

Module „Sustainability Planning and Assessment“ Summer Term 2022

Week 1 – Planning Policies, Programs, Projects (might still be subject to minor modifications)

Contact hours in bold, participation mandatory!

Monday, 04.07.	Tuesday, 05.07.	Wednesday, 06.07.	Thursday, 07.07.	Friday, 08.07.
<p>9:15 – 11:00 R400</p> <p>Introduction</p> <p>“Sustainability Planning? The case of municipal food systems”</p> <p>(Heiner Schanz)</p> <p>11:15 – 13:00 R400</p> <p>Seminar</p> <p>“Governing sustainability transitions”</p> <p>(Heiner Schanz)</p>	<p>Self-reading in preparation</p> <p>Fuseini, I., & Kemp, J. (2015). A review of spatial planning in Ghana's socio-economic development trajectory: A sustainable development perspective. <i>Land Use Policy</i>, 47, 309-320.</p> <p>10:15 –13:00 R400</p> <p>Seminar</p> <p>“(Spatial)Planning systems”</p> <p>(Heiner Schanz)</p>	<p>Self-reading in preparation</p> <p>Pereira, L., Frantzeskaki, N., Hebinck, A., Charli-Joseph, L., Drimie, S., Dyer, M., . . . Vervoort, J. M. (2020). Transformative spaces in the making: key lessons from nine cases in the Global South. <i>Sustainability Science</i>, 15(1), 161-178.</p> <p>10:15 –13:00 R400</p> <p>Seminar</p> <p>“Integrative or comprehensive or strategic planning?”</p> <p>(Heiner Schanz)</p>	<p>Self-Reading in preparation</p> <p>Hacking, T., & Guthrie, P. (2008). A framework for clarifying the meaning of Triple Bottom-Line, Integrated, and Sustainability Assessment. <i>Environmental Impact Assessment Review</i>, 28(2-3), 73-89.</p> <p>10:15 –13:00 R400</p> <p>“From Impact to Sustainability Assessments”</p> <p>Lecture input</p> <p>(Heiner Schanz)</p>	<p>Full-day excursion</p> <p>(7:00 – 19:00)</p> <p>Full-day excursion to several operations of a regional water energy supplier / pump storage operator</p> <p>Wehr/Atdorf/Schluchsee</p> <p>Excursions with several stops</p> <p>(H. Schanz and local excursion leaders)</p>
<p>Afternoon</p> <p>Familiarize with case-studies for assignment</p>	<p>14:00 – 16:00 R400</p> <p>Case Study: “Integrated Energy and Climate Protection Concept – Baden Württemberg state strategy for energy transition”</p> <p>(H. Schanz)</p>	<p>Afternoon</p> <p>Familiarize with case-studies for assignment</p>	<p>14:00 – 16:00 Bissierstraße 7</p> <p>Excursion: “Planning and Implementing the Energy Transition – The Executive Perspective”</p> <p>(L. Schuldt et al., Regional State Council Baden-Württemberg)</p>	

Week 2 – Theoretical and conceptual aspects (might still be subject to minor modifications)

Monday, 11.07.	Tuesday, 12.07.	Wednesday, 13.07.	Thursday, 14.07.	Friday, 15.07.
<p>Self-reading in preparation</p> <p>Sterman, J. D. (2002). All models are wrong: reflections on becoming a systems scientist. <i>System Dynamics Review</i>, 18(4), 501-531. doi:https://doi.org/10.1002/sdr.261</p> <p>10:15 –13:00 R400</p> <p>Seminar</p> <p>“System thinking and modelling” (Heiner Schanz)</p>	<p>Self-reading in preparation</p> <p>Freeman, R., Yearworth, M., & Preist, C. (2015). Revisiting Jevons’ Paradox with System Dynamics: Systemic Causes and Potential Cures. <i>Journal of Industrial Ecology</i>, 20(2), 341-353.</p> <p>10:15 –13:00 R400</p> <p>Seminar</p> <p>“System dynamics and rebound effects” (Heiner Schanz)</p>	<p>Self-reading in preparation</p> <p>Van Assche, K., & Verschraegen, G. (2008). The Limits of Planning: Niklas Luhmann’s Systems Theory and the Analysis of Planning and Planning Ambitions. <i>Planning Theory</i>, 7(3), 263-283.</p> <p>10:15 –13:00 R400</p> <p>Seminar</p> <p>“Dealing with Complexity – Structural Couplings” (Heiner Schanz)</p>	<p>Self-reading in preparation</p> <p>Duygan, M., Stauffacher, M., & Meylan, G. (2019). A heuristic for conceptualizing and uncovering the determinants of agency in socio-technical transitions. <i>Environmental Innovation and Societal Transitions</i>, 33, 13-29.</p> <p>10:15 –13:00 R400</p> <p>Seminar</p> <p>“Dealing with Change – Agency” (Heiner Schanz)</p>	<p>Self-reading in preparation</p> <p>Kaufman, R., & Brethower, D. (2019). Are Design Thinking and System Thinking and Planning Really Different? And are They Both Missing a Critical Focus? <i>Performance Improvement</i>, 58(10), 6-12.</p> <p>10:15 –13:00 ZOOM</p> <p>Seminar</p> <p>“Dealing with Ignorance and Uncertainty” (Heiner Schanz)</p>
<p>Afternoon</p> <p>System Dynamics Package 1 – (Self-Learning ILIAS)</p> <p>Important concepts on modeling & systems thinking</p>	<p>Afternoon</p> <p>System Dynamics Package 2 – (Self-Learning ILIAS)</p> <p>Causal loop diagramming</p>	<p>Afternoon</p> <p>System Dynamics Package 3 – (Self-Learning ILIAS)</p> <p>Dynamic problem definition, intro to participatory modeling: Group Model Building, Community-based System Dynamics</p>	<p>Afternoon</p> <p>System Dynamics Package 4 – (Self-Learning ILIAS)</p> <p>Systems Archetypes</p>	<p>Afternoon</p> <p>System Dynamics Package 5 – (Self-Learning ILIAS)</p> <p>Systems View of Project Management</p>

Week 3: Systems thinking, systems analysis and System Dynamics

Monday, 18.07.	Tuesday, 19.07.	Wednesday, 20.07.	Thursday, 21.07.	Friday, 22.07.
<p>9:15 – 13:00, R400</p> <p>Workshop – Causal loop diagramming / Archetype analysis</p> <p>“Municipial food system, case of the city of Leutkirch/BW”</p> <p>(David Sipple)</p>	<p>Full day</p> <p>Self-Study / Work on Assignment</p>	<p>9:15 – 13:00, R400</p> <p>CLD Individual/ group clinics</p> <p>(David Sipple)</p>	<p>9:15 – 13:00, R400</p> <p>Flashlight Presentations of Assignments</p> <p>(Students' presentation)</p>	<p>Self-reading in preparation</p> <p>Abson, D. J., Fischer, J., Leventon, J., Newig, J., Schomerus, T., Vilsmaier, U., . . . Lang, D. J. (2017). Leverage points for sustainability transformation. <i>Ambio</i>, 46(1), 30-39.</p> <p>10:15 –13:00 R400</p> <p>Wrap-Up</p> <p>“At the end it comes down to assumptions and goals?”</p> <p>(Heiner Schanz)</p>
<p>Afternoon</p> <p>Self-Study / Work on Assignment</p>		<p>14:15 – 16:30, R400</p> <p>CLD Individual/ group clinics</p> <p>(David Sipple)</p>	<p>Afternoon</p> <p>Self-Study / Work on Assignment</p>	<p>Afternoon</p> <p>Self-Study / Work on Assignment</p>

Grading: Deadline for submission of PPT-Assignment, **Monday, 25 July 2022, 9:00 a.m.**