

Policy reconstruction shallowing quarry lakes The Netherlands

September 8 2023 Wouter Klein Koerkamp

θ

Dredging is simple, regulation is complex



Pixabay

apparent win-win situation

- > 500 quarry lakes after mining sand/gravel
- since 2008 Dutch soil quality decree (Bbk)
- 20% excavated material in lakes
- societal issues (e.g. waterquality)

Grontmij, 2003



Aim

evaluation: testing causal assumptions behind policy

analysis: validating assumptions

Which factors affected policy,which lessons can be learned,& lessens learned translated into policy recommendations?



Approach



- part 1: deskstudy
 - what policies?
- part 2: analysation
 - why formulated in this way?
 - why it leads to specific choises?
- two workshops + two frameworks
- timeline



Framework: multiple streams (Kingdon)



Answers on how

- issues reach the governance agenda
- issues shaped policy development





Kingdon J. Agendas, alternatives and public agenda, Amber Lovell, 2010

Framework: Evolutionary Governance Theory (EGT)



Answers on *how* and *why...* ...four types of dependencies, influence the governance path

dependencies: factors influencing selection of instruments



Van Assche et al., 2021

7

Continues reocurring factors





three continuous policy streams are central

- 1. search for storing locations
- 2. protection of environment
- 3. need for material

Stream 1: Search for depositing locations

- < 1970s: practical no restrictons
- 1979: Lekkerkerk (contaminated site)
- 1980s: management plans
- 1990s: Environmental Impact Assessments

970



Stream 2: Protection of environment

- 1988 3th note water
 - first standards (class I-IV)
 - permits based on +- 15 acts
- 1990s: understanding magnitude of contamination
 - relative clean material not considered waste
 - multifunctional remediation
- 1993 guideline design CDF's



Rijkswaterstaat 1992

970

 ∞

2020

H

Stream 3: Need for material



- since early times:
 - o agriculture (fertilising)
 - construction (sandy material)
- 1980s 2000s: cleaning, processing into building materials
- nature development



Bodem+



Natuurmonumenten

2020

Η

1st window of opportunity (1985-1997)

- 1. enthusiasm integral plans:
- 1986/87 summerfloodings
- 1992 Rio Earth summit
- 1994 fan of trenches by e.g. WWF (Kaliwaal)
- 2. watersafety:
- 1993/95 near floodings
- 1997 active management riverbed



G

2nd window of opportunity (1997-2008)

 blocking CDF's -> backlog in maintanance

970

- 2003 announcement new regulation
- 2008 Bbk (beneficial use)
 - simplification: regulation in stead of permissions
 - o pragmatic approach
- period active policymaking ends



ГĤ

0_-0

Emerging of a headache (2010 - 2024)

number initiatives + worries ground water quality 2011 guidebook (time restrictions) trigger import + non soil + doubts ecology (negated win-win) 2024 re-implementation previous instruments (permits and EIA)

970



H

Lessons learned



- beneficial use continuous influenced by streams
- beneficial use institutionalised through window of opportunity
- using past solutions is obvious
- experiences 2011 guidebook show:
 - o secured societal rest on short term
 - 'small' adjustment lead to dead-end path on long term
- barriers can block the chain (dredging transport deposit)



- contemporary issues: need for radical change:
 - transport of soil/sediment 40% GHG emission
 - sustainability vs ecology
- (chemical) assessment on water management i/o soil management
- Dutch interpretation EU waste directive deposition under water



Questions?