

Accepted Manuscript

Title: Scenario development as a tool for interdisciplinary integration processes in sustainable land use research

Author: Melanie Kröger Martina Schäfer

PII: S0016-3287(16)30074-X

DOI: <http://dx.doi.org/doi:10.1016/j.futures.2016.07.005>

Reference: JFTR 2154



To appear in:

Received date: 14-3-2016

Revised date: 4-7-2016

Accepted date: 29-7-2016

Please cite this article as: Melanie Kröger, Martina Schäfer, Scenario development as a tool for interdisciplinary integration processes in sustainable land use research, Futures <http://dx.doi.org/10.1016/j.futures.2016.07.005>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Futures

Scenario development as a tool for interdisciplinary integration processes in sustainable land use research

Melanie Kröger and Martina Schäfer

Zentrum Technik und Gesellschaft (ZTG) der TU Berlin

Melanie Kröger

Zentrum Technik und Gesellschaft (ZTG) der TU Berlin

Hardenbergstraße 16-18

10623 Berlin

kroeger@ztg.tu-berlin.de

Highlights

- Scenario method as a means of interdisciplinary integration is presented and discussed critically
- The process of knowledge and social integration via scenarios and within a diverse team is reflected in detail
- Scenarios are suited for linking knowledge and results from different disciplines
- Motivation of participants and resources of process are seen as crucial factors of scenario development

Abstract

This article reflects upon experiences gained through an interdisciplinary integration process in a research project on sustainable land use which was carried out in northeast Germany, exploring how and to what extent the method of scenario development can support cognitive and social integration in interdisciplinary research groups. Integration is seen as a process of joint knowledge production and mutual learning. Examining experiences from the ELaN project, we ask: How did integration take place? How was integration supported and hampered? What has to be considered when planning such a process?

Highlighting emergent challenges and opportunities for interdisciplinary integration via scenario development, we demonstrate how content and presentation of the scenarios were modified on the basis of inputs from involved researchers of different disciplines. Through an iterative process, the originally qualitative and rather general scenarios of land use changes have been enriched by quantitative data from different sub-projects and presentation of narrative stories complemented by GIS maps, leading to better integration of results from the sub-projects. Our results show that scenario development processes have to be planned carefully if they aim at integrating interdisciplinary knowledge. In the ELaN consortium, lack of resources available to a sub-project were compensated for by referring to other additional expertise and resources throughout the process. We reflect upon such modifications and identify success factors for the organisation of such processes, concluding that scenarios are suitable

Download English Version:

<https://daneshyari.com/en/article/5109208>

Download Persian Version:

<https://daneshyari.com/article/5109208>

[Daneshyari.com](https://daneshyari.com)