

Annex 2: LTSER Training Agenda

Training workshop:

“The LTSER platform: Integrative socio-ecological knowledge production and learning”

4-8 March, 2018

Schedule

Day 1 – 4 March

- 11:00 Arrival, room assignments, coffee
 - Welcome and technical details (**Elli Groner**)
 - Welcome round table: Explanation of objectives, introductions and expectations (**Daniel Orenstein**)
 - “Who am I and what is my role in my platform?” (**Jen Holzer**)
 - Learning aims: (1) Introduction of each participant (both participants and facilitators) (2) Locate the individual within their research/stakeholder context and within the broader context of the LTER network.
- 12:30 Lunch
- 13:30 “*My socio-ecological system.*” (**Kinga Krauze/Jan Dick**)
 - Learning aims: To expand the participants’ understanding of the socioecological context of their LTSER platform to include ecological characteristics, social/societal characteristics and the interactions between the two.
- 15:00 Welcome to the Arava Valley – A great place (with socio-ecological challenges). Meeting with **Dr. Hanan Ginat**, the Head of the Eilat Regional Council.
- 15:45 *Radical stakeholder engagement* (**Muki Haklay**)
- Learning aims: (1) To learn about new methodologies for conducting stakeholder-based integrative research; (2) to provide an understanding of a process of engagement.
- 18:00 Dinner
- 20:00 Evening presentation – Citizen science and crowdsourcing: State of the Art (**Muki Haklay**)

✓ Day 2 – 5 March

- ✓ 8:00 Breakfast
- ✓ 9:00 *Models for regional sustainability* (**Per Angelstam**)
 - ✓ Learning aims: (1) To provide an overview of the key components of place-based collaborative sustainability initiatives (which, as it turns out, are quite similar across approaches). (2) For each participant to appraise their own LTSER platforms regarding the presence/absence of these components (a list will be provided or compiled during the introduction), and where they can be strengthened. (3) To discuss “bridges and barriers” to implementing socio-ecological projects for knowledge production and learning.
- ✓ 10:30 *Building and sustaining an LTSER Platform (and coffee)*
 - ✓ The LTSER Best Practices Handbook – a brief overview (**Mark Frenzel and Daniel Orenstein**)
 - ✓ Learning aims: Presenting the major components of the LTSER and the recommended steps towards establishing and maintaining a platform.
 - ✓ Harmonization at the European Scale (**Michael Mirtl**)

- ✓ Learning aims: Presenting an update on the role of socioecological platforms within the eLTER ESFRI framework and discussion of data needs and objectives at the network scale.
- ✓ 13:00 Lunch
- ✓ 14:30 Stakeholder engagement – iNaturalist (**Muki Haklay**)
 - ✓ Learning aims: (1) gain familiarity with the spectrum of citizen science types and methodologies (2) to understand advantages and disadvantages/strengths and weaknesses of citizen science (3) to provide hands-on experience in conducting participatory citizen science
 - ✓ Acacia walk (**Elli Groner**) to apply iNaturalist
- ✓ 18:00 Dinner – Keren Kolot BBQ

Day 3 – 6 March (day's schedule subject to change)

- 7:00 Breakfast
- 8:30 (Science Center Hall)
 - Today's goals (**Daniel Orenstein**)
 - The history of the Wadi Arava LTSER platforms and their connection (**Elli Groner**)
- 10:15 Tour of the southern Arava Valley – Ecology and Development
- 17:00 Development-Ecology conflicts in the Arava (panel discussion)
- 18:30 Dinner
- 20:00 Wine and synthesis (**Kinga Krauze and Jan Dick**)

Day 4 – 7 March

- 8:00 Breakfast
- 9:00 *Building an action plan for the Arava Valley LTSER* (activity with graphic facilitation; **Mark Frenzel and Aya Auerbach**)
- 11:30 *My action plan: participant strategizing for the next phase of their LTSER platform* (**Mihai Adamescu, Ricardo Diaz-Delgado and Aya Auerbach**)
 - Learning aims: The session will be used to brainstorm and present each platforms action plan for the next two years.
- 13:00 Lunch
- 14:00 *The state of LTSER from the local to the global*
 - Update from eLTER Work Package 10 (**Jan Dick (WP1), Per Angelstam (WP2), and Jen Holzer (WP3)**)
- 15:00 Sharing and documenting experiences (basis for collaborative manuscript) (**Per Angelstam**)
 - Learning goal: Participants will answer short, direct questions as a basis for short narratives about the relevance of socio-ecology to their research, and something they learned about another platform in the workshop.
- 16:00 Leave for Eilat
- 17:00 Walk on the beach and dinner in Eilat

✓ Day 5 – 8 March

- ✓ 8:00 Breakfast
- ✓ 9:00 Bridging top-down versus Bottom up and top down: What you can give to the network and what the network can give to you (**Jan Dick**)
 - ✓ Learning aims: Brainstorming tools for facilitating networking and cross-platform harmonization (e.g. a social DEIMS).
- ✓ 10:00 Coffee and Round table concluding discussion: Recommendations for updating the LTSER best practices guidelines and conclusions (**Michael Mirtl, Mihai Adamescu, Kinga Krauze, Mark Frenzel**)
- ✓ 11:30 Departure

Readings

1. Angelstam, P., K. Andersson, M. Annerstedt, R. Axelsson, M. Elbakidze, P. Garrido, P. Grahn, K. I. Jönsson, S. Pedersen, P. Schlyter, E. Skärbäck, M. Smith, I. Stjernquist. 2013. Solving problems in social-ecological systems: definition, practice and barriers of transdisciplinary research. *AMBIO* 42(2): 254-265.
2. Dick, J., D.E. Orenstein, J. Holzer, C. Wohner, A. Achard, C. Andrews, N. Avriel-Avni, P. Beja, N. Blond, J. Cabello, C. Chen, R. Díaz-Delgado, G.V. Giannakis, S. Gingrich, Z. Izakovicova, K. Krauze, N. Lamouroux, S. Leca, V. Melecis, K. Miklós, M. Mimikou, G. Niedrist, C. Piscart, C. Postolache, A. Psomas, M. Santos-Reis, U. Tappeiner, K. Vanderbilt, G. Van Ryckegem. 2018. What is socio-ecological research delivering? A literature survey across 25 international LTSER platforms. *Science of the Total Environment*. 622-623:1225-1240.
3. Haberl, H., Winiwarter, V., Andersson, K., Ayres, R. U., Boone, C., Castillo, A., . . . Zechmeister, H. (2006). From LTER to LTSER: Conceptualizing the Socioeconomic Dimension of Long-term Socioecological Research. *Ecology and Society*, 11(2).
4. Mirtl, M., Orenstein, D. E., Wildenberg, M., Peterseil, J., & Frenzel, M. 2013. Development of LTSER Platforms in LTER-Europe: Challenges and Experiences in Implementing Place-Based Long-Term Socioecological Research in Selected Regions. In S. J. Singh, H. Haberl, M. Chertow, M. Mirtl, & M. Schmid (Eds.), *Long Term Socio-Ecological Research* (pp. 409-442). Dordrecht: Springer.
5. Orenstein, D.E., M. Frenzel and A. Neuner. *Long-Term Socio-Ecological Research (LTSER) Best Practices Guide. A guide for the establishment of new LTSER platforms in Europe, summarizing the results of a workshop in Sumava, Czech Republic, in February, 2009 under the auspices of LTER-Europe.* 2009.