

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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How a broadened view on Land Readjustment and Consolidation can help dealing with future spatial challenges

Nyncke Emmens, Mark Obbink, Marije Louwsma

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Every m² counts

Land Readjustment and Consolidation in view of
future spatial challenges in the Netherlands



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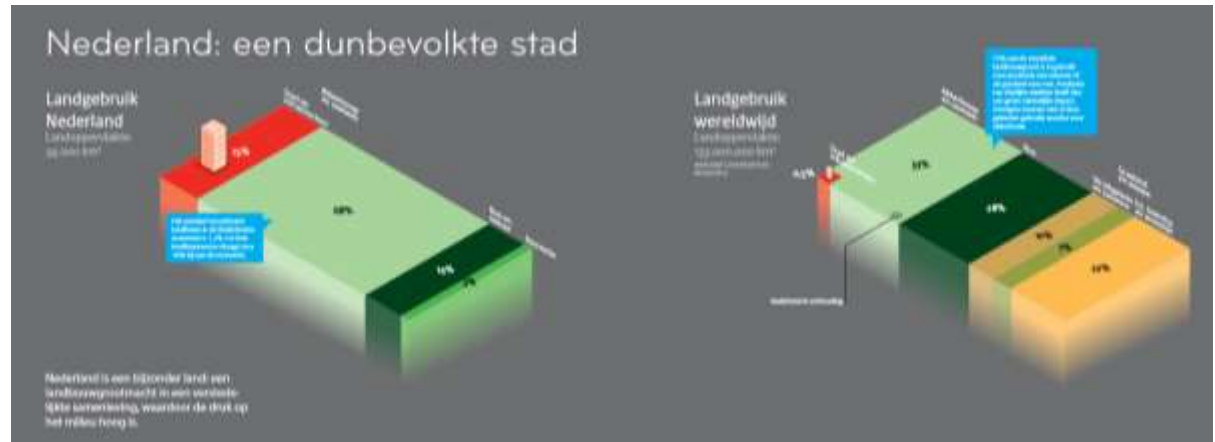
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The Netherlands: a sparsely populated 'city'

- 17,3 million people, 4,1 million hectares of land



Bron: BZK

Bron: PBL.nl

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The Netherlands: inhabitants/km2/municipality



Bron: CBS en TERGLOBO.nl

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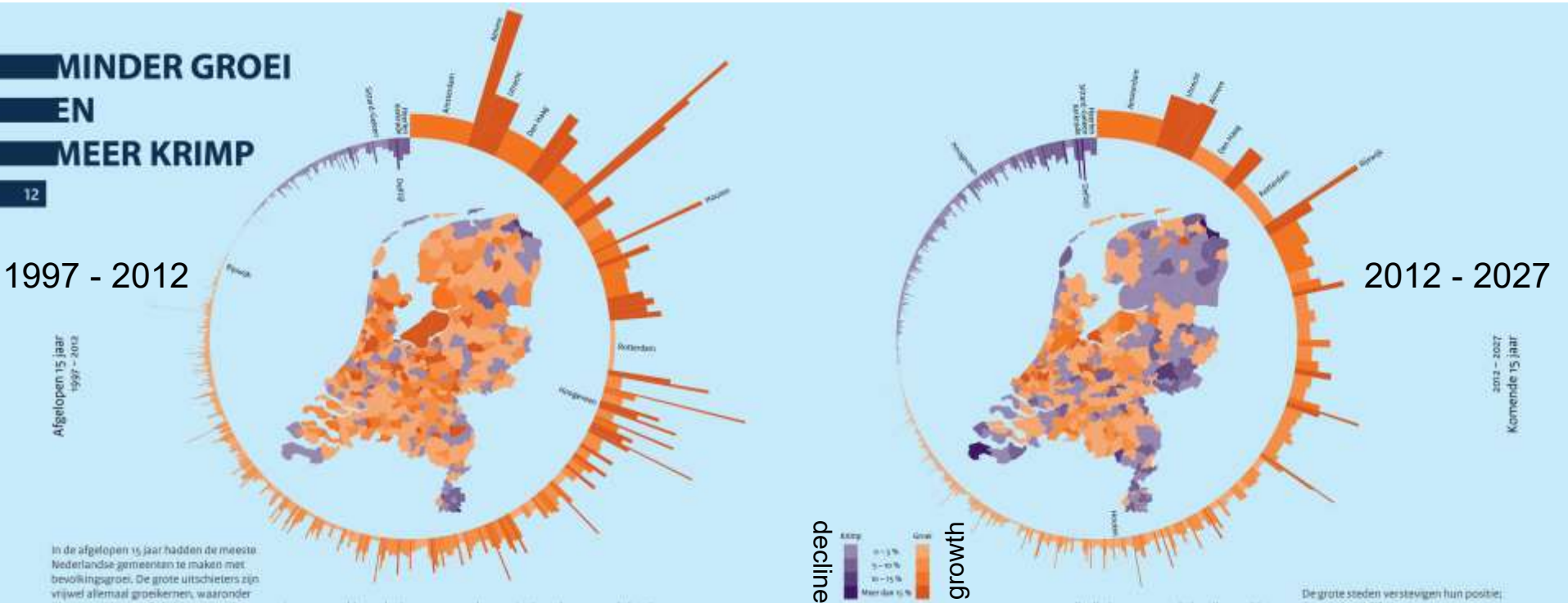
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The Netherlands: less growth and depopulation



Bron: PBL.nl

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National Environmental Strategy (NOVI)

Four priorities/assignments

- Sustainable economic growth potential in the Netherlands
- Climate-proof cities and regions focused on liveability
- Space to implement energy transition solutions and climate change
- Future-proof rural development

NOVI
Nationale Omgevingsvisie



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Environment and Planning Act at a glance

Underpinning principles:

- Fewer rules, more bottom-up initiatives
- Faster, better and insightful
- Improve environmental quality (better living standards)
- Community involvement

Technical

- Digital system
- Work differently
- Environment code

Planning

- To be implemented in 2022



Now

>

Later



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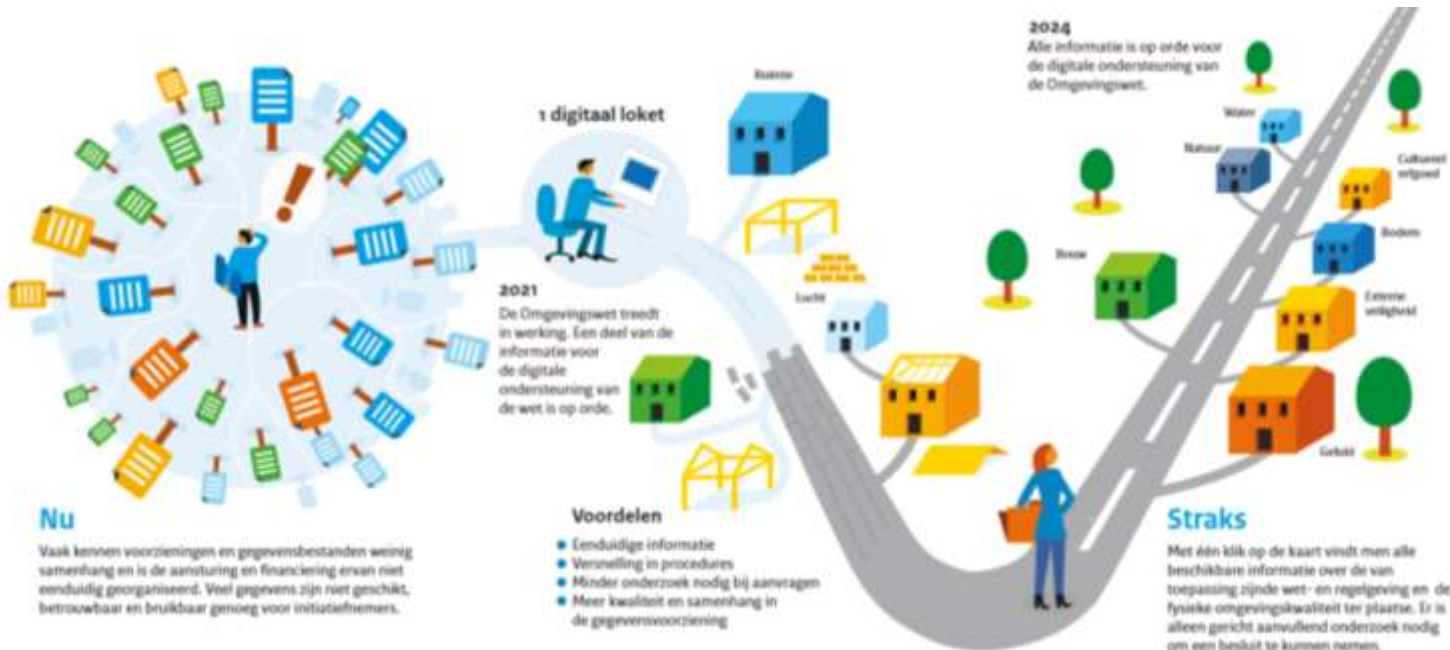
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Digital support by Cadastre: *tactical information management*



Now

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Later

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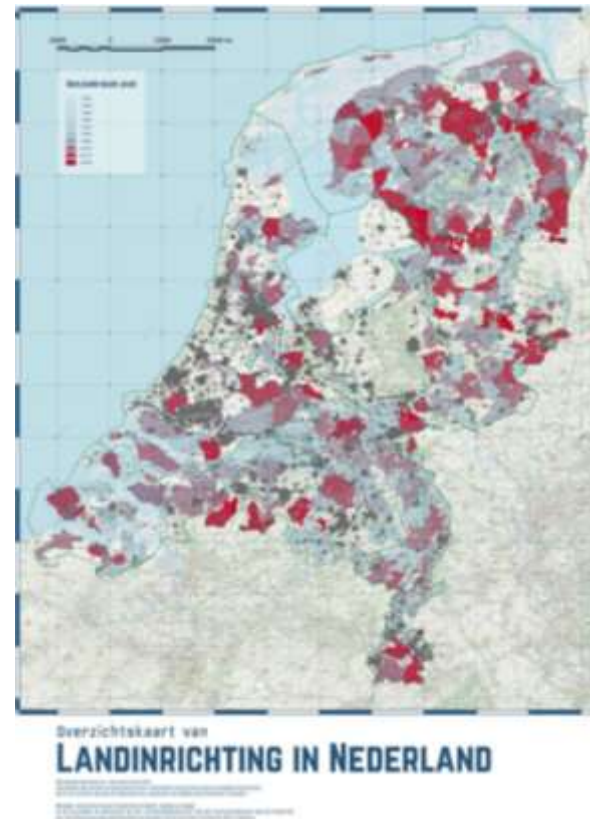
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Land consolidation in the NL: *puzzle a lot with lots*



Bron: PBL

Bron: Cadastre

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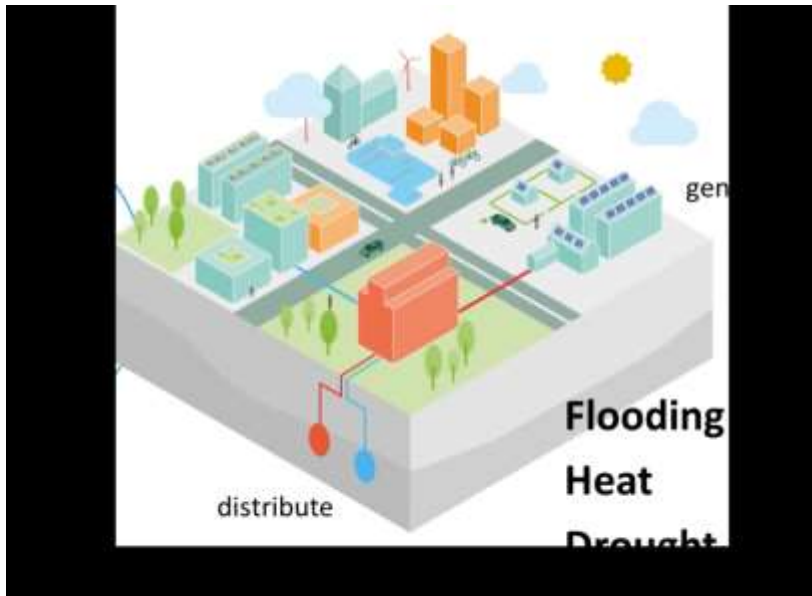
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Future spatial challenges

Climate adaptation and energy transition in urban and rural areas



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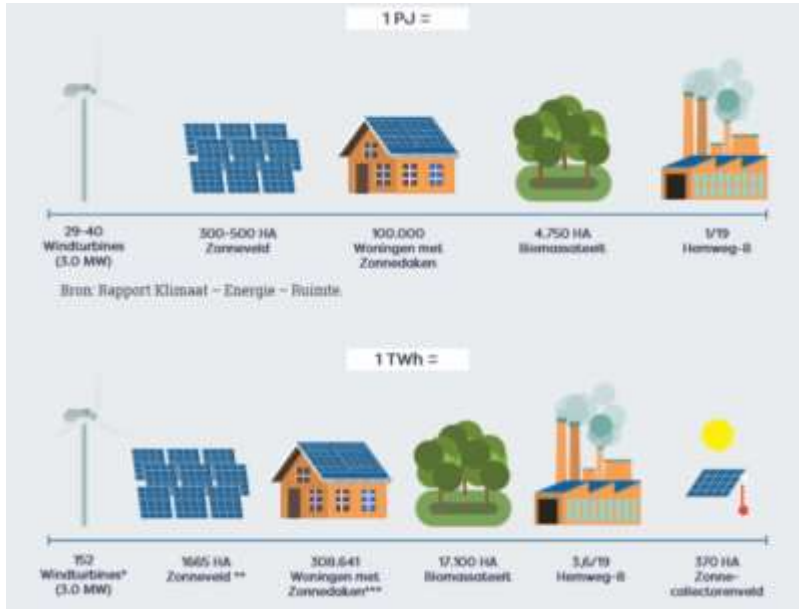
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Energy transition *need for spatial transformation*



Panda Green Energy (BBC Chinese Network)

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Energy transition is a social issue

- Windfarms and solarfields are not desirable everywhere!
- Where to locate and how to concentrate?
- How to avoid fragmentation of (rural) areas
- How to balance between benefits and burdens



Confetti of windmills and solar fields clutter the Dutch landscape

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Participatory planning

initiative, exploration, planning and execution

Design together



Connect with each other

Design together

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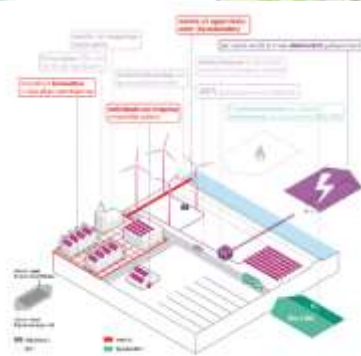
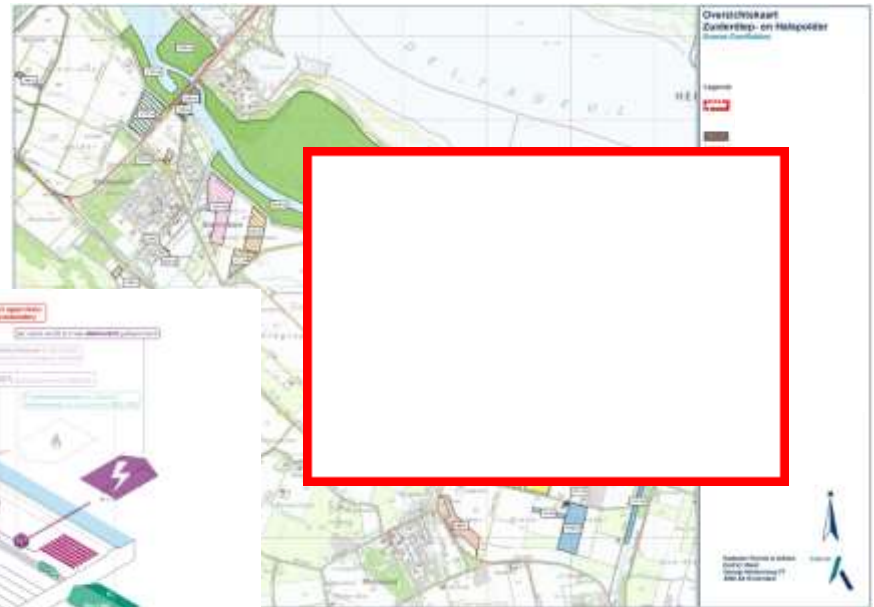
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Energy transition *Windenergy Goeree Overflakkee*



Bron: Cadastre, marcvermeulen.eu

Wind energy: Voluntary land readjustment and exchange of property rights

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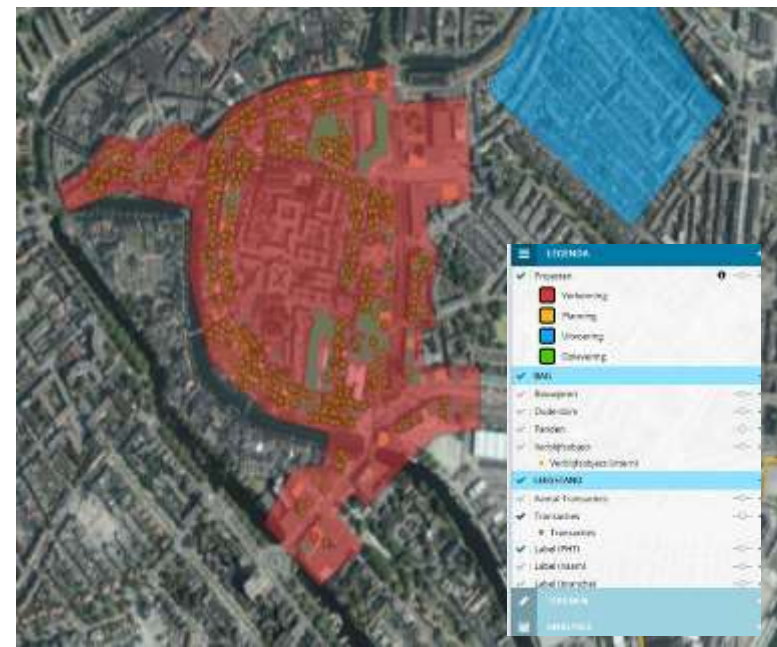
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Urban transformation *solutions for the city of Schiedam*



Inventory and Analysis: multiple users and access

Planning and Execution

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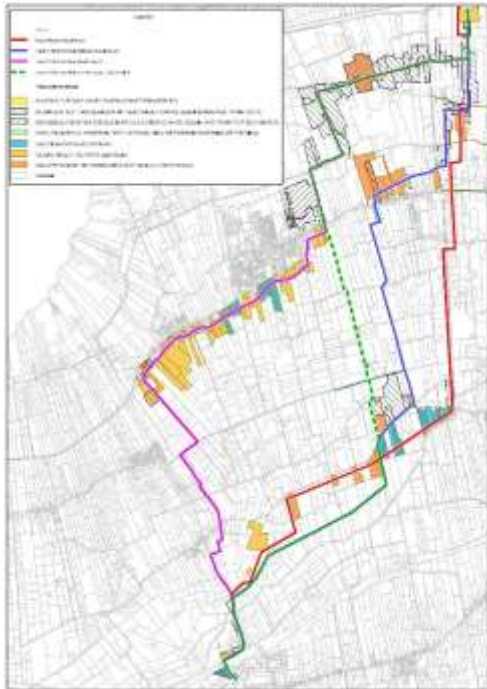
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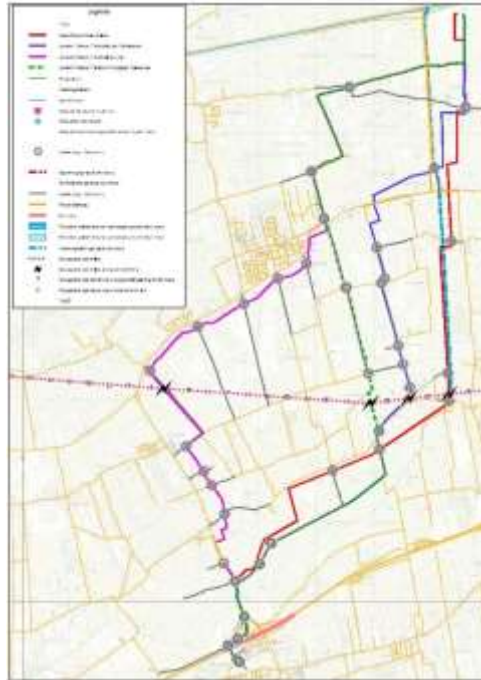
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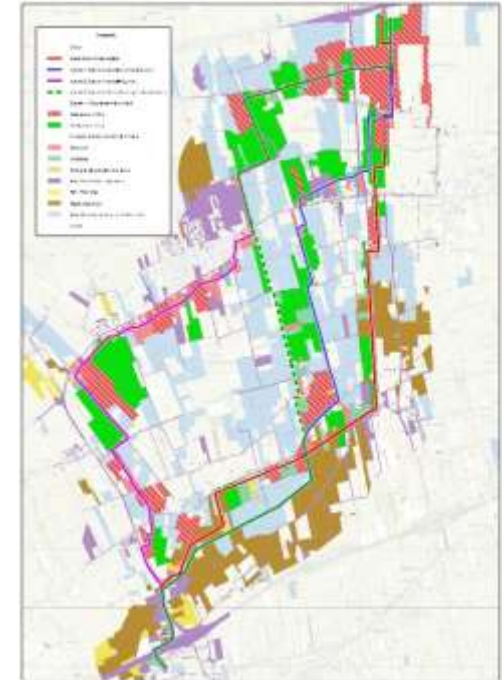
Optimizing routes Marum: *Inventory, Analysis and Exploration*



Object obstructions



Route exploration, alternatives



Properties and intersections

Bron: Cadastre

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