## Visualization of policy controversies: digital public accountability

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### Ocular democracy

From votes, to voices, to the visual:

A free people," wrote Anacharsis Cloots during the French Revolution, "is an argus. It sees everything, hears everything, is everywhere, and never sleeps."



AGENINGEN





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## Public accountability: Showing and seeing

Public accountability: citizens who critically monitor and debate procedures and content of political decision making.

A forum holding the actors accountable (Bovens)

- Showing ocular proof to justify actions (actor)
- Seeing by detectives and giving of ocular evidence to hold accountable. (forum)



## A picture says more than a 1000 words

- Visuals consists of condensing symbols that suggest the core frame of how people interpret an issue (Gamson and Stuart)
  - There is often some form of representation of a reality (referential)
  - Simplify complicated things
  - Stir emotions (condensation)
  - Can be made sense of in groups to help create common ground (Weick 1969)



Seeing and showing on the internet and in social media

#### Seeing

- What do citizens (the forum1) see on the internet and social media?
- What do internet detective (the forum 2) see when searching the internet and social media, and how do they show (see below)?

Showing

- What do internet detectives (the forum) show to actors to hold them accountable?
- What do the actors show to citizens (the forum)?



# Policy controversies: shale gas and geothermal energy and food



Agemar et al 2014

https://ydsedu.com/2017/11/29/shale-gasprospects-for-india/ 7

## Interpretive and digital methods

- Google and duck duck go searchers
- Scraping visualizations on internet, twitter, pinterest, Instagram #shalegas;
  #fracking #geothermal
- Own scraper and sorter: sorting visualizations
- Frame-analysis of the visualizations in their context: what are people
  - First interpretive, qualitative analysis
  - Developed into bins/bags of words to make an automated frame analysis of the visualizations in their context
  - Including proposals of what actions are proposed in the controversy
- Cross-platform analysis and reversed image search to study the travelling
- Science live: have people code visualizations of controversy



#### Example 1: google search 'shale gas'





#### **Example 2: Actors' stance and image map**



Industries



Natural landscapes





Mexico

South Africa

**United Kingdom** 



## Heat map of the shale gas controversy on the internet in visuals per region





#### Mexico

**South Africa** 

**United Kingdom** 



#### **Example 3: Visual discourse coalitions**





#### **Example 4: Emblematic**



Landscape cluster

Graphics cluster



#### **Example 5: Travelling for accountability**



Josh Fox

Gasland





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Friends of the earth and other people's replicas Used in tweets all over the world to hold governors accountable



## Conclusions

- Different actors active on the internet and social media
- Search engines goggles favour the showing of evidence by governing and industrial actors
- On internet: governing actors and citizen detectives most of all visualize 'facts', and suggest to provide technical information.
- On social media: more condensation images by internet detectives
- Seeing by 'citizen detectives' (sometimes including academic experts) more dominant in search results for shale gas and risk and on social media



## Discussion

- Showing (giving account by actor) more dominant in search results overall
- Seeing (giving counter evidence) is more prominent in controversial cases, and in social media
- Conceptually:
  - Being accountable and holding accountable seem to mix on the internet. Governing actors see, show – as do citizens/NGO's and so on. Less clear who is the actor or forum.
  - The public is multiple and interacts with decision makers in different ways.
- Impact on governance/decision making?
- Ocular democracy: creating common ground from deliberative governance to ocular governance?



## THANK YOU!

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#### Example 1: Results simple google search 'geothermal'

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