



Amy M.P. Oen  
Norwegian Geotechnical Institute

# **PHUSICOS – 'ACCORDING TO NATURE'**



# H2020 Innovation Action



2018 – 2022

**Demonstrating how nature-inspired solutions reduce the risk of extreme weather events in rural mountain areas**



# Improving resilience in cities can be achieved by implementing nature based solutions upstream in the river basin:





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# Mountains amplify risks



Illustration: The Norwegian Water Resources and Energy Directorate





# Valley of Gudbrandsdalen



Norwegian demonstrator case study site  
Photos: from Heidi Eriksen and Turid Knutsen-Lovik at Oppland County

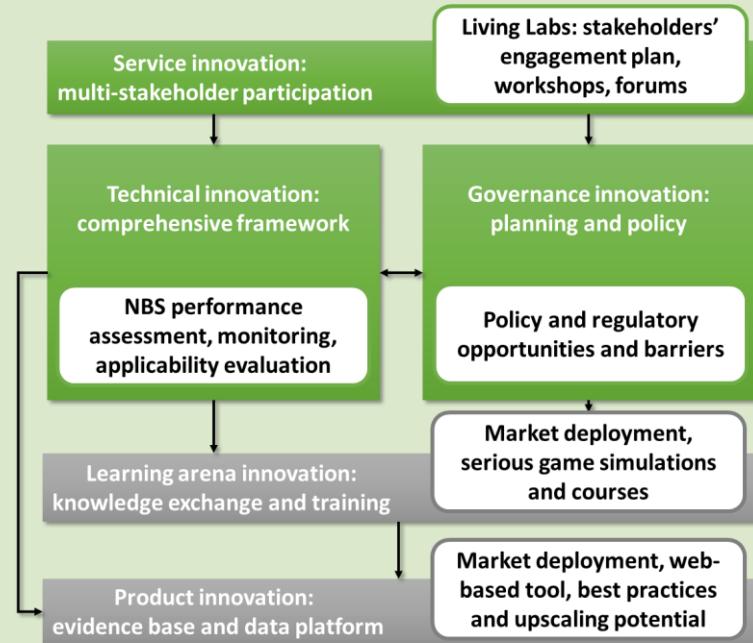
# How do you renature nature?



Dam recently built at Kvam in the Valley of Gudbrandsdalen, needed for immediate protection; however, are there nature-based solutions as viable alternatives?  
Photo: Annelies De Nijs – Agence Ter



# Nature-inspired solutions through multiple levels of innovation:





# Service innovation through Living Labs – testing technologies, services and products in real-life contexts:

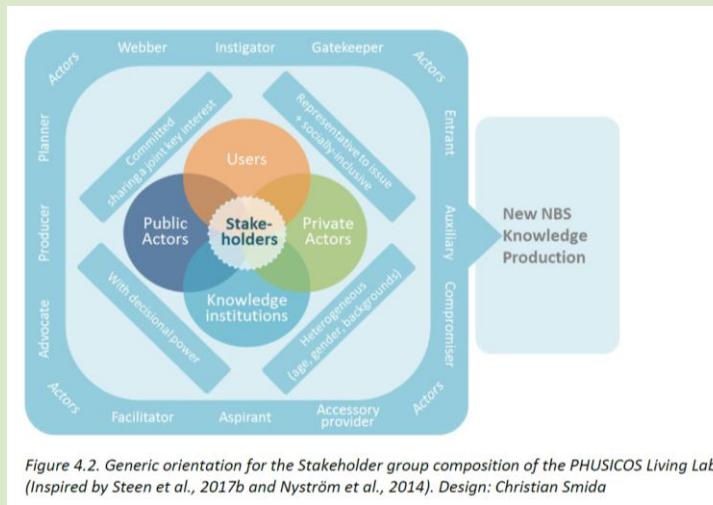


Figure 4.2. Generic orientation for the Stakeholder group composition of the PHUSICOS Living Lab. (Inspired by Steen et al., 2017b and Nyström et al., 2014). Design: Christian Smida



# Principles of the Living Labs:

**P      purpose**

**H      heterogeneity**

**U      user-centred**

**S      sensitivity**

**I      iteration**

**C      co-creation**

**O      open-mindedness**

**S      sustainability**

D3.1: Guiding Framework for Tailored Living Lab Establishment at Concept and Demonstrator Case Study Sites  
Available at: <https://phusicos.eu/publication-results/>

*The present document has not yet received final approval from the European Commission and may be subject to changes.*



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# The PHUSICOS Consortium





@amy\_oen  
@phusicos  
[www.phusicos.eu](http://www.phusicos.eu)



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