

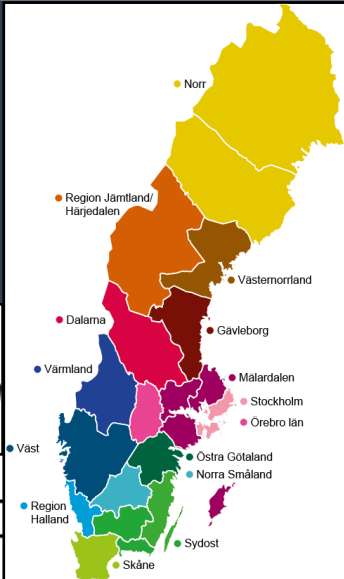
# Energikontor Väst

**together** we are leading the energy transition



# Energikontor Väst, energy agency West Sweden

- We focus on energy- and climate issues
- One of 16 energy agencies in Sweden
- Part of Innovatum Science Park, non-for-profit organisation enabling triple helix collaboration with transition and innovation
- Region West Sweden with offices in Göteborg & Trollhättan
- Network include ManagEnergy, FEDARENE...



# What is happening?

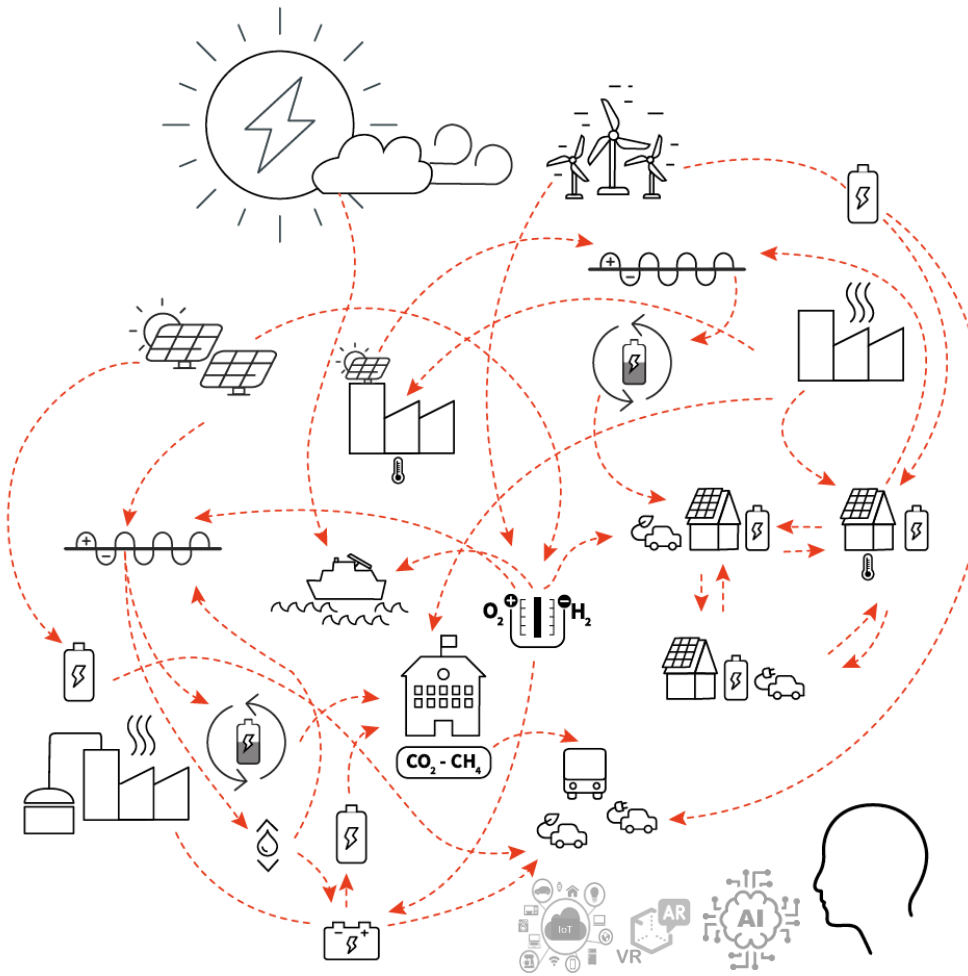
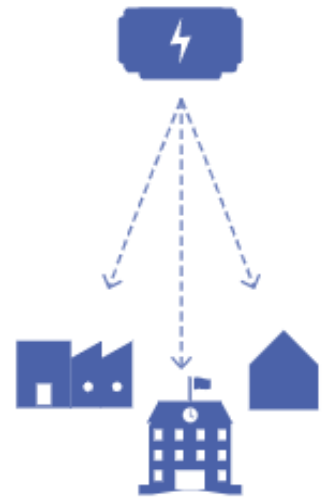




# Then we need to consider!



# Transition



## Energy ecosystem now growing

- Distributed energy from renewable sources and multiple production sites
- A grid that allow bi-directional flows
- Digitalisation steering new infrastructure
- Manage complexity among market actors
- Flexible, dynamic and resilient system

## Usage

- Industrial processes
- Transport
- Heating / cooling
- Light

## Production (renewable energy)

- Solar power
- Wind
- Bio energy
- Water/hydro
- Geothermal energy

## Rules of the game

- Sticks and carrots (fees, incentives)
- Regulation, approvals
- Taxation and subsidies

## Resources for flexibility

- Storage
- Demand response
- Self-sufficient / prosumer
- Energy communities
- Circularity solutions
- Peak shaving
- Production control

## Industrial tech and human in system

- Modern production and sustainable usage
- Digital tools and behaviours
- Scaling-up benefits!

Today is dominated by a one way system

- Few, large, fixed production units
- Energy grid designed for one direction
- Power company domination
- Basic market structure
- Strict regulation and no flexibility



**Sustainability perspective**

**Planning perspective**

**Electrification**

**Decentralisation**

**Efficiency**

**Circularity**

**Market perspective**

**Flexibility**

**Digitalisation**

**User perspective**

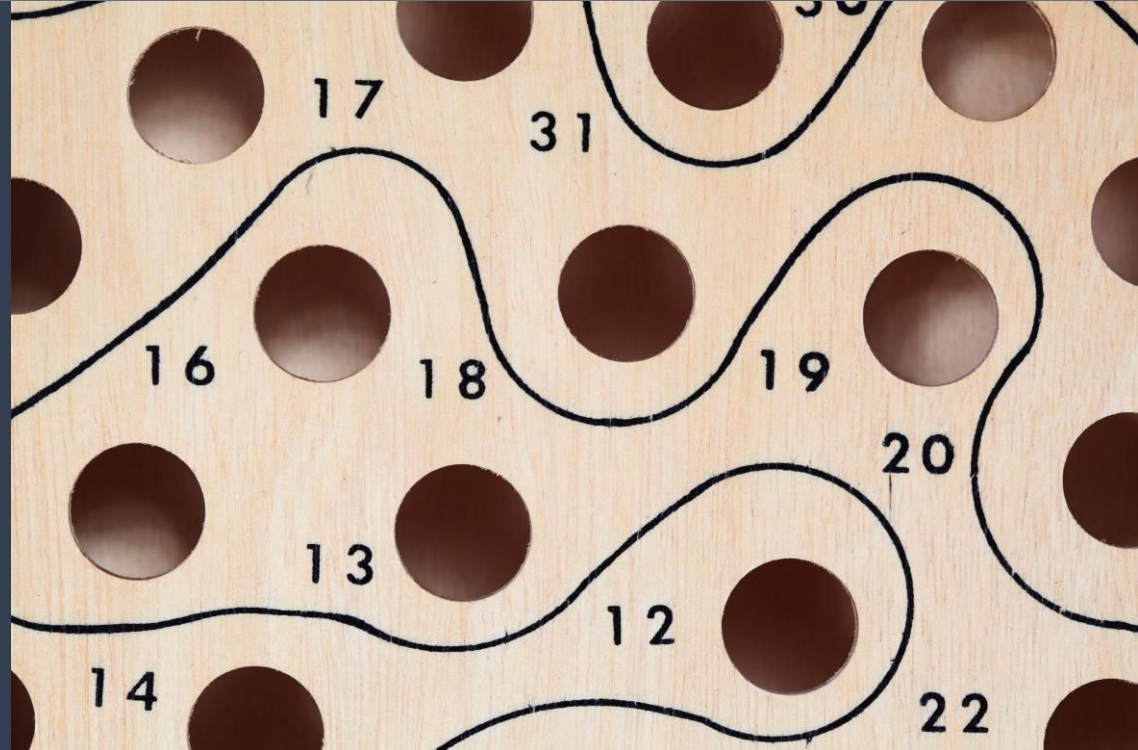






## Regional and local authorities

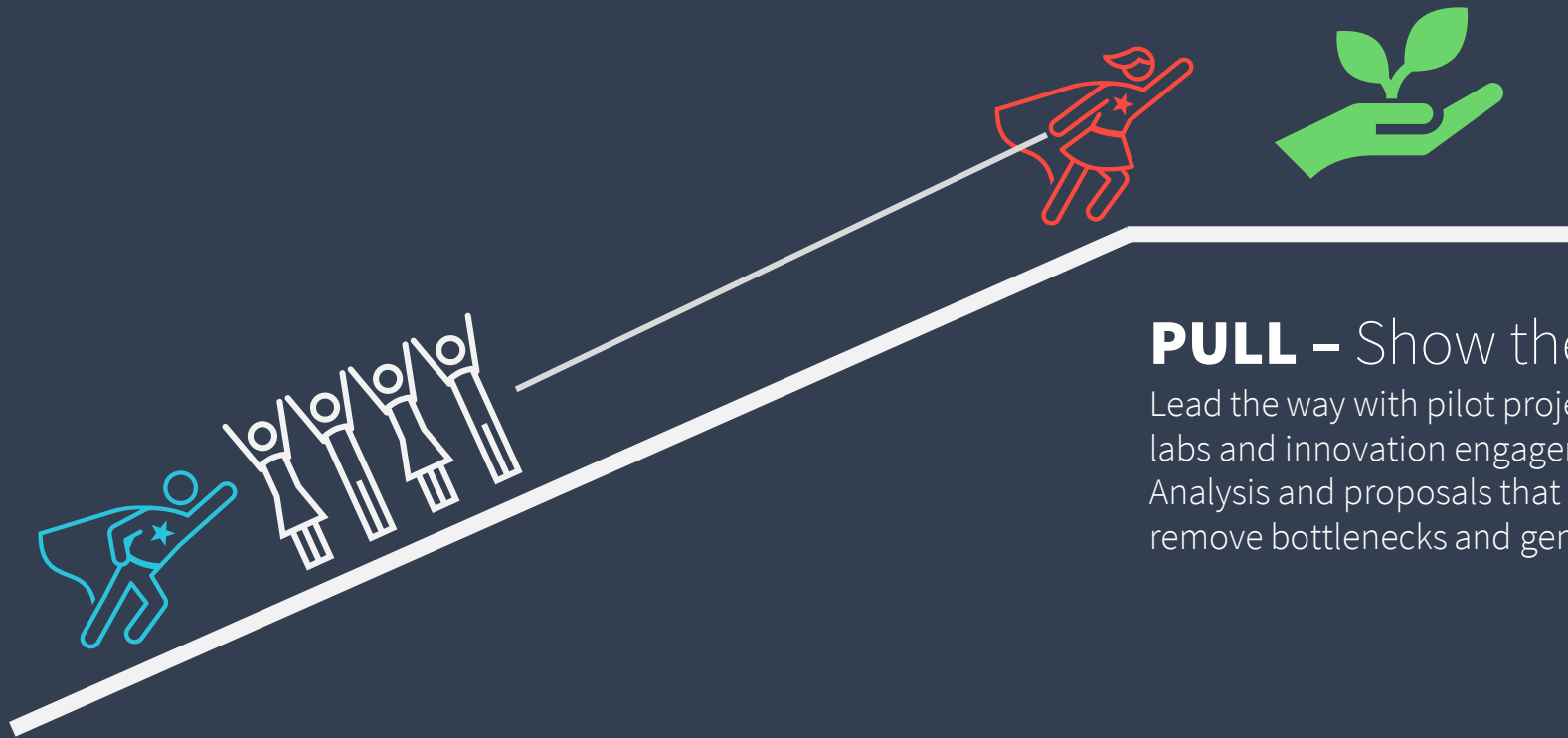
- Authority and responsible for:
  - Local energy planning
  - Climate strategy and follow-up
  - Spatial planning
  - Transport and mobility planning
  - ....Long term objectives, missions and plans important for businesses, people and local investment
- Owner of buildings, operations, utilities, real estate and housing companies...
- Facilitator and networking hub to engage, involve and empower key stakeholders and build capacity
- Strategic investments and possibilities to use “swings and carousels” thinking.
- Can act as pioneer and strong buyer in terms of innovation and transition investments





# Transition & Innovation

... helping each other



## **PUSH** – To reach goals and develop capacity

Support actors. Good examples, advice, network, competence development, projects etc

## **PULL** – Show the future

Lead the way with pilot projects, test & demo, living labs and innovation engagements.  
Analysis and proposals that eliminate barriers, remove bottlenecks and generate insight and action



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