

# Energy communities: What can be achieved?

*Exploring the role of energy communities in sustainable local energy systems*



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# Energy communities; What can be achieved?

Workshop agenda:

1. Presentation: The role of energy communities in local energy systems (20 min)
2. Presentation: Meet energy community Schoonschip (20 min)
3. Presentation: Meet energy community Republica (20 min)
4. Fishbowl discussion on upscaling energy communities with speakers and participants (30 min)

# Icebreaker; who are you?

## What interests you most about energy communities?

# What role can energy communities play in local energy systems?

Today's focus:

1. What is an energy community and how do they differ from energy companies?
2. What energy activities can they engage in, and what value can communities create through energy activities?
3. What impact will they have on future energy systems?

# Energy community vs energy company

**What do you think are the most important characteristics of an energy community?**

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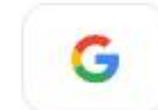
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# What are ECs in EU legislation?

Art. 2 (11) (Directive 2019/944)

'citizen energy community' means a **legal entity** that:

(a) is based on **voluntary and open** participation and is **effectively controlled by members** or shareholders that are natural persons, local authorities, including municipalities, or small enterprises;

▪ **Governance**

(b) has for its primary purpose to **provide environmental, economic or social community benefits** to its members or shareholders or to the local areas where it operates rather than to generate financial profits; and

▪ **Purpose**

(c) may engage in **generation**, including from renewable sources, **distribution, supply, consumption, aggregation, energy storage, energy efficiency services** or charging services for electric vehicles or provide other energy services to its members or shareholders;

▪ **Activities**

# What makes them different?

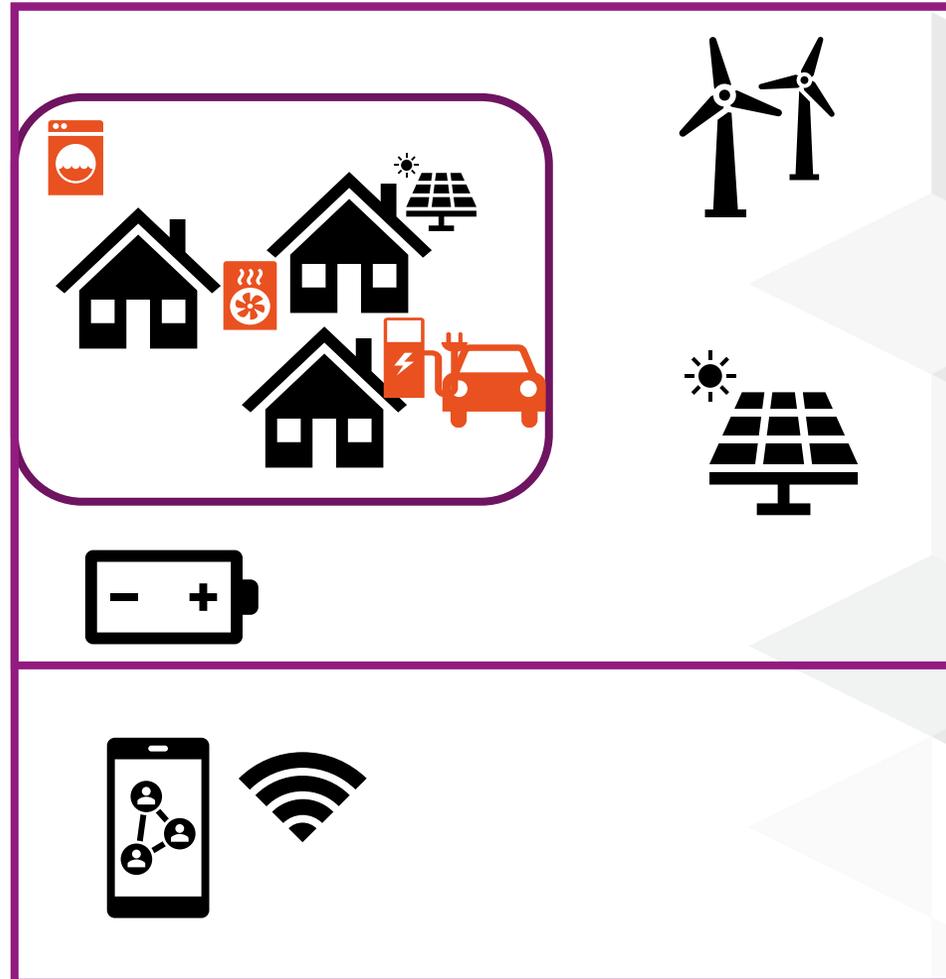
Energy communities are not different because of what they do;

What makes them different is:

**Who does it, how they do it, and the value they create through it.**



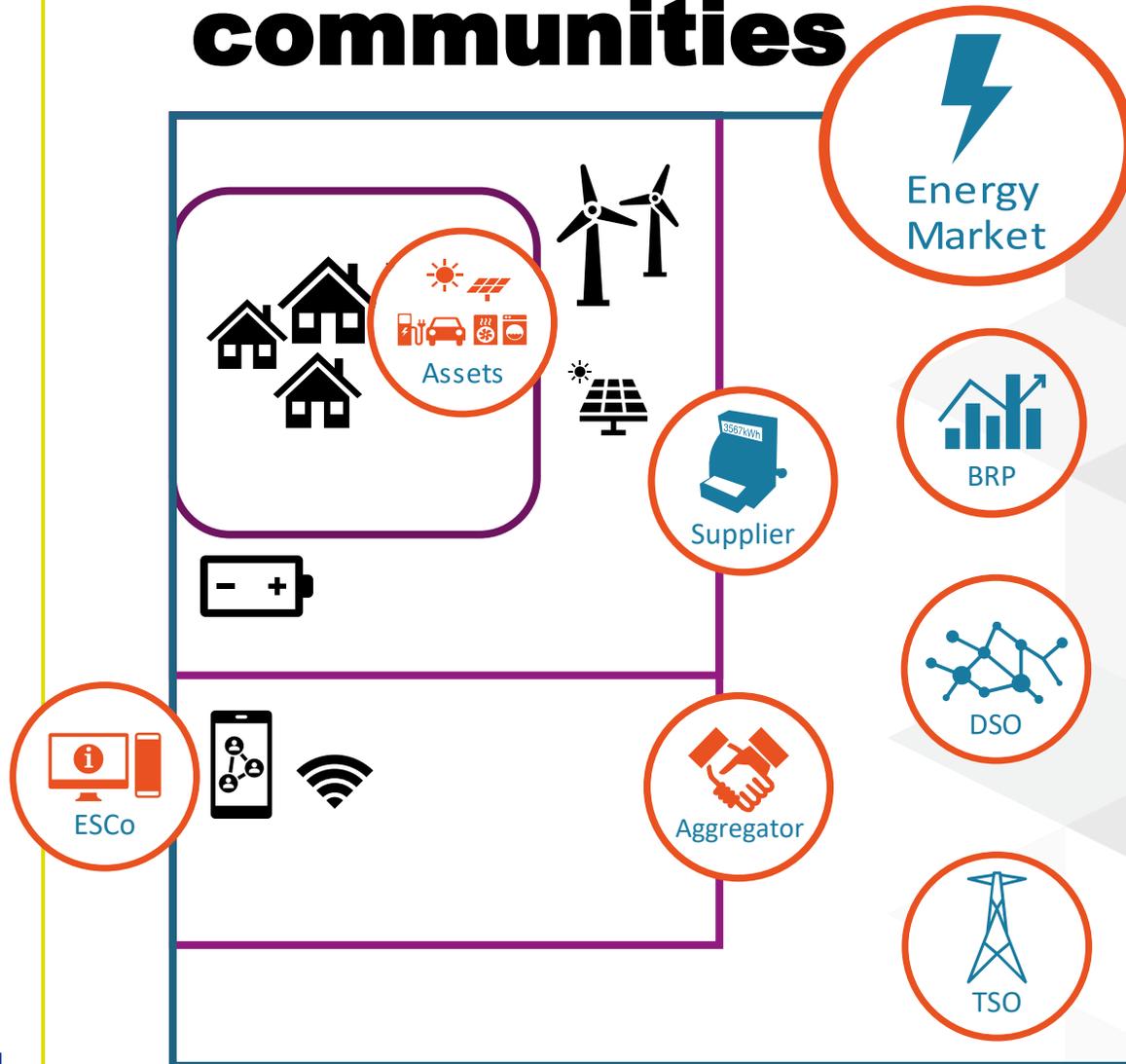
# Wide range of energy communities



## Energy community as

1. Developer of assets & owner of assets
2. Providing knowledge on the use of assets/ energy monitoring
3. Producer that sells to a market participant
4. Smart: energy community supports passive (behind the meter) steering (implicit flex)

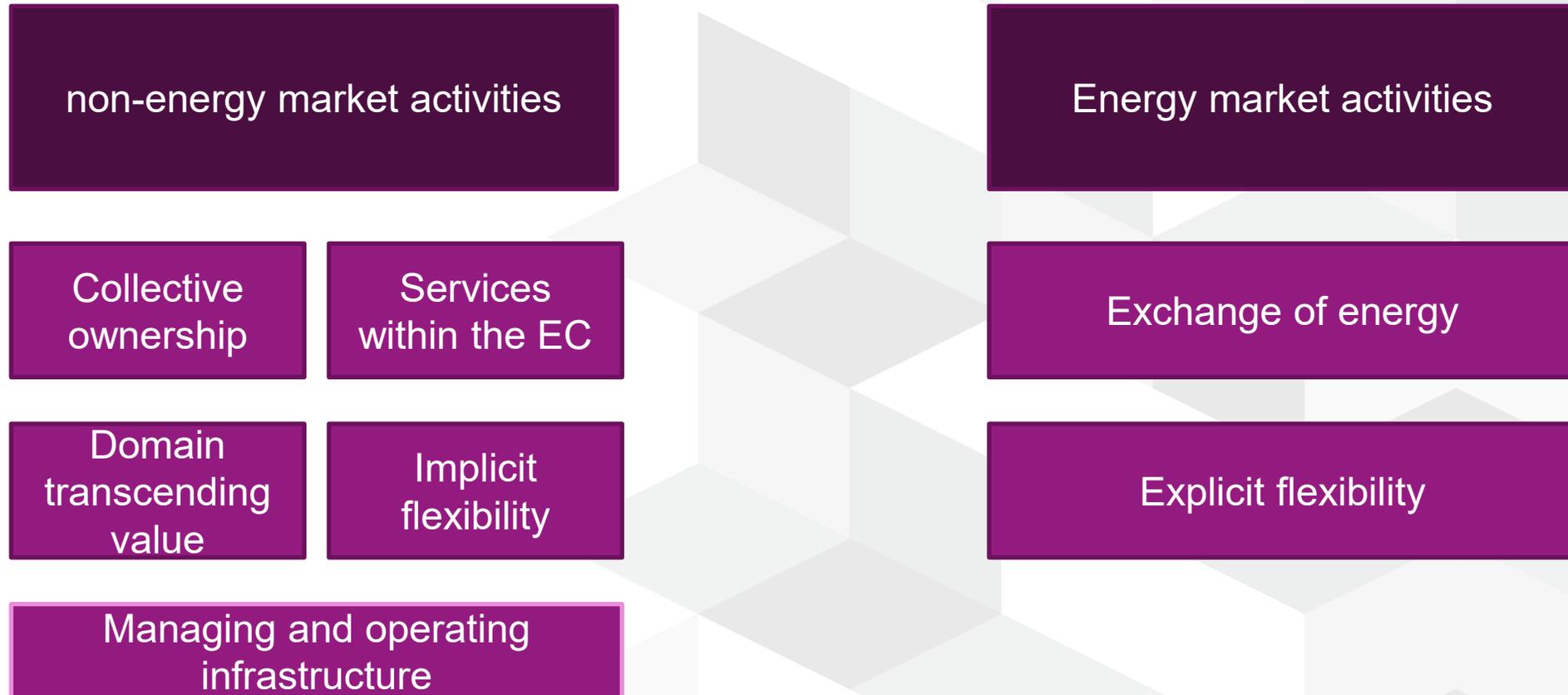
# Wide range of energy communities



## Energy community

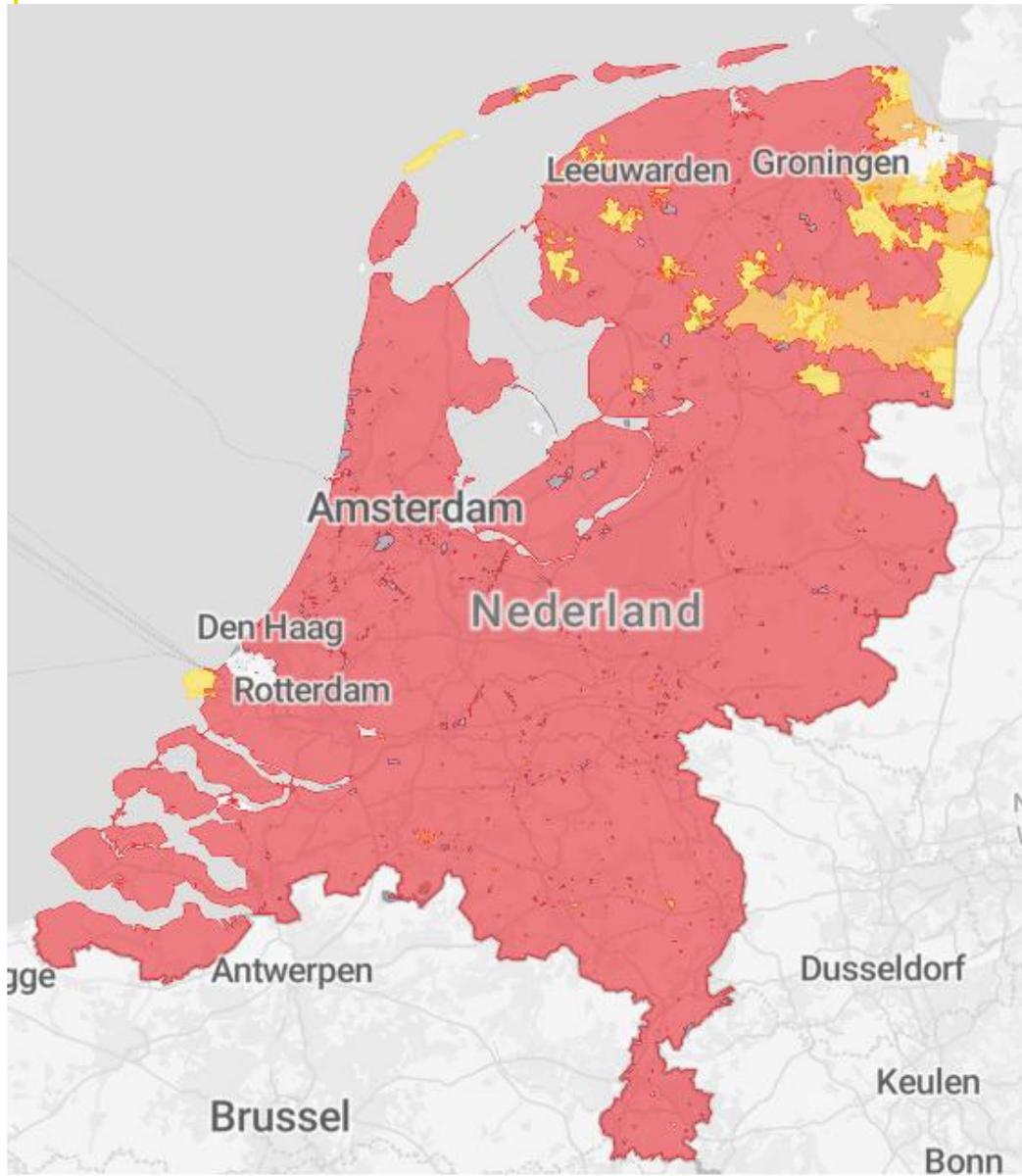
1. Supports peer 2 peer trading
2. Supports energy sharing
3. Sells energy to their members
4. Is a demand response aggregator or sells flex to demand response aggregator

# Activities

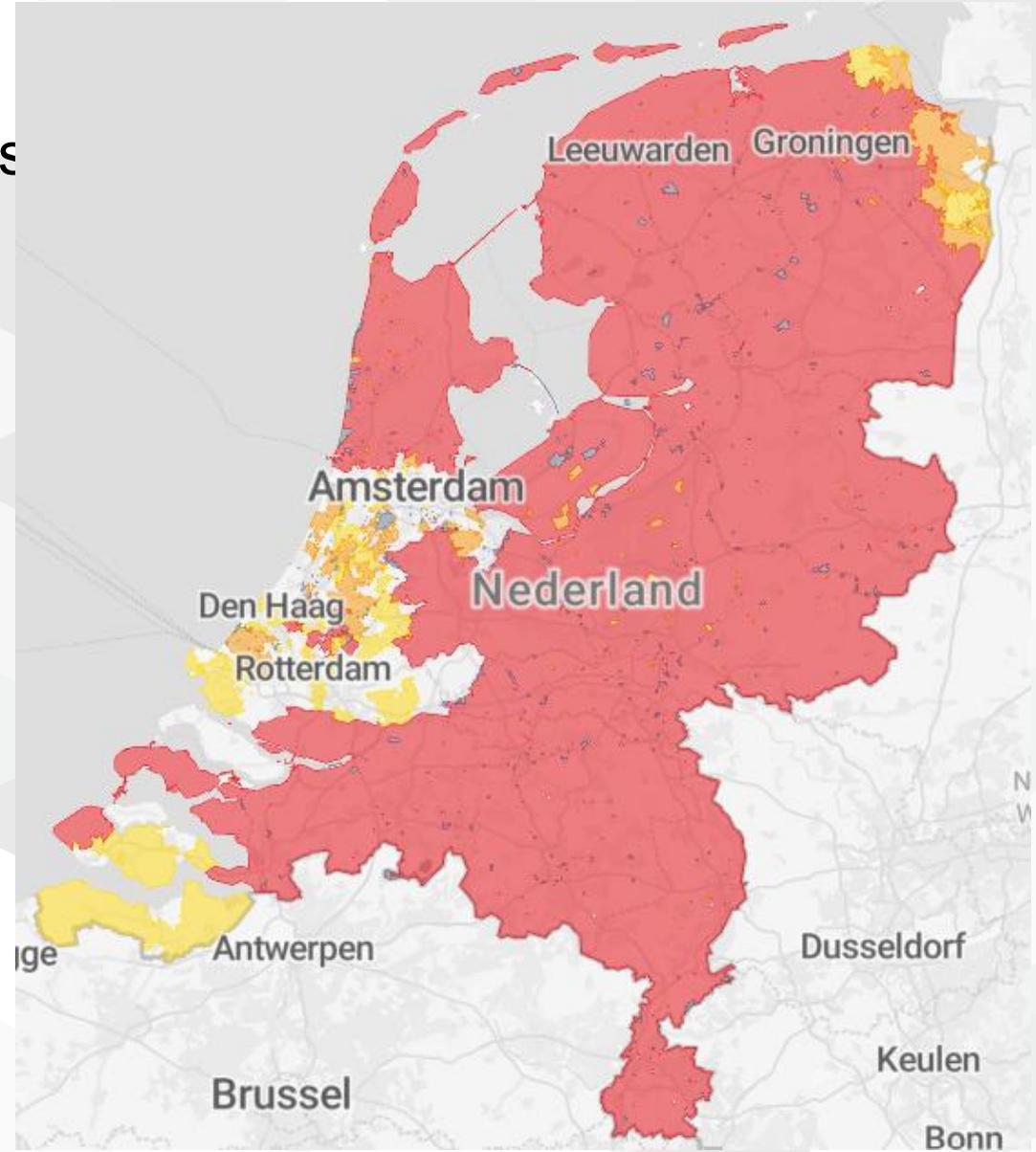


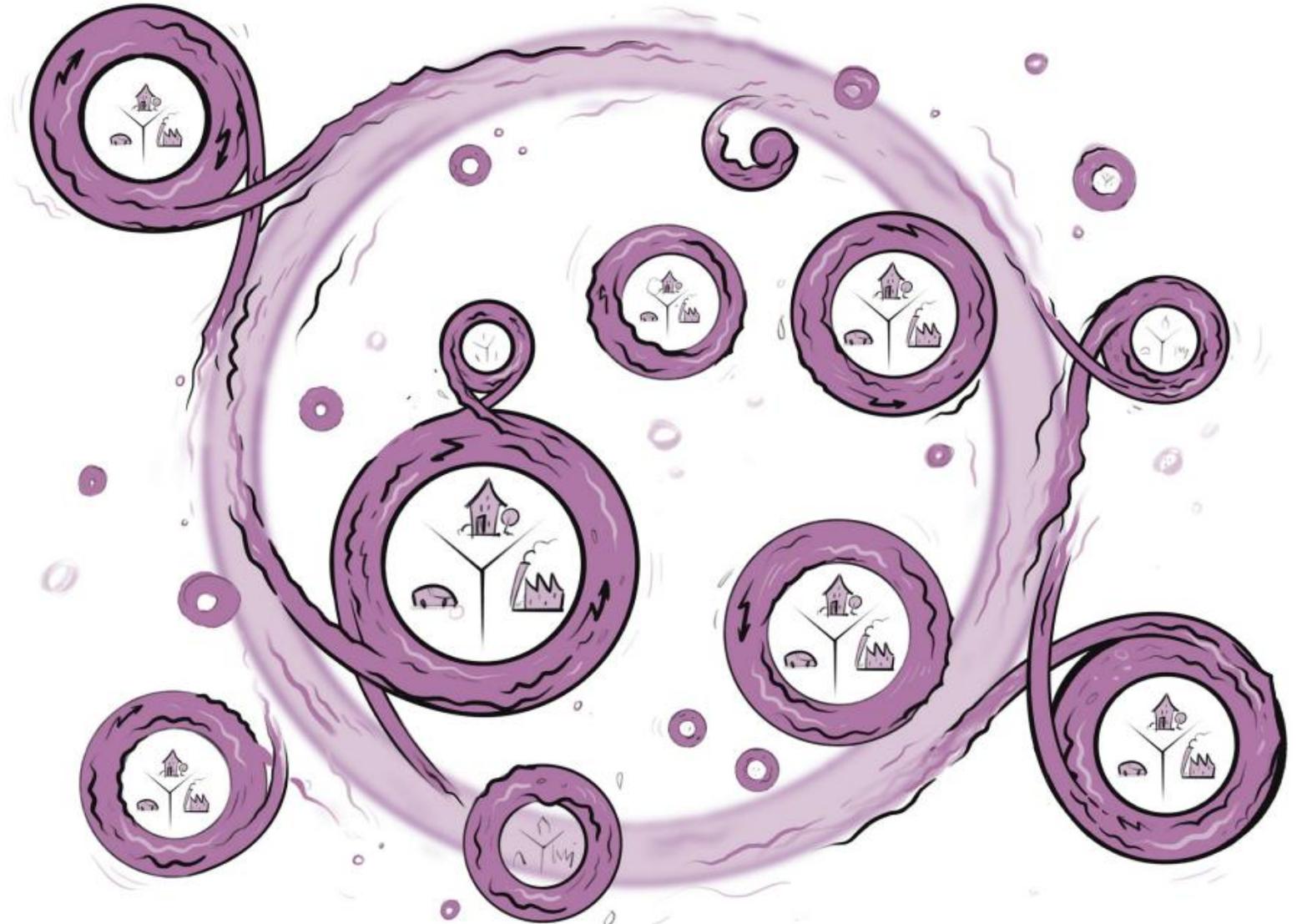
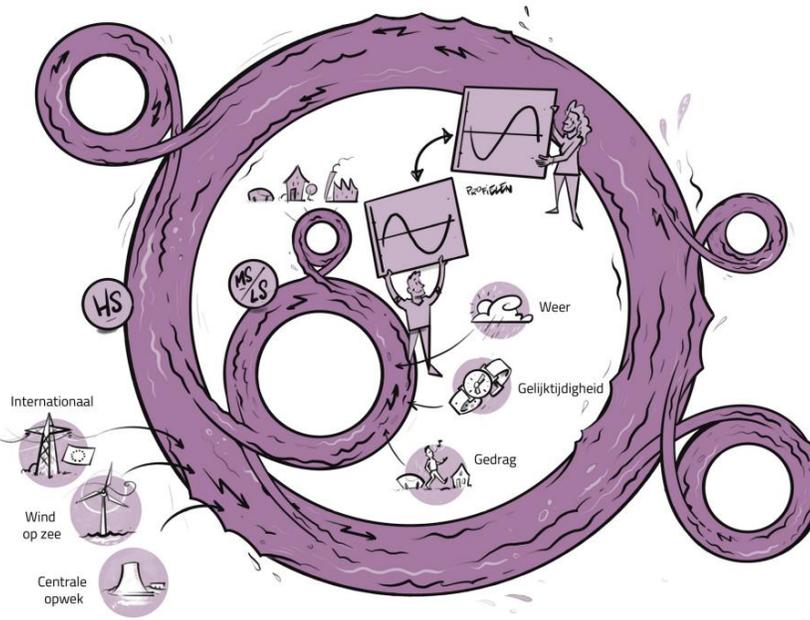
Loosely based on the ENTSOE [harmonised role model](#) and the [USEF](#) (universal smart energy framework)  
Winters & Van der Veen TNO 2023

# Creating value



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Source illustration: Transform/Robèrt Guérain

# Energy community Republica



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