

# The Wicked Problem of Nordic Collaboration on Sustainable Construction

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Wicked Problems (INVI)



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institut for  
vilde problemer

**NEW PODCAST  
& EDUCATION**

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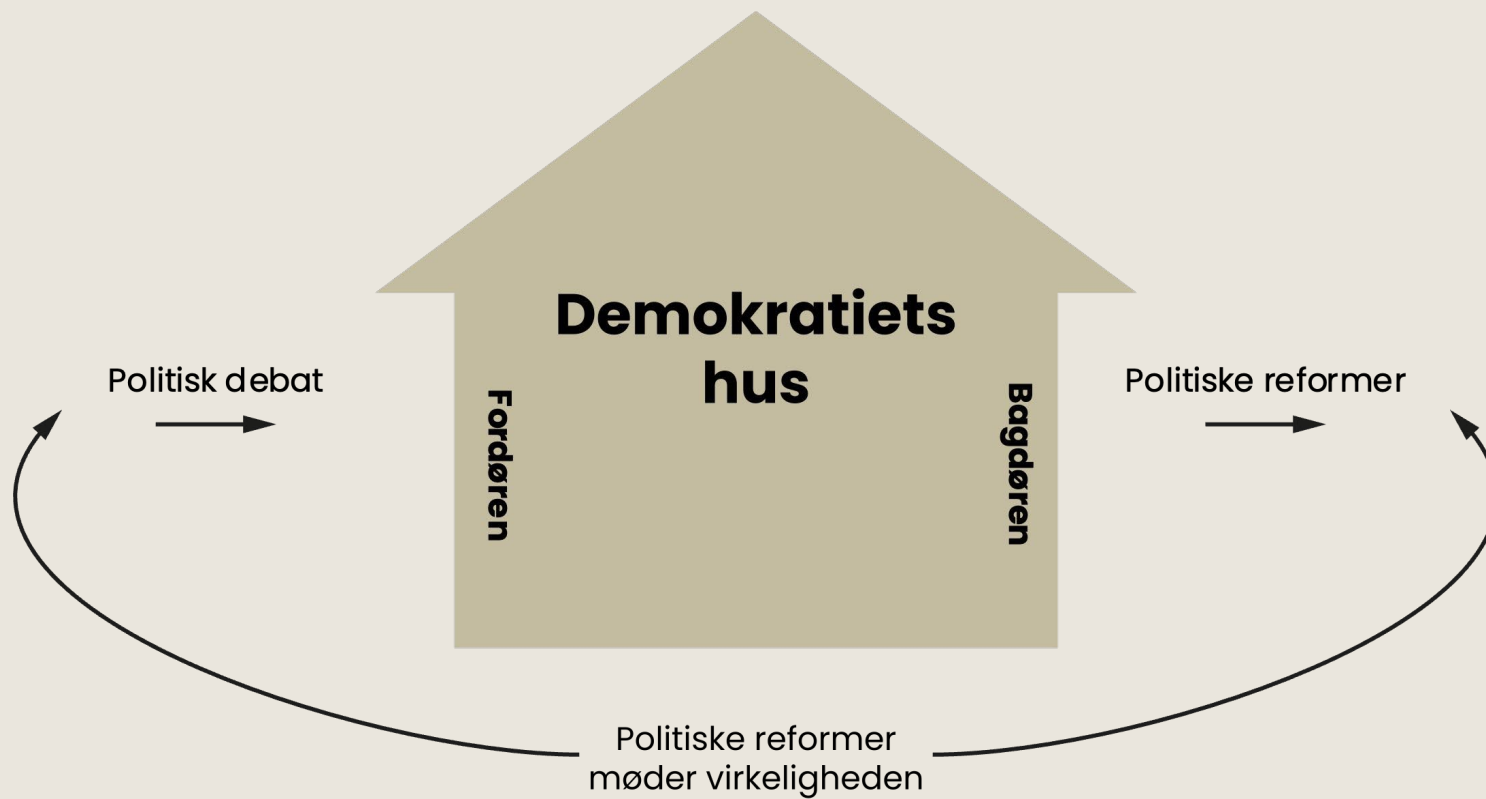
**Nordic Sustainable  
Construction  
Symposium, Dec 2024**

Masterclass i

**VILDE  
PROBLEMER**

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# Interesting, but...

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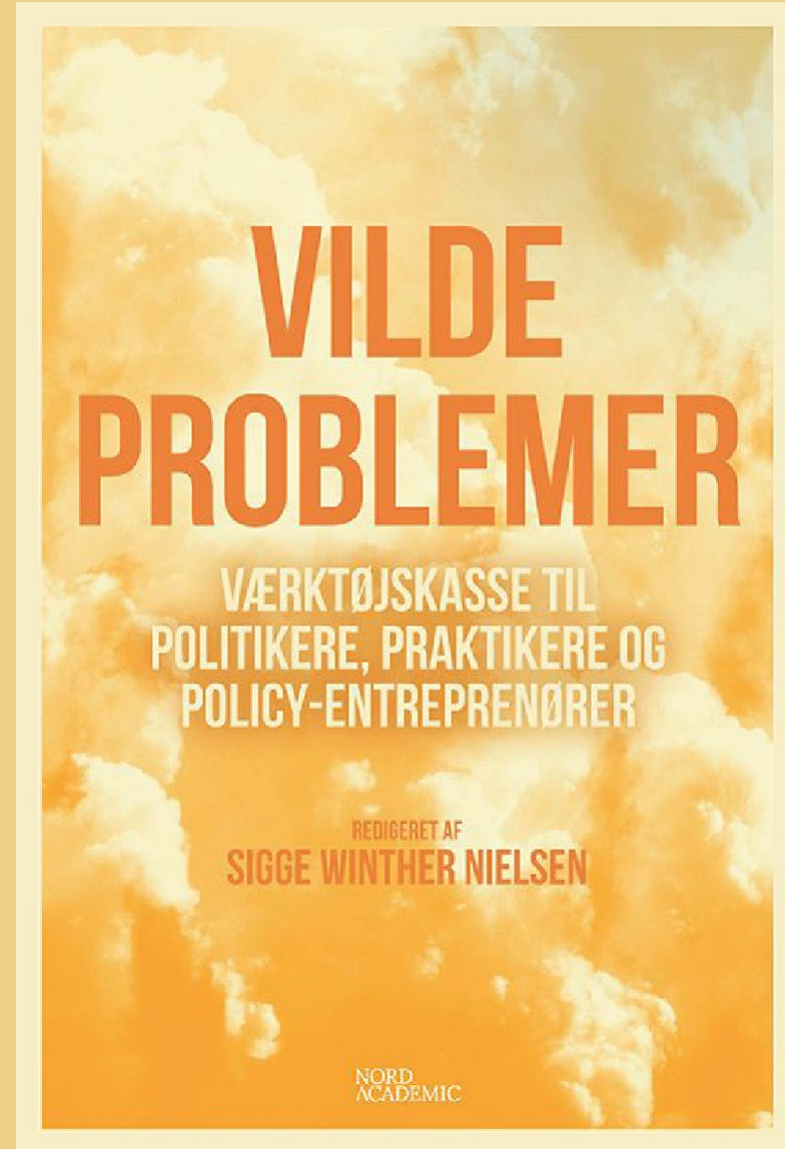
1. "Are wild problems really that wild?"
2. "Are there any tangible tools for wild problems?"

**22**

**professors &  
practitioners**

“Truly a book for the times”

*Zetland*



# 1. "Are wild problems really that wild?"

## Lead



**Jacob Gerner Hariri**  
Professor, Institut for political science, University of Copenhagen

## Advisory group



**Carl-Johan Dalgaard**  
Professor, Char of the Danish Economic Council



**Nina Smith**  
Professor, Economics Institute, Aarhus Universitet



**Peter Stensgaard Mørch**  
CEO, PensionDanmark



**Michael Bang Petersen**  
Professor, Institut for political science, Aarhus Universitet



**Kira West**  
CEO, Home for all alliance



**Maj Baltzarsen**  
Partner, Analyse & Tal

## +800 practitioners



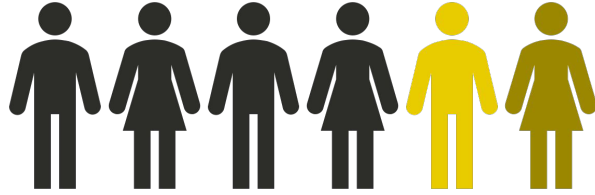


# SEA OF KNOWLEDGE

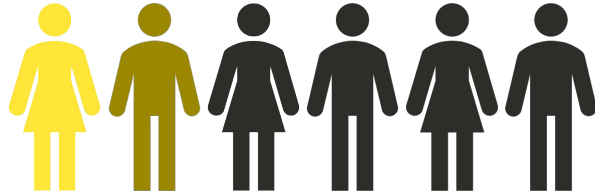


# Collective insights from practitioners

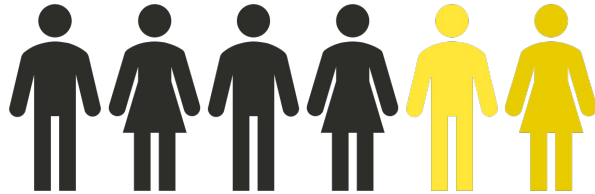
Care worker



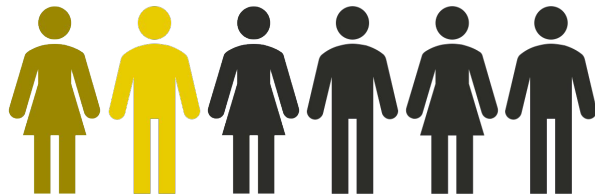
District manager



Counsellor



School principal



Special advisor

School teacher



## Dynamic

Resource-efficient and scalable  
(local, regional, global).



## Diverse

Captures perspectives from different groups.



## Independent

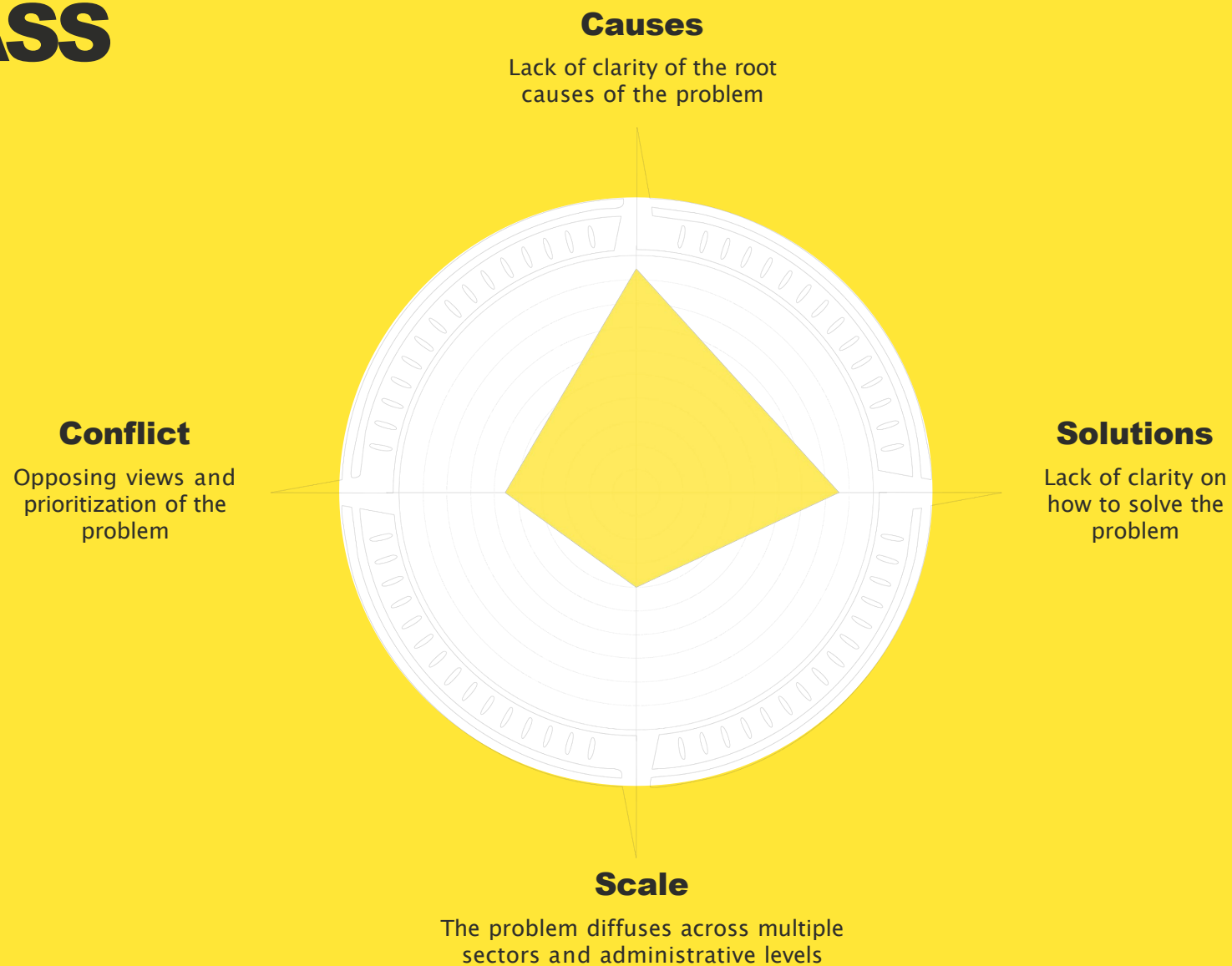
Collects individual assessments from people who represent themselves.



## Emergence

Finds patterns in data that we cannot imagine beforehand.

# COMPASS

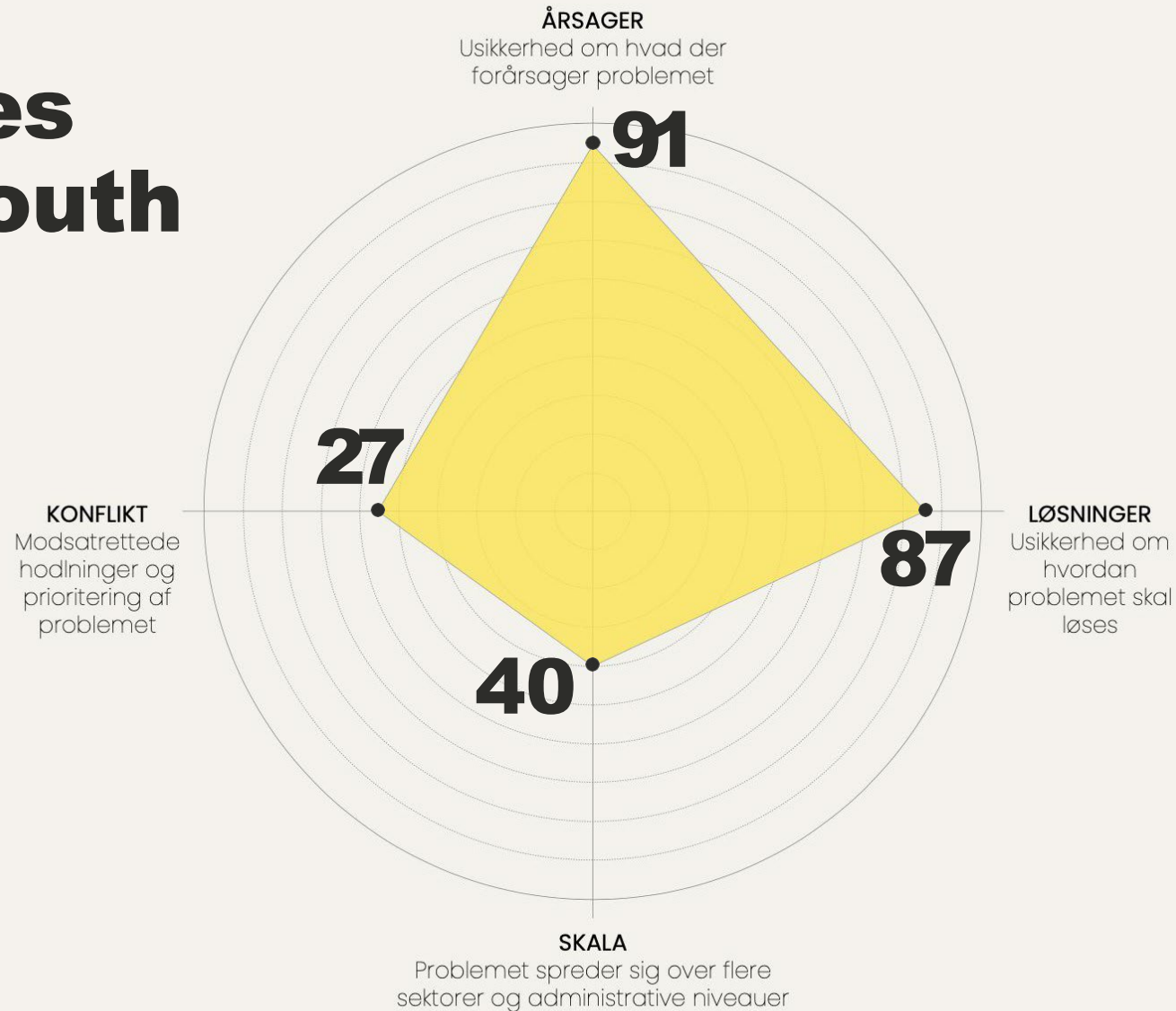


**Currently there is no  
clear answer to why  
more children and  
young people are not  
thriving or how to  
solve the challenge**

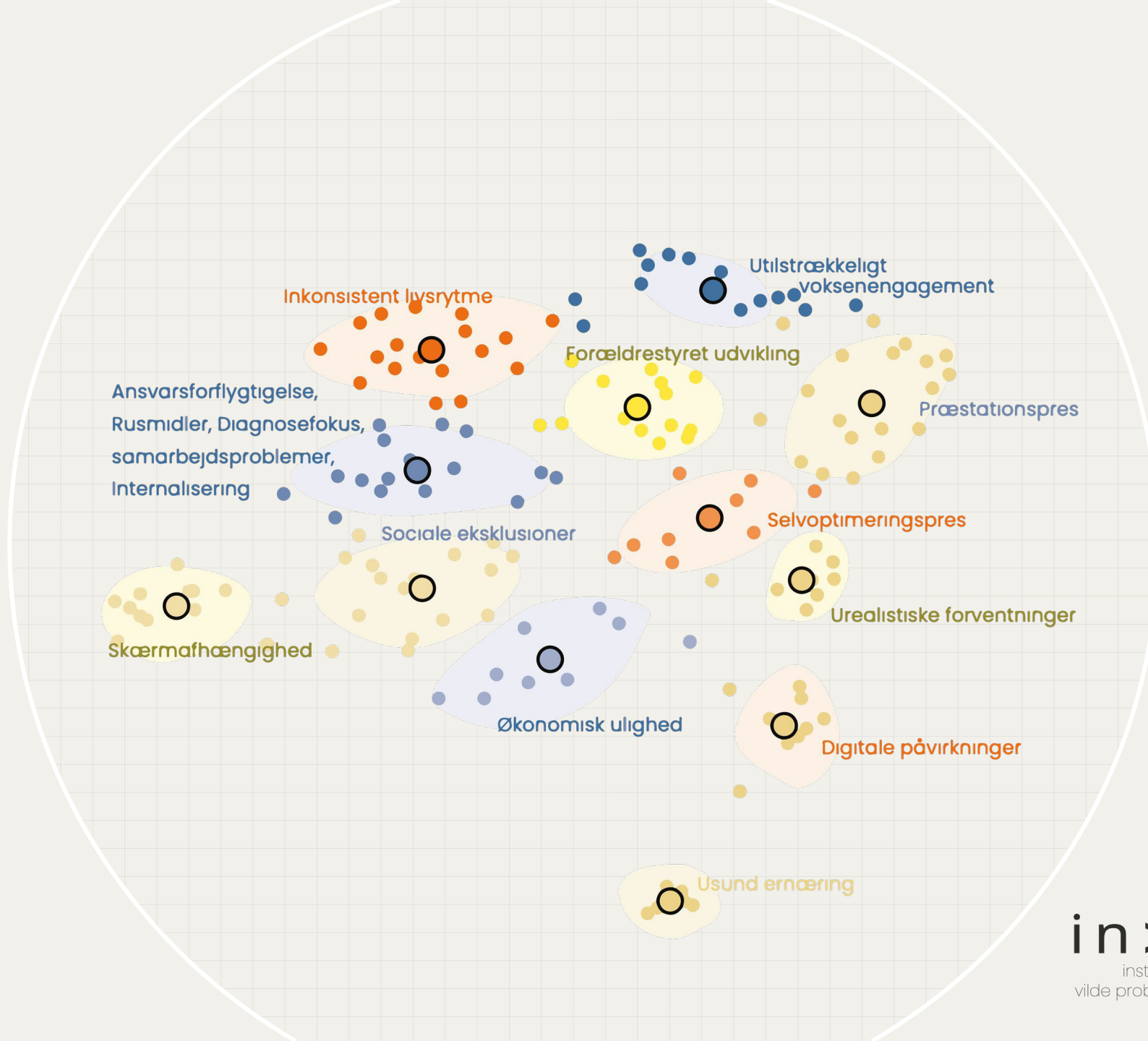
*The Danish Wellbeing  
Commission*



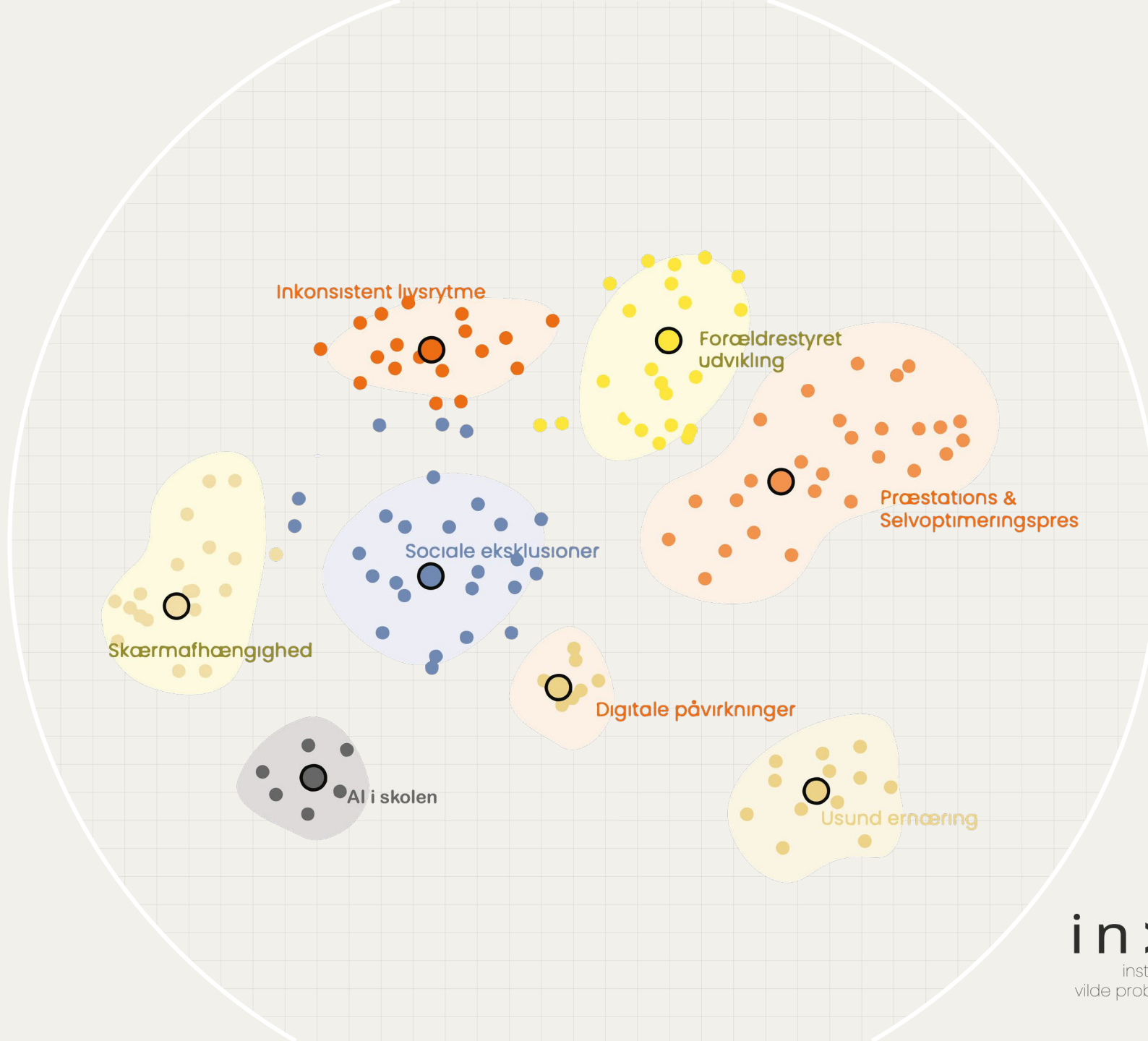
# Thriving difficulties among youth



# Årsager $t_0$



# Årsager t<sub>1</sub>





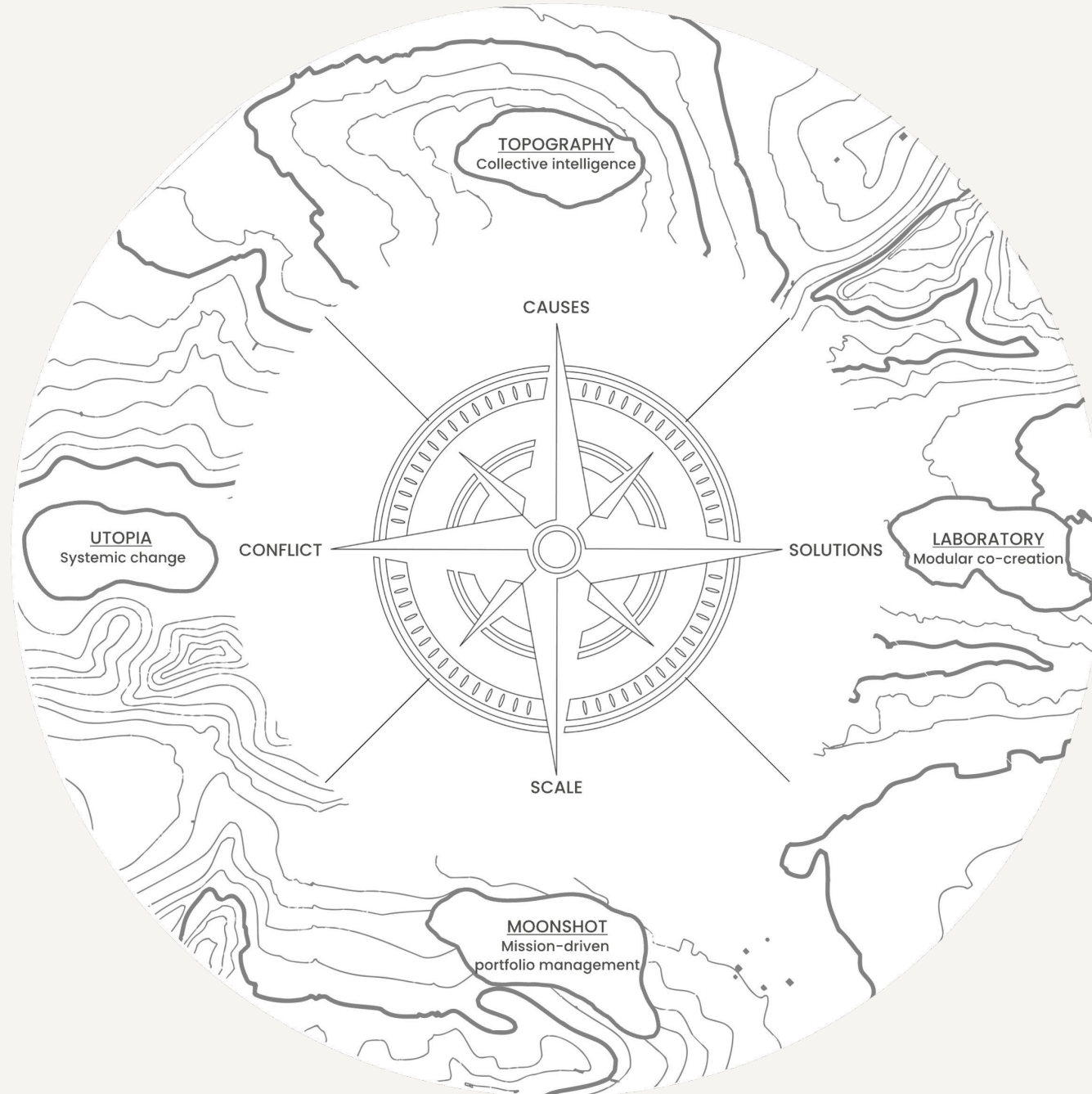
# Model for Vilde Problemer

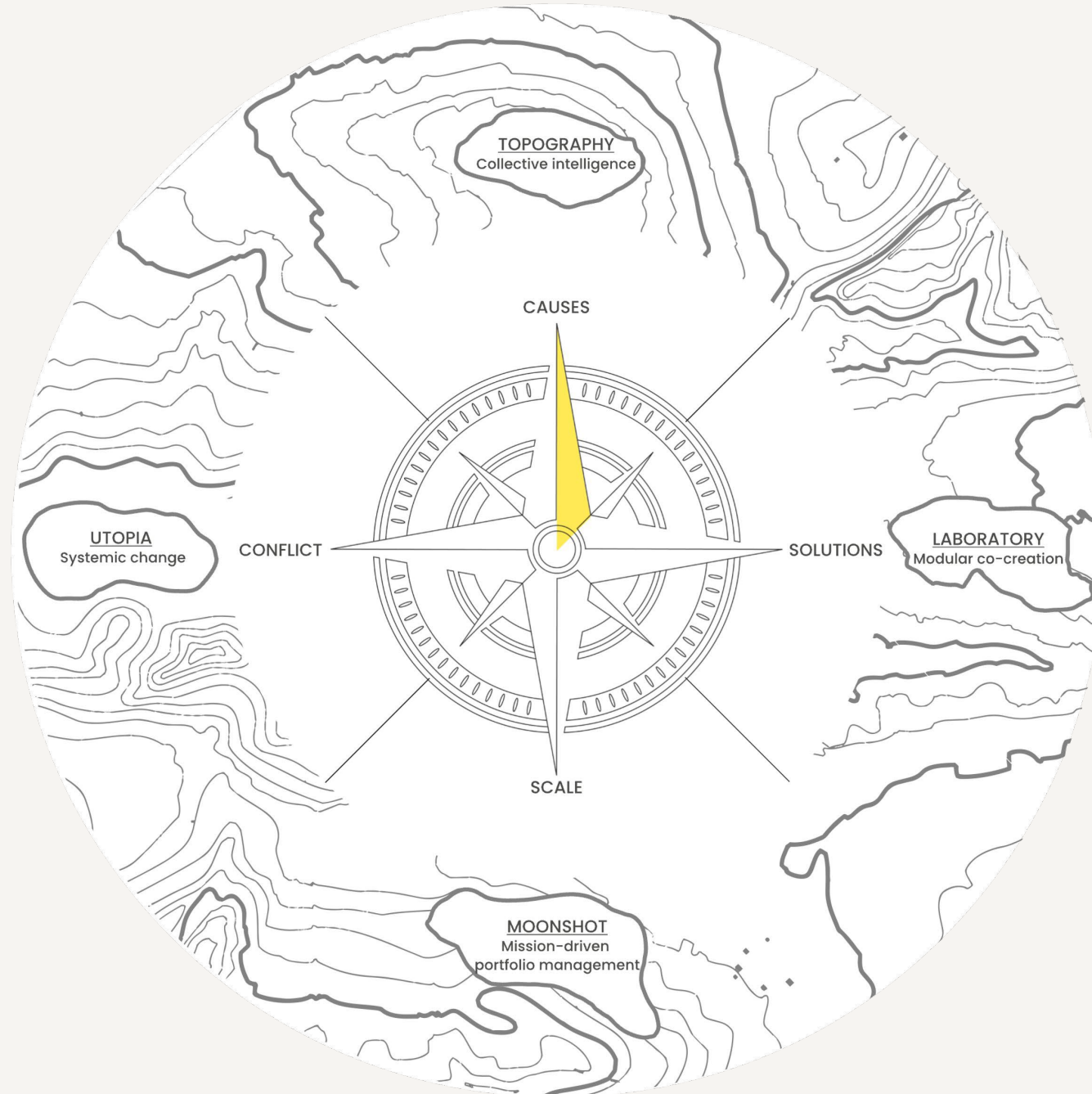
Et kompas til at navigere i  
problemers kompleksitet

Udforsk nu



**2. "Are there any tangible tools for wild problems?"**





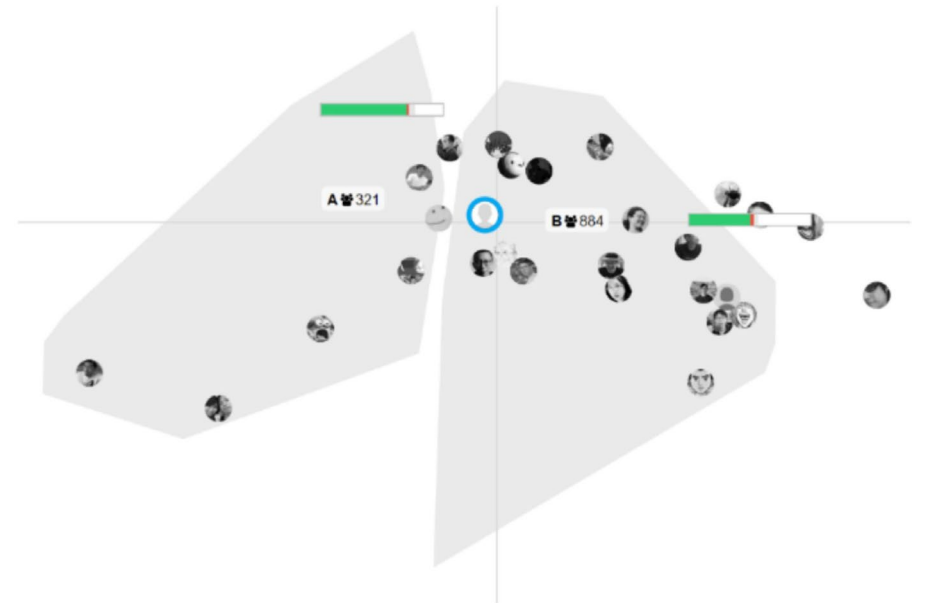


# TOPOGRAPHY

## Collective intelligence

Harnessing the collective 'sea of knowledge' through digital and participatory tools

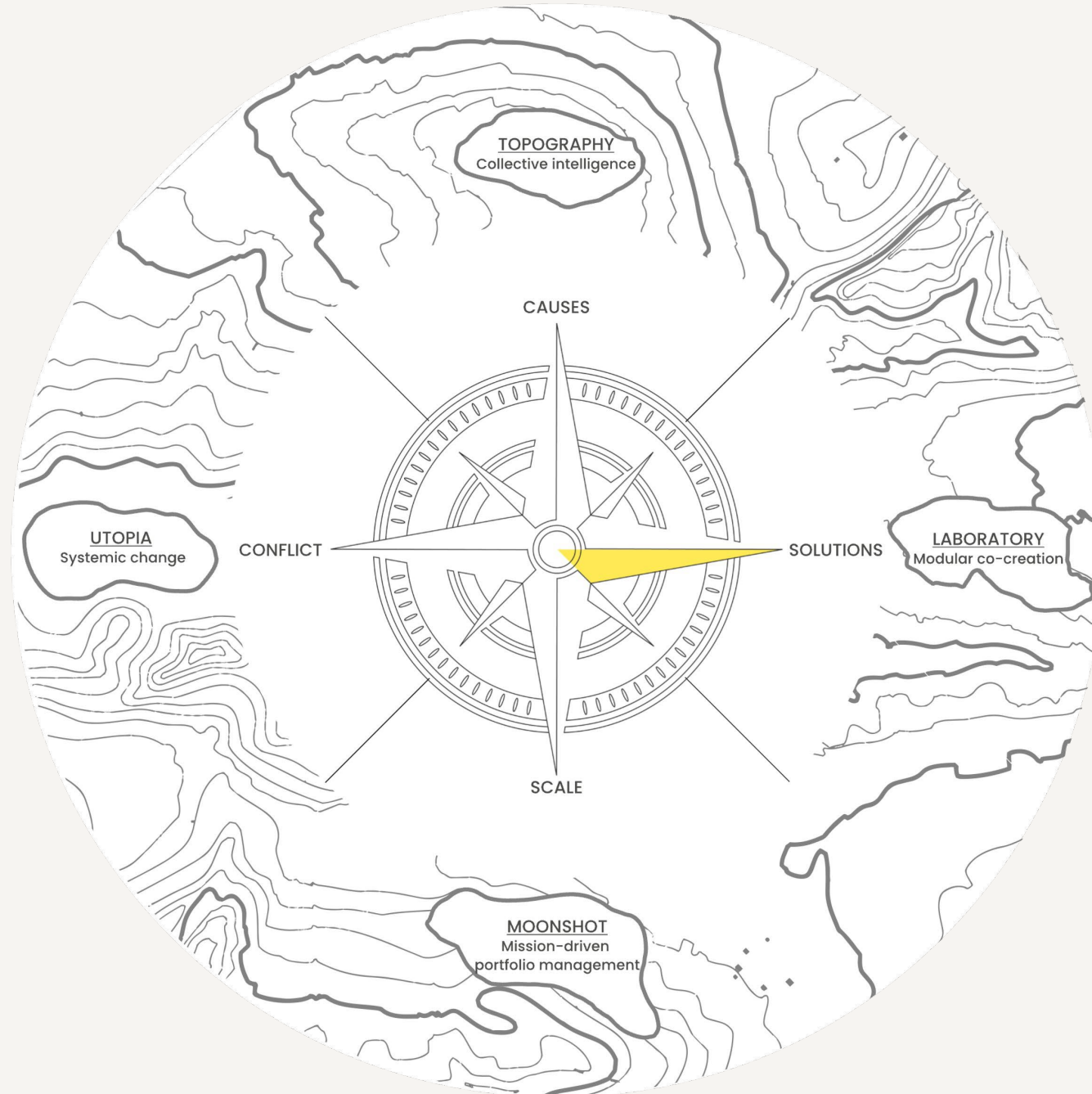
### Opinion Groups



Common opinion Group: A B Statement: 7 16 30 40 68 111 156

#7 I think that the drivers who carry passengers should all keep accident insurance.

 89% of everyone who voted on statement 7 agreed.



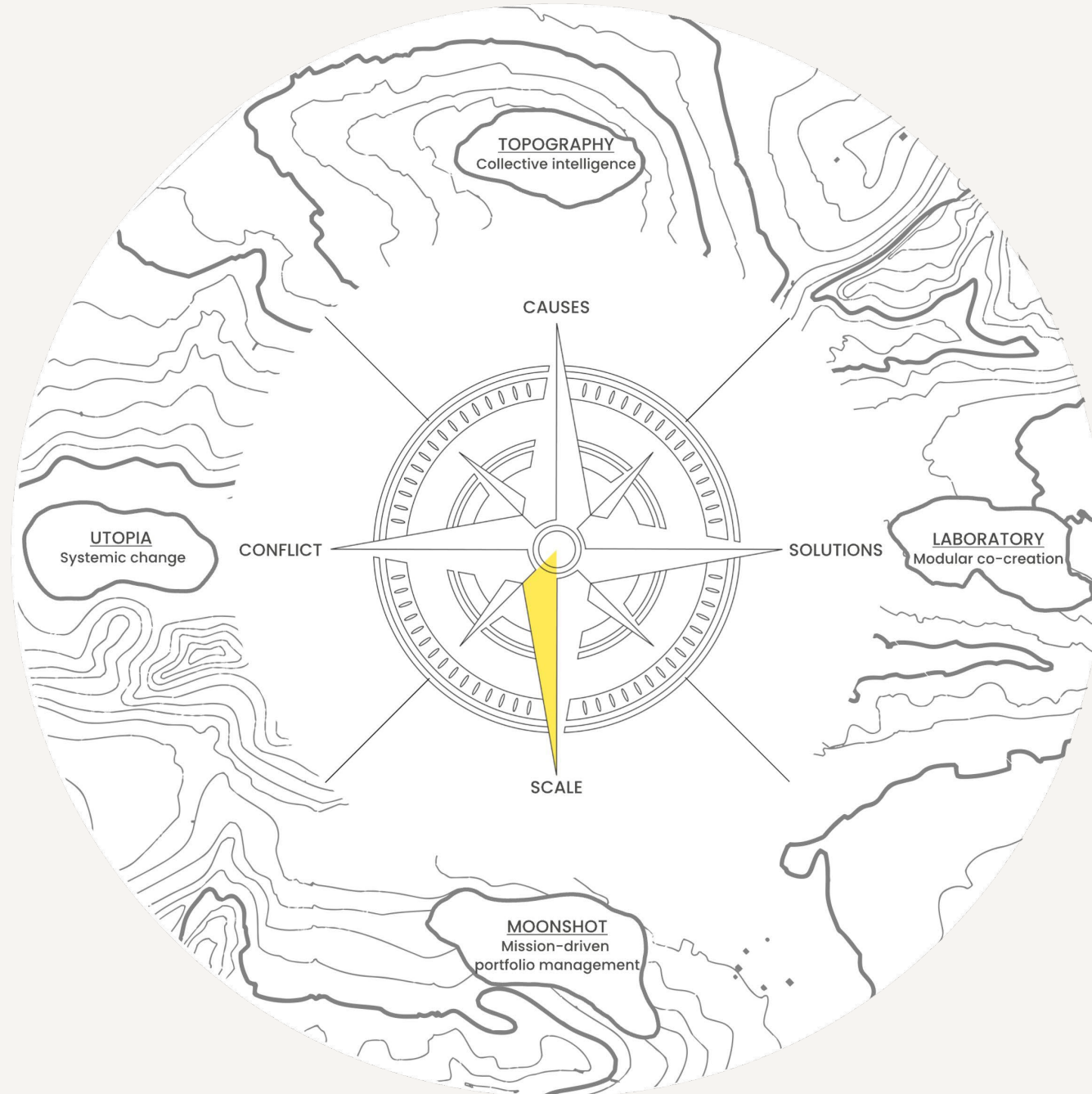


# **LABORATORY**

## **Modular co-creation**

Testing and fine-tuning hypotheses in practices with political actors. Quick and dirty research...



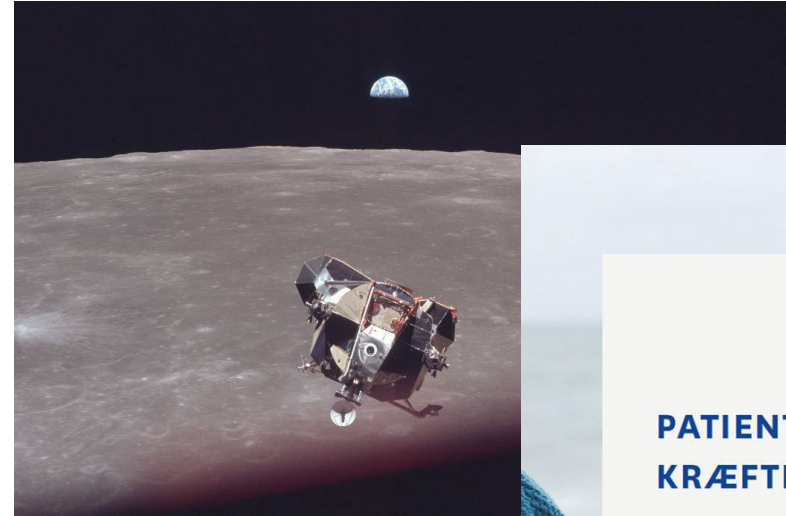




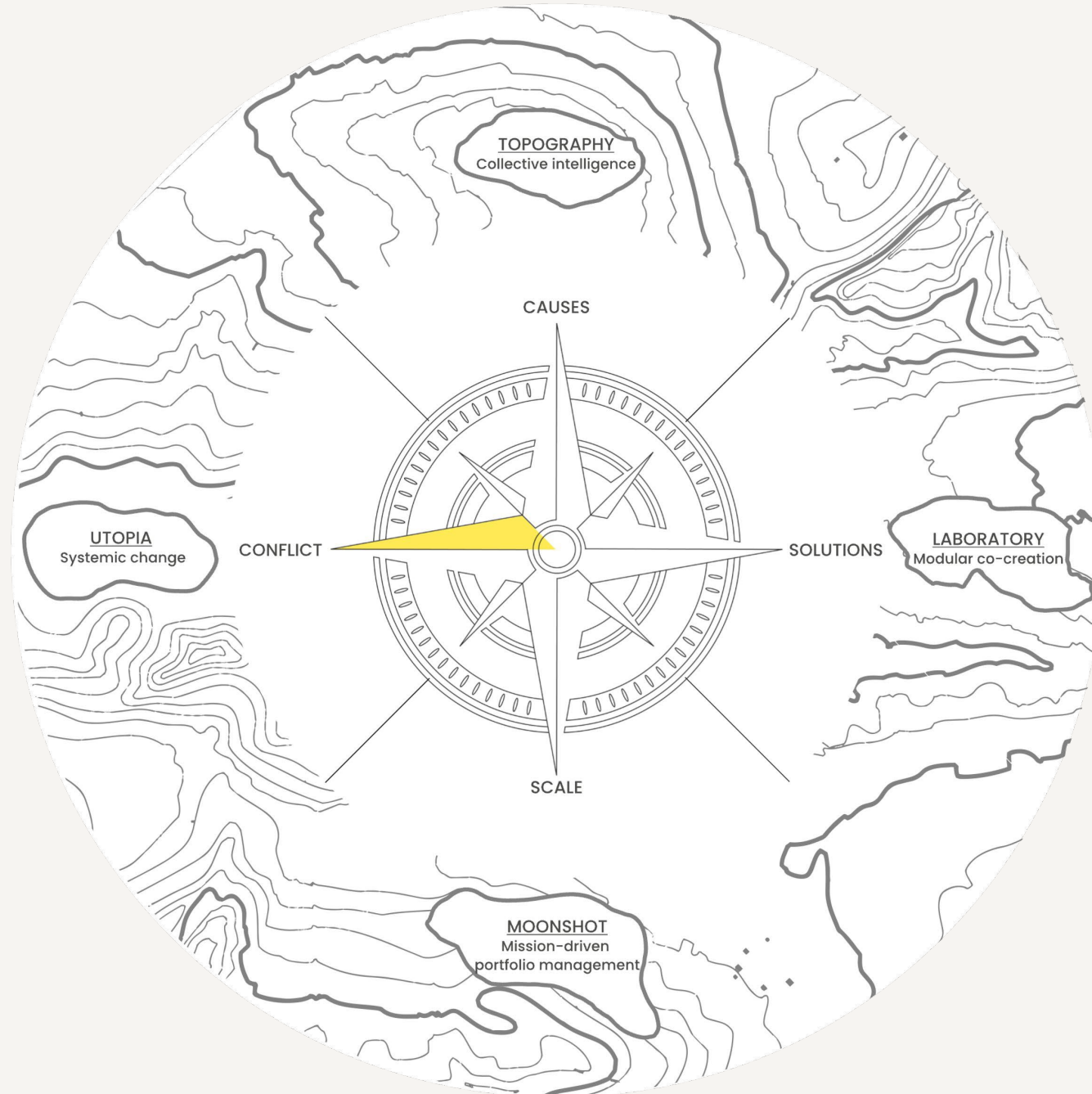
# MOONSHOT

## Mission-driven research portfolio

Portfolio of hypotheses with dynamic resource allocation









# UTOPIA

## Systemic change research

Unfolding the collective imagination –  
searching for leverage points



A detail from Michelangelo's 'The Creation of Adam' fresco. It shows the figure of God, depicted as an elderly man with long, wavy, golden-brown hair and a beard, looking intently at a pair of compasses he is holding in his right hand. The background is a light, textured surface, possibly the original wall or a reproduction. The lighting is soft, highlighting the contours of his face and the texture of his hair.

# Moment of kairos right now in science

Politicians are more humble when facing wild problems... they need research more than ever.

But are you ready?

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# A utopia for a building industry of preservation



Klara Sørensen  
Consultant,  
We Do Democracy



# New report – Toolbox for Future-Proof Construction

- New report with key results from Nordic Sustainable Construction
- Recommendations, learnings, inspiration and output from the five work packages

Is available online here:



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# Nordic Sustainable Construction 2025-2027



# Potential Nordic Construction Collaboration 2025-2027

## Work Package 1



### Climate

#### Suggested tasks:

- Effective implementation and alignment of climate policies for construction
- Innovative needed solutions
- Buildings in a changing climate/weather (how to deal with it and the related risks)

## Work Package 2



### Digitalisation

#### Suggested tasks:

- Digitalisation for LCA regulation
- Data quality
- AI to build better?

## Work Package 3



### EU

#### Suggested tasks:

- Overview EU landscape of initiatives that might impact the built environment e.g. housing, resilience and preparedness
- Communicate and share the knowledge with the Nordic countries
- Analyse initiatives and gather Nordic input to the findings

## Work Package 4



### Circularity

#### Suggested tasks:

- Floor area optimisation, lifetime extension and transformation
- Create standards for reused building products
- Harmonisation and green benefits of selected national annex to the Eurocode
- Improve construction skills

## Secretariat

- Effective implementation
- Internal and external communication and collaboration
- Administration including budgeting and reporting





# Thank you



Ministry of the Environment Finland



Nordic Innovation



Government of Iceland  
Ministry of Infrastructure



Danish Authority of Social Services and Housing



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