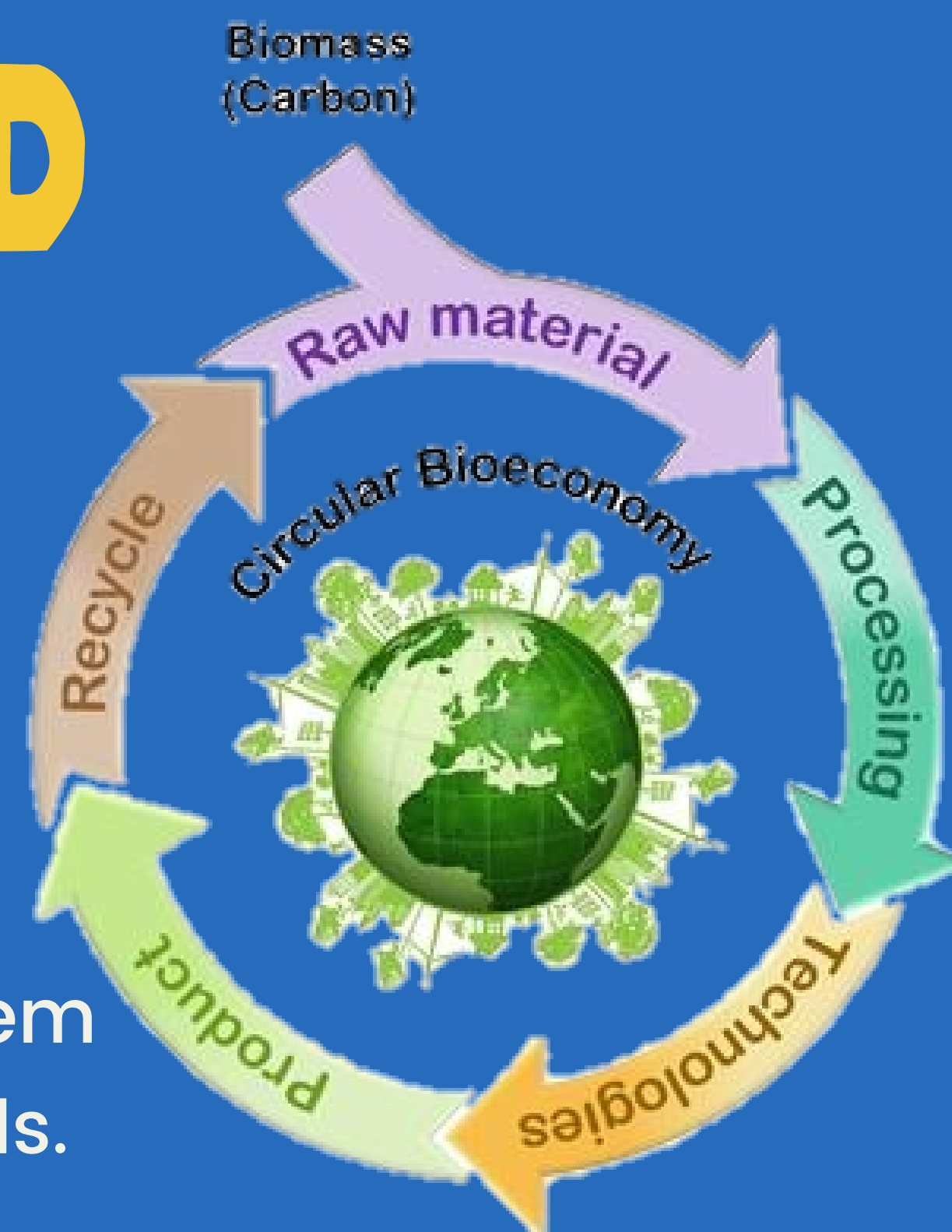
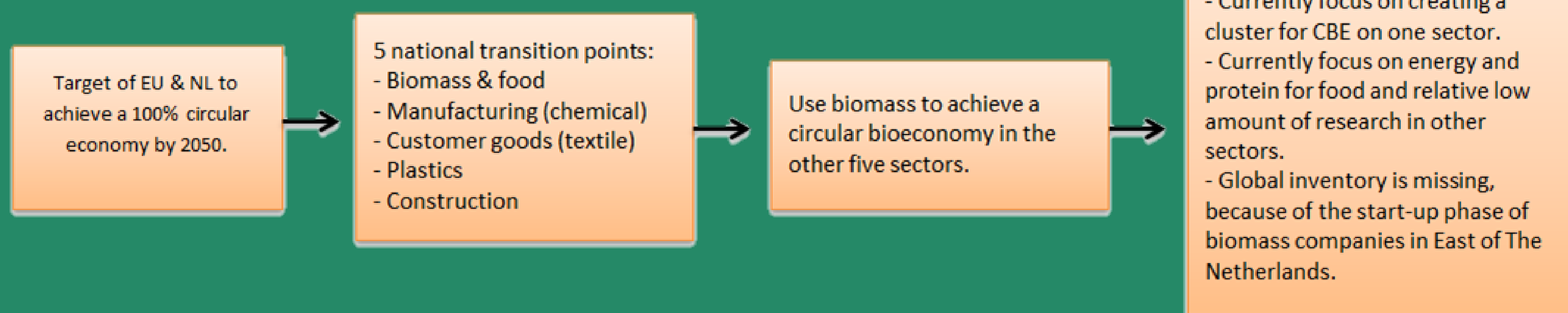


# CIRCULAR BIOECONOMY IN GELDERLAND AND OVERIJSEL

A study about the fitness of the sectors construction, plastic, textile and chemical regarding the entrepreneurial ecosystem to create a circular bioeconomy in the East of The Netherlands.



## RESEARCH AIM & QUESTION

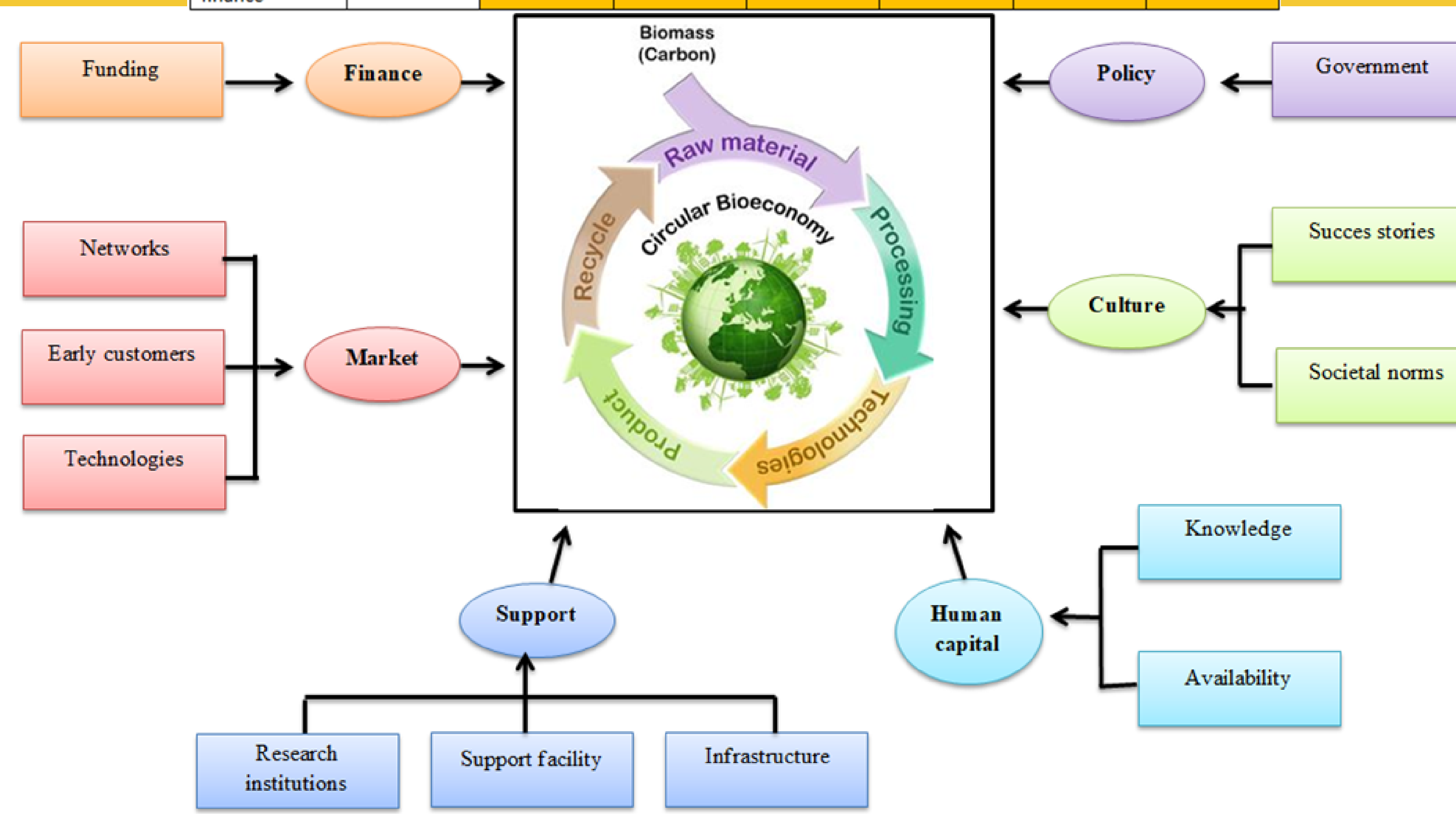


"What is the fitness of the key sectors for the implementation of an entrepreneurial ecosystem to create a circular bioeconomy in the East of The Netherlands?"

## METHODOLOGICAL APPROACH

- Qualitative research with a multiple-case study design.
- The cases: plastic, construction, textile and chemical sector.
- Availability sampling.
- The perspective of each component is at least mentioned in 8 in-dept interviews.
- 24 interviews are conducted in total.
- Appropriateness and consistency is ensured with semi-structured interviews, interview pilots and a member check.

	Interview research institutes	Interview companies	Interview farmers	Interview provinces	Interview support facility	Interview waste management companies	Interview banks
Perspective on policy							
Perspective on culture							
Perspective on human capital							
Perspective on support							
Perspective on market							
Perspective on finance							



Name student: Nienke Wouda

Date: 14-06-2022

Student number: S4841239

E-mail address: n.wouda.1@student.rug.nl

Oost NL

This research is conducted for the company Oost NL. Development agency Oost NL strengthens the regional economy on behalf of the provinces of Gelderland and Overijssel and the ministry of Economic Affairs and Climate by advising SMEs on sustainable innovation and investment.

East Netherlands  
Development Agency



## RESULTS & DISCUSSION

- Same biomass streams can be used for different sectors.

	Construction	Plastic	Textile	Chemical
Policy	Barrier	Driver	Barrier	Barrier
Culture	Both	Barrier	Barrier	Barrier
Human Capital	Barrier	Barrier	Barrier	Barrier
Support	Barrier	Driver	Barrier	Barrier
Market	Barrier	Barrier	Barrier	Barrier
Finance	Barrier	Barrier	Both	Both

## CONCLUSION



## RECOMMENDATION

From pioneers phase to next phase:

- Establish a policy roadmap per sector with clear targets for 2030 and 2050.
- Provinces should cooperate more with each other.
- Establish an industry to create larger supply chains. Farmers get the chance to establish themselves. Companies have a guaranteed supply and economy of scales, which results in cheaper biobased products on the market. Oost NL can help with this by networking.
- Oost NL can support start-ups to growth to scale-ups by developing a new funding program.

### Contributions to theory

- Contribution to currently relative low amount of research about biomass on the key sectors.
- Contribution to current research by investigating the opportunities of creating a CBE with multiple sectors instead of one.

### Contributions to Oost NL

- Connection between department food and circular economy.
- Recommendation about the fitness of the key sectors and how Oost NL can facilitate in scaling the opportunities up and lowering the barriers to create an EE and CBE in the East of The Netherlands.

### Contributions to society

- A step closer towards an EE and CBE in the East of The Netherlands.
- Sectors can learn from each other and cooperate together to create a CBE.