

The background is a dark teal color. There are five white plus signs scattered around the central text: one in the top left, one in the top right, one in the middle left, one in the middle right, and one in the bottom right.

ARV

Inger Andresen, Coordinator, NTNU, Norway
EUSEW, 20.09.2022

KEY DATA

2022 - 2025

35 partners

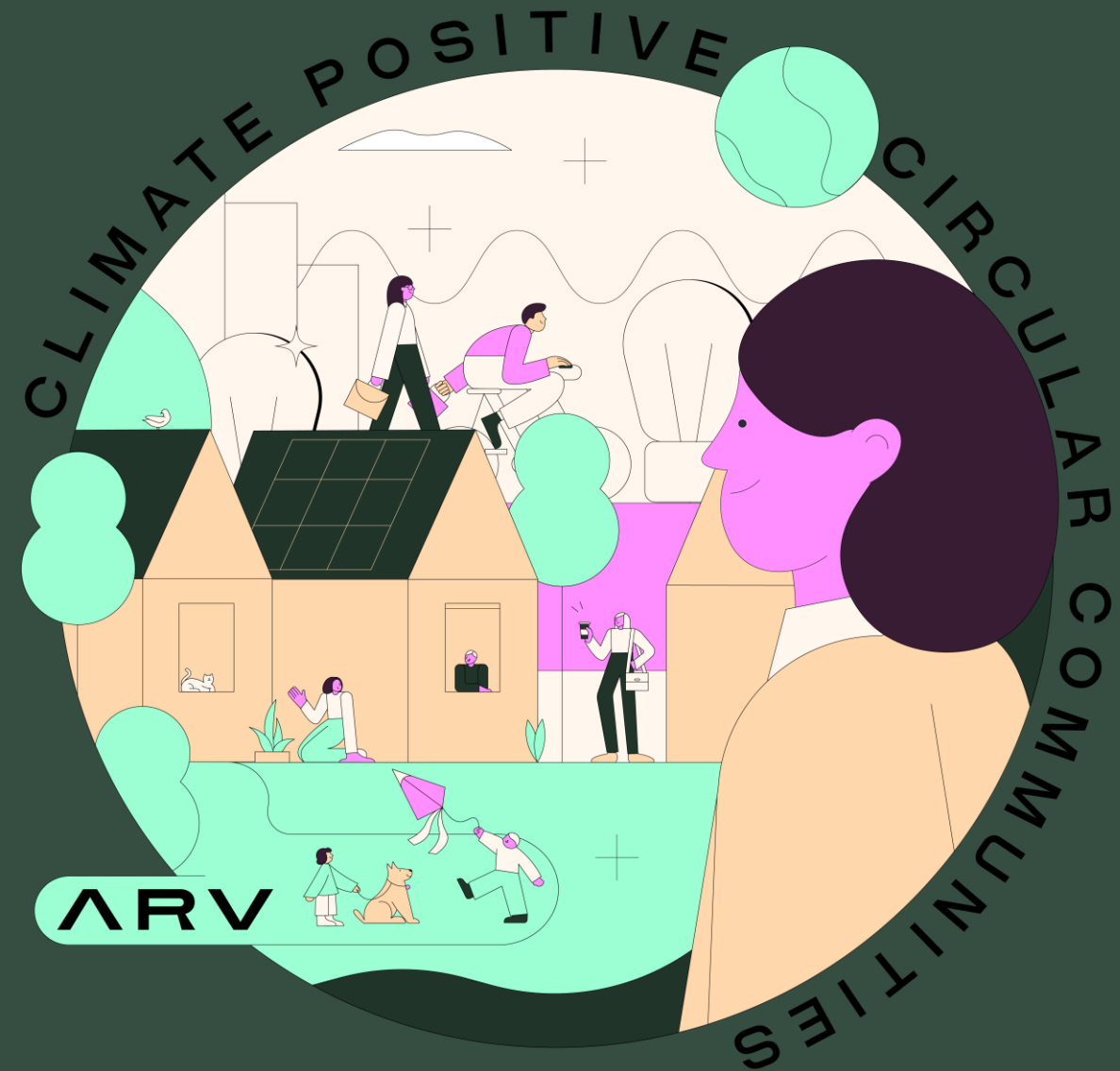
8 countries

6 large scale
demonstration
projects

25 000 m²
new
construction

130 000 m²
renovation

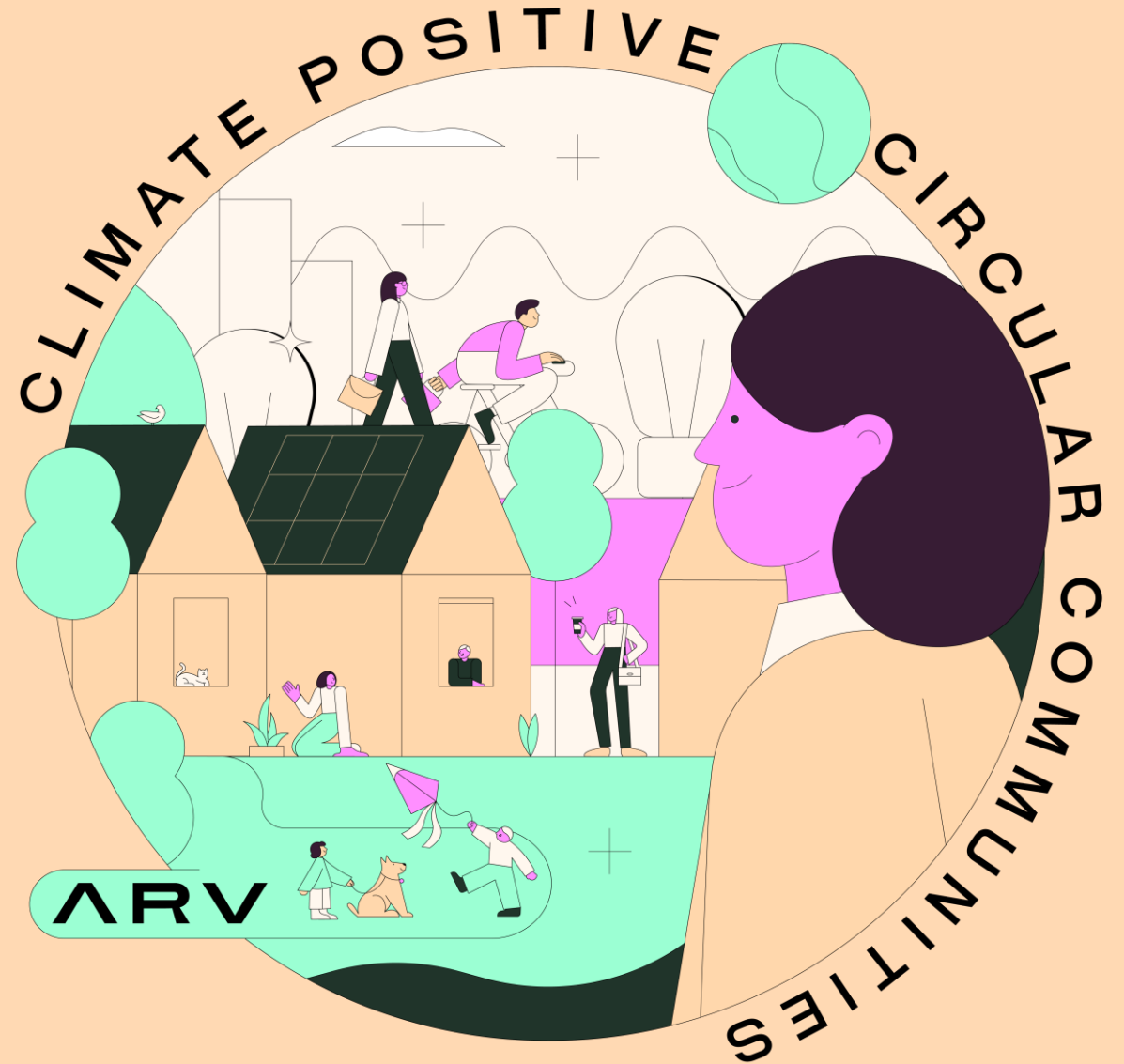
ARV



CLIMATE POSITIVE CIRCULAR COMMUNITIES

OUR VISION

To contribute to wide scale implementation of Climate Positive Circular Communities (CPCC) where people can thrive and prosper for generations to come.

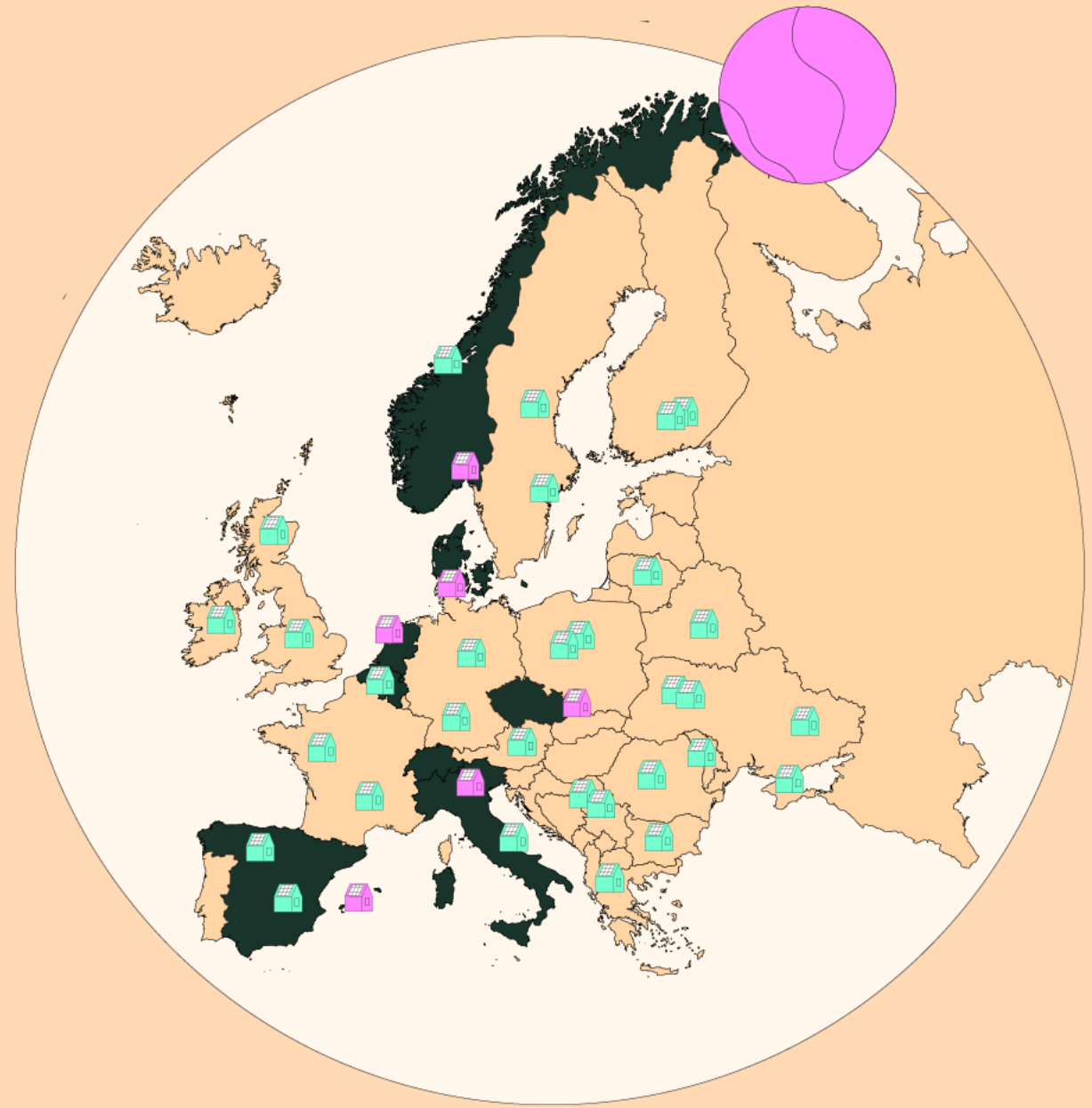


ARV is a Norwegian word meaning LEGACY or HERITAGE

OVERALL GOAL

To boost the building renovation rate and to enable rapid and wide-scale deployment of CPCCs around Europe.

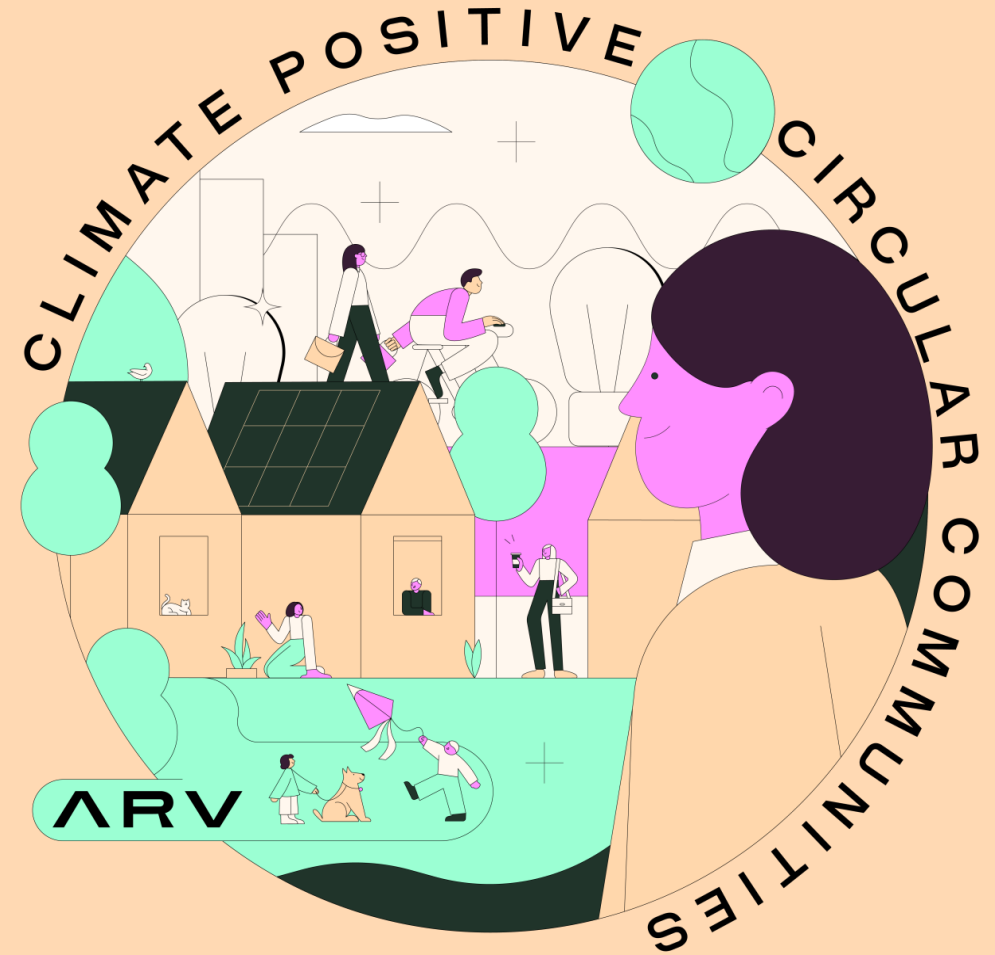
ARV will facilitate a fast market uptake and cost-efficient replication of the CPCC concept, and thus significantly contribute to the full decarbonisation of Europe by 2050.



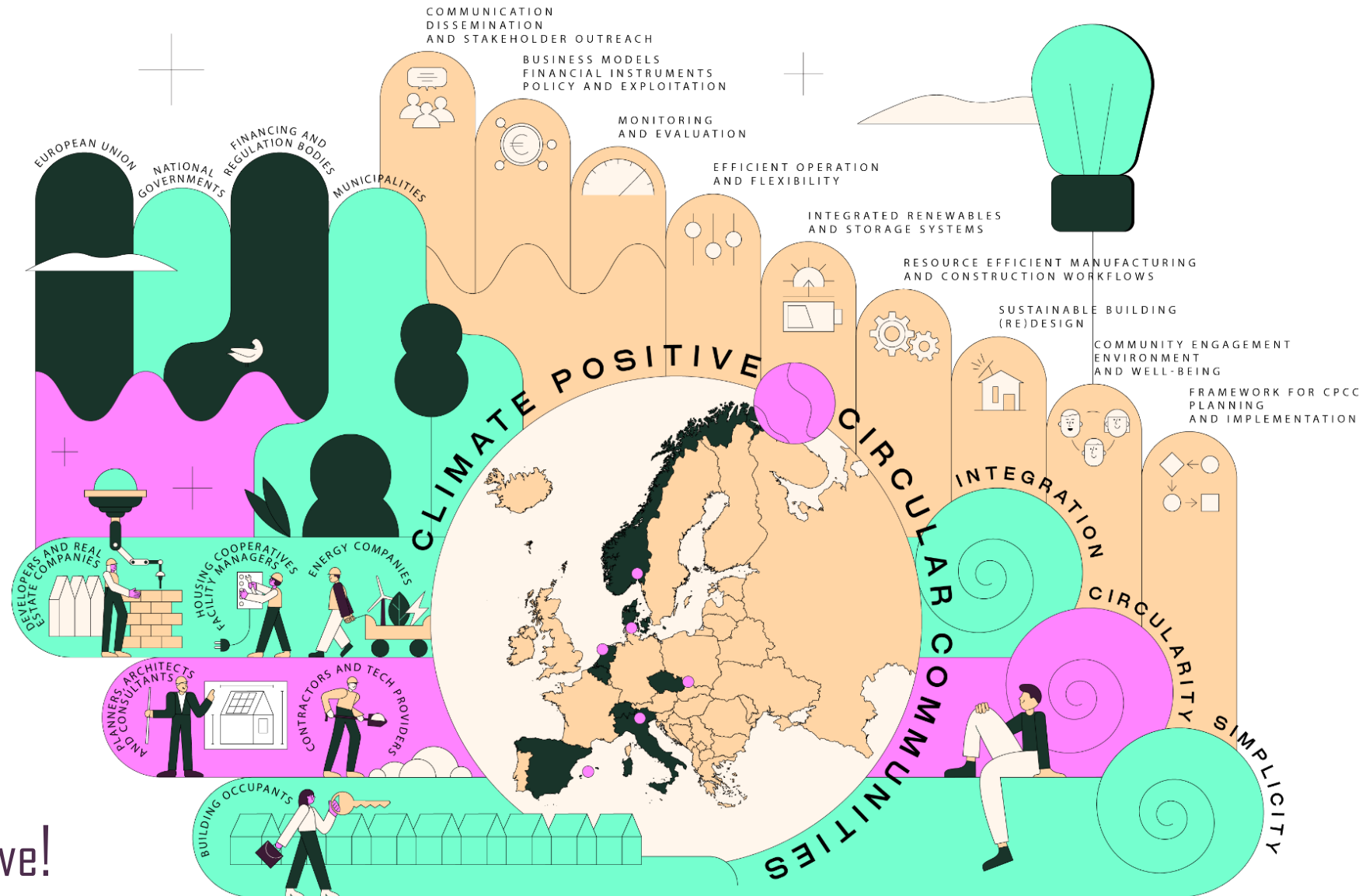
WHAT ARE CPCCs ?

A Climate Positive Circular Community (CPCC) is an urban area which aims to achieve net zero greenhouse gas emissions, enables energy flexibility, and promotes a circular economy and social sustainability.

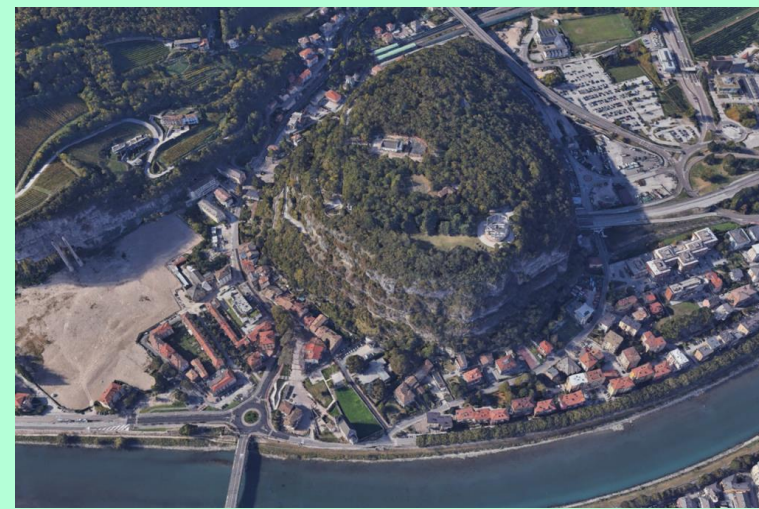
The CPCC concept focuses strongly on the interaction and integration between new and regenerated buildings, users, and energy systems, facilitated by ICT to provide attractive, resilient, and affordable solutions for citizens.



Riding on the Renovation Wave!



Palma de Mallorca:
Urban transformation
of large city district
into circular energy
community



Trento, Italy:
Renovation and
new built area with
innovative energy
infrastructure

**Utrecht, the
Netherlands:**
Social renovation of
residential blocks by
industrialization



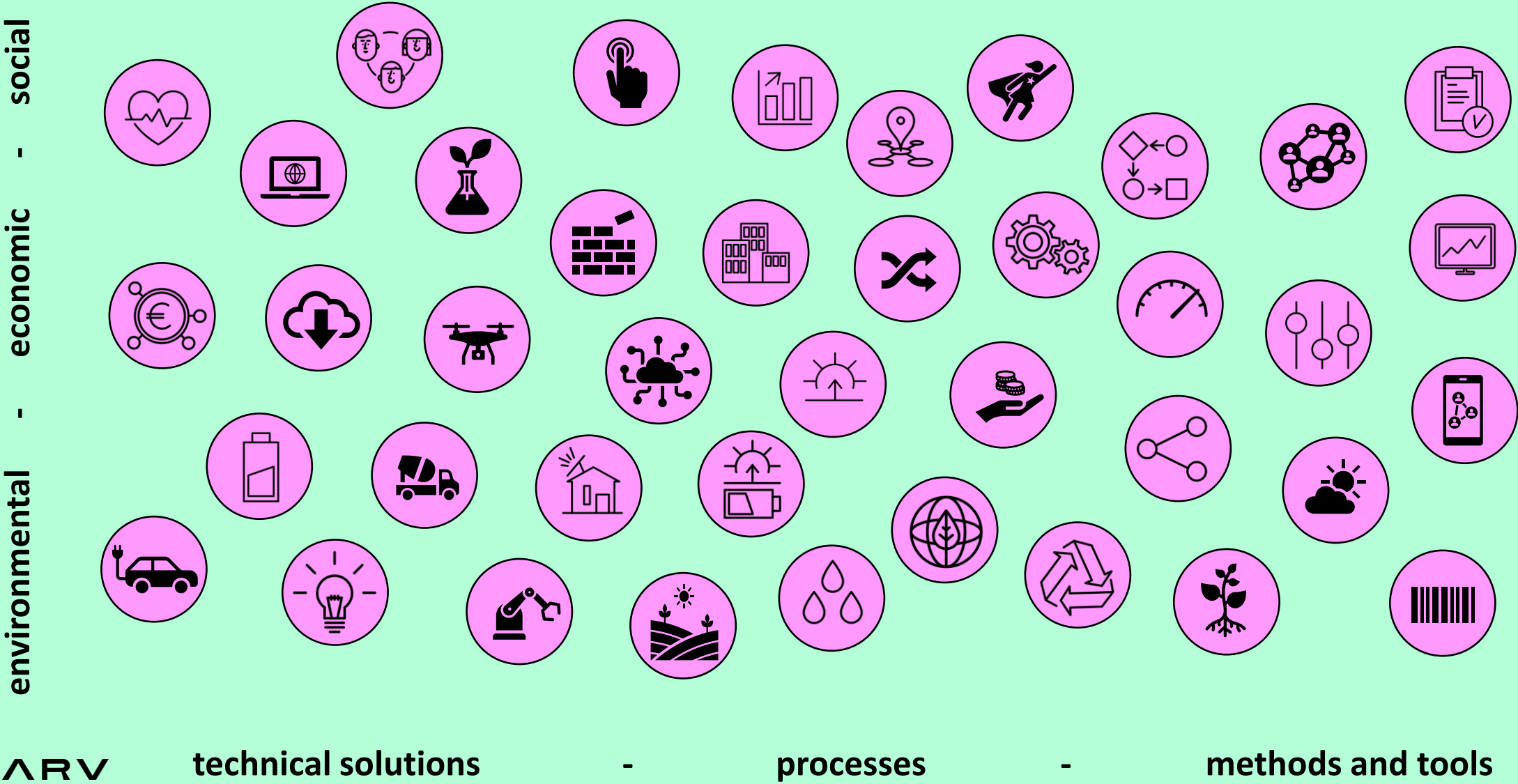
Karvina, Czechia:
Living Lab for
transformation from
Coal district to PED
and CPCC

**Sønderborg,
Denmark:**
Smart and flexible
homes embedded
in district energy
system

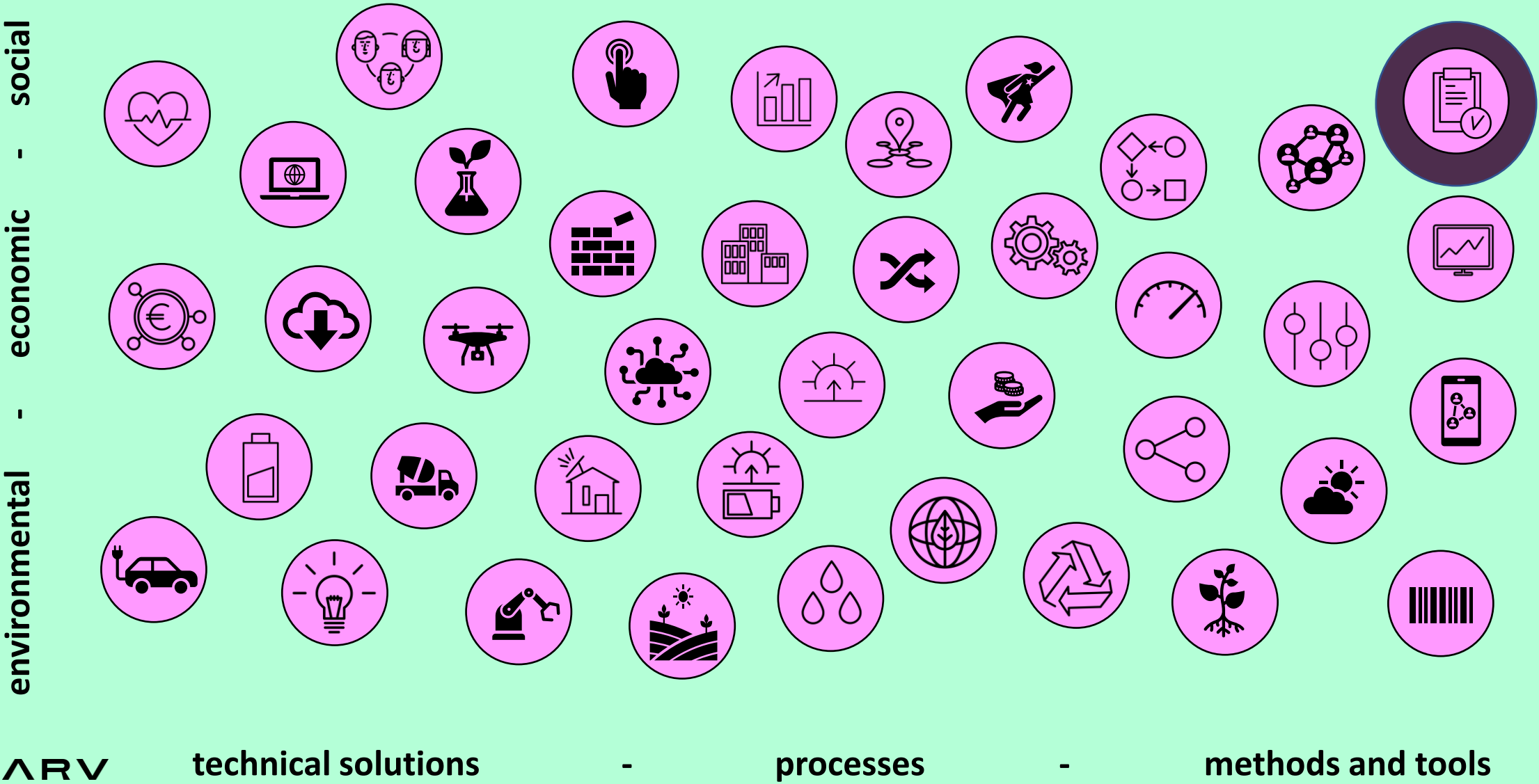


Oslo, Norway:
School and cultural
area as a lighthouse
for CPCCs

MORE THAN 50 INNOVATIONS

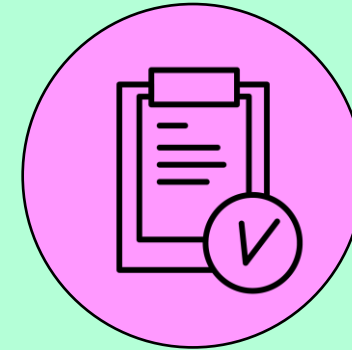


MORE THAN 50 INNOVATIONS



THE ARV ASSESSMENT FRAMEWORK FOR CPCC

- Why the need for a framework?
- What is innovative about it?



Energy

Environment

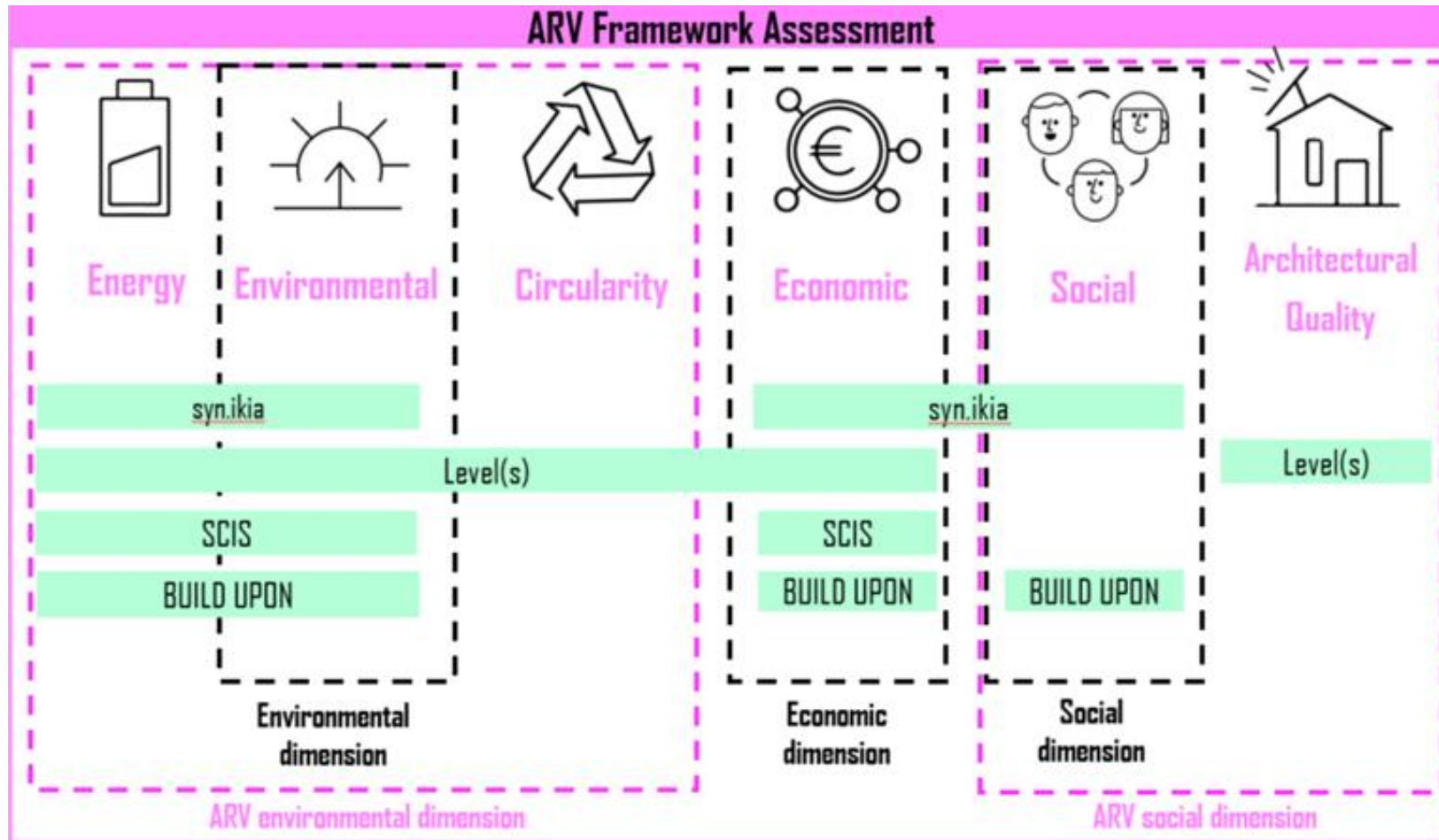
Circularity

Economic

Social

Architectural

The ARV assessment framework - overview



--- Classic Dimensions of Sustainable Development
 --- ARV approach

ARV

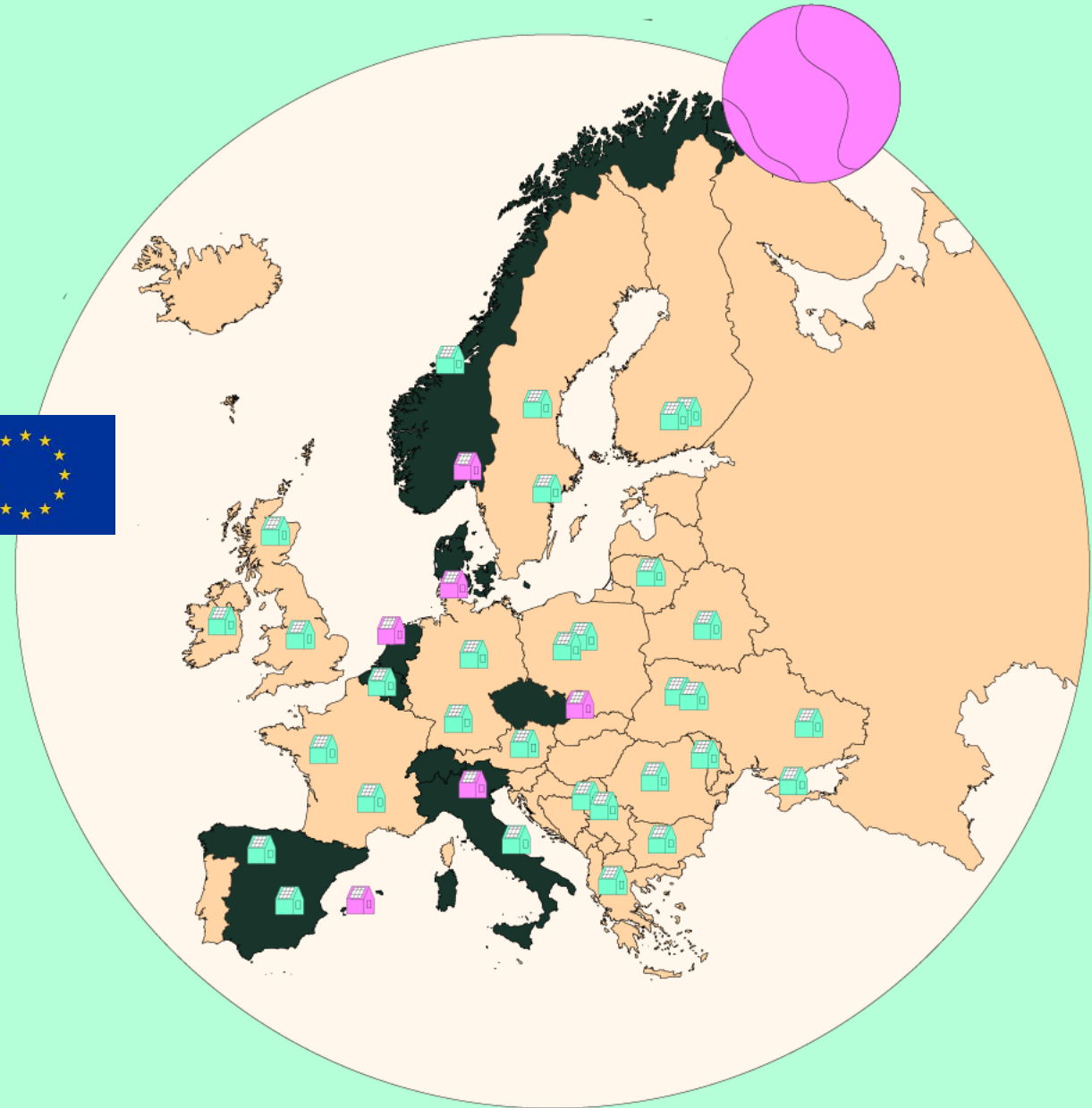
Consideration of EU and international policies:

- ✓ Energy Performance of Buildings Directive
- ✓ The Renovation Wave
- ✓ The New European Bauhaus
- ✓ Clean Energy for all Europeans
- ✓ The Paris Agreement
- ✓ Sustainable Development Goals (SDGs)

CLIMATE POSITIVE CIRCULAR COMMUNITIES

POLITICAL IMPLICATIONS

- 1) Improved benchmarks, standards, codes, and regulations
- 2) Guidelines for procurement, planning, design, construction, commissioning and FM
- 3) Financial mechanism





Thank you!

<https://greendeal-arv.eu/>

<https://twitter.com/GreenDealARV>

<https://www.linkedin.com/company/arv-h2020/>



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