

## Research Centre

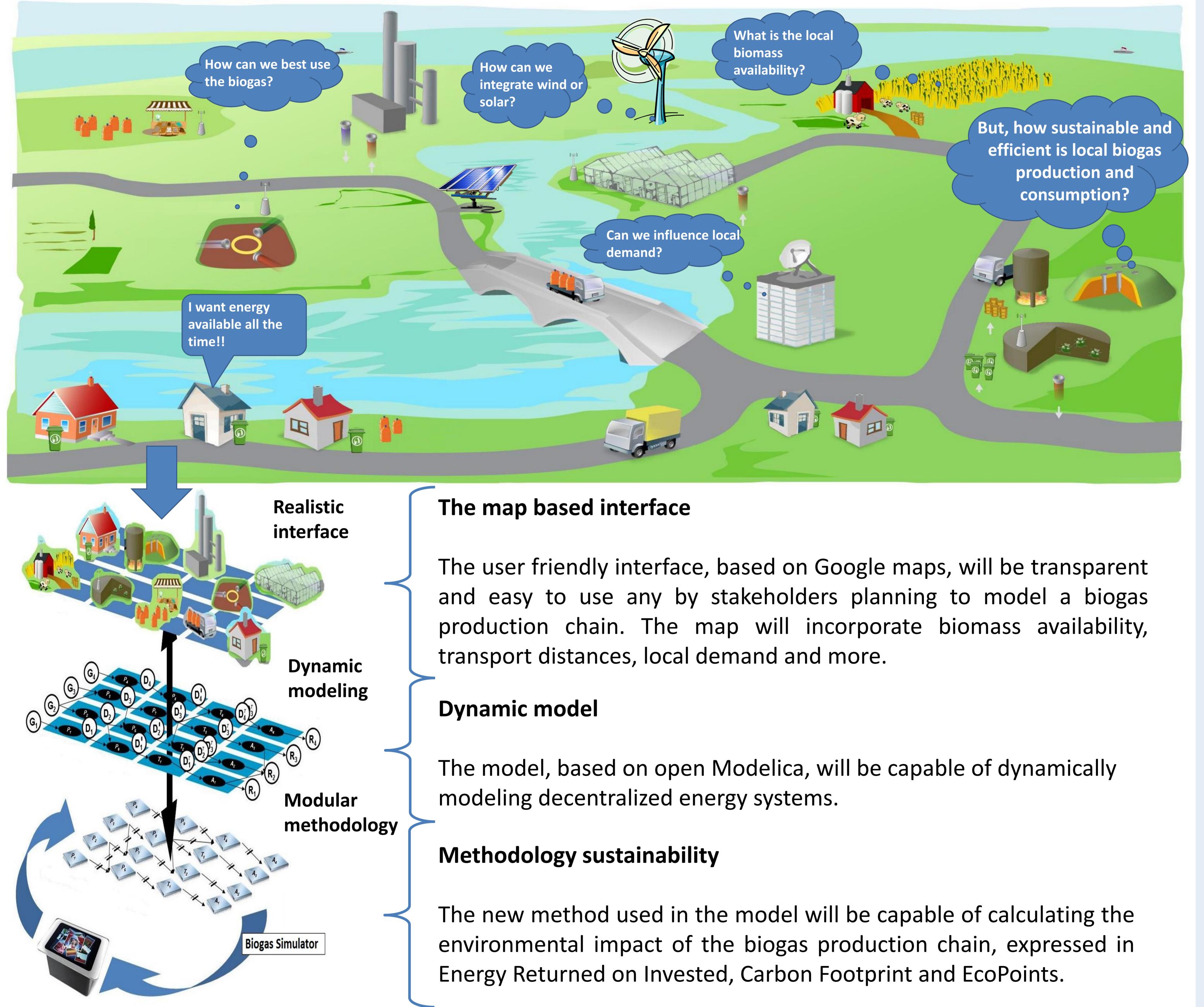
## HanzeResearch University of Applied Sciences

Energy

# Modeling decentralized energy systems

Energy

A tool for analyzing, researching and modeling energy efficiency, sustainability and flexibility of biogas chains operating as load balancer within decentralized (smart) energy systems.

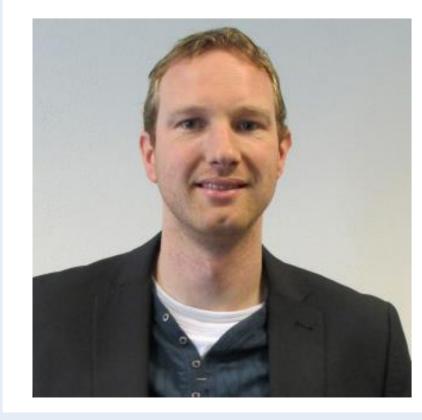


## Biography

### Results

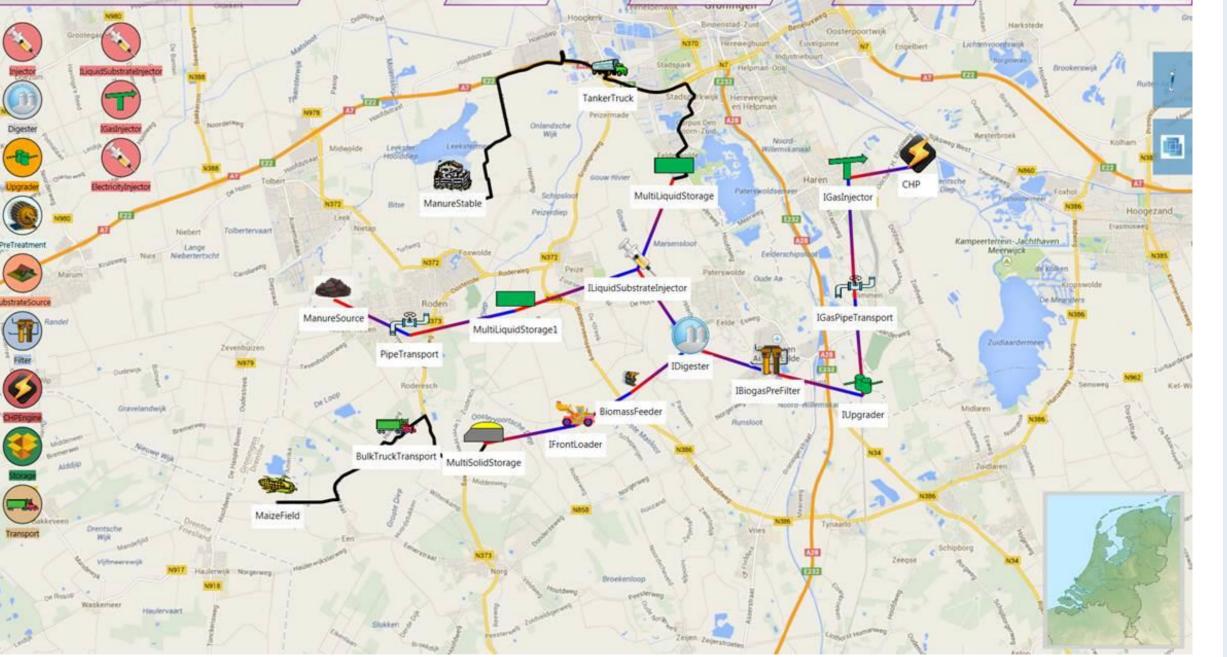
### PhD. Researcher:

### Frank Pierie MSc. B Eng



Currently, Frank is a PhD researcher at the Hanze University of Groningen. He graduated from the Hanze University with a B Eng. and holds a MSc. in energy and environmental sciences from the University of Groningen. He previously worked at Philips as a process engineer focused on sustainability.

- Map based model with transparent  $\bullet$ game like interface
- Realistic biogas production chain design including local feedstock availability, energy demand and actual transport distances
- Results indicated in costs  $\bullet$ and environmental impacts





Ministerie van Economische Zaken, Landbouw en Innovatie

