



## Masterclass Living Labs for Landscape Research: Concept(s) and potentials for implementation

### Convenors

Lasse Loft, Jana Zscheischler, Sebastian Rogga, Maria Busse, Rosemarie Siebert, Bettina Matzdorf, Katharina Helming, all Leibniz Centre for Agricultural Landscape Research (ZALF)

### Invited speakers

Dr. Franziska Stelzer, Senior Researcher, Wuppertal Institute for Climate, Environment, Energy, Division Sustainable Production and Consumption, Research Unit Innovation Labs

Michaela Hopf, Fraunhofer Institute for Solar Energy Systems (ISE), Research Assistant, Division Photovoltaics Modules and Power Plants, Group Agrivoltaics

### Background

Agricultural landscapes and land use are characterized by many social, environmental and economic challenges. Societal pressure is growing to initiate sustainability-oriented change, amongst them approaches for diversification of agricultural landscapes. In this context, a new and intervening role for science in real-world environments is increasingly being discussed.

Transformative and action-research approaches such as Living Labs, real-world labs and niche experiments are considered as particularly promising. These labs can be regarded as facilities that enable experimentation and co-creation with users in real-life environments. Originating in socio-technical innovation research, to date, these transformative research approaches are predominantly discussed and applied in the context of urban developments.

The objective of this master class is to initiate a reflection on the potential of the Living Labs concept for linking or advancing inter- and transdisciplinary natural and social sciences research in their pursuit to contribute towards the transformation of agricultural landscapes into more resilient, sustainable social-ecological systems.

### Aim

We invite participants from different world regions to share their experiences and to discuss whether and how Living Labs are suitable to prototype and test approaches for diversification. In particular we aim to:

- Shed light on Living Labs and alike concepts as an emerging model for interdisciplinary and transformative research;
- Reflect on the core elements, conditions, potentials and challenges for the adaptation of the Living Labs concept for research in agricultural landscapes;



## Program

Time	Content
9.00 am	Welcome, Introduction & Warm-up
9.15	Introduction to Living Labs, by Jana Zscheischler, ZALF
9.25	Practice examples of Living Labs: Agrivoltaic Living Labs (APV Resola, APV Obstbau), by Michaela Hopf, ISE
9:35	Q & A and discussion of core elements of Living Labs
9:50	<i>Short break</i>
9:00	Practice Examples of Living Labs: <ul style="list-style-type: none"><li>• FInAL – Landscape labs for insect-friendly transformations in agricultural settings, by Maria Busse, ZALF</li><li>• Agri-Food systems transition through transdisciplinary lab approaches – the example of KOPOS , by Sebastian Rogga, ZALF</li></ul>
10.15	Q & A and discussion of Living Labs evolution
10:35	<i>Break</i>
10:50	Transformative and transdisciplinary research in the Real-World Lab Wuppertal by Franziska Stelzer, Wuppertal Institute
11:00	Q & A and discussion
11:10	Introduction to group work on “Transferability of the regional Real World lab approach to an agricultural landscape setting?”
11:15	Group work part 1
11:35	Results and discussion of group work part 1
11:45	Group work part 2
12:05	Results and discussion of group work part 2
12:15	End



## Invited experts



**Michaela Hopf, M.Sc.;** Fraunhofer Institute for Solar Energy Systems (ISE); Research Assistant, Division Photovoltaics Modules and Power Plants, Group Agrivoltaics

Holds a Master of Sciences degree in Renewable Energy Management at University of Applied Sciences in Erfurt (Germany). Since April 2020, research assistant at Fraunhofer Institute for Solar Energy Systems (ISE) in the Group Agrivoltaics. Topical focus: agrivoltaics in Germany, permanent cropping systems and economics.



**Dr. Franziska Stelzer;** Senior Researcher, Wuppertal Institute for Climate, Environment, Energy, Division Sustainable Production and Consumption, Research Unit Innovation Labs

Studies of psychology at the Technical University of Braunschweig and doctorate in economics at the University of Wuppertal. From 2005 - 2009 research associate at the Chair of Business Administration (Human Resource Management and Organization) at the University of Wuppertal and from 2011 - 2018 staff position "Quality Management of Transdisciplinary Processes" at the Wuppertal Institute for Climate, Environment, Energy gGmbH. Since 2019 senior researcher in the Division "Sustainable Production and Consumption", Research Unit "Innovation Labs", at the Wuppertal Institute. Topical focus: Transformative and transdisciplinary research in sustainability-oriented reallabs, societal impact of research, transformative science and social innovations in real-world labs.