

TERRA ENVISION

Preliminary program TERRAenVISION 2026 **Nature-based Solutions to Facilitate the** **Transitions for living within the** **Planetary Boundaries** **Trier, Germany, 7-10 September, 2026**

Organisers:

Manuel Seeger, Physical Geography, University of Trier, Germany

Johannes B. Ries, Physical Geography, University of Trier, Germany

Thomas Iserloh, Nature Conservation and Water Authority, District Administration Trier-Saarburg, Germany

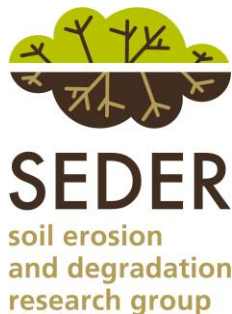
Robert Jüpner, Hydraulic Engineering and Water Management, RPTU University Kaiserslautern-Landau, Germany

Saskia Keesstra, Wageningen Environmental Research, Netherlands, TERRAenVISION Foundation

Artemi Cerda, Physical Geography, University of Valencia, Spain

Margot de Cleen, Senior Advisor, Soil and Water Ministry of Infrastructure and Water Management, The Netherlands

Ioannis Daliakopoulos, Assistant Professor, Hellenic Mediterranean University, Greece



Practical Information:

Public transport planning in and around Trier:

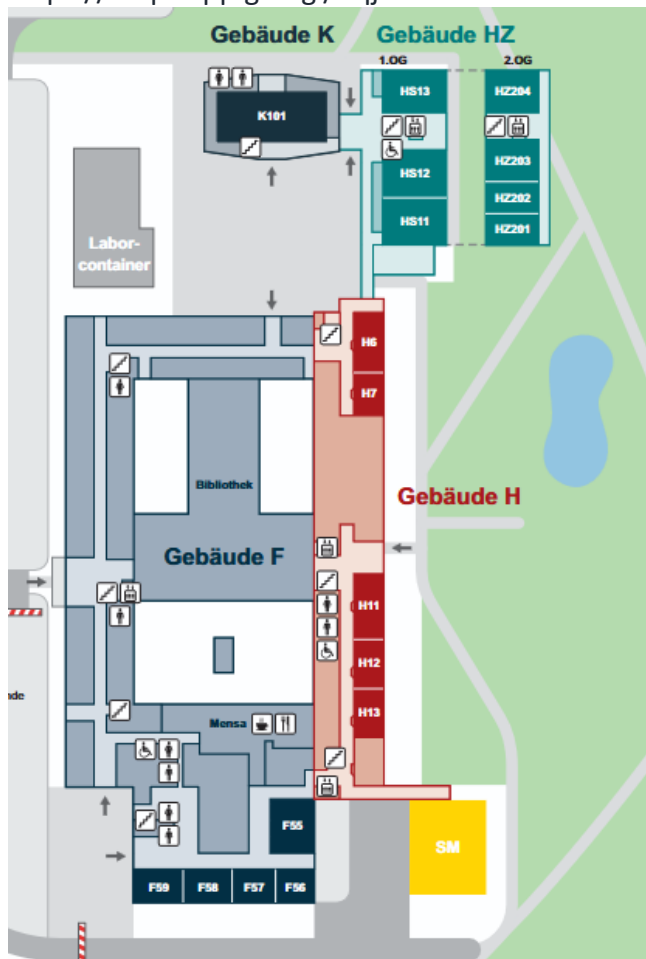


<https://www.vrt-info.de/fahrplanauskunft/trip?branding=vrt&formik=destination%3Dde%253A07211%253A4110&lng=de>

Bus stop: Kürenz, Campus 2 (Lines 4 and 14) or Kürenz, Behringstr. (Line 88, after 18.00)

Location: University Trier, Campus 2, Building HZ (rooms), building F (lunch)

<https://maps.app.goo.gl/AqjJ5SftKLDwzXk6A>

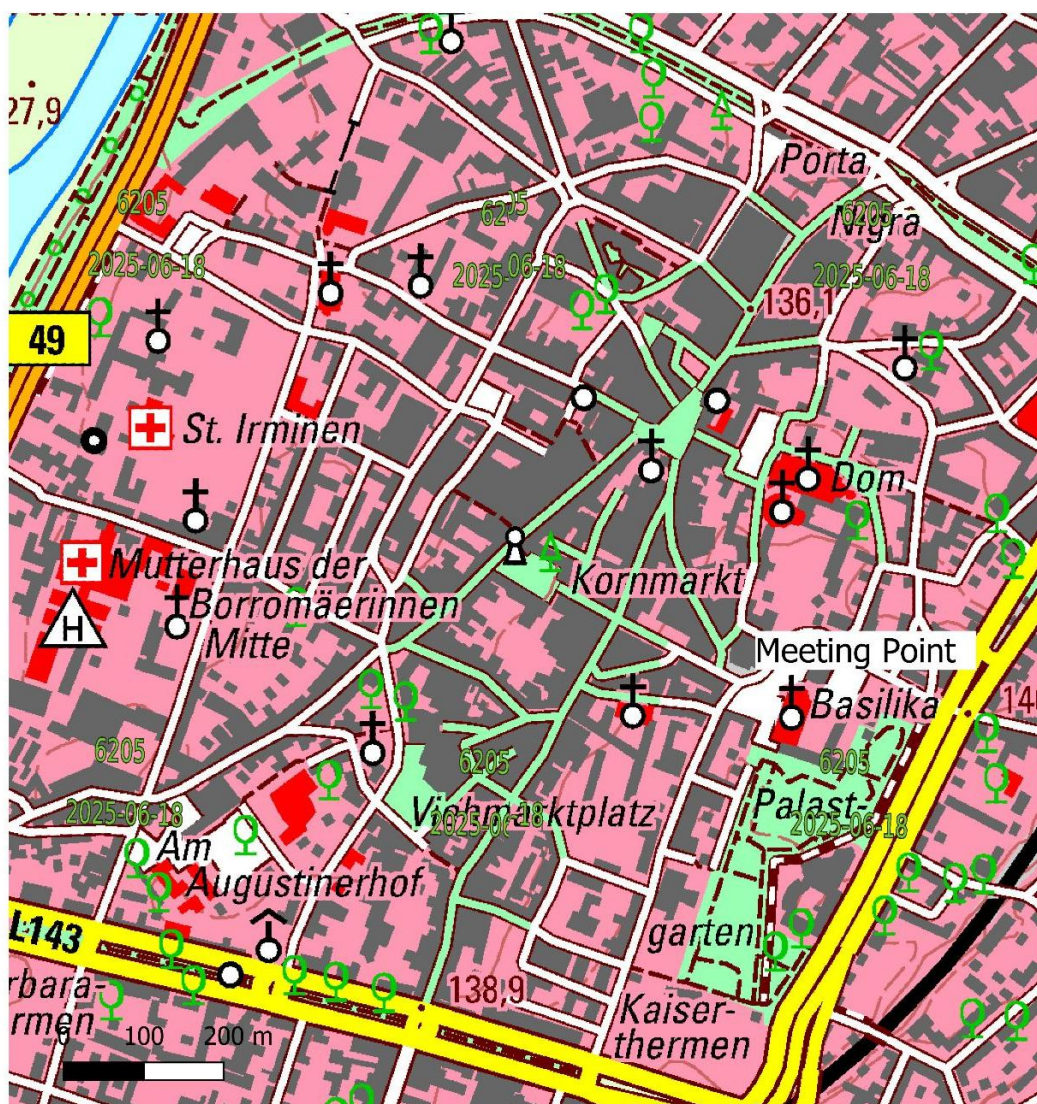


Sunday 6th of September:

15.00-
17.00

City walk for NBS in Trier city

meeting at Basilika Square (see map or <https://maps.app.goo.gl/3QRpYbaDAPkLXSzh9>)



We will see what's done, what's to do, and how to in a city 2000 years old. And of course many more things...

Monday 7th of September:

8.00-9.00	Registration Location: University Trier, Campus 2, Foyer HZ		
8.30-9.00	Room HS11 Opening: University of Trier: Eva Maria Eckkrammer (President University Trier), Manuel Seeger, Johannes B. Ries (Chair Physical Geography) TERRAenVISION: Saskia Keestra with general welcome and logistics		
9.00-10:30	Room HS11 Plenary session NATURE BASED SOLUTIONS FOR AGRICULTURE AND NATURE AREAS (SOIL, WATER AND LANDSCAPE) Keynote 1: Gera van Os <i>Bridging the gap between Science and Practice: the role of practice-based education in accelerating sustainable soil management</i> https://terraenvision.eu/2026/abstract.php?id=3660 Keynote 2: John Reid <i>A Catchment-Scale Digital Twin for Nature-Based Solutions: Integrating Hydrology, Indigenous Knowledge, and Customary Practices in Aotearoa New Zealand (hybrid)</i> https://terraenvision.eu/2026/abstract.php?id=3594 Discussion between keynotes and audience		
10:30-11:00	Coffee/tea break Foyer HZ		
11:00-12:30	HS11 AN1: Land Degradation and Restoration. Problems and solutions	HZ203 MET1: Integrated Methodologies for Measuring Implementation and Impacts of Equitable Nature-Based Solutions and Green-Blue Infrastructures	
AN1: Land Degradation and Restoration. Problems and solutions			
Chair: Saskia Keesstra			
Keynote address	Regenerative Homestead Agroforestry for restoration of degraded dryland: A Nature-Based Solution from Tribal India	Prof Benukar Biswas	View abstract

2	Drivers of Triple Direction (Environmental – Societal – Economic) for Enhanced Forecasting of Future Land Use/Land Cover Transformations: Reviewing the CLUE-S Modelling Framework in Mediterranean Settings.	Mr Dimitrios Koumoulidis	View abstract
3	Securing the Nation's Water Supply and Livelihoods Using nature based solution	Dr Stanley Liphadzi	View abstract
4	Relative Cost-Effectiveness of Nature-based Systems for Mitigation of Diffuse Agricultural Pollution Across Diverse Landscapes in New Zealand	Chris C. Tanner	View abstract
5	Nature-based evolution: Traditional ecological practices in the application of blue-green infrastructure for climate resilience	Dr Vidya Anderson (Virtual)	View abstract
	Time to discuss!		

MET1: Integrated Methodologies for Measuring Implementation and Impacts of Equitable Nature-Based Solutions and Green-Blue Infrastructures

Chairs: Lizzy Moonga, Chiara Iodice-Kraft, Katrin Specht, Noriko Otsuka, Virginia Ciocoloni

1	Integrated Co-creation Methodology for Nature-based Solutions: A GreenME Approach to the Impact of Green Care on Mental Health	Mrs Lizzy Moonga	View abstract
2	GeoAI and Self-Supervised Earth Observation Framework for Measuring Nature-Based Solutions and Climate-Resilient Landscape Transitions Across African Socio-Ecological Systems	Mr Shimeles Tadesse Zelelew (virtual)	View abstract
3	Integrating Nature-based Solutions and Ecosystem Service Assessment: Evaluating the Contribution of Green Infrastructure in Urban Landscapes	Mrs Lina Einenkel	View abstract
4	Invisible barriers and perceived motivations for green care in green and blue spaces	Dr Shaojuan Xu	View abstract

5	An Earth System Spheres Perspective on the Integrated Assessment of Multifunctional Nature-Based Solutions	Mr Mohammed Khalafallah	View abstract
	Time to discuss!		
12:30--14.00	LUNCH Location: Mensa Petrisberg		
14:00-15:30	HS11 Plenary session METHODOLOGIES: HOW TO MEASURE PROCESSES AND IMPACT OF NATURE-BASED SOLUTIONS Keynote 1: Bob Klein Lankhorst <i>Monitoring Soil Life to Support Nature-Based Solutions Within Planetary Boundaries</i> Keynote 2: Paul van Dijk <i>From Nature-Based Solutions to regenerative landscapes: assessing hydrological and hydraulic impacts at the catchment scale</i> Discussion between keynotes and audience		
15:30-17:00	HS11 AN4: Nature-Based Solutions in Agriculture: Innovations, Evidence, and Practice	HZ203 MET7: Open session on methodologies for implementation and monitoring of NBS	
AN4: Nature-Based Solutions in Agriculture: Innovations, Evidence, and Practice			
Chair: Ho Huu Loc (Josh)			
1	Biochar suspension as a nature-based solution to enhance phosphorus efficiency in agroecosystems	Dr Iryna Loginova	View abstract
2	Assessing the Performance of a Reactive Ditch Treating Agricultural Drainage Water in Northern Germany	Mr Ramodh Jayawardena	View abstract
3	A Systematic Review of Runoff and Soil Erosion Control Measures in Agricultural Landscapes	Mr Abobakr Hussin	View abstract
4	Freshgraze: Rethinking “Normal” Grazing Behaviour to Enable Nature-Based Farming	Mr Thomas Drumm	View abstract

5	An Ecosystem Service-Based Cost-Benefit Framework for Evaluating Environmentally-Technical Areas in Agricultural Landscapes	Dr Jan Macháč	View abstract
6	NbS Rapid Assessment (RAS): Maximum Impact operationalising the IUCN Global Standard for Landscape Restoration	Irene Morell Rodríguez (virtual)	View abstract
MET7: Open session on methodologies for implementation and monitoring of NBS			
Chair: John Sandalone, Giannis Louloudak			
1	A decision-support workbench for evidence-based siting of Nature-based Solutions with integrated environmental, economic, and social benefit assessment	Dr Estifanos Addisu Yimer	View abstract
2	Evaluating High-Resolution Geomorphometry and UAV-Derived Spectral Indices for Environmental Monitoring and Nature-Based Solutions Diagnosis	Dr Jesús Rodrigo-Comino	View abstract
3	Restoring the Urban Water Balance: A Proxy-Based Approach to Assess Climate Adaptation Need and Nature-Based Solutions	Mr Francesco Del Punta	View abstract
4	Cost/Benefit of Sustainable Resource Recovery for Urban Residuals and Chemicals versus Structural Urban Water Treatment	Prof John Sandalone	View abstract
5	Green4Grey: Advancing Urban Water Circularity through Decentralized Nature-Based Solutions	Ioannis Louloudakis	View abstract
	Time to discuss!		
17.00-18.30	Poster session with drinks and snacks Foyer HZ See list of posters that will be shown both days at the bottom of this programme		

Tuesday 8th September

8.00-9.00	Registration Location: University Trier, Campus 2, Foyer HZ		
9.00-10.30	HS11 Plenary session NATURE-BASED SOLUTIONS FOR URBAN AND INDUSTRIAL AREAS (SOIL, WATER AND SPATIAL PLANNING). Keynote: Fransje Hooijmeijer <i>Soil (and water) steering in Spatial Planning: SPADES</i> https://terraenvision.eu/2026/abstract.php?id=3667 Keynote: John Sandalone <i>Title: Hydrologic and Chemical Load Mitigation of Permeable Pavements for the Urban Water Cycle</i> View abstract Discussion between keynotes and audience		
10.30-11.00	Coffee/tea break Foyer HZ		
11.00-12.30	HS11 UR2: Greening Cities for Climate Action: Resilience, Mitigation, and Community Well-Being	HZ203 SO1: More than Green - Towards more just, inclusive NBS reflecting socio-cultural and socio-economic aspects	
SO1: More than Green - Towards more just, inclusive NBS reflecting socio-cultural and socio-economic aspects			
Chair: Gerd Lupp			
1	Operationalizing Environmental Justice and Voicing Nature – A Reflexive Ethics Framework for Inclusive Nature-Based Solution Practices in the TRANS-lighthouses Project	Mr Gerd Lupp	View abstract
2	Climate justice in interventions within protected areas in the Caulim Basin (São Paulo, Brazil): a new paradigm?	Mrs Isabela Cavaco (online)	View abstract
3	Bridging science and landowner decision-making through a serious game for nature-based solutions	Dr Jan Macháč	View abstract
4	Between Heritage and Climate Crisis: Agricultural Identity, Adaptive Hybridisation, and Structural Constraints	Mr Mujeeb Ur Rahman	View abstract

	Among Smallholder Farmers in Lower Dir, Khyber Pakhtunkhwa, Pakistan		
5	Towards Climate-Neutral Cities: Preliminary Results from the GreenCities Framework for Integrating Nature-Based Solutions into Urban Planning	Dr Carla Ferreira	View abstract
6	Towards functional, just and scalable citizen-led nature-based solutions: an LLM-assisted analysis of 707 support programme records	Kirk B. Enu (virtual)	View abstract
UR2: Greening Cities for Climate Action: Resilience, Mitigation, and Community Well-Being			
Chairs: Carla Ferreira, Manuel Seeger			
1	Insights into climate change dynamics: A tourism climate index-based evaluation of Gilgit-Baltistan, Pakistan	Dr NADEEM ULLAH	View abstract
2	Nature-based solutions as a bridge between human health and climate adaptive cities	Dr Joyce Zwartkruis	View abstract
3	Field monitoring of plant functional traits and thermo-hydric behaviour to assess the multifunctionality of urban Nature-based Solutions	Mrs Amrita Mukherjee	View abstract
4	From Tree Detection to Climate Action: A Digital Twin for Urban Greening and Heat Adaptation	Dr Shaojuan Xu	View abstract
5	Quantifying ecosystem services of urban community gardens using InVEST: implications for nature-based solutions in New York City	Mrs Calista Hughes (virtual)	View abstract
Poster pitches			
	Mesocosm studies for piloting sunflower-assisted phytoremediation of soil from a former railway yard	Dr Florin Alexandru/Andrei Ghitescu (virtual)	View abstract
	Dimensioning Sustainable Project Management in Productive Sectors: Strategic Alignment, Emerging Practices, and Implementation Tensions	Prof Daniel Mateo Garzón Agudelo (virtual)	View abstract

12.30-14.00	Lunch break Mensa Petrisberg		
14.00-15.30	HS11 Plenary session SCIENCE BROKERS FOR TRANSITIONING TO A CLIMATE RESILIENT AND CIRCULAR SOCIETY Keynote 1: Birgit Peters <i>The role of science in biodiversity regulation</i> https://terraenvision.eu/2026/abstract.php?id=3673 Keynote 2: Feras Youssef <i>Governing Climate Adaptation: Linking Research, Local Government, and Society in Trier-Saarburg</i> https://terraenvision.eu/2026/abstract.php?id=3692 Discussion between keynotes and audience		
15.30-17.00	HS11 UR4: Phytomanagement as Nature-Based Solution for sustainable land management	HZ202 MET6: Tracking the ecological value of nature with the help of new technological methods - DNA-based monitoring methods and their biological, legal and economic challenges (Panel)	HZ203 SO5: Transforming Society through Social Innovation: Lessons from Practice, Navigating Challenges, and Co-Designing Solutions (Workshop)
UR4: Phytomanagement as Nature-Based Solution for sustainable land management			
Chairs: Celile Nouet, Anna Espinoza, Sonia Henry			
1	Accounting for wider values to develop business cases for phytomanagement	Paul Drenning (virtual)	View abstract
2	Achieving natural reclamation from spontaneous forest in urban context	Mr Gianluca Rapaccini	View abstract
3	From Total Contamination to Functional Risk: Phytoavailability Indicators for Contaminated Soils	Dr Senda ZARROUK	View abstract
4	When is poplar-based phytomanagement of TPH-contaminated soils feasible? A dynamic integration of degradation kinetics, tree growth, ecosystem services and life cycle assessment	Mrs Lidia Favaretto (virtual)	View abstract

5	The Use of Phytoremediation for Removal of Heavy Metals in Urban Soils	Mrs Macartney Wormington	View abstract
6	From Pollution to Production: Assessing Hemp as a Brownfield Opportunity	Nolan Regnier	View abstract
7	Transformation gardens: between scientific experimentation and a tool for mediation	Leslie Siega	

MET6: Tracking the ecological value of nature with the help of new technological methods - DNA-based monitoring methods and their biological, legal and economic challenges (Panel)

Organisers: Jörn Hendrich Block, Henrik Krehenwinkel, Eva Julia Lohse, Till Hendrik Macher, Georg Müller-Fürstenberger, Birgit Peters

This session focuses on DNA-based methods and their contribution to European biodiversity protection. From an interdisciplinary perspective, we discuss the overall picture and state of biodiversity that the methods are able to paint, and implications for European biodiversity regulation, as well as their disruptive economic potential.

The ecological value of nature can be assessed using a wide range of indicators, such as species diversity or genetic diversity. Technological developments particularly remote sensing (Frantz et al., 2022), automated image analysis (Zhu et al., 2022), and DNA-based methods (Macher, 2023; Macher et al., 2025; Krehenwinkel, 2017) can now not only expand existing monitoring approaches but they may also contribute to a new perspective on biodiversity protection. For example, environmental DNA metabarcoding can provide species identification, community composition, functional and taxonomic diversity, environmentally induced changes, and potentially also quantification and age distribution. Still, the methods rely on computational capacity, specialized knowledge and may therefore be too burdensome to establish biodiversity monitoring in the Global South.

In this panel, we therefore concentrate on the pitfalls and potentials that these methods offer for European biodiversity monitoring, regulation and the valorization of nature. On the economic side, due to low costs, low impact, and its non-invasive nature, the research is likely to disrupt traditional approaches to environmental monitoring in Europe. Beyond its scientific importance, the research has significant commercial potential, fostering the development of innovative physical products and the emergence of new service-based enterprises and industries. This leads to questions that concern the commercialization of technology, intellectual property and questions how venture capital, scientific communities, and regulatory frameworks interact to shape this process?

Concerning the regulatory side, in particular, these technologies become relevant in the EU for the restoration of degraded habitats, where they may determine the quality of ecosystems or needs for restoration. However, quantified targets set for restoration must be translated into restoration plans that define areas and measures in a binding and measurable manner (inter alia, CJEU, 2023). Under the new EU restoration law, it is still unclear what requirements arise for the assessment of ecosystem status, the development of restoration plans, and the implementation of restoration measures? Therefore, we need to address which role the new methods can play in the formulation of those plans. Moreover, we have to address what restoration plans are, and how national authorities can access and use scientifically created information on (degraded) eco-systems.

The panel will turn to the revolutionary potential and some of its downsides, for the wider context of European biodiversity protection. It will feature biological, economic and legal perspectives.

Description of the format

The session will feature short input statements from about 10-15 minutes and a moderated discussion (30 Minutes), in which the overall potential, but also its downsides and impacts on European entrepreneurship and regulation will be discussed, together with the audience.

Workshop: SO5: Transforming Society through Social Innovation: Lessons from Practice, Navigating Challenges, and Co-Designing Solutions

Klaus Geiselhart, Birgit Neuer, Johanna Mäsgen, Selim Kücükaya

Given the need to shape social developments within planetary boundaries, nature-based solutions are a promising approach to transformation. Numerous projects demonstrate their potential in this area, but are confronted with the fact that the desired success does not occur or only partially occurs. Therefore, the question arises. What about the barriers? Social, political, or economic dynamics, which must not be overlooked in project design and implementation, frequently shape the extent to which solutions are successfully put into practice.

This is precisely where the workshop takes shape: We invite practitioners, researchers, and policymakers who have encountered challenges in the implementation of measures. Together, we will first identify key practical obstacles: Where do projects stall or lose momentum? What conflicting objectives emerge during implementation? Which assumptions initially considered plausible prove to be too optimistic in practice? Building on these insights, we will collaboratively analyze the underlying causes of observed problems going beyond the scope of nature-based solutions research and development.

The workshop organizers contribute a human geography and social science perspective as a complementary lens, highlighting insights that are often underrepresented. This includes e.g. institutional constraints, asymmetrical cooperation, limited social participation, legal ambiguities, embedded power relations or cultural specificities of local contexts. Far from being in opposition to nature-based solutions, these so-called 'soft' factors are recognized as essential components within a broader agenda for transformative change.

In the final third step, focus shifts to collaborative strategic thinking. We develop and critically evaluate visions for social innovations that could propel societal transformation. Key questions guiding this phase include: How can projects be designed to ensure lasting impact under prevailing social conditions? What potential do multi-professional collaboration formats hold? And how can different disciplinary perspectives contribute to more impactful solutions?

The workshop adopts an interactive, open, and collaborative approach. Rather than relying on traditional lectures, participants engage in mixed-group discussions that bring together scholars and practitioners from the natural and social sciences, politics, economics, engineering, and planning. The workshop aims to foster a shared understanding of the multifaceted dimensions of social-

ecological transformation and to co-develop implementable, scientifically sound, and socially sustainable solutions.

17.00-18.30 **Poster session with refreshments**

Foyer HZ

See overview of the posters at the end of the programme

20.00- **Conference dinner**

Weinwirtschaft Friedrich-Wilhelm, Weberbach 75, 54290 Trier

(<https://maps.app.goo.gl/moCAwSya1qjScF9q8>)

Wednesday 9th September

8.00-9.00	Registration Location: University Trier, Campus 2, Foyer HZ		
9.00-10.30	HS11 Plenary session NATURE-BASED SOLUTIONS FOR NATURAL HAZARDS (FIRE, FLOODS AND DROUGHTS) Keynote 1: Bertram de Rooij <i>Like water and fire</i> https://terraenvision.eu/2026/abstract.php?id=3652 Keynote 2: Carla Ferreira <i>A Landscape Strategy for Climate-Resilient Flood Protection</i> Discussion between keynotes and audience		
10.30-11.00	Coffee/tea break Foyer HZ		
11.00-12.30	HS11 UR3: Cross scale approach for NBS integrations in urban ecosystems	HZ203 NH3: Open session on Nature-Based Solutions for Natural Hazard Mitigation: fire and floods	
UR3: Cross scale approach for NBS integrations in urban ecosystems			
Chairs: Marialaura Giuliani, Michelle Pezzagno, Anna Richiedei, Giovanna Grossi, Margherita Dagnino			
1	Co-designing and co-implementation for Climate Resilience: the AdaptWise Model and Pathways for Regional Scaling	Mrs Valentina Bucchi	View abstract
2	A Fit-for-Purpose framework for Ecosystem Service Assessment in Spatial Planning	Mrs Marialaura Giuliani	View abstract
3	Integrating Participatory Governance into Urban Planning for Climate Resilience: Evidence from the PRIN URCA! Project	Prof Michele Pezzagno (virtual)	View abstract
4	Phosphorus accumulation and leaching in compost-amended urban soils: implications for nutrient management in nature-based solutions	Dr Gaston Small (virtual)	View abstract
5	NBS implementation in Lombardy Region: the experience of Contratti di Fiume	Mr Franco Raimondi	View abstract

6	Evaporation-Oriented Sponge City Roofs: A New Paradigm for Compensating Urban Sealing	Ralf Walker	View abstract
NH3: Open session on Nature-Based Solutions for Natural Hazard Mitigation			
Chairs: Jan Macha			
1	Assessing Policy Instruments for Wetland Restoration: Insights from Stakeholder Interviews across Europe	Mrs Lenka Zaňková	View abstract
2	Assessing Wetland Restoration Effects on Natural Water Retention: Initial Hydrological Modelling Results from the Schneifel Case Study	Philip Meier	View abstract
3	Evaluating sponge measures' effectiveness in mitigating flood extremes at Littlestock Brook, Upper Thames, UK	Dr Neeraj Sah (virtual)	View abstract
4	Optimizing urban water clarification systems as green infrastructure for water reuse	Prof John Sansalone	View abstract
5	Assessing performance of constructed wetlands with high-frequency sensors to guide effective mitigation of diffuse agricultural pollution	Brandon C. Goeller	View abstract
6	A GIS-Based Planning Workflow for Flood Adaptation and Land Policy in the Araklı District	Dr Bura Adem Atasoy (virtual)	View abstract
12.30-14.00	Lunch break Mensa Petrisberg		
14.00-15.30	HS11 AN6: Panel on SOSVITI: Sustainable Terroir	HZ203 SO4: Transition towards Circular Land and Soil Management; Building networks, bringing together interests and coping with friction in regulation (Workshop)	

Panel Session on Terroir and SOSVITI

Chair: Dr Jesús Rodrigo-Comino

1	Biophysical Approach for Terroir Characterization: Evaluating Structural and Spectral Precision via Consumer and RTK-Enabled UAVs in Vineyards	Dr Jesús Rodrigo-Comino	View abstract
2	Sustainable and Resilient Viticulture in Luxembourg – Embracing the Future with Digital Support	Jörg Pauly	
3	A proposed framework for multi-temporal UAV-based analysis of post-wildfire agroecosystem recovery in Mediterranean vineyards using object-based classification	Dr Jesús Rodrigo-Comino/ Mr Sebastian Löblein	View abstract
4	NBS in the steep slopes of German vineyards	Manuel Seeger	
5	Nature-Based Solutions in Vineyards: From Environmental Innovation to Business Value and Dissemination in Valencia and the Netherlands	Saskia Keesstra	View abstract
6	Soil Erosion in European Vineyards: Current Knowledge, Management Challenges and Research Priorities	Artemi Cerda	View abstract

Workshop: SO4: Transition towards Circular Land and Soil Management; Building networks, bringing together interests and coping with friction in regulation

Margot de Cleen, Gera van Os

In the Netherlands the executive agency of the Ministry of Infrastructure and Water Management, Rijkswaterstaat, set up a national network with local authorities, industries, farmers and knowledge institutions on circular land and soil management. Within this network partners exchange knowledge and experiences, start projects together and develop tools to communicate and understand the drivers behind collaboration or the inhibitions to collaborate. These instruments help to find pathways towards cooperation fitting all the partners. An example of such a tool is the Social Readiness Level Instrument.

Within this workshop we will share our experiences and show the working of the Social Readiness Level instrument.

We invite you to join us if you want you to learn about building a network with stakeholders, to find out about tools to share interests and prioritize joint activities. You are invited to try out some of the

tools we developed and you get to know the dos and donts in match making. We want to discuss with you how to overcome differences in interests and frictions in regulation in the field of circular land and soil management.

If you have experiences in circular land and soil management yourself, we invite you to share your results or case study with us in a poster. We will share your insights and discuss your results in this workshop.

15.30-16.15	HS11 CLOSING session: Implementation opportunities and barriers of NBS Presentation of TERRAenVISION 7
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Posters

AN	Landscape connectivity and multi-hazard risk management in the Zagros Mountains, Iran	Dr Mehrnoosh Ghadimi	View abstract
AN	Scaling Nature-Based Solutions through Knowledge-Action Networks: Cooperation for Agricultural Transformation	Dr Qirui Li	View abstract
AN	Canopy Microclimate Modification and Plant–Soil Interactions in Basil under MANTI Shading	Mrs Szilvia Kisvarga and Dr László Orlóci	View abstract
AN	Composting Suitability of Aged Woodchips from Reactive Ditches	Dr Uta Ulrich	View abstract
AN	Impacts of land-use diversity on watershed resilience: an introduction to hydrological resilience	Mrs Viktoria E. Arnold	View abstract

AN	Biochar as a Soil Amendment to Mitigate the Impacts of Land Degradation	Artemi Cerda	View abstract
AN	Soil Erosion in Citrus Plantations: A State-of-the-Art Review	Artemi Cerda	View abstract
AN	A comprehensive bibliometric review of land degradation in Africa	Artemi Cerda	View abstract
AN	Vegetation Cover as a Nature-Based Solution to Reduce Soil Erosion in Citrus Plantations	Artemi Cerda	View abstract
AN	MuD CarboVino: Advancing Soil Carbon Sequestration and Resilience in German Viticulture	Mario Kirchhoff	View abstract
AN	The Importance of Agricultural Terraces in Runoff Generation and Soil Loss Control	Artemi Cerda	View abstract
AN	AGRIVOLTAICS AND EXTENSIVE LIVESTOCK FARMING: SOIL, THERMAL, AND GEOMORPHOMETRIC EVALUATION OF SOLAR GRAZING IN RURAL GRANADA	Jesús Rodrigo-Comino	View abstract
UR	Climate-Induced Displacement and Labour Migration from Somalia: Governance Gaps in Drought and Flood-Driven Mobility.	Mr Yusuf Adan	View abstract
UR	Governing Climate Adaptation: Linking Research, Local Government, and Society in Trier-Saarburg	Dr. Feras Youssef	View abstract
UR	Assessing Soil Ecosystem Services from Urban Soils to Engineered Soils	Sara Mefaredj	View abstract

NH	Simulation of water retention measures in forests: a comparison of model approaches	Markus C. Casper	View abstract
NH	Mesocosm studies for piloting sunflower-assisted phytoremediation of soil from a former railway yard	Dr Florin Alexandru/Andrei Ghitescu (virtual)	View abstract
NH	Nature-Based Solutions for Wildfire Risk Mitigation in Europe: A Comparative Analysis of Northern and Southern Case Studies and Barriers to Scaling	Dr Saskia Keesstra	View abstract
NH	MUDdy flood mitigation through transnational action-oriented CAPacity building (MUDCAP)	Mrs Madeleine Hill	View abstract
NH	Model-Based Planning of Water Retention Measures in the Trierbach Catchment	Markus C. Casper	View abstract
MET	Dimensioning Sustainable Project Management in Productive Sectors: Strategic Alignment, Emerging Practices, and Implementation Tensions	Prof Daniel Mateo Garzón Agudelo (virtual)	View abstract
MET	Scale matters: Key regional research and innovation needs to support Soil Health Living Labs	Dr Saskia Keesstra	View abstract
MET	Unsupervised delineation of small water reservoirs from Sentinel-1 and Sentinel-2	Giannis Louloudakis	View abstract

10th September: Conference excursion

Meeting point: University Trier, Campus 2, parking lot

The excursion will lead us to a river restoration area with NBS and to typical steep sloping vineyards in the Saar valley

The Leuk river has been heavily transformed during the last centuries. For urban flood protection it has been reconducted some decades ago into its former watercourse, but without enabling the river to gain natural morphodynamics. Recently, fluvial elements have been built to enable the river generation pools and riffles, overflow the floodplain and in consequence a generalized uplift of the river

bed. The methodology applied for crating obstacles, dams etc is especially interesting, as no allochthonous material has been used, but only tress and rock fragments extracted in situ. The elements are partially permeable, so no total blocking or diversion of the water flow is generated.

We will observe the results only few months after implementation and the generation variable elements within the river bed.

Afterwards we will visit an ecologically managed vineyard ([Weingut Dr. Frey, Kanzem](#)), where experiments were conducted for soil and vegetation management, such as planting aromatics underneath grapevines. The winery is also testing some fungus resistant varieties to adapt to changing environmental conditions.

In the winery we will have a small picnic-like lunch.