Credible processing of diverse knowledge types – A generic foresight perspective

Workshop 1.1.D: Climate change in Mountain regions:
Bringing together methodologies and knowledge systems

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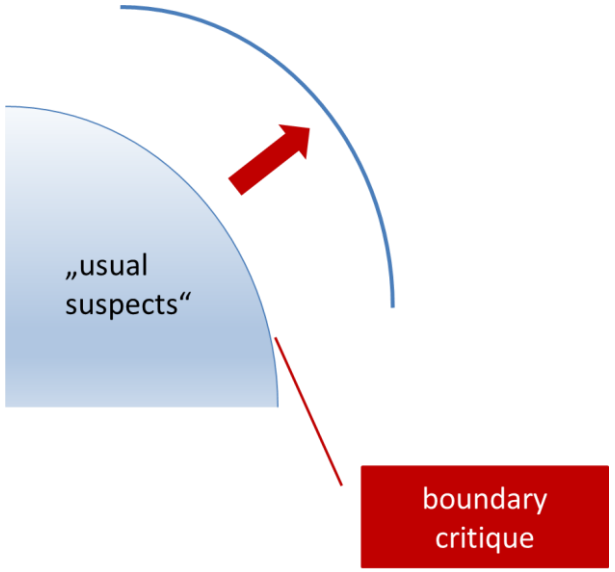
Lorenz Erdmann, Fraunhofer Institute for Systems and Innovation Research

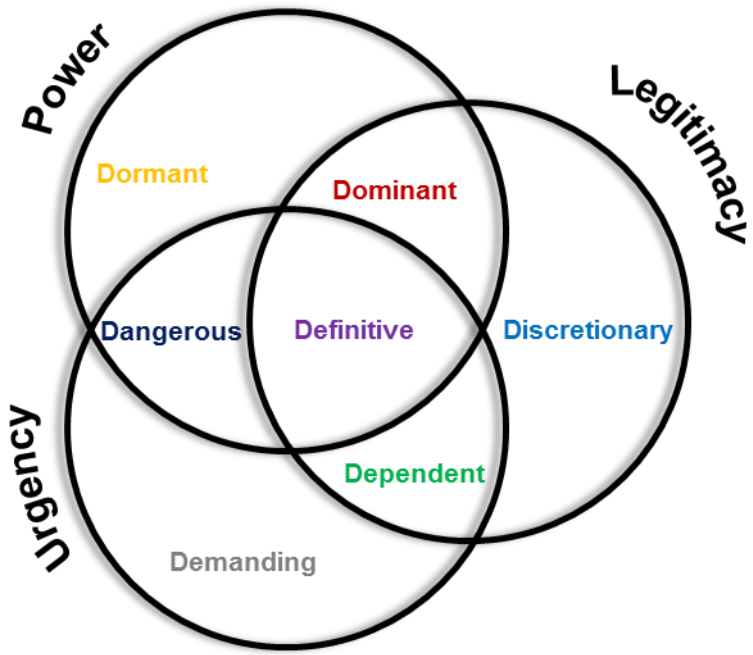
Fraunhofer ISI

IMC Innsbruck 2019 International Mountain Conference

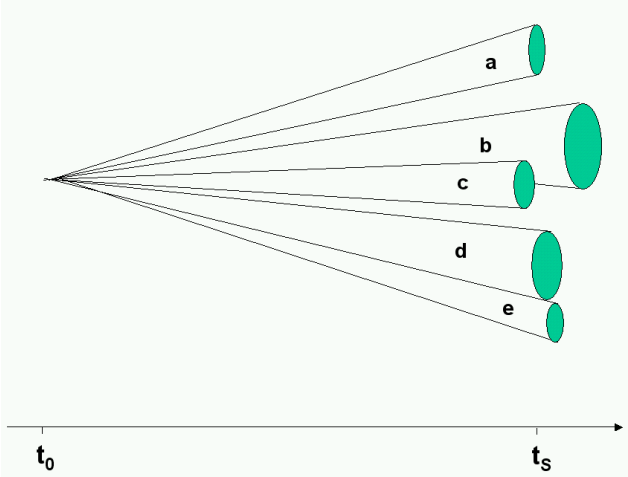
1. Critically Identifying Stakeholders [1,8]



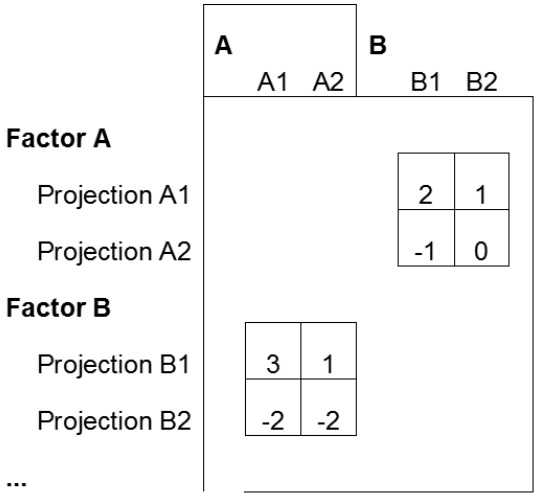
2. Stakeholder assessment and classification [4,7]



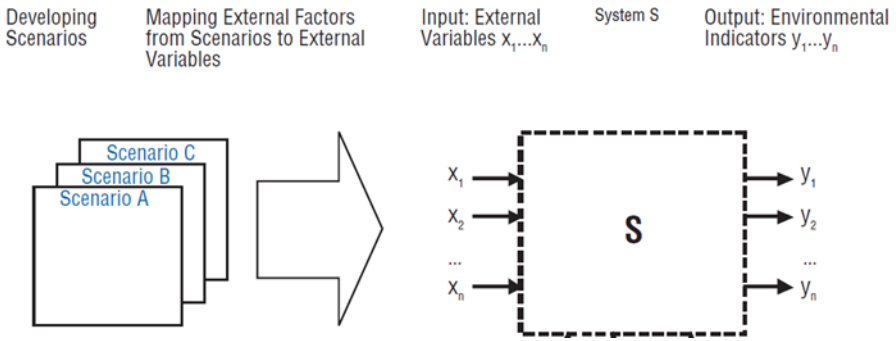
3. Leveraging diverse knowledge types [3,6]



4. Shared representation of diverse knowledge types [2,9]



5. Integration of diverse knowledge types in a model [3,5]



References

[1] Achterkamp, M.C. & Vos J.F.J. 2007: Critically identifying stakeholders. In: Systems Research and Behavioral Science, 25(1) 3-14.

[2] Dönitz, E. 2009: Effizientere Szenariotechnik durch teilautomatische Generierung von Konsistenzmatrizen: Empirie, Konzeption, Fuzzy- und Neuro-Fuzzy-Ansätze. Wiesbaden: Gabler Verlag / GWV Fachverlage GmbH, Wiesbaden, 2009.

[3] Erdmann, L., et al. 2004. The future impact of ICTs on environmental sustainability. EUR21384. Seville, Spain: Institute for Prospective Technology Studies.

[4] Erdmann, L. et al. 2016: Stakeholder Report: identification and analysis. Deliverable 2.1 of the Mineral Intelligence Capacity Analysis (MICA) project. Grant Agreement No. 689648 of the European Union's Horizon 2020 research and innovation programme.

[5] Hilty, L.M. et al. 2004. The future impact of ICT on environmental sustainability. Refinement and quantification. Fourth interim report. St. Gallen, Switzerland: Swiss Federal Laboratories for Materials Testing and Research.

[6] Kosow, H. et al. 2008: Methoden der Zukunfts- und Szenarioanalyse. IZT Werkstattbericht Nr. 103. IZT, Berlin.

[7] Mitchell, R., Agle, B. & Wood., D. 1997: Toward a theory of stakeholder identification and salience: Defining the principle of who and what really counts. In: The Academy of Management Review, 22(4) 853-886.

[8] Teufel, B. & Erdmann, L. 2015: Akteurs- und Netzwerkanalyse. Arbeitspapier im Arbeitspaket 1 (AP 1.3) des INNOLAB Projekts. Fraunhofer-Institut für System- und Innovationsforschung ISI, Karlsruhe.

[9] Weimer-Jehle W. 2006: Cross-Impact Balances: A System-Theoretical Approach to Cross-Impact Analysis. Technological Forecasting and Social Change, 73:4, 334-361.