

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research



Towards a framework for the evaluation of climate service and

knowledge transfer products within climate and coastal research

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Definition

In 2016 the German "Wissenschaftsrat" (Council of Science and Humanities) broadened the meaning of the term "knowledge transfer" by including processes of transdisciplinary research and thus overarching unidirectional as well as bidirectional transfer activities. Working group within Helmholtz Association (Earth and Environment, PACES II)

of ScienceTo develop criteria for evaluation and respective indicators, appropriate to evaluate knowledge transfer and dialogueermprocesses with stakeholders as well as climate and coastal service activities, scientists of various disciplines withinF trans-Research topic 4 (Bridging Research and Society) worked together. They came from the Institute for CoastalrectionalResearch and the Climate Service Center Germany (both Helmholtz-Zentrum Geesthacht) and the Alfred WegenerInstitute Bremerhaven.



Objects of evaluation

Every phase of project management can be an object of evaluation.

Inputs	Activities	Outputs	Outcome	Impacts

Criteria and indicators for outputs (preliminary version)

Criteria and indicators for outcome (preliminary version)

Criterion	Indicator	Criterion	Indicator	
Availability Visibility, dissemination in target groups	 Accessibility Media responsivity Easy-entry Support for downloads Publications 	Use	 Broadth of use Depth of use Frequency of use Duration of use Suitability for target group Relevance Applicability for education Comprehensibility Target achievement Users appreciation Perception of being up-to-date Estimation of trustability Identification with product 	
	 Events and presentations Information (material) on product Public relations material and activities 	Satisfaction		
Scientific quality, methodological quality	 Quality of data Graphic design Level of language Up-to-date Completeness 			
	 Completeness Extent Transparency Reflexivity Reliability Quality assurance (internal/external) 	Dissemination, attention	 Quotations/references Degree of recognition Intensity of perception Multiplier effects Awards Indirect effects (reputation) 	
Degree of innovation	Originality	Users' learning effects	Degree of innovation	
Scaling Practical relevance	 Broadth and depth of product Coverage of target group 		 Improvement of expertise Scientific connectivity Societal transformation capability 	
	 Achievement of purpose Usefulness Lucidity Navigation Usability 	Valorisation	 Licensing Operationalisation Transferability 	
	 Permanent improvement Rights of use 	Summary of the working group discussions		
Strategic potential	 Potential for transfer Potential for societal transformation Strategy for further development 	evaluation could be designed	impropoint and a bottor interpretation	
Outlook		It is possible to standardize the	e criteria impression and a better interpretation	

Outlook

- Enhance networking on this issue within whole Helmholtz Association
- Promote definition of clear project objectives and respective evaluation criteria already with application for funding
- Develop criteria to evaluate the activities and thus the process of the product/project development and care for continuous monitoring

References

- OECD (2002): Glossary of key terms in evaluation and results based management, http://www.oecd.org/development/peer-reviews/ 2754804.pdf, last access 14 July 2016
- Wissenschaftsrat (2016): Wissens- und Technologietransfer als Gegenstand institutioneller Strategien
- for evaluation across different research fields
 Evaluating impact is difficult and needs accompanying research
 It should be possible to evaluate results qualitatively and quantitatively
 Every evaluation is led by the objectives of the product or project. They might have changed during the process of development.
 For every product or project the weight of the criteria has to be adapted and an

individual set of indicators is to be

chosen.

- Design of the poster: Hanna Dunke -

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