



Public acceptability of energy sources, systems and policies

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Gas extraction and earthquakes in Groningen

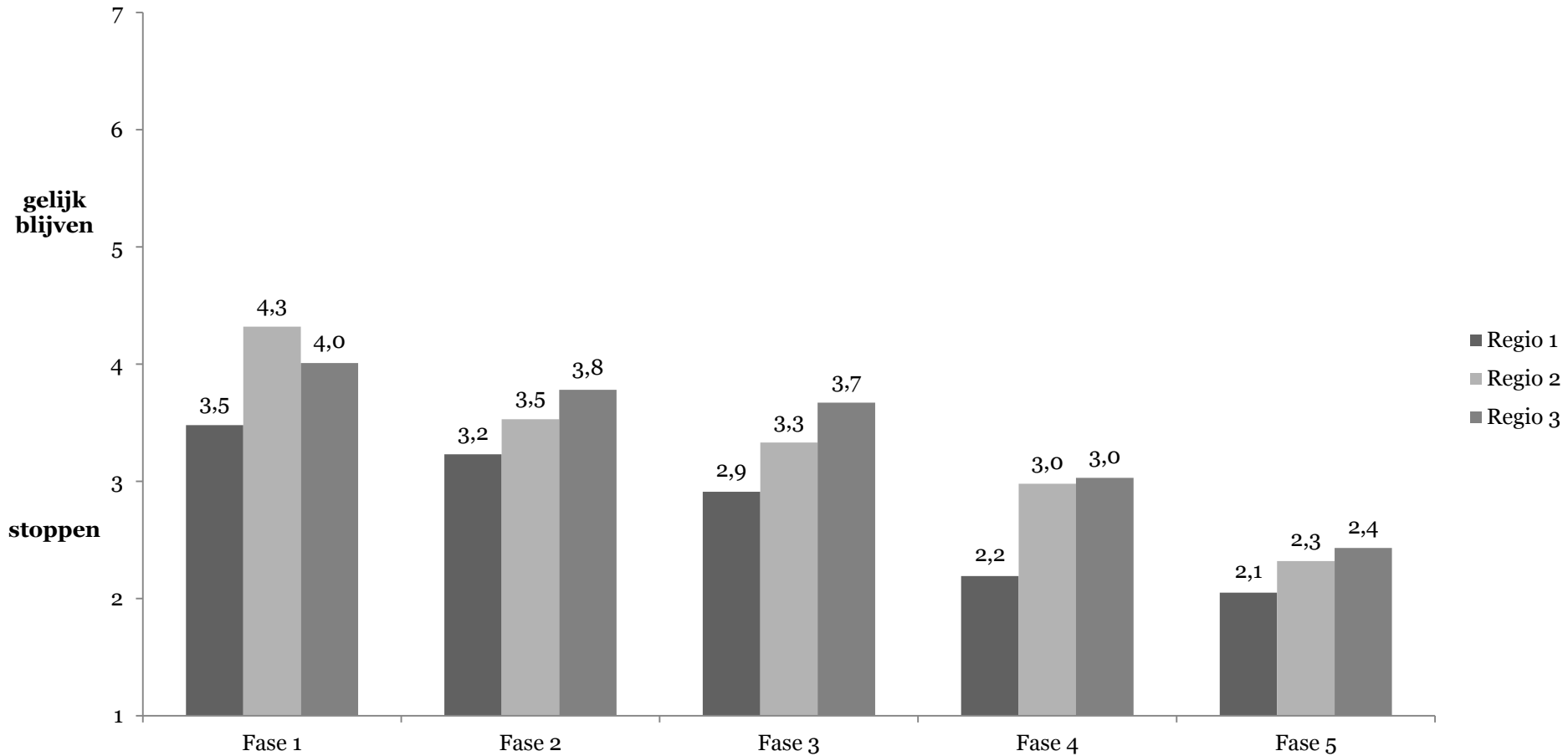


Public perceptions

- > Representative sample Groningen province
- > Questionnaires door-to-door
- > Six measurement phases:
 - November 2013
 - June 2014
 - November 2014
 - December 2016
 - February 2018
 - 2019
- > Three regions
 - Region 1: Loppersum
 - Region 2: Bedum, Appingedam, and Slochteren
 - Region 3: Zuidhorn, Groningen, and Delfzijl

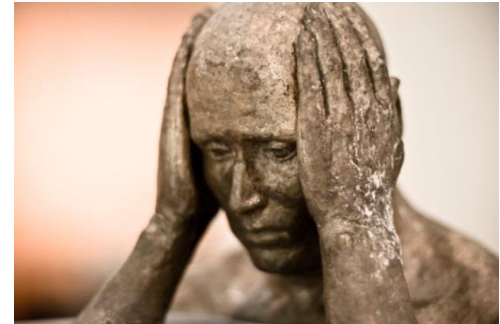


Acceptability



Perceived risks

- › Highest perceived risks for homes (damage, house value) and for the image of the province of Groningen
- › Other risks seen as less likely: physical injury, stress, reduced quality of living
- › Perceived high risks for others



Emotions

- › Negative emotions not extremely strong
- › Strong feeling of powerlessness



Trust

> Low trust in responsible parties



> Higher trust in local governments



PUBLIC ACCEPTABILITY



PERCEIVED COSTS AND BENEFITS

- Individual
- Collective
- Distributional and procedural justice

CONTEXTUAL FACTORS

- *Price, quality, visual impact
- *Environmental impact, public health and safety
- *Distribution of costs and benefits, procedures

INDIVIDUAL FACTORS

- *Values
- *Place-attachment, place-identity
- *Trust in responsible parties

Values



Effects of values on evaluations of nuclear energy and renewable energy sources





Strong egoistic
 values





Strong biospheric
values



Decision-making power and trust



Decision-making power and trust



Major
decisions



Thank you!

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