finding and filling the (data) gaps
T17-3	D. Norton	Application of a natural capital approach to historical data: Developing a time series of ecosystem services for an Irish river catchment
T18- Governing ecosystem services and biodiversity in socio-ecological systems		
ID	Name	Title of the Presentation
T18-1	L.Peña	Integration of Ecosystem Services in Territorial Planning in the Basque Country
T18-2	S. Mani	Woodland creation in the UK: analyzing policy gaps and outcomes using the Institutional Analysis and Development framework
T18-3	M. Ortiz González	Exploring ecotourism and the European Charter for Sustainable Tourism in the protected natural area of Sierra Nevada (Spain).
T18-4	B. Delbaere	Bringing nature and ecosystem services back through LIFE

Appendix III: Timetable and room overview

Monday (7 June 2021)	Room
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13:30 – 15:00	T9 – Natural environments, ecosystem services and public health in a time of crisis	<i>Limosa limosa</i>
	S8C – The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas	<i>Ursus arctos</i>
	S3 – Forest Ecosystem Service Governance and Valuation – Pathways towards a new forestry agenda	<i>Lynx lynx</i>
	B1 – Bridging the gap between science and policy on marine ecosystem services operationalization in the light of the upcoming EU agenda for 2030	<i>Alces alces</i>
	T4b – National & large scale MAES projects in Europe, including the EU Outermost Regions and Overseas Countries and Territories: challenges, solutions and lessons learned	<i>Canis lupus</i>
	T12 – Disturbances, extreme events and ecosystem services in the Anthropocene: impacts, challenges and management	<i>Rubus chamaemorus</i>
	O2 – Early-career researchers’ perspectives: Challenges in the face of global changes	<i>Centaurea cyanus</i>
	B4 – Human, livestock and wildlife (im)mobility in grassland and savannah ecosystem	<i>Oxycoccus palustris</i>
	T16 – In search of policy instruments for ecosystems conservation: a decision-tree approach to PES, REDD+ and Biodiversity Offsets practices	<i>Primula veris</i>
	ARIES Masterclass	<i>Vaccinium myrtillus</i>
15:30 – 17:00	T9 – Natural environments, ecosystem services and public health in a time of crisis	<i>Limosa limosa</i>
	S8C – The role of inclusive conservation approaches for enhancing biodiversity, ES and human well-being in protected areas	<i>Ursus arctos</i>
	S3 – Forest Ecosystem Service Governance and Valuation – Pathways towards a new forestry agenda	<i>Lynx lynx</i>
	B1 – Bridging the gap between science and policy on marine ecosystem services operationalization in the light of the upcoming EU agenda for 2030	<i>Alces alces</i>
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	T12 – Disturbances, extreme events and ecosystem services in the Anthropocene: impacts, challenges and management	<i>Rubus chamaemorus</i>
	T4d – Developing and advancing national MAES processes - a path from mapping to implementation	<i>Centaurea cyanus</i>
	O3 – Workshop: The editor’s perspective: what to do and what to avoid as the author of a manuscript	<i>Oxycoccus palustris</i>
	O6 – A Sustainability Compass to support sustainable governance of Baltic Sea, M. Sajeva & A. Ruskule	<i>Primula veris</i>
	ARIES Masterclass	<i>Vaccinium myrtillus</i>

Wednesday (9 June 2021)		Room
11:00 – 12:00	S8b – Planning nature-based solutions while keeping people’s preferences in mind	<i>Limosa limosa</i>
	B2 – Planning and implementing Nature-based Solutions for water management at different scales	<i>Ursus arctos</i>
	B10 – Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models	<i>Lynx lynx</i>
	T18 – Governing ecosystem services and biodiversity in socio-ecological systems	<i>Alces alces</i>
	S8a.1 – Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes	<i>Canis lupus</i>
	T2 – EKLIPSE- The European Science-Policy-Society Interface on Biodiversity and Ecosystem Services	<i>Rubus chamaemorus</i>
	T1.1 – The ecosystem service classification challenge: experiences with CICES and other ES typologies in Europe	<i>Centaurea cyanus</i>
	T11 – Telecoupling and interregional flows of ecosystem services: methods and applications	<i>Oxycoccus palustris</i>
	T3 – Ecosystem services indicators in the era of big, coarse data	<i>Primula veris</i>
	12:30 – 15:00	S8b – Planning nature-based solutions while keeping people’s preferences in mind

	B2 – Planning and implementing Nature-based Solutions for water management at different scales	<i>Ursus arctos</i>
	B10 – Designing healthier cities through understanding demand for urban green and blue spaces, and the context-dependent benefits they provide, with tools and models	<i>Lynx lynx</i>
	T18 – Governing ecosystem services and biodiversity in socio-ecological systems	<i>Alces alces</i>
	O4 – Guidelines, tools, databases and standards for implementing integrated ecosystem services assessments	<i>Canis lupus</i>
	T4a – Mapping and assessment of ecosystem condition and relationships with ecosystem service supply	<i>Rubus chamaemorus</i>
	T6 – Valuation WG Workshop: broadening cultural and institutional boundaries for plural valuation	<i>Centaurea cyanus</i>
	T5 – Integrated models and ecosystem services – application in real-world case studies	<i>Oxycoccus palustris</i>
	T3 – Ecosystem services indicators in the era of big, coarse data	<i>Primula veris</i>
15:30 – 17:30	S8b – Planning nature-based solutions while keeping people’s preferences in mind	<i>Limosa limosa</i>
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	T5 – Integrated models and ecosystem services – application in real-world case studies	<i>Oxycoccus palustris</i>
	B3 – Forest ecosystem services, water regulation & public policies in the face of global changes	<i>Primula veris</i>
	O7 – Introduction to natural capital - What are the relationships between business and nature? We Value Nature “train the trainer”	<i>Vaccinium myrtillus</i>

Thursday (10 June 2021)		Room
9:30 – 10:30	T8 – Cultural Ecosystem Services: Time to advance theory and practice	<i>Limosa limosa</i>
	T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications	<i>Ursus arctos</i>
	S1 – Modelling ecosystem services for defining a safe operating space in European agricultural landscapes	<i>Lynx lynx</i>
	T14 – Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces	<i>Alces alces</i>
	T4c – Innovation in ES mapping: sharing experiences from spatial analysis, visualization, communication and user engagement	<i>Rubus chamaemorus</i>
	O5 – Disentangling equity in ecosystem services	<i>Centaurea cyanus</i>
	O1 – ESP Steering Committee Internal Session	<i>Oxycoccus palustris</i>
	S5 – Progress and challenges in the operationalisation of the ecosystem services approach for aquatic resources management	<i>Primula veris</i>
11:00 – 12:00	T8 – Cultural Ecosystem Services: Time to advance theory and practice	<i>Limosa limosa</i>
	T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications	<i>Ursus arctos</i>
	S1 – Modelling ecosystem services for defining a safe operating space in European agricultural landscapes	<i>Lynx lynx</i>
	T14 – Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces	<i>Alces alces</i>

	S8a.2 – Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes	<i>Canis lupus</i>
	T4c – Innovation in ES mapping: sharing experiences from spatial analysis, visualization, communication and user engagement	<i>Rubus chamaemorus</i>
	O5 – Disentangling equity in ecosystem services	<i>Centaurea cyanus</i>
	O8a – Emerging concepts in ecosystem services assessment	<i>Oxycoccus palustris</i>
	S5 – Progress and challenges in the operationalisation of the ecosystem services approach for aquatic resources management	<i>Primula veris</i>
13:30 – 15:00	T8 – Cultural Ecosystem Services: Time to advance theory and practice	<i>Limosa limosa</i>
	T17 – From assessment to accounting: how countries experience the development of NCA. Insights from applications	<i>Ursus arctos</i>
	S1 – Modelling ecosystem services for defining a safe operating space in European agricultural landscapes	<i>Lynx lynx</i>
	T14 – Recent advances in green and blue infrastructure ecosystem services and disservices. From rural to urban spaces	<i>Alces alces</i>
	S8a.3 – Integrating ecosystem services science and tools in implementing Nature-based Solutions, to better address global changes	<i>Canis lupus</i>
	T4c – Innovation in ES mapping: sharing experiences from spatial analysis, visualization, communication and user engagement	<i>Rubus chamaemorus</i>
	T1.2 – The ecosystem service classification challenge: experiences with CICES and other ES typologies in Europe	<i>Centaurea cyanus</i>
	O8b – Applications of ecosystem services assessment in different contexts	<i>Oxycoccus palustris</i>
	S6 – Business and Ecosystem Services in Research and Practice	<i>Primula veris</i>

Conference Program overview

Time/ Date	Monday June 7	Tuesday June 8	Wednesday June 9	Thursday June 10	
09:00	Registration & posters installations	Field Trips			
09:30			Keynotes E. Gomez-Baggethun & N. McCormick	Parallel sessions: O: O1, O5 S: S1, S5 T: T4c, T8, T14, T17	
10:00	Opening ceremony		Coffee Break	Coffee Break	
10:30	Keynote & Panel discussion A. Teller & S. Barova		Parallel sessions: B: B2, B10 S: S8a, S8b T: T1, T2, T3, T11, T18	Parallel sessions: O: O5, O8 S: S1, S5, S8a T: T4c, T8, T14, T17	
11:00			Market Place/ posters & Lunch		
11:30	ESP forum			Lunch	
12:00					
12:30	Lunch				
13:30	Parallel sessions: B: B1, B4 O: O2 S: S3, S8c T: T4b, T9, T12, T16		Parallel sessions: B: B2, B10 O: O4 S: S8b T: T3, T4a, T5, T6, T18	Parallel sessions: O: O3, O8 S: S1, S6, S8a T: T1, T4c, T8, T14, T17	
15:00	Coffee Break		Coffee Break	Coffee Break	
15:30	Parallel sessions: B: B1 O: O6 S: S3, S8c T: T4b, T4d, T9, T12		Parallel sessions: B: B2, B3, B10 O: O4, O7 S: S8b T: T4a, T5, T6, T18	Keynotes A. Shkaruba & C. Zambrana-Torrel	
16:30				Awards & Closing ceremony	
17:00	Poster session				
17:30					
18:30	Welcome reception			Conference dinner	



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