



# Spatial Strategy Circular South-Holland

ASSET project meet & learn

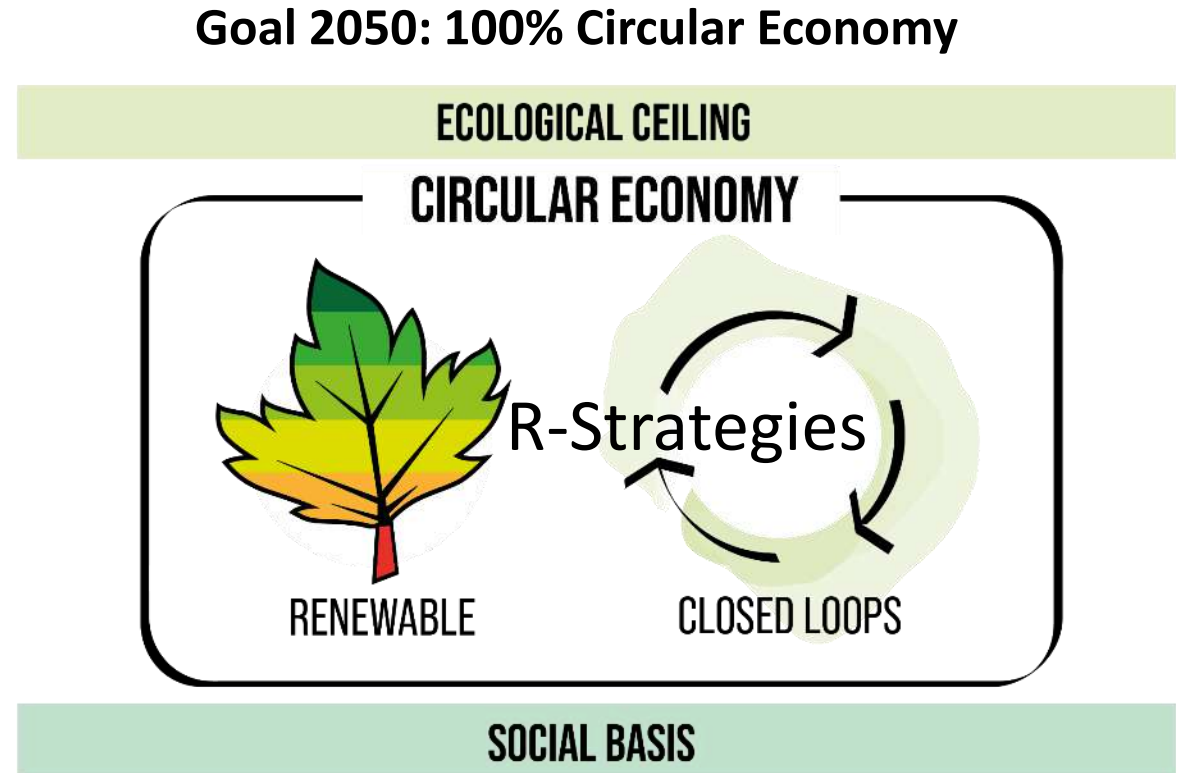
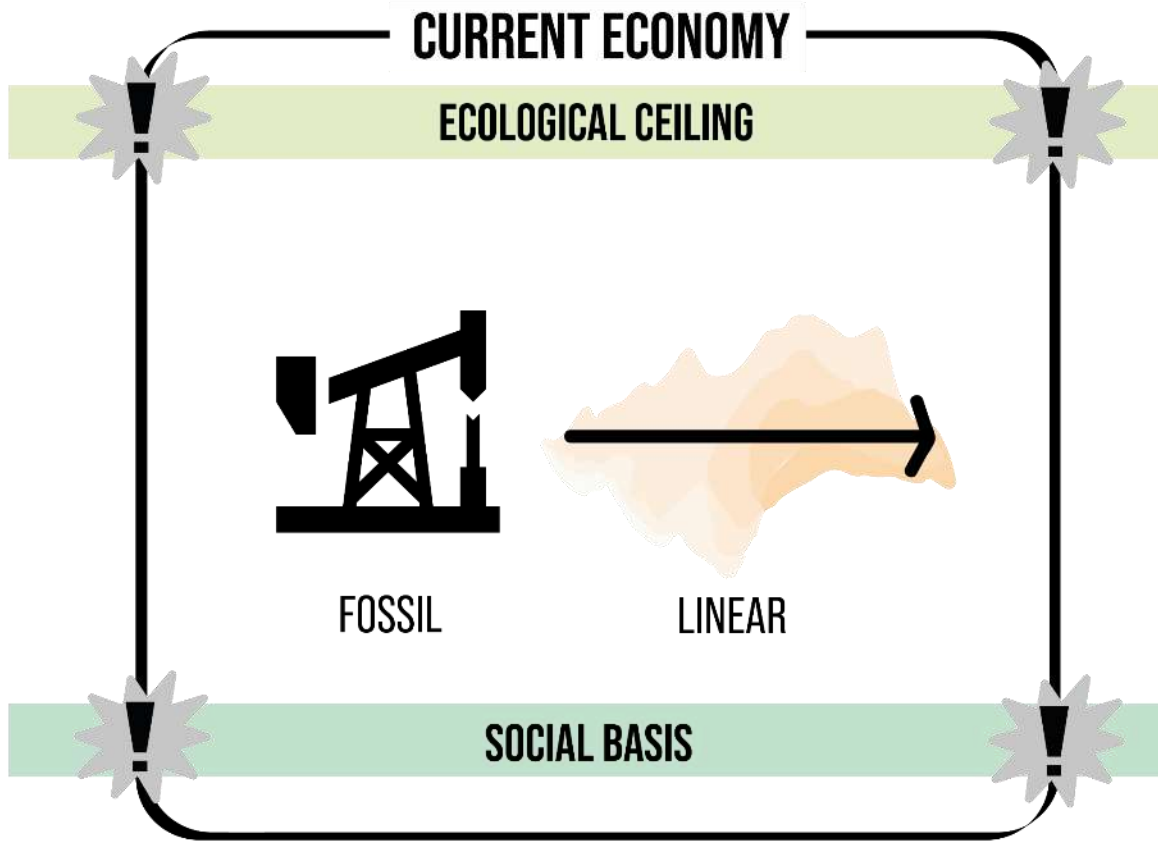
Bart Bomas, BVR

April 5, 2024



Province of South-Holland

# From a linear to a circular economy



# Positive impacts

CHALLENGE:  
CLIMATE CHANGE

CHALLENGE:  
BIODIVERSITY

CHALLENGE:  
ENVIRONMENTAL  
POLLUTION

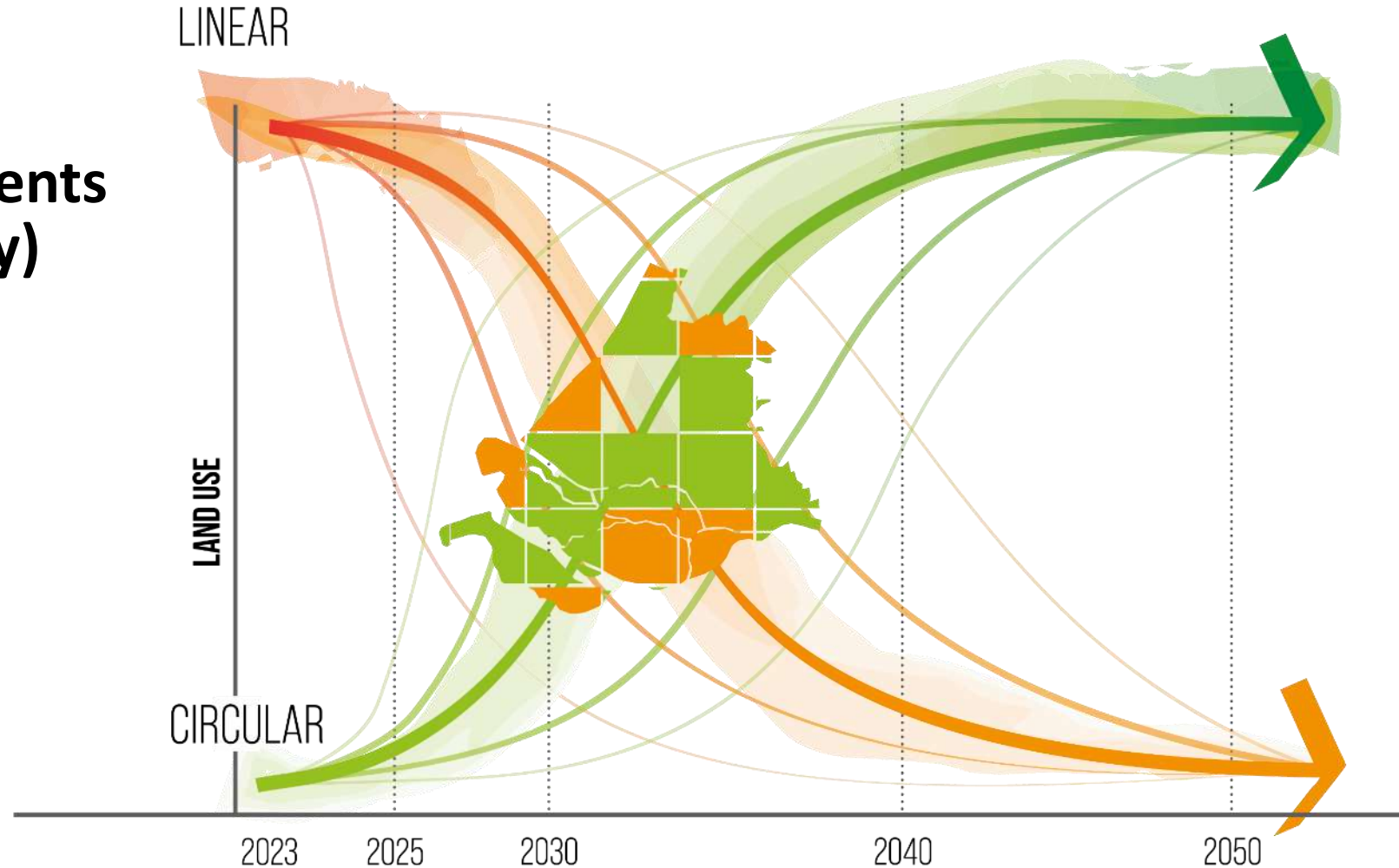
CHALLENGE:  
SECURITY OF SUPPLY



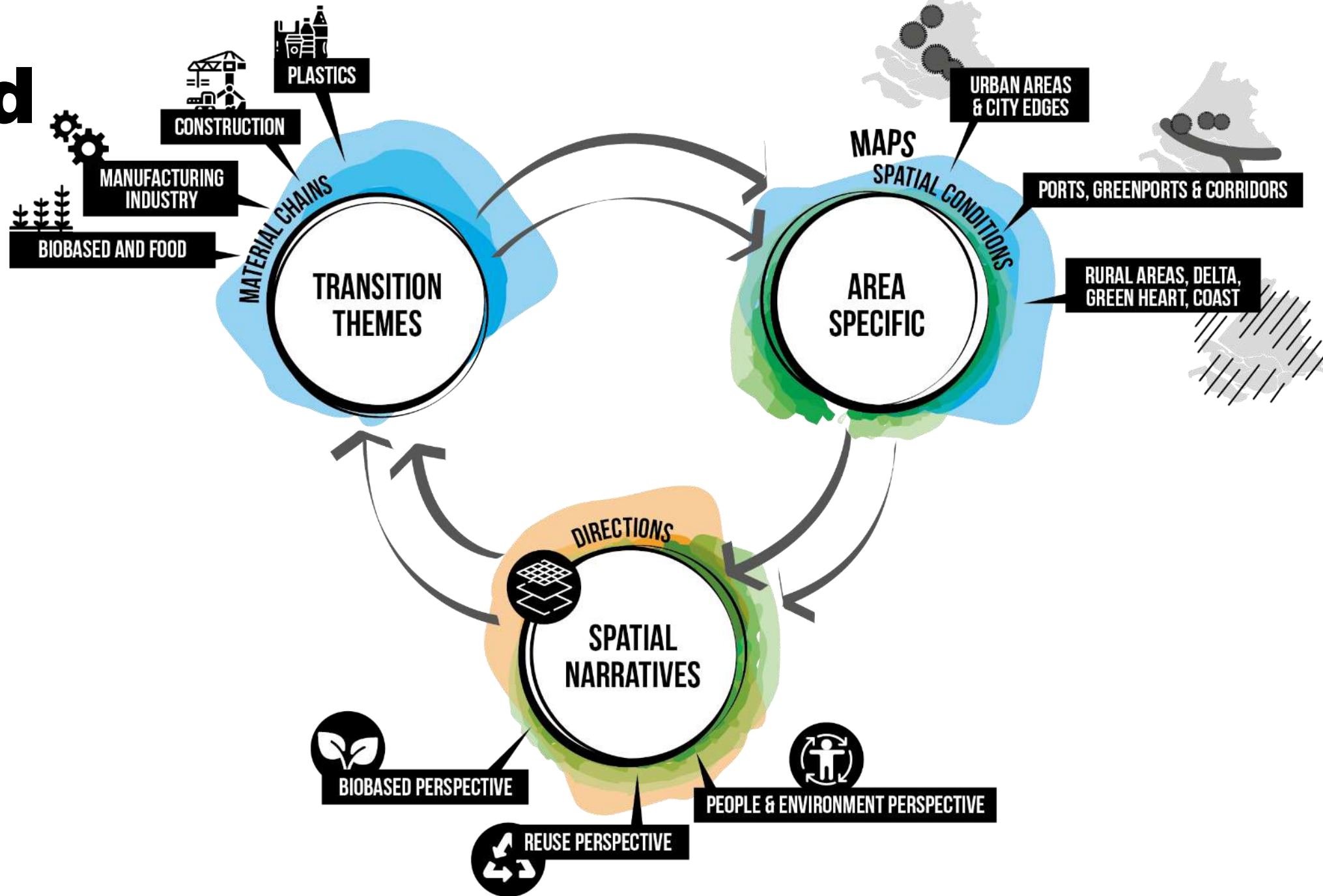
# Transition time

## Space demands

- New building environments
- Reorganizing (secondary) material chains
- Innovative industries
- Systems networks



# Method



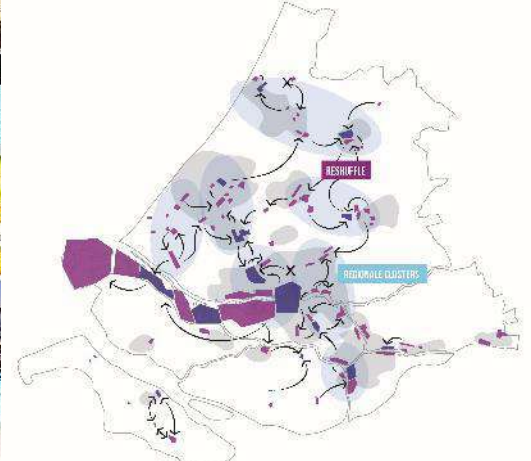
# Uncertainties > research by design



## Workshops

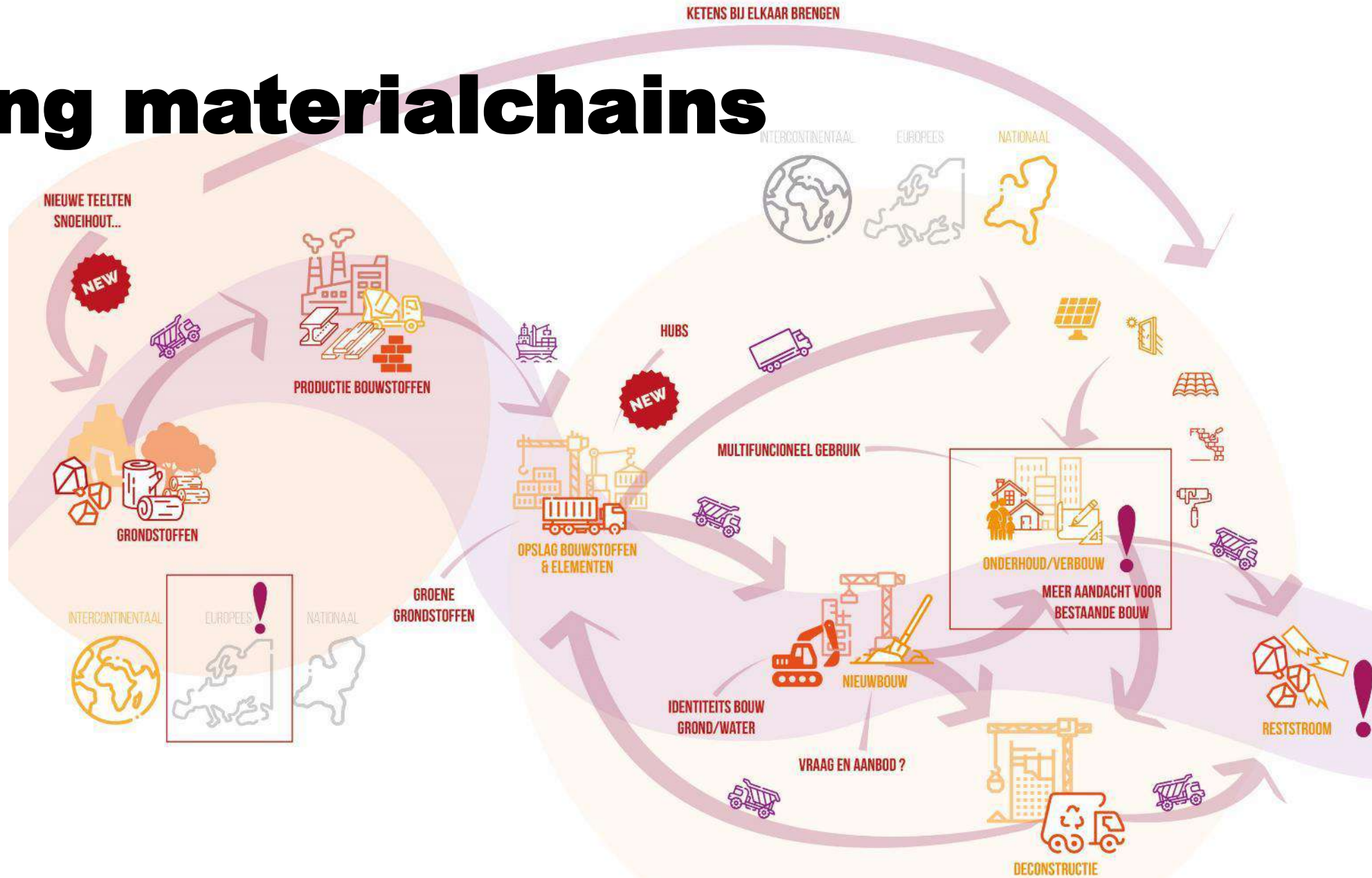


Foto's



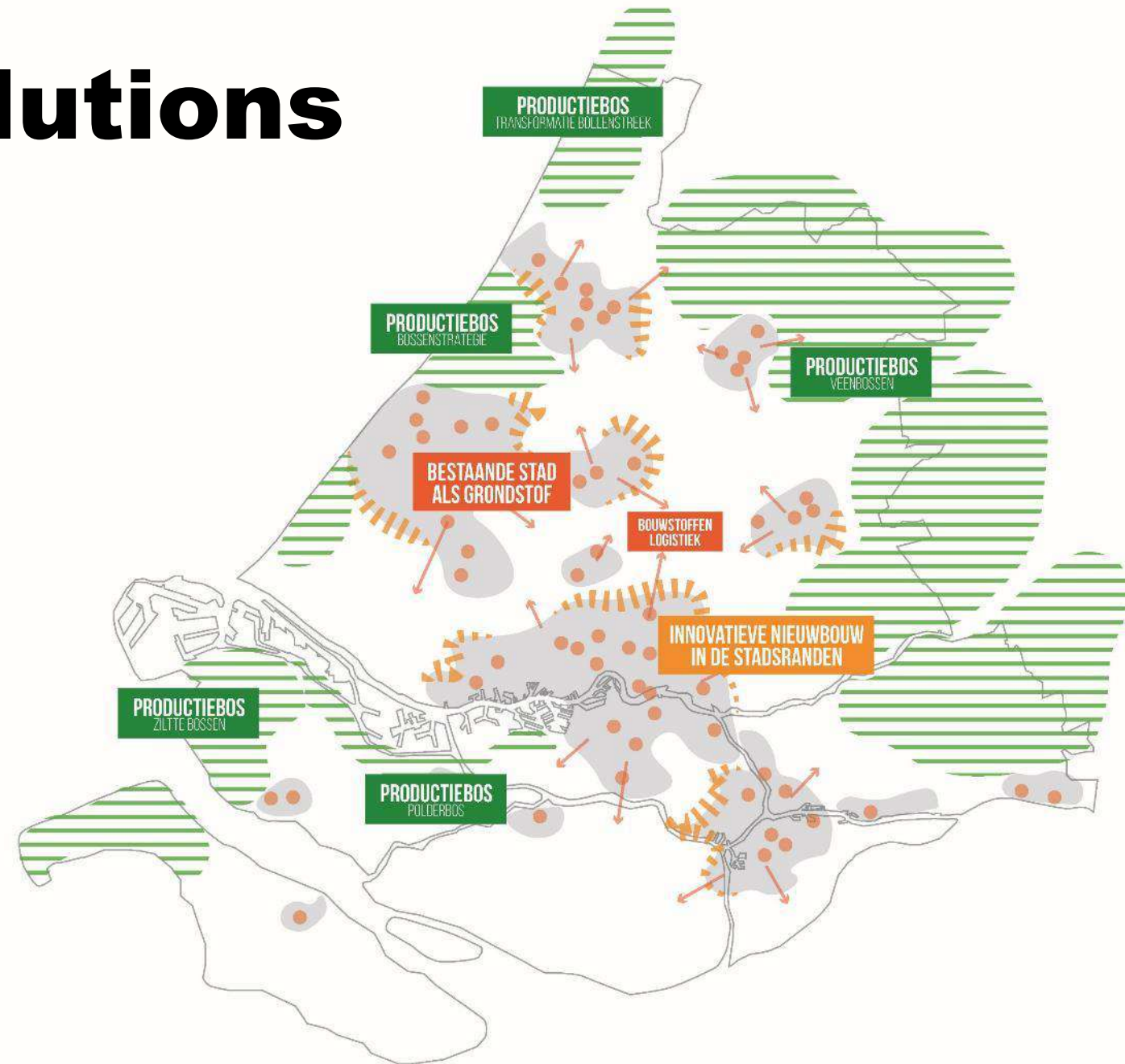
# Analyzing materialchains

- narrowing
- slowing
- closing
- substituting



# Finding local solutions

Different area's: different circular opportunities

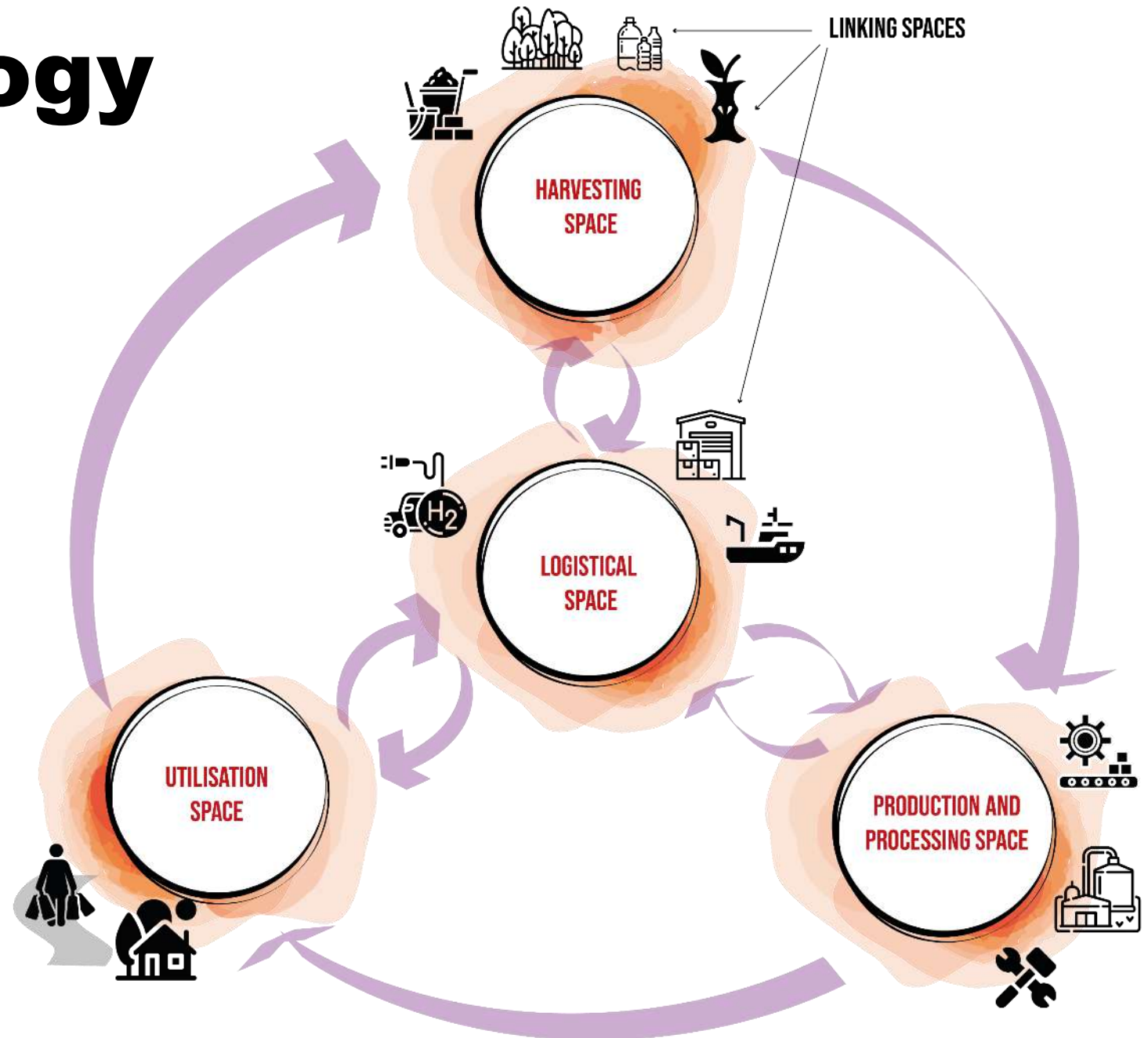




# Space typology

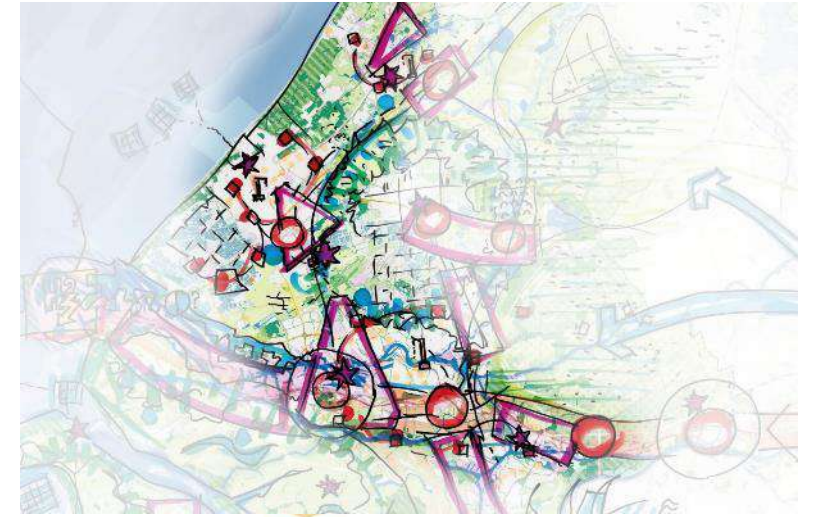
Every material chain demands different types of spaces with their own qualities

‘Linking spaces’



# Integration example

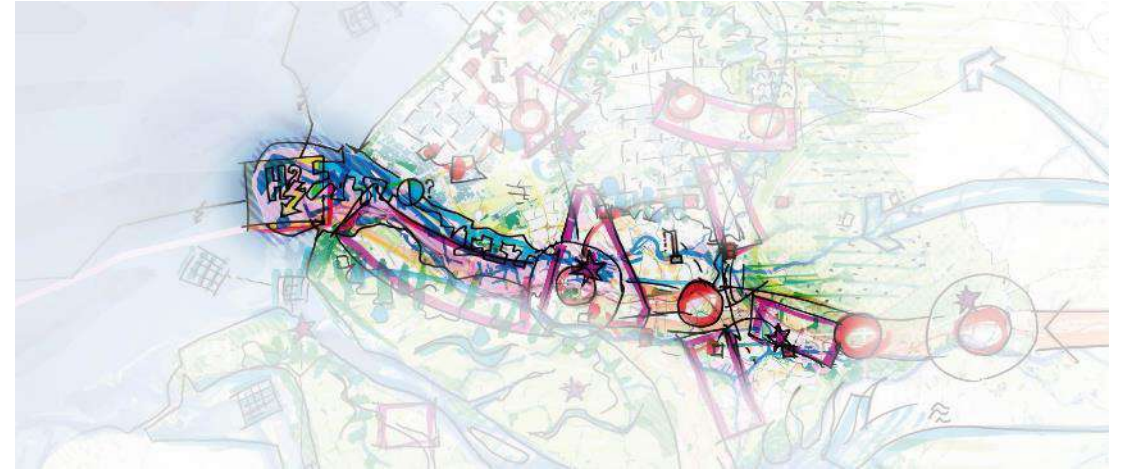
## Circular Urban Areas



- Urban waste to raw materials (incl. wastewater)
- Maximum reuse of construction materials
- Biobased construction materials
- Urban manufacturing industry

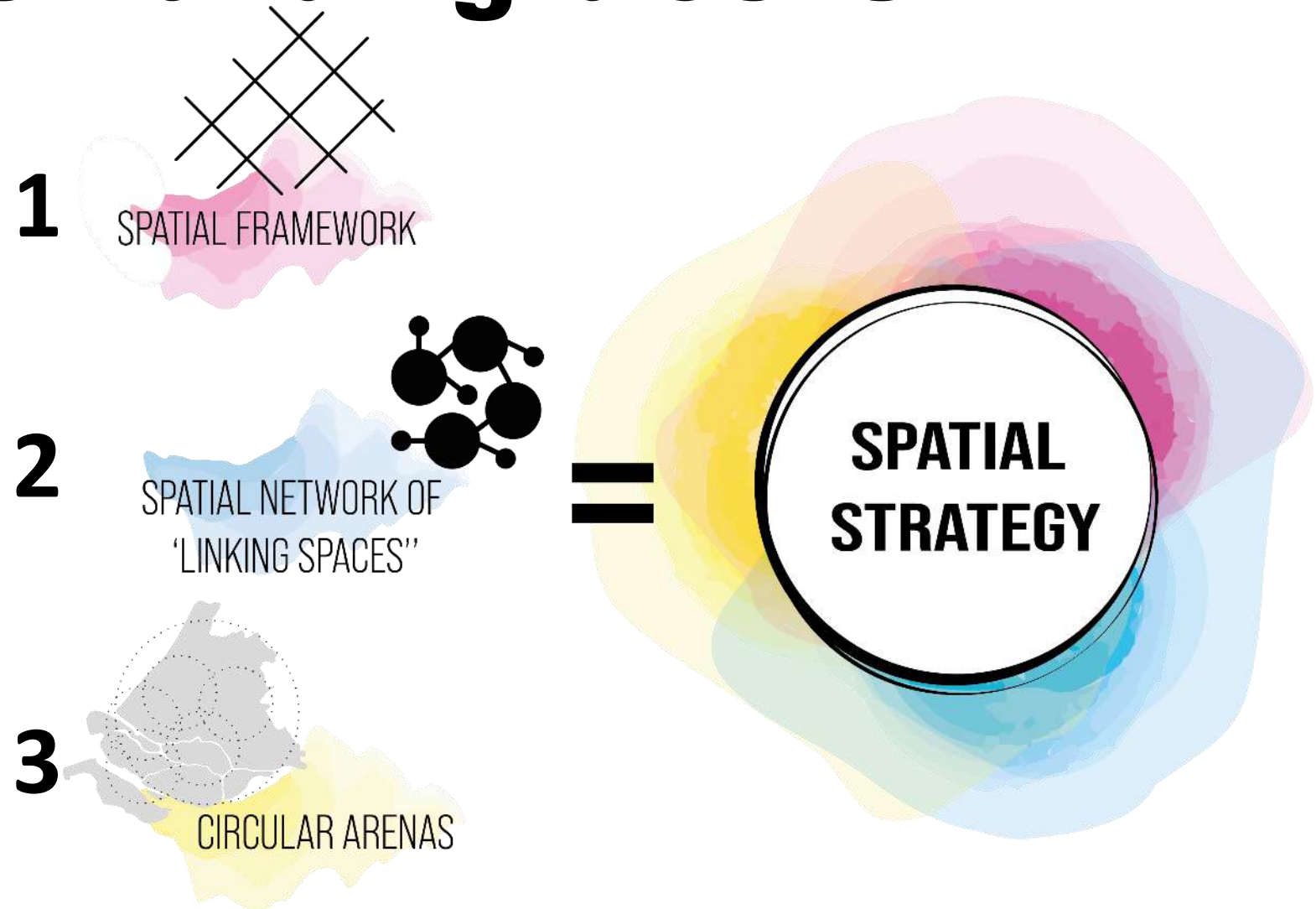
# Integration example

## Circular ports & industries



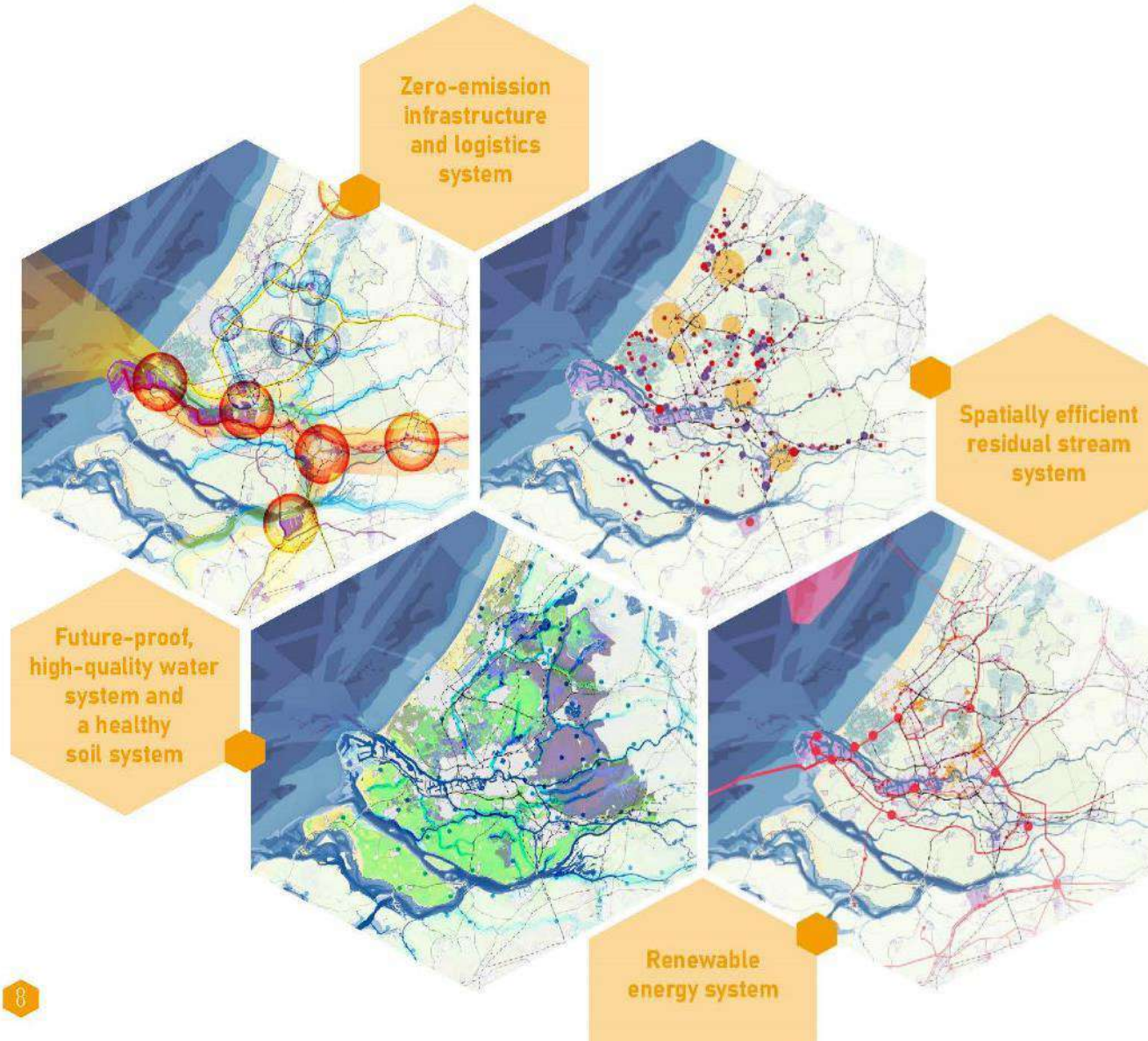
- Circular carbon chains
- Biobased chemicals & industry
- Carbon Capture Utilisation
- Waste to Value plastic waste
- Circular maritime industry (residual streams)

# Strategy: 3 Building blocks



# 1. Framework: essential conditions

Building and strengthening a circular spatial framework



# 2. Linking spaces

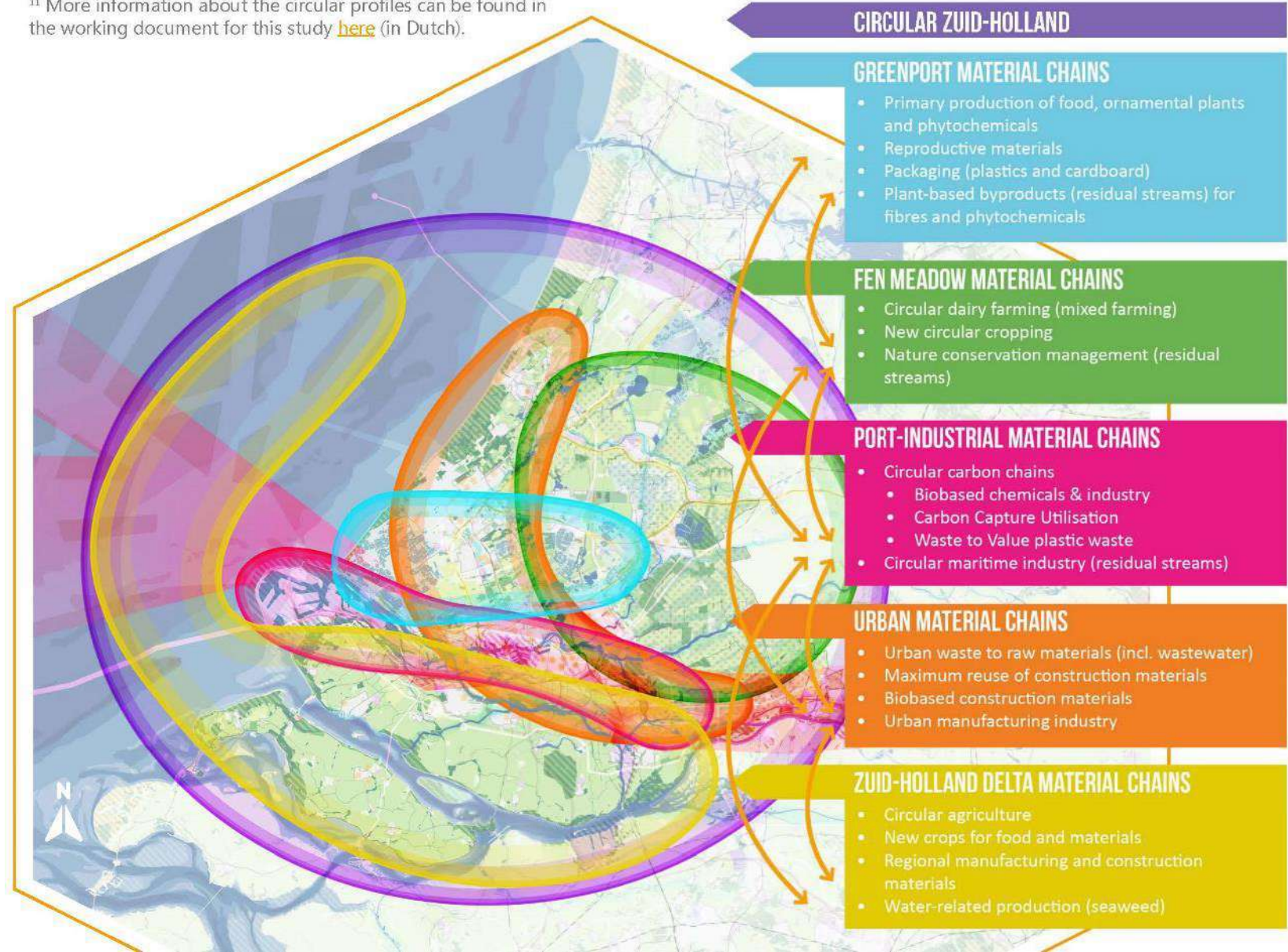
Creating linking spaces to build a spatial network of circular material chains



# 3. Circular arenas

<sup>11</sup> More information about the circular profiles can be found in the working document for this study [here](#) (in Dutch).

**Multistakeholder  
circular arenas for  
dialog and joint action**



# Regional actions: starting a dialog





# Thank you - Questions?

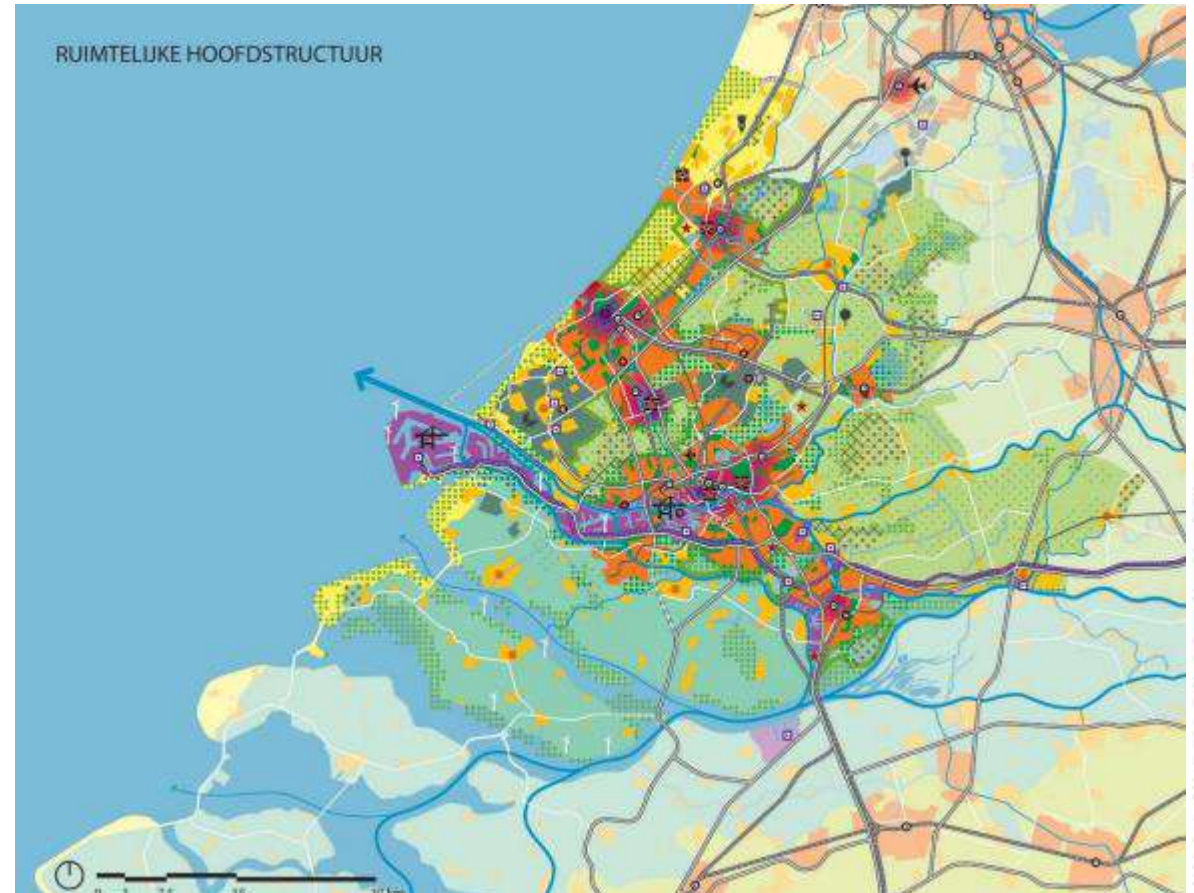
[www.bvr.nl](http://www.bvr.nl)

<https://circulair.zuid-holland.nl/activiteit/ruimtelijke-strategie/>

<https://www.eurometrex.org/asset-a-spatial-strategy-for-the-eurodelta-boosting-a-circular-built-environment-for-interreg-north-west-europe/>

# Spatial Strategy Circular South Holland – policy context

SURE Eurodelta meet & learn April 5, 2024  
Frenk Bekkers, Province of South Holland



# Reason for making Spatial Strategy Circular South Holland

- Development **general strategy circular** SH started in 2017. “Space” became one of 8 building stones
- Provincial **council responsible** for environmental policy, including spatial planning, for South Holland area
- **Guiding principles** council all concern circular transition:
  - Sustainability
  - There is no space for everything in South Holland
  - Spatial quality and maximum added value
  - Societal cost and benefit on short and long term.
- Current environmental vision:

The transition to a circular economy has a spatial need. The province is **exploring** what is needed to ensure that the physical living environment supports the circular economy (text from 2019).

> First solve the knowledge gap



# Elaboration and implementation Spatial Strategy Circular South Holland

1. Provincial level: action program Spatial Strategy Circular South Holland
2. Provincial level: implementation in update environmental policy
3. National level: building stones for coherent strategy on local, provincial and national scale
4. Eurodelta level: ASSET project



# 1. Elaboration provincial level: action program Spatial Strategy Circular South Holland 2024-2027

- Understand crucial linking spaces in circular chains
- Develop and upscale spatial projects in arena's
- Strengthen spatial framework
- Transfer knowledge

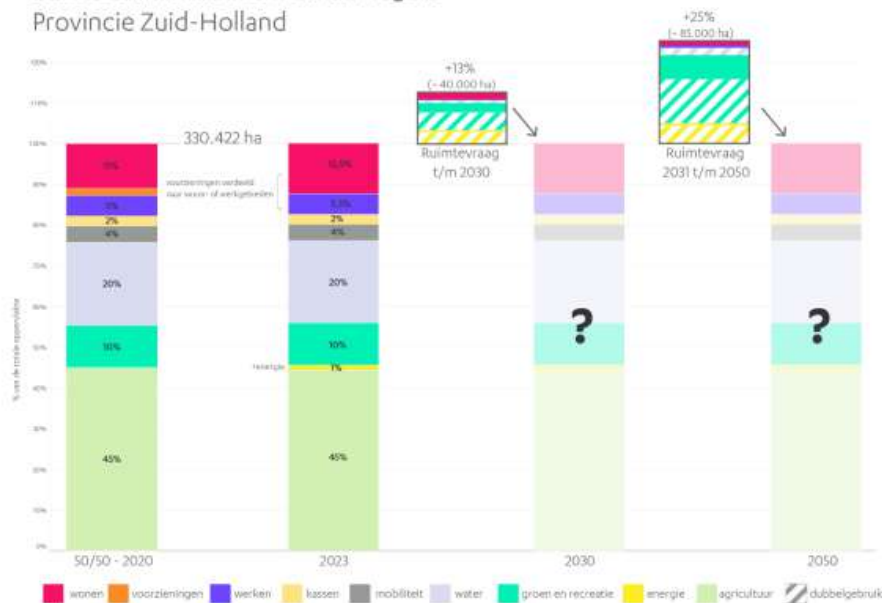


## 2. Implementation provincial level in update environmental policy

For circular transition, recent update of environmental policy (2023) mainly regards **the first building block of the spatial strategy circular SH**: the essential condition: building and strengthening a **circular spatial framework**. Especially: zero emission infrastructure & logistics system and renewable energy system

### 1.4 Nieuwe druk door verschillende opgaven

Eerste aannames voor ruimtevragers  
Provincie Zuid-Holland



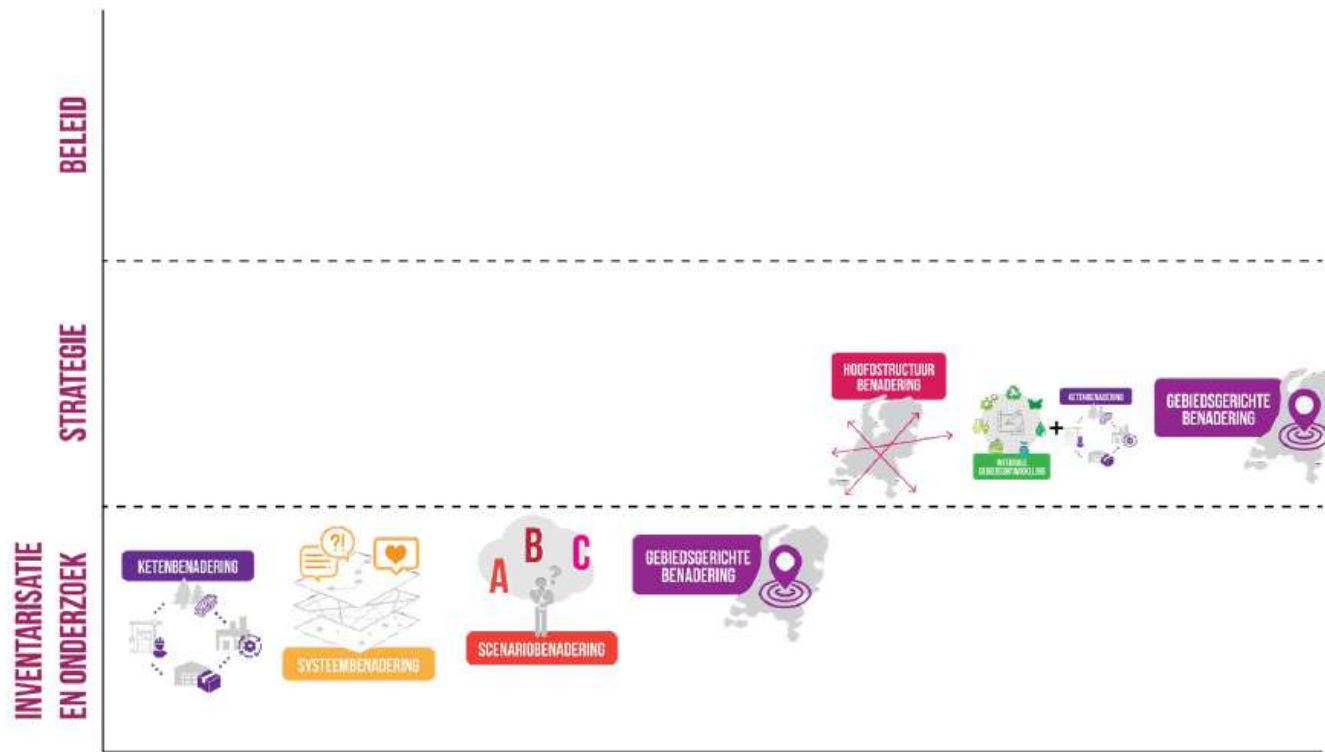
### 3.2.4 Challenges for a circular society

Even though we do not yet know the exact need for space - especially after 2030 - we must **reserve and organize space** in order to be able to respond more flexibly to opportunities and social challenges, both up to 2030 and beyond.

- For national and international goods logistics, continue to rely on existing cooperation in a **corridor** context.
- Bundling **large-scale logistics** in the Port Industrial Complex, the horticultural areas (greenports) and along the East and South corridor and through reserved space;
- Major investment in the **power grid**, including charging points at business parks and in the Port Industrial Complex, truck parking lots, ship charging points and pipelines
- The **Rotterdam port area** faces a major challenge in terms of energy transition and the circular transition, while keeping an eye on the balance with other tasks such as safety and security.
- We are committed to increasing the **capacity of transport** via freight rail, inland navigation and underground pipeline systems. Only in this way can the transport system function in an effective, efficient and clean(er) way;

### 3. Elaboration national level:

building stones for coherent strategy on local, provincial and national scale



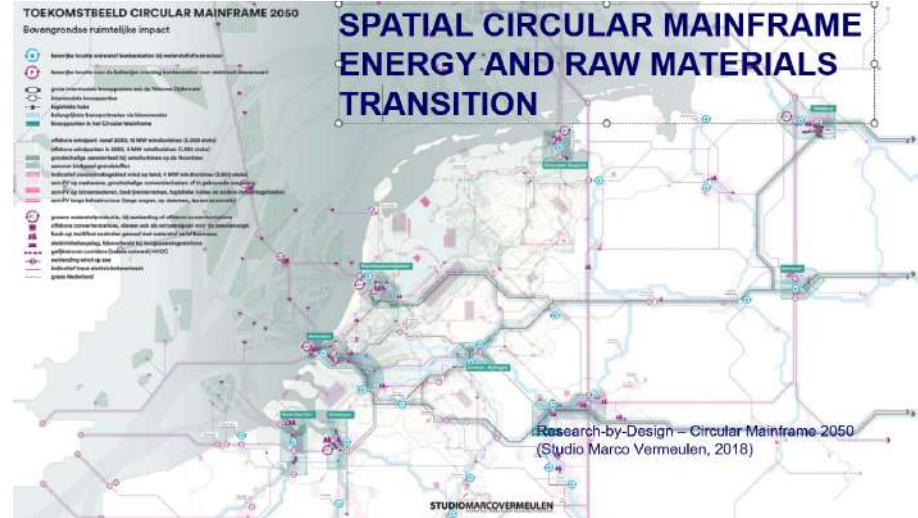
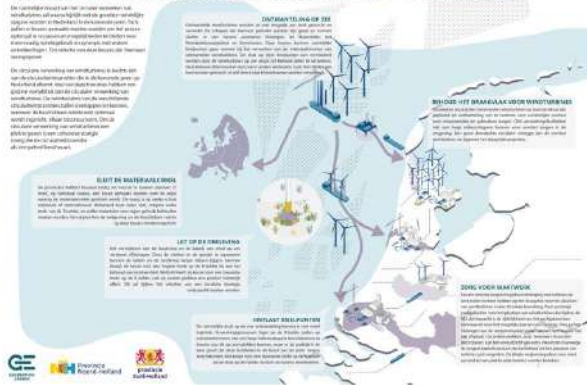
Policy :  
concrete measures, e.g. in selecting companies on business parks: literature and experience still very limited in NL

Strategy:  
main structure approach, integrated area development, chain approach, area-based approach,

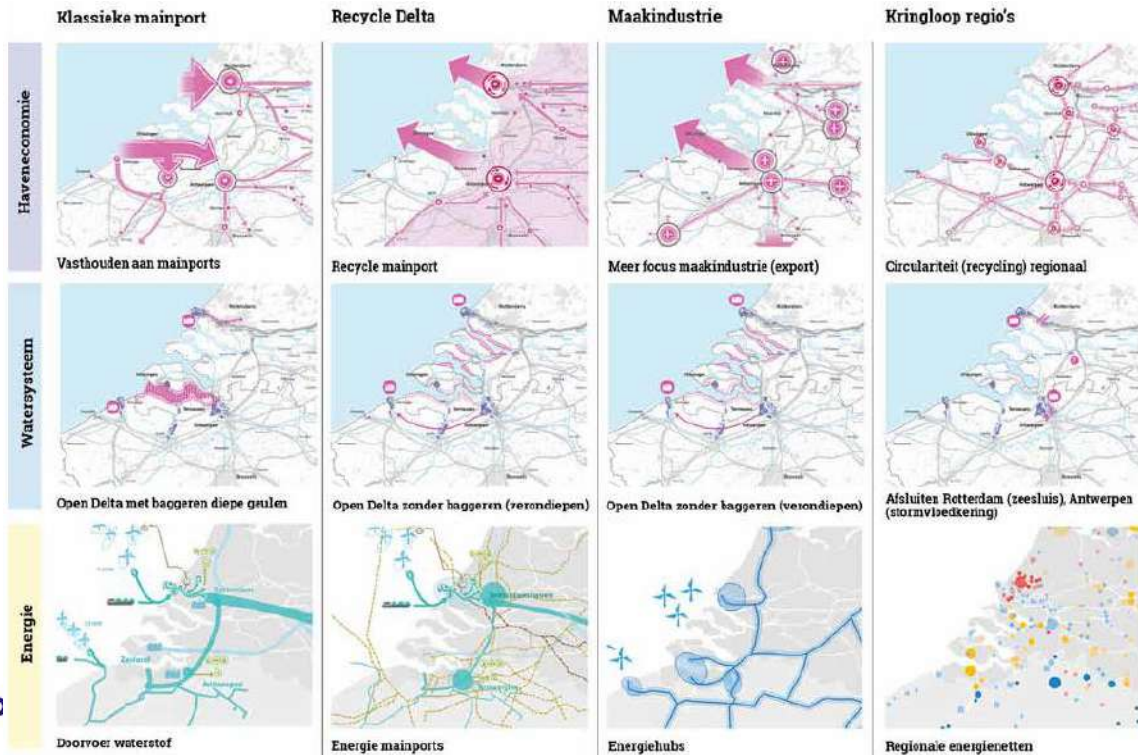
Inventarisation and research:  
chain approach, area-based approach, systems approach, scenario approach

# 4. Eurodelta level: Finding the right scale is an issue – multiscalar strategy required

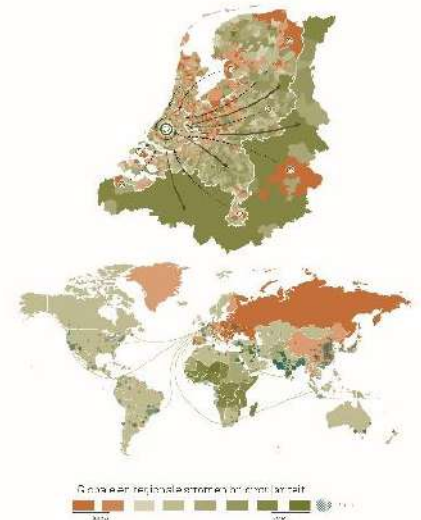
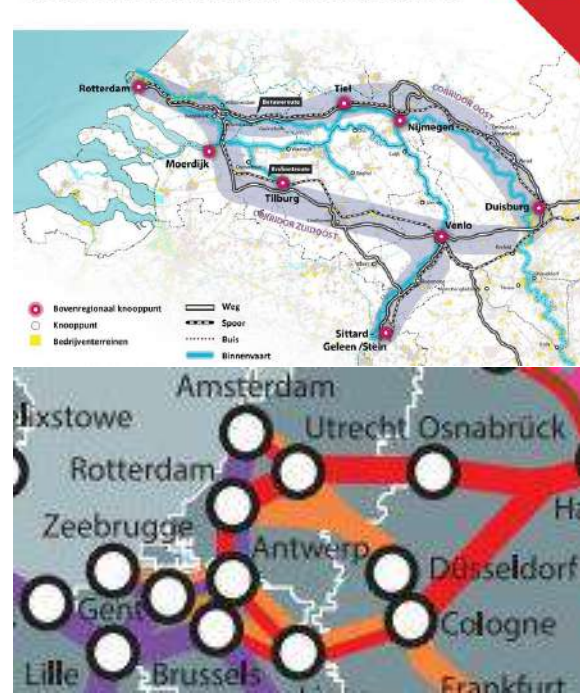
## RUIMTE VOOR CIRCULAIRE WINDTURBINES



Research-by-Design – Circular Mainframe 2050 (Studio Marco Vermeulen, 2018)



## Goederenvervoercorridor Oost en Zuidoost





# ASSET ROADMAP

*A Spatial Strategy for Eurodelta,  
boosting the Transition to circular construction*

Project Partners:



Associated Partners:



# Project Partners

✘ Gemeente  
✘ Amsterdam  
✘



# Associated Partners

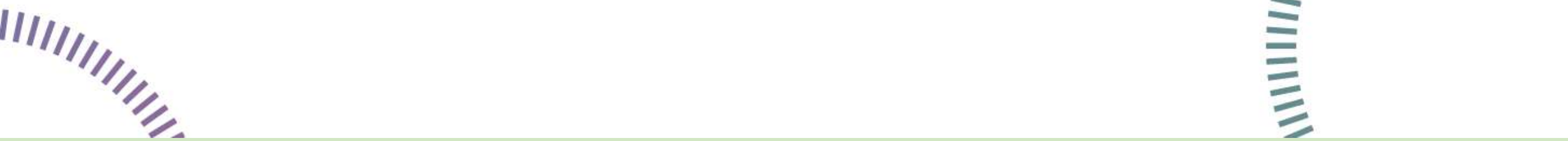


## Project Aim

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The ASSET Project aims to accelerate the transition to a circular economy, particularly within the construction sector.

*However, the prominent problem that this research process will focus on is the lack of space to further enable this circular transition.*



## Project Aim

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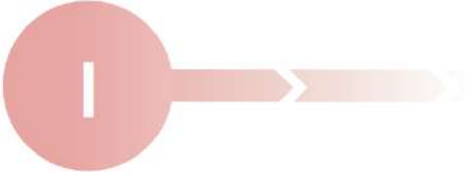
*Therefore, to explore potential solutions, the ASSET project will be working upon answering two main questions:*

**1** How can the stakeholders solve local spatial challenges, by collaborating on the scale of the Eurodelta?

**2** What is necessary to develop a spatial-economic strategy and action plan for the circular transition of the Eurodelta?

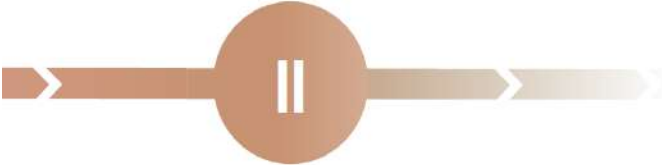


# SHARING KNOWLEDGE



- Inventory and analysis of existing policies on spatial planning and the circular economy (Relevant national, regional and local policies) [Den Haag]
- Inventory, analysis and publication of 3 best practices from each public authorities in Circular Design Atlas [TU Delft]

# UNDERSTANDING CHALLENGES



- One Week Study Trip [Krefeld Business]
- Local and regional workshops [Province South Holland]

# EXPLORING INNOVATIVE SOLUTIONS



- Next Generation Activities [RWTH Aachen University]:
  1. Transforming Cities Region RWTH Aachen
  2. Studio TU Delft
  3. Next Generation Podium

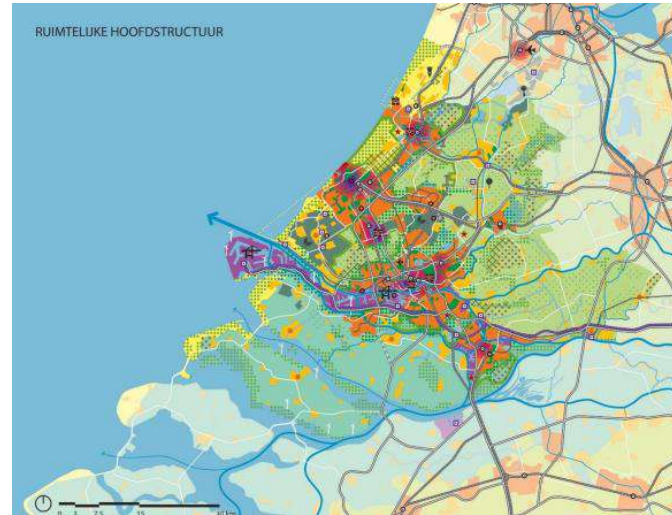
# STRATEGY & ACTION PLAN



- A 3 day Work Conference with associated partners [Duisburg Business & Innovations]
- Final Conference with associated partners [Brussels Environment]

# Spatial Strategy Circular South Holland – policy context

Thank you –  
questions?



## 1.4 Nieuwe druk door verschillende opgaven

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Provincie Zuid-Holland

