

Collaborative Low Energy Vision for the European Region (CLEVER):

a pathway to bridge the climate neutrality, energy security and sustainability gaps through energy sufficiency, efficiency, and renewables

Project presentation



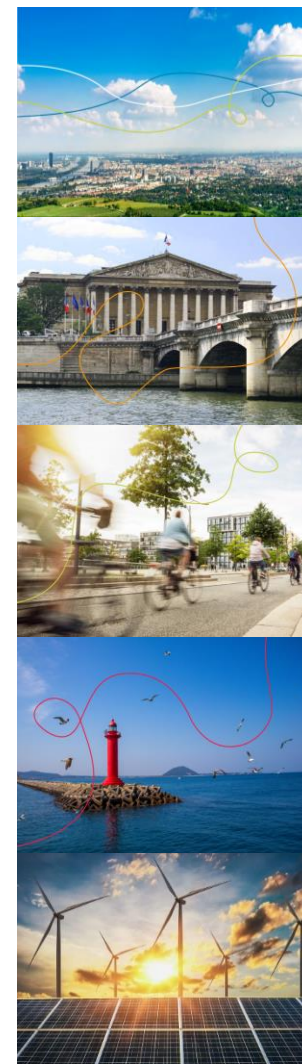
The négaWatt association



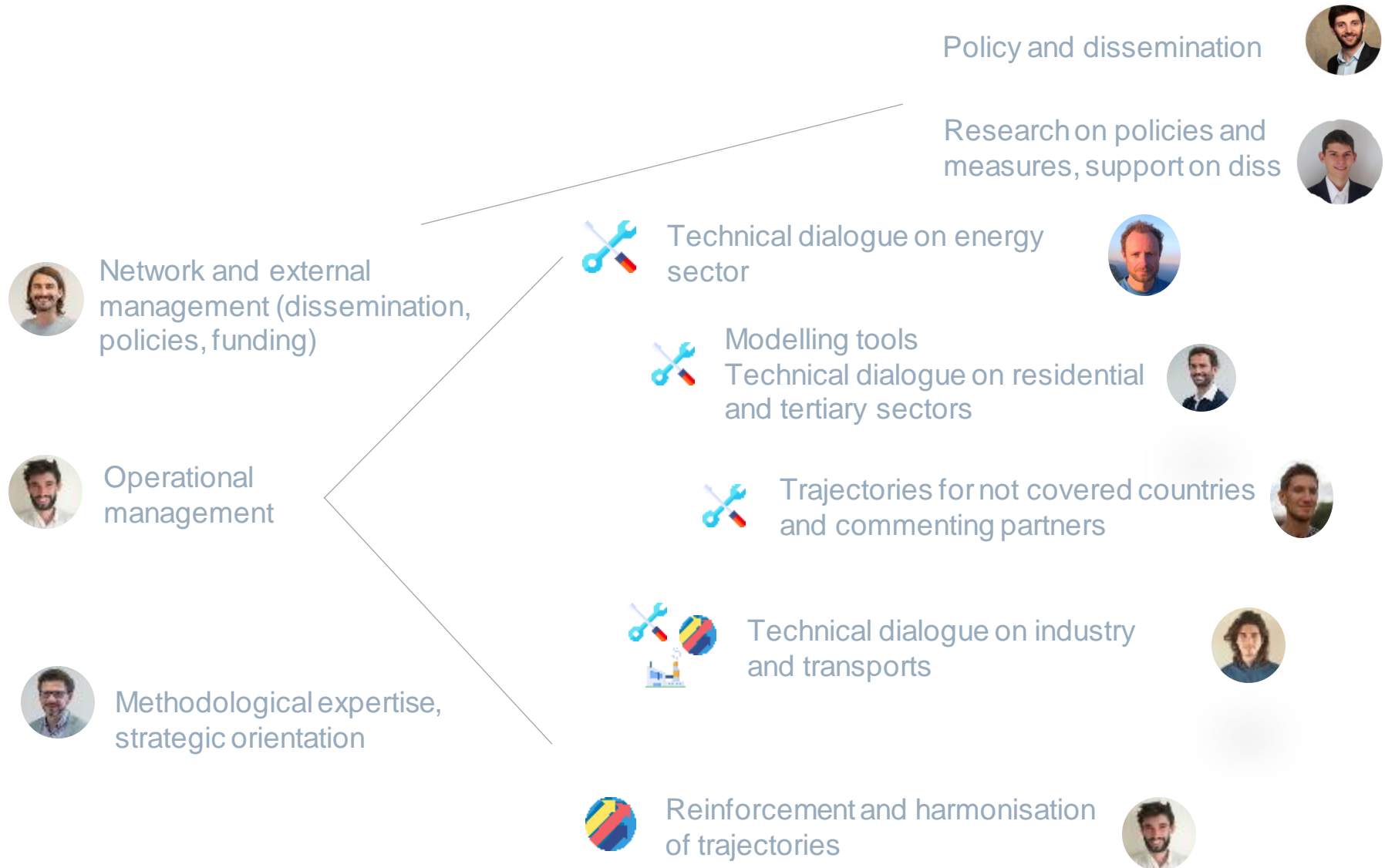
- * A think tank on energy created in 2001
- * A non-profit, independent group of experts and field-practitioners
- * A core of ~ 25 “companions” + 25 “ambassadors”, 1400 members
- * 15 employees
- * Producing scenarios (latest in 2021) and proposing policies and measures for a sustainable energy future, through a systemic approach



- * Subsidiary created in 2009
- * Operational branch of the association



The CLEVER nW team

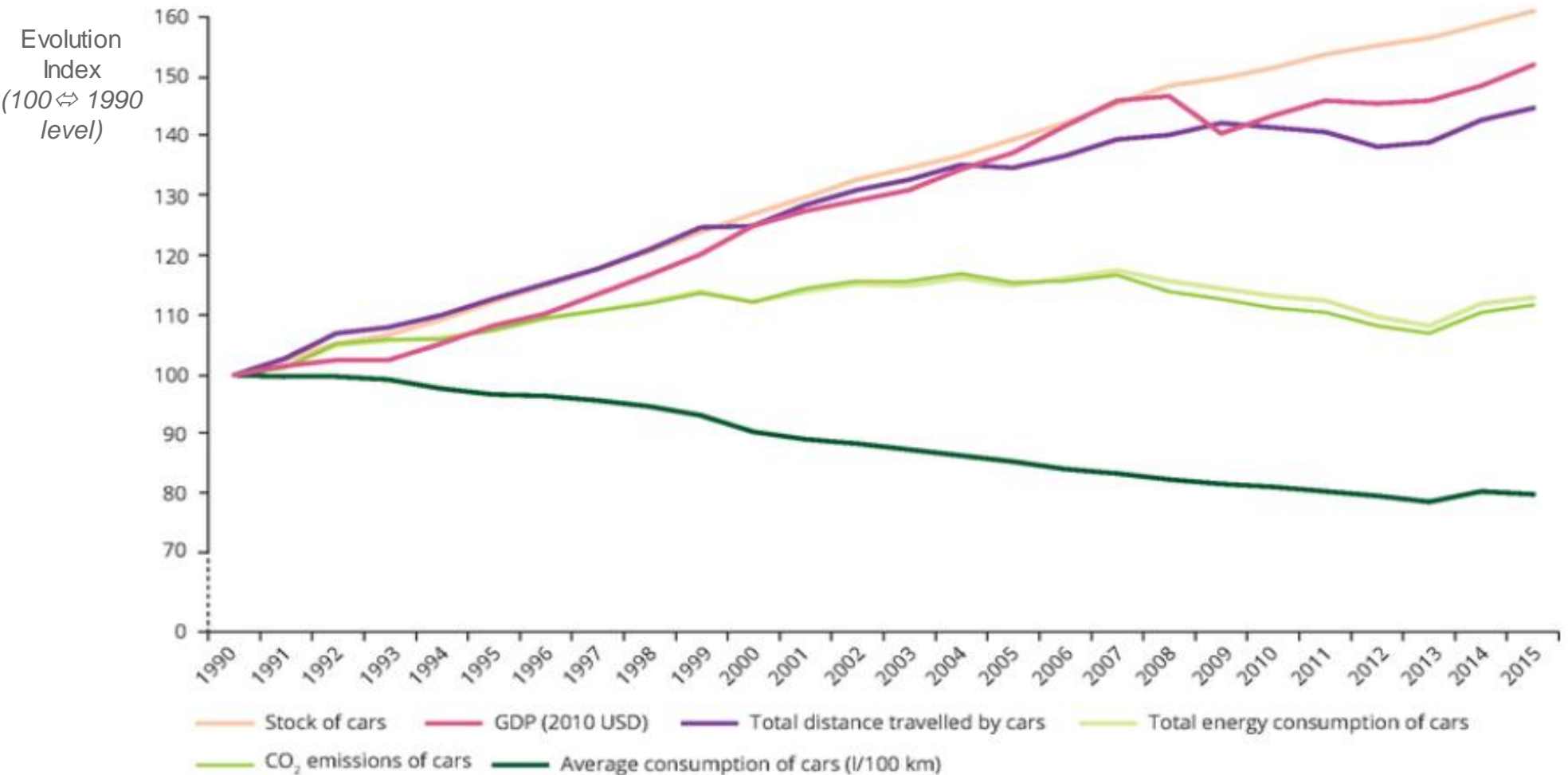


1.

Sufficiency as a CLEVER core value

Impact of ever increasing energy services consumption in the EU

EU cars trends 1990-2015*: increase of CO₂ emissions for cars despite efficiency improvements



*<https://www.eea.europa.eu/data-and-maps/figures/fuel-efficiency-and-fuel-consumption>

CLEVER's answer to this trend: a transition including sufficiency

Sufficiency's aims:

Foundation

Fulfilling everyone's need for **services** (e.g. accessing a building in the image)



Ceiling

Adjusting the **nature** and **amount** of **services** to keep demand at a level which does not endanger the carrying capacity of the earth

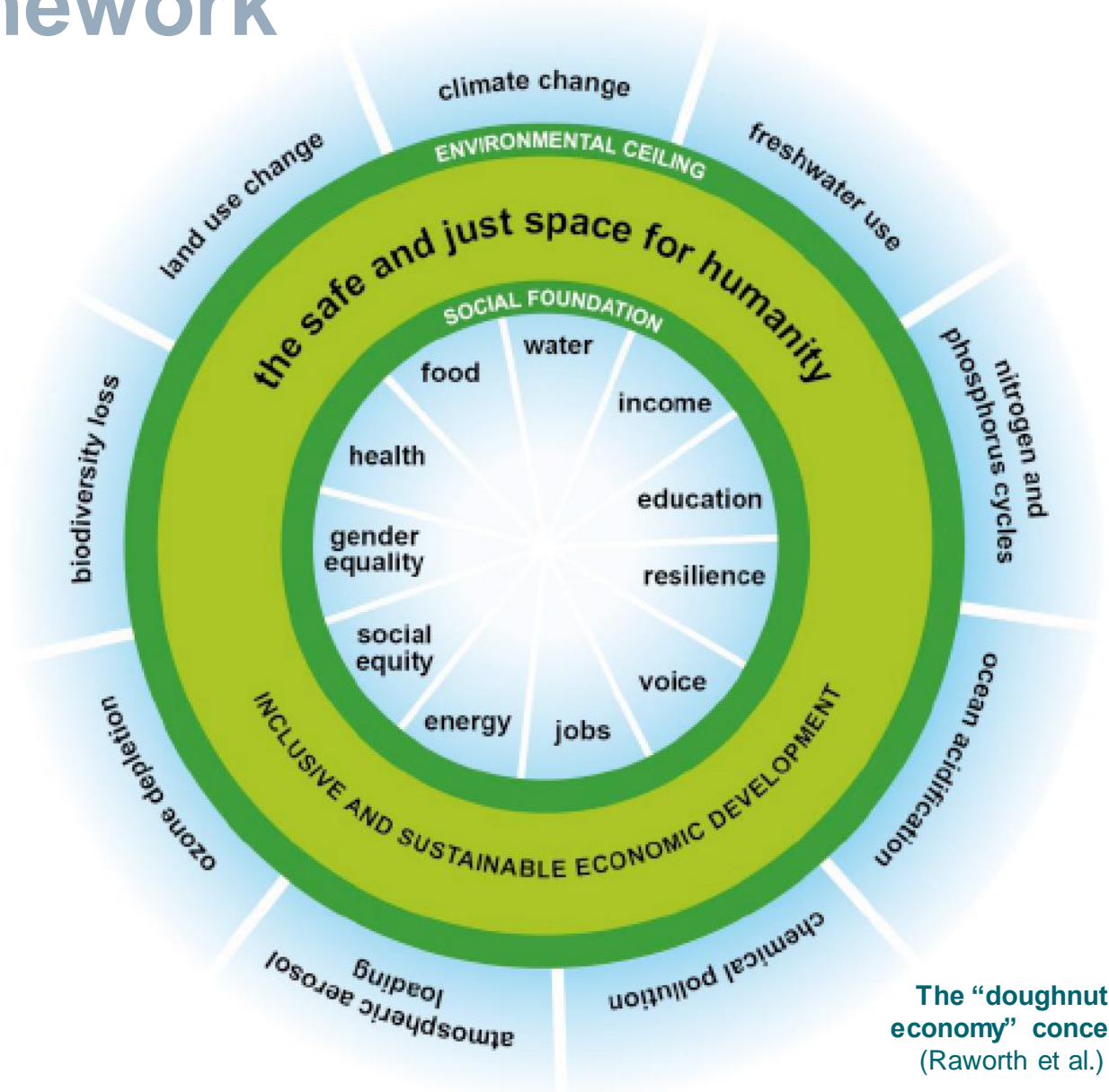


Sufficiency embedded in an equity and sustainable framework

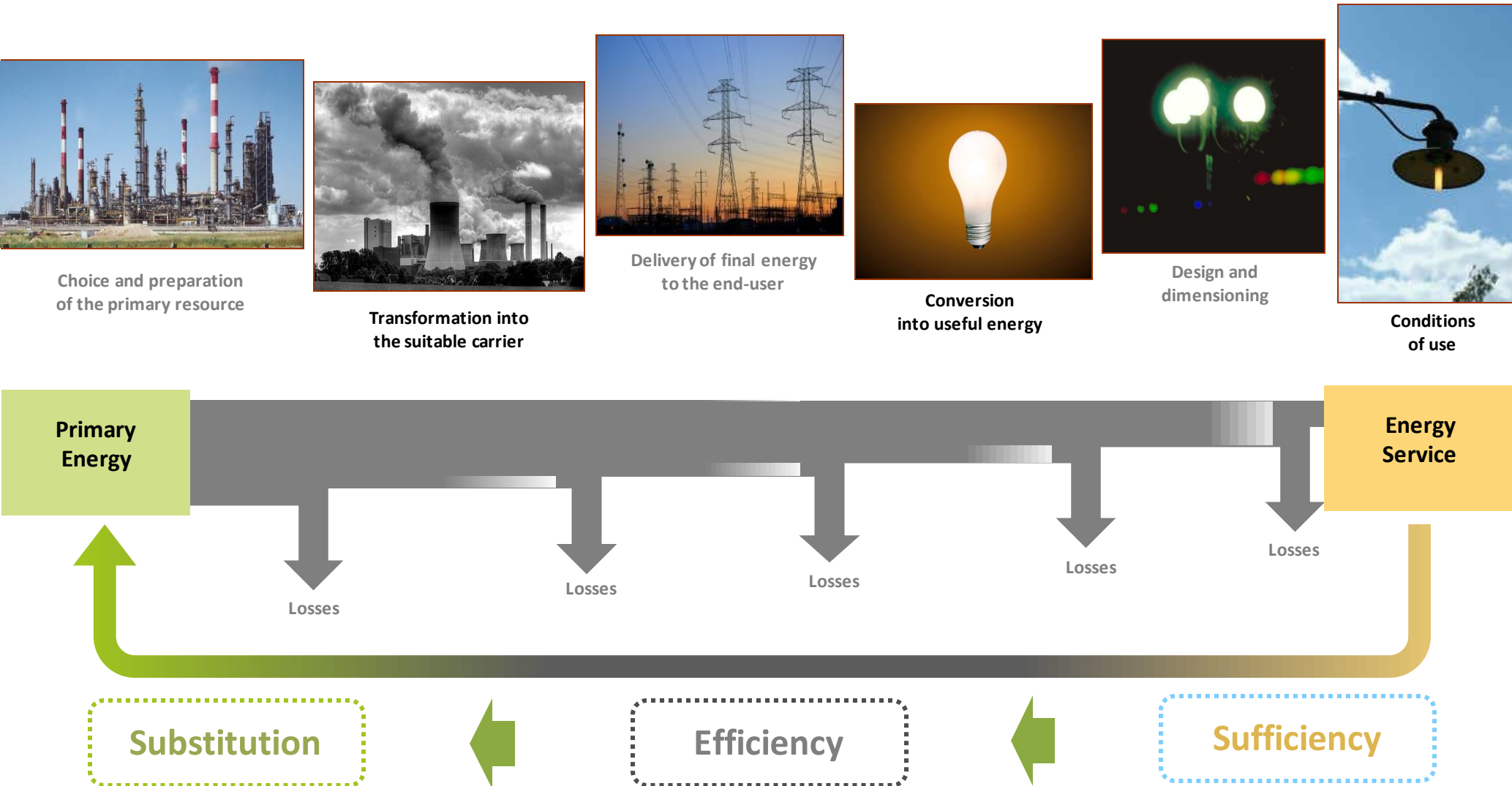
Bringing individual services between:

- **A foundation**: of decent live levels
- **A ceiling**: containing the collective impact below planetary limits

→ **Moderate global consumption** while **reinforcing solidarity** and **redistribution**



Sufficiency at the start of the systemic CLEVER energy transition approach



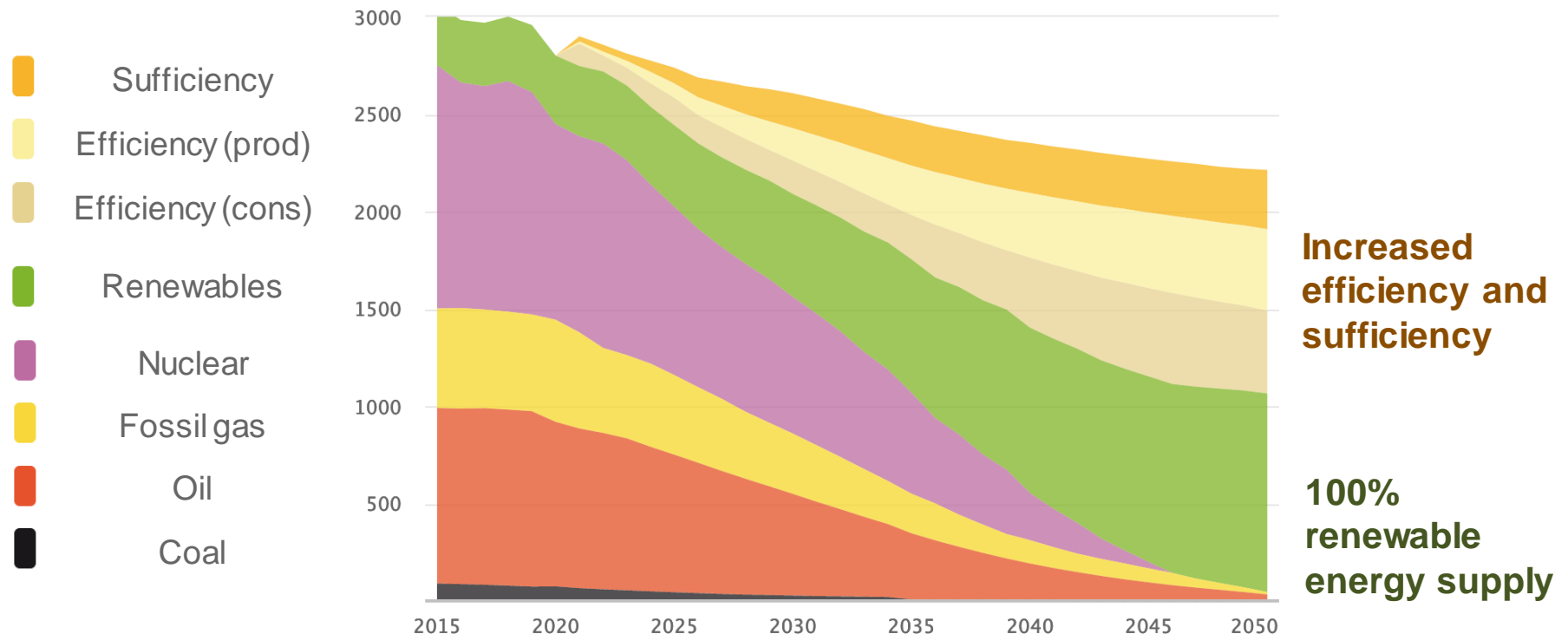
1.

The CLEVER scenario objectives

CLEVER: towards a sufficiency-based European vision

Based on the French experience, and considering the status of European energy and climate scenarios and policies, felt need of **raising awareness about the key potential of sufficiency** at the European level.

Primary energy consumption in the négaWatt scenario 2022-2050 for France



Zero carbon
Reaching carbon
neutrality

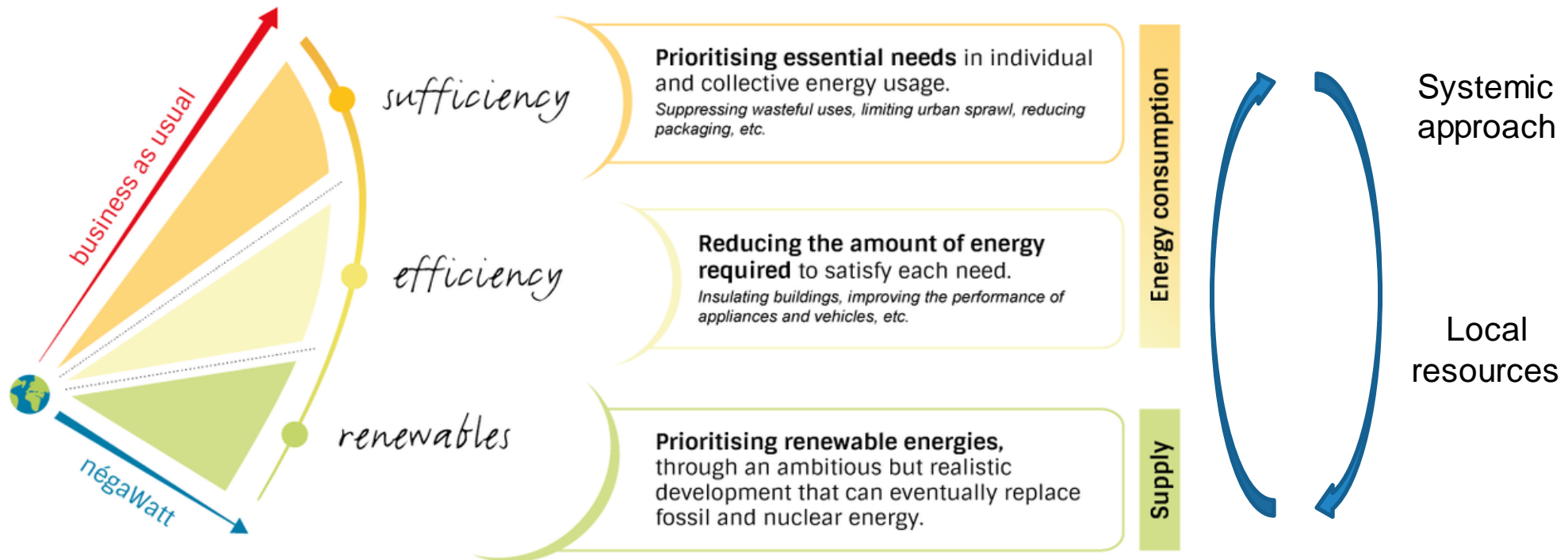


Environmental benefits
Raw materials, pollution...



So-economics benefits
Jobs, social, justice...

The CLEVER approach based on the SER framework



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Objective: to **get sufficiency** and deep sustainability **higher up on the European agenda**

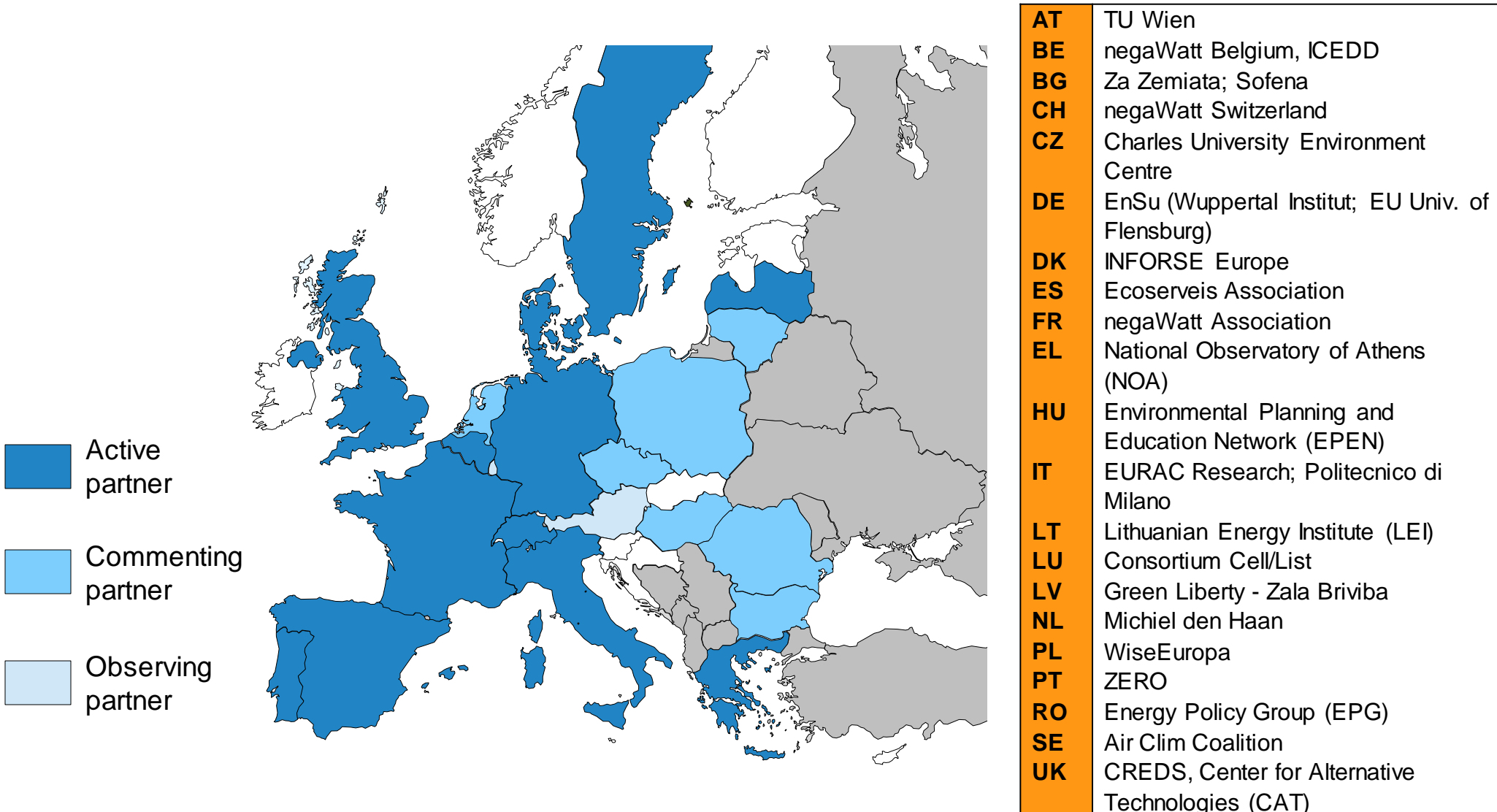
Means: a scenario **matching climate necessity (1,5degrees compatible pathway)** with the description of **necessary and feasible transformations**

2.

CLEVER network and methodology

The large and diverse CLEVER network

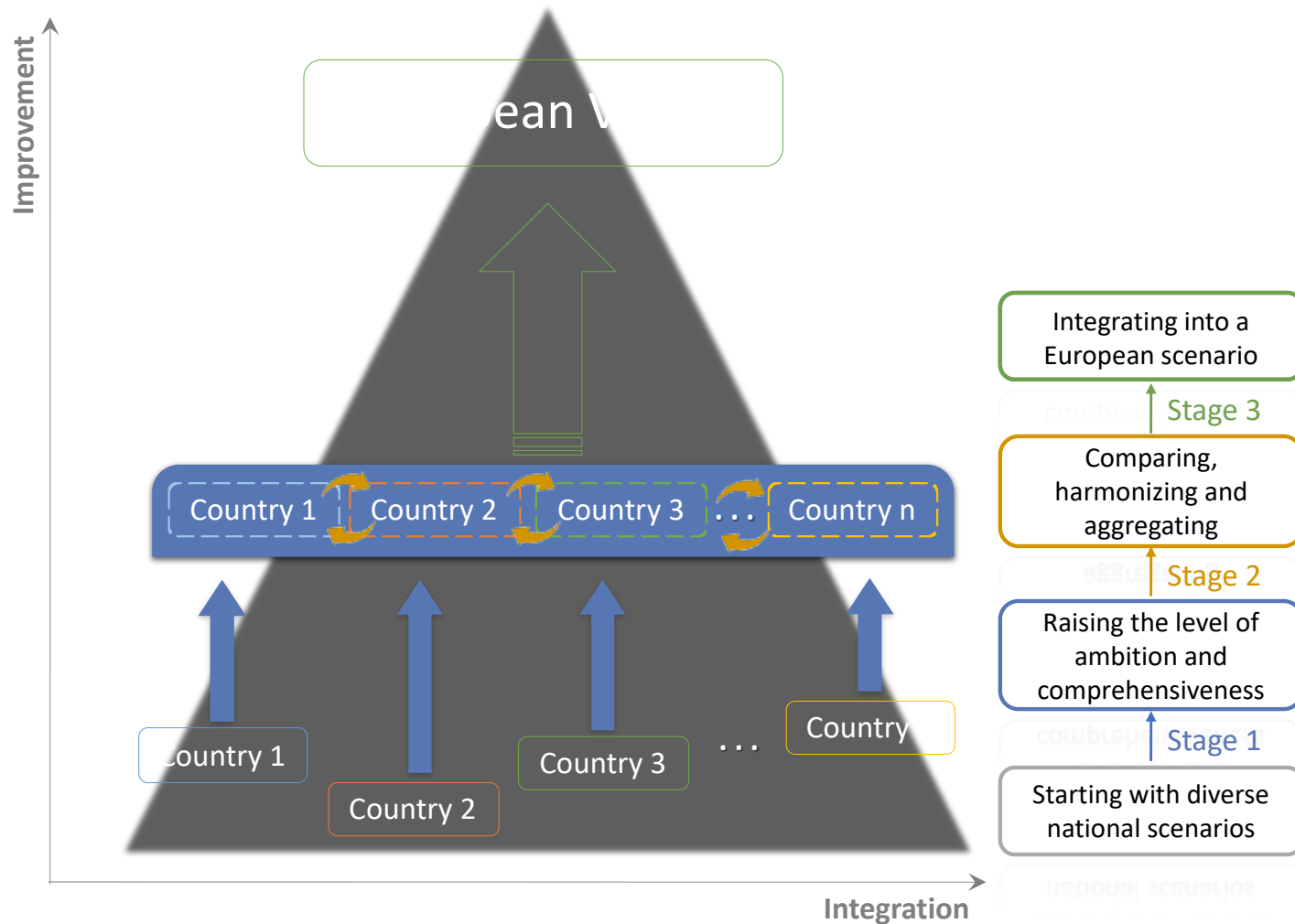
A network of **22 organisations** from **20 European countries** (18 EU members +UK, CH)



The CLEVER bottom-up construct

A three-stage **bottom-up integration approach**:

Set to progressively **harmonise and reinforce national trajectories** to form a coherent **European vision**



3.

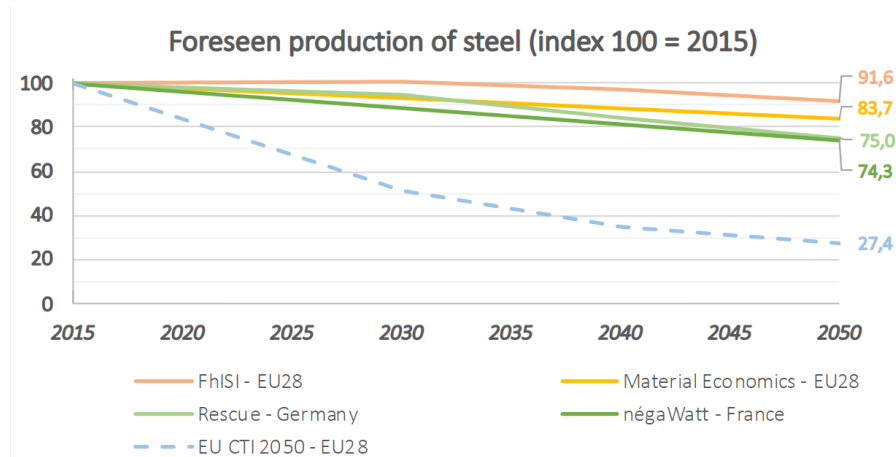
First results and planning



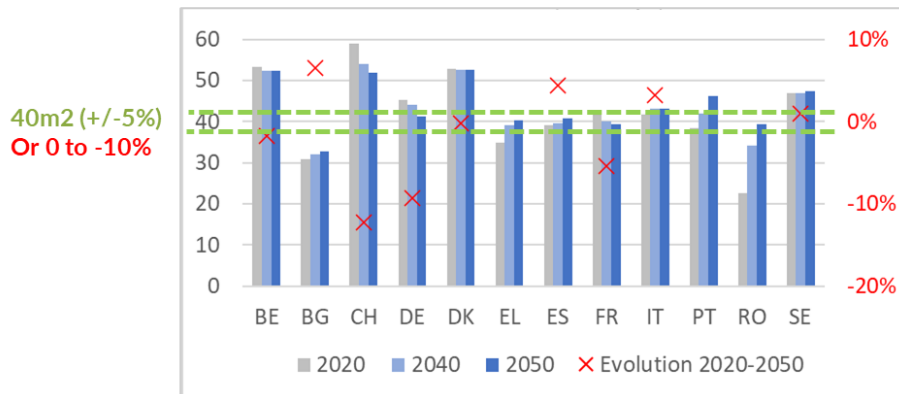
The CLEVER methodology to harmonise national assumptions

Corridors of convergence for **energy services** on key sufficiency indicators

Industrial stories to set corridors of production, energy consumption and intensity by branch

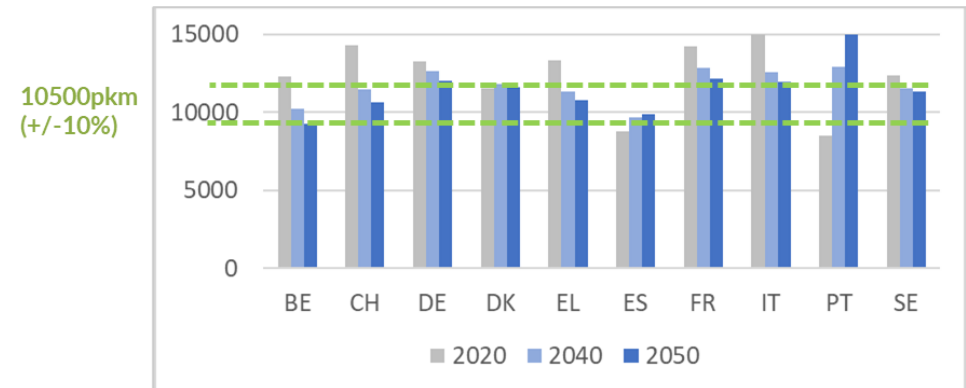


Average residential floor area per person (m^2/cap)
Corridor of projections based on the first set of national trajectories

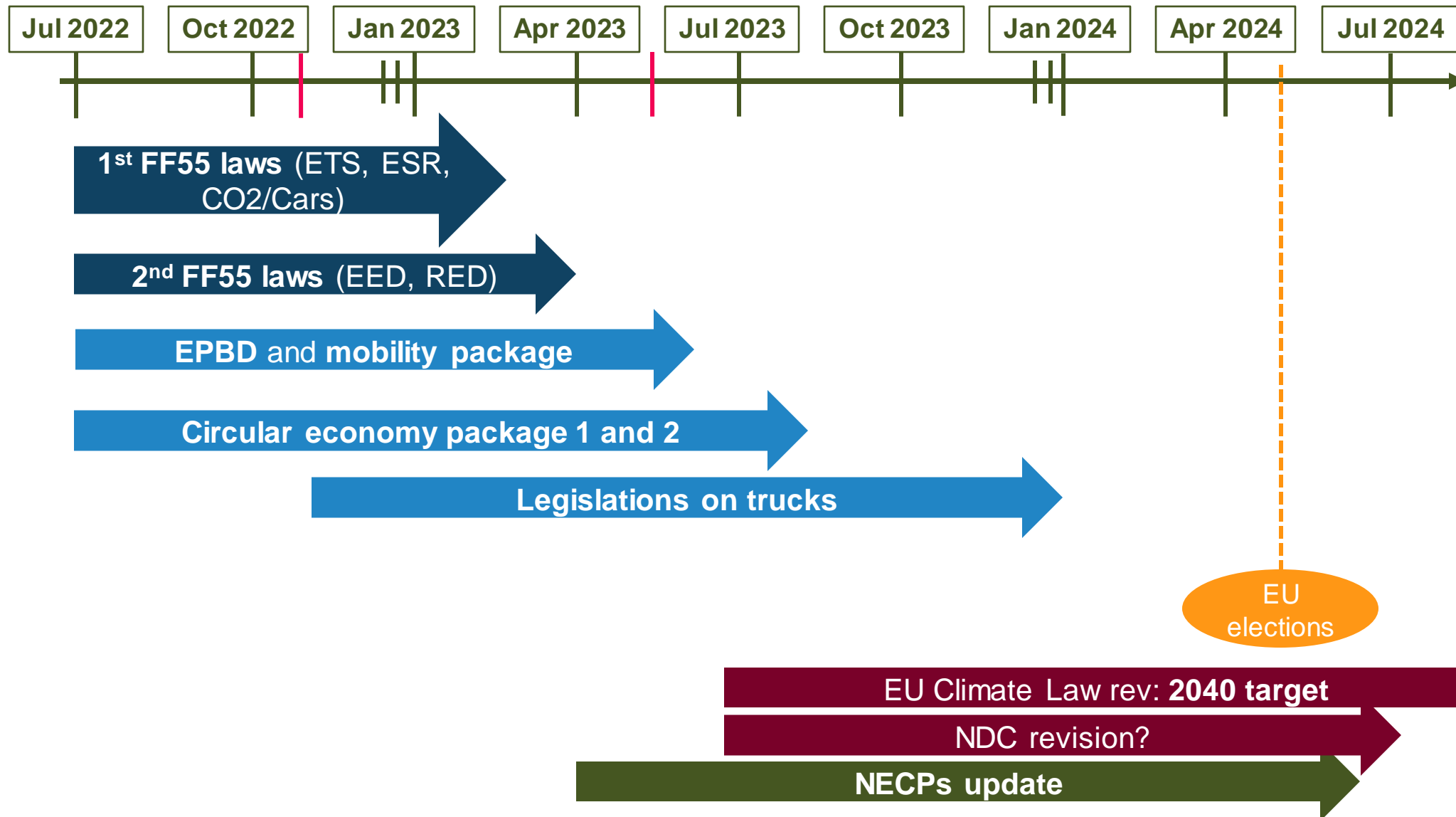


Average distance per person excl. Air and soft mobility (p.km/cap)

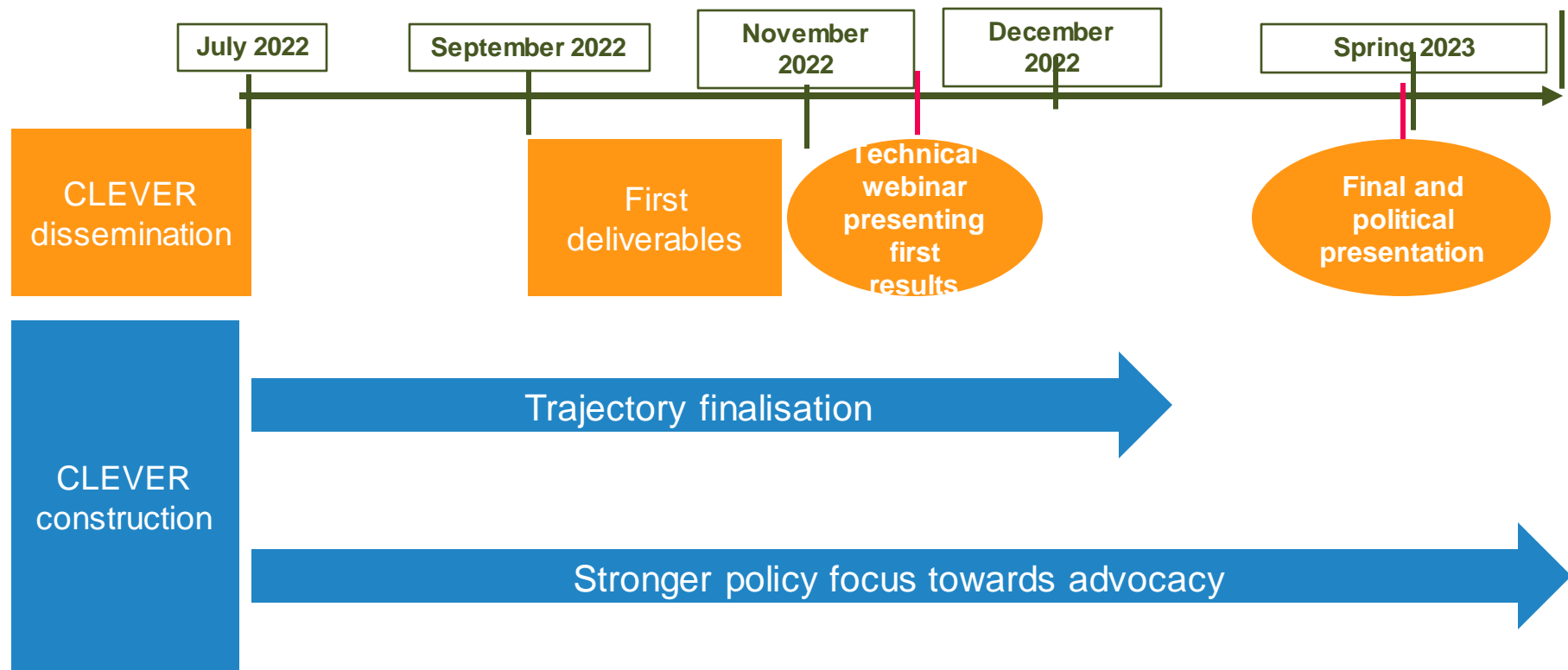
Corridor of projections in the first set of national trajectories



EU legislative timeline

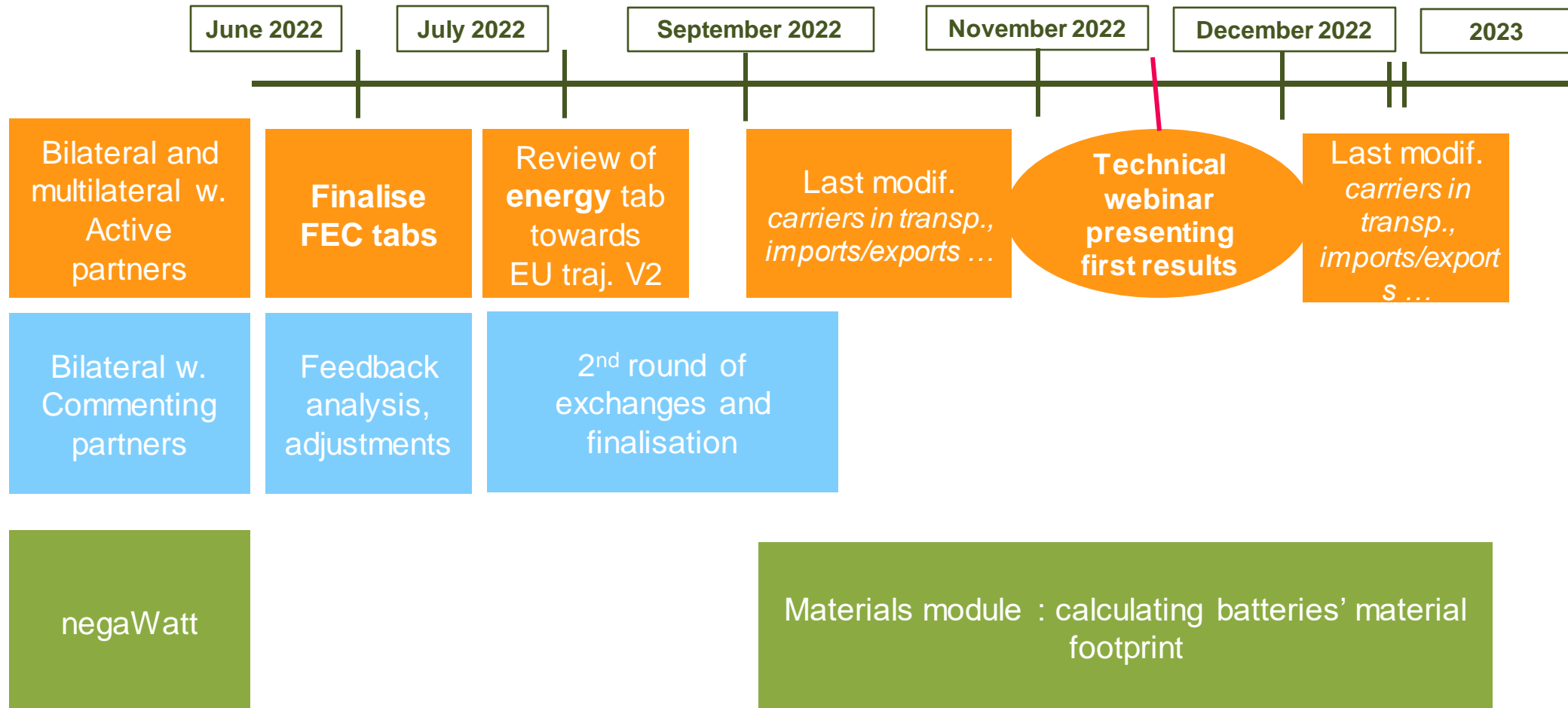


CLEVER planning towards publication in 2023

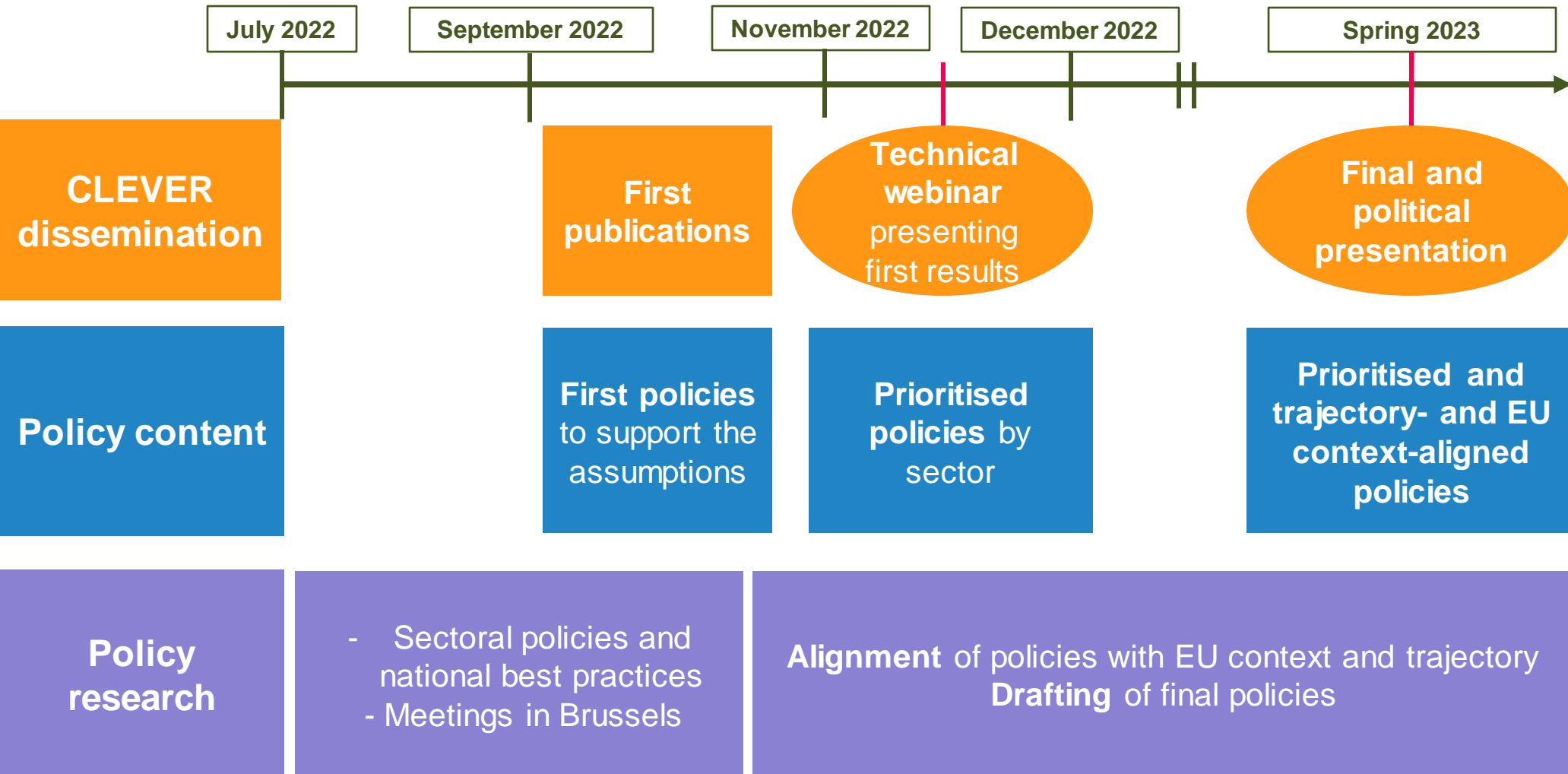


- **-50% energy consumption in 2050 (/ 2015) already reached by V0**
- **Energy sufficiency as key to bridging the gap between climate necessity and a feasible, democratic and deeply sustainable pace of transformation**
- **2 major focus: strong implementation of the 2030 framework (FF55), and (2035 and) 2040 target levels**

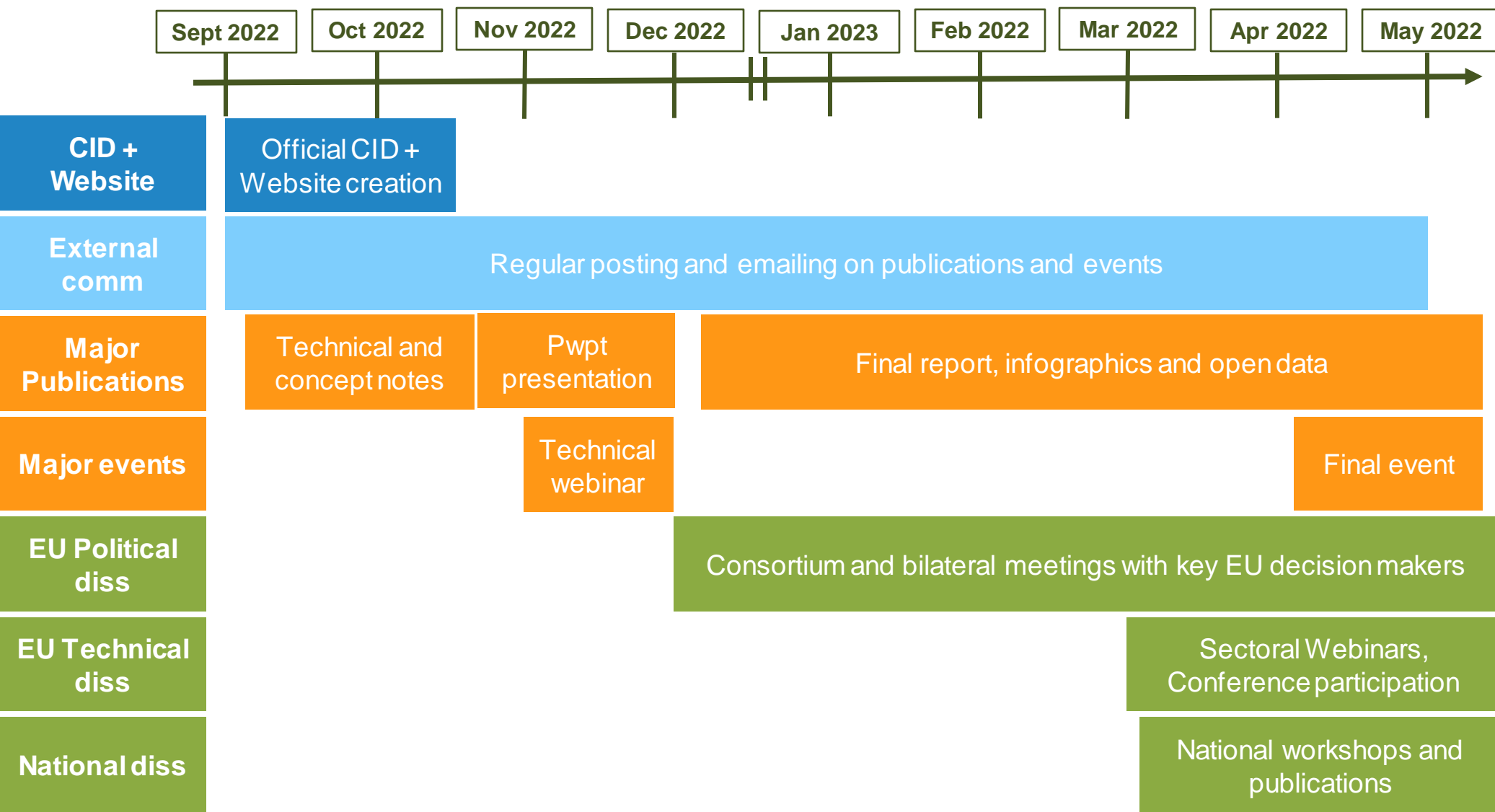
Focus on trajectories finalisation



Focus on policies planning



Focus on dissemination and communication



CLEVER contacts

We are happy to share, extend our network and develop new exchanges about sufficiency-based, ambitious energy and climate scenarios and policies in Europe



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<https://negawatt.org/Scenario-europeen>