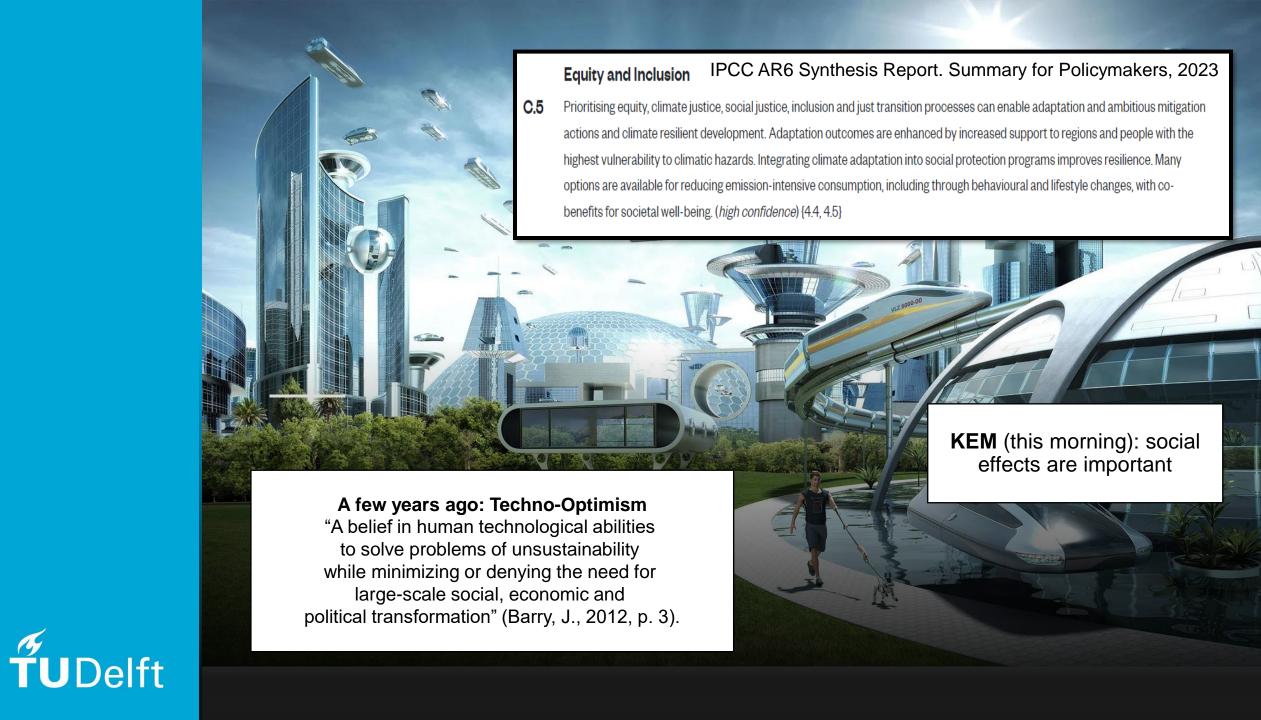




For a successful energy transition, we need technology more than anything





Climate Goals



Change energy use



Adapt to the effects of climate change



Accept new technologies



Social Acceptance of Subsurface Projects





https://www.dissentmagazine.org/article/the-carbon-capture-distraction/ https://www.greenpeace.org.uk/news/all-those-times-the-anti-fracking-campaign-rocked/



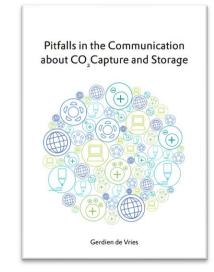
Focus on Individual Perceptions



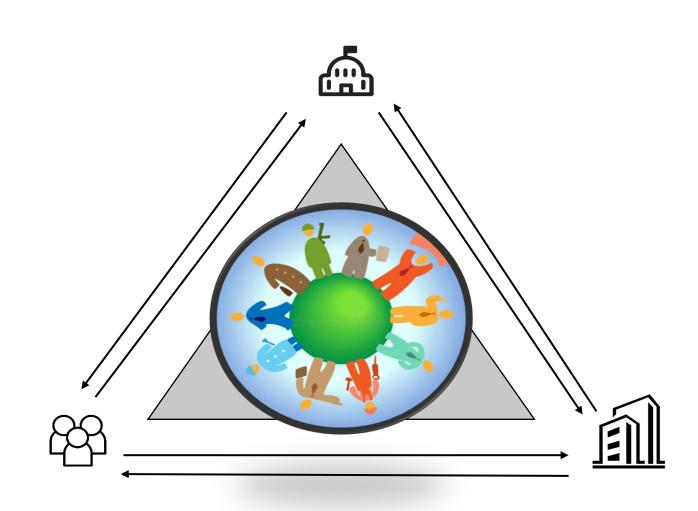
Effects of communication on CCS on public perceptions

Communication needs to be:

- Balanced (risks and gains)
- Understandable
- From a credible source



Social Acceptance happens in a system All actors make decisions





Geothermal Energy in Indonesia

(Anita Trisiah)





Preliminary results (media analysis, interviews):

- Positive messages from government
- People experience social risks
- Knowledge level about geothermal energy (and climate change in general) is low.

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Framing Geothermal Energy in Indonesia: A Media Analysis in A Country with Huge Potential

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Public perceptions of emergent low-carbon technologies, such as geothermal energy, impact the speed of energy transitions. Such perceptions are largely shaped by how the media portray such technologies. This paper reports on how geothermal energy has been framed in two prominent national newspapers in Indonesia, a country with large geothermal potential due to its volcanic geology. We examined articles on geothermal energy written over ten years. Applying a quantitative framing analysis, we investigated the salience of six frames indicated in the literature as often used in communications on geothermal energy: energy security, economy, legislation, environment, knowledge, and social issues. We also examined the tone and source of the frames. The analysis reveals an overall positive tone in the newspaper articles, especially regarding the technology's energy security and economic potential, with the primary source being the national government. Possible adverse effects of geothermal technology are covered less often, particularly those related to social issues at the local level. We describe the different frames identified, provide examples and discuss implications.

ARTICLE HISTORY

Received 8 December 2021 Accepted 2 November 2022

KEYWORDS Geothermal energy:

Indonesia; energy transition; frame; media; perception

1. Introduction

Geothermal energy is a low-carbon energy source that can help reduce global CO2 emissions (IRENA, 2021). Due to its volcanic geology, Indonesia is home to 40% of the world's geothermal resources (Mohammadzadeh Bina et al., 2018). Nonetheless, the potential is underutilized, with only about 9% realized (Ekuatorial, 2021). Barriers are technical (Pambudi, 2018), financial (Rayhanna, 2017), and legal (Darma, 2016), as well as public resistance (Candra, 2018).

The resistance is mainly due to negative perceptions fueled by residents' negative experiences (Floresa, 2019; Mardiastuti, 2019). However, those who benefit from geothermal development report positive perceptions (Pambudi et al., 2022). These perceptions can also be shaped by media frames (e.g. Carr-Cornish & Romanach, 2014; De Vries, 2017), which we can see in other fields. For example, negative media frames could result in weak public support of biofuels (Delshad & Raymond, 2013), while positive media frames could associate with public support of nanotechnology (Ho et al., 2010). A Swiss study found that close attention to media and related public

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So, communication is important, but...

Overheidsuitgaven

Hoe moet het nieuwe kabinet alles gaan betalen? Daar hebben de partijen het volgende voor bedacht:

• Er wordt structureel één miljard euro bezuinigd op het ambtenarenapparaat. Er moet vooral gesneden worden in externe inhuur en communicatieafdelingen.



CrossScale Project

The project pursues a holistic and integrated approach that has not been addressed in other DeepNL projects. The research will tackle another gap within the current DeepNL projects by explicitly addressing and communicating the uncertainties and risks associated with subsurface operations to different stakeholders and societal actors.



This is crucial for supporting a more informed decision-making process among societal actors who play a vital role in shaping the future of subsurface activities.

CrossScale Project

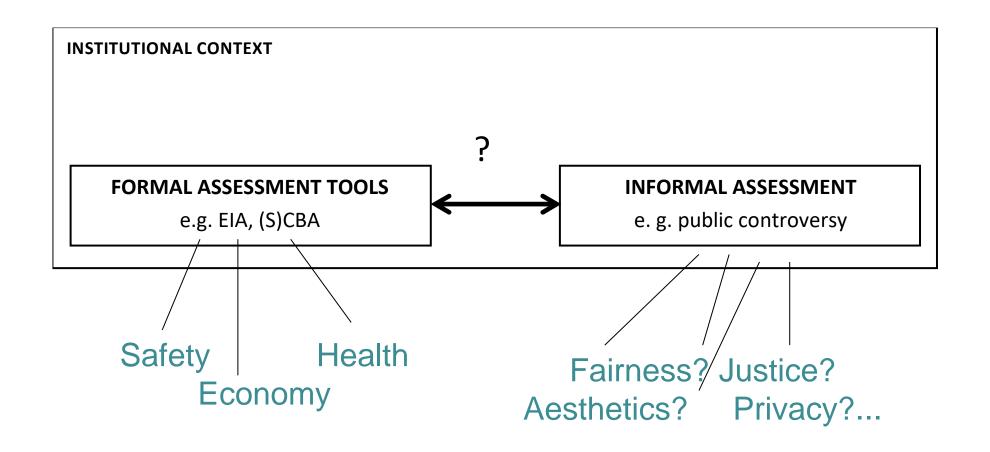
- WP5 will develop an **interactive Q&A process** that creates trust by highlighting how advanced geoscience research in this project and the wider DeepNL programme supports the safe and sustainable execution of geoenergy projects.
- This deliverable is useful to regulators such as SodM and also benefits wider discussions at Mijnraad. Overall, CrossScale will have direct societal impact because decision making will become more informed and the value and need of scientific research will become clearer.

Linking notions of Values...

- **Ethics** relates to:
 - The value disposition of individuals
 - Values embedded in technologies
 - Reflection on values
- Economics relates to values that are (or have become) embedded in institutional contexts
 - The economic system as a fixation of values
 - The market and political realm as formative contexts in which values are stabilized
- Science- and technology studies (STS) look at the <u>dynamics of values</u>
 - In relation to their emergence during innovation trajectories
 - In relation to their articulation in stakeholder interaction

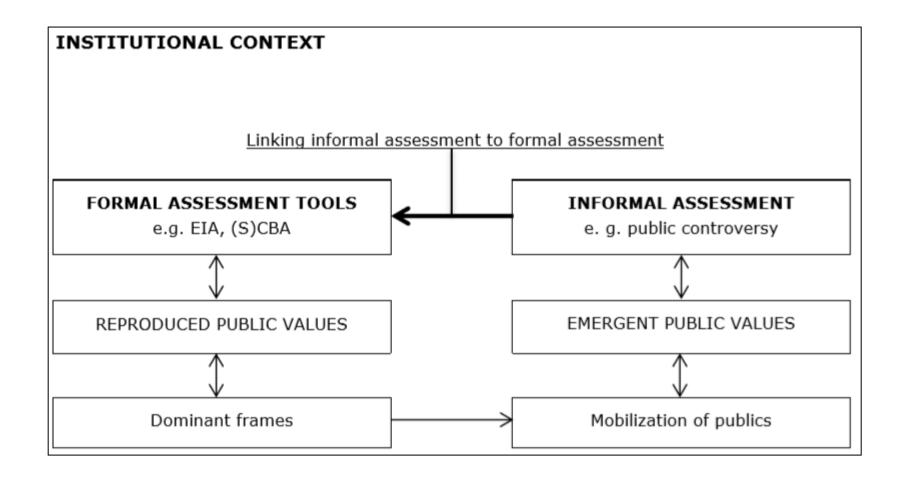


Response: Two interacting processes or 'worlds'...



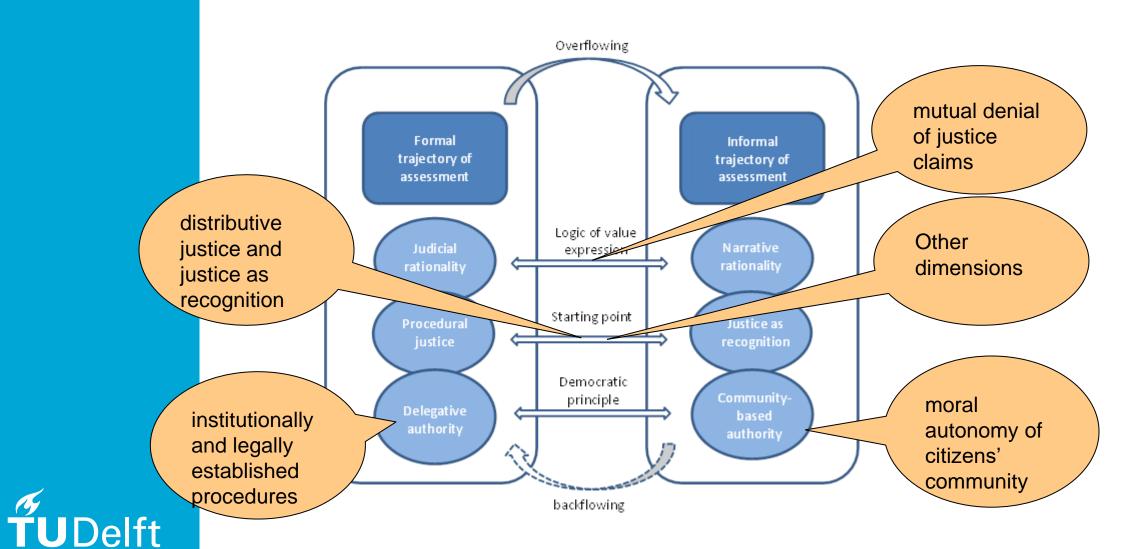


The RESPONSE framework...





Three justice-related value attributes shaping the interaction



Please get in touch with us! PD starts summer 2025

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