

East and North Finland in Industrial Transition

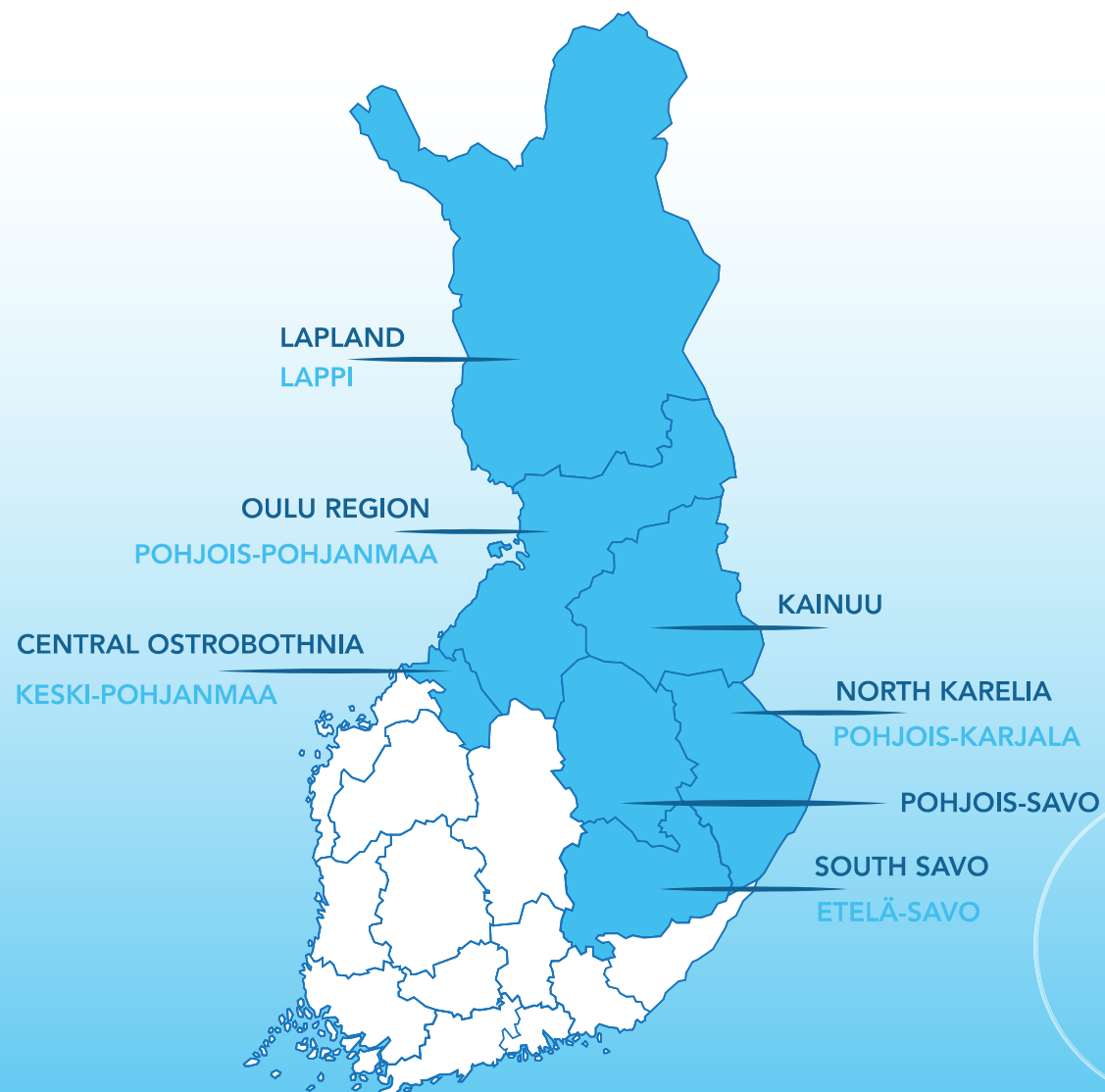
High Impact Action Call

Oulu 4th September 2019

elmoenf.eu/hia or elmo-enf.eu/hia

East & North FINLAND

Itä- & Pohjois-
SUOMI



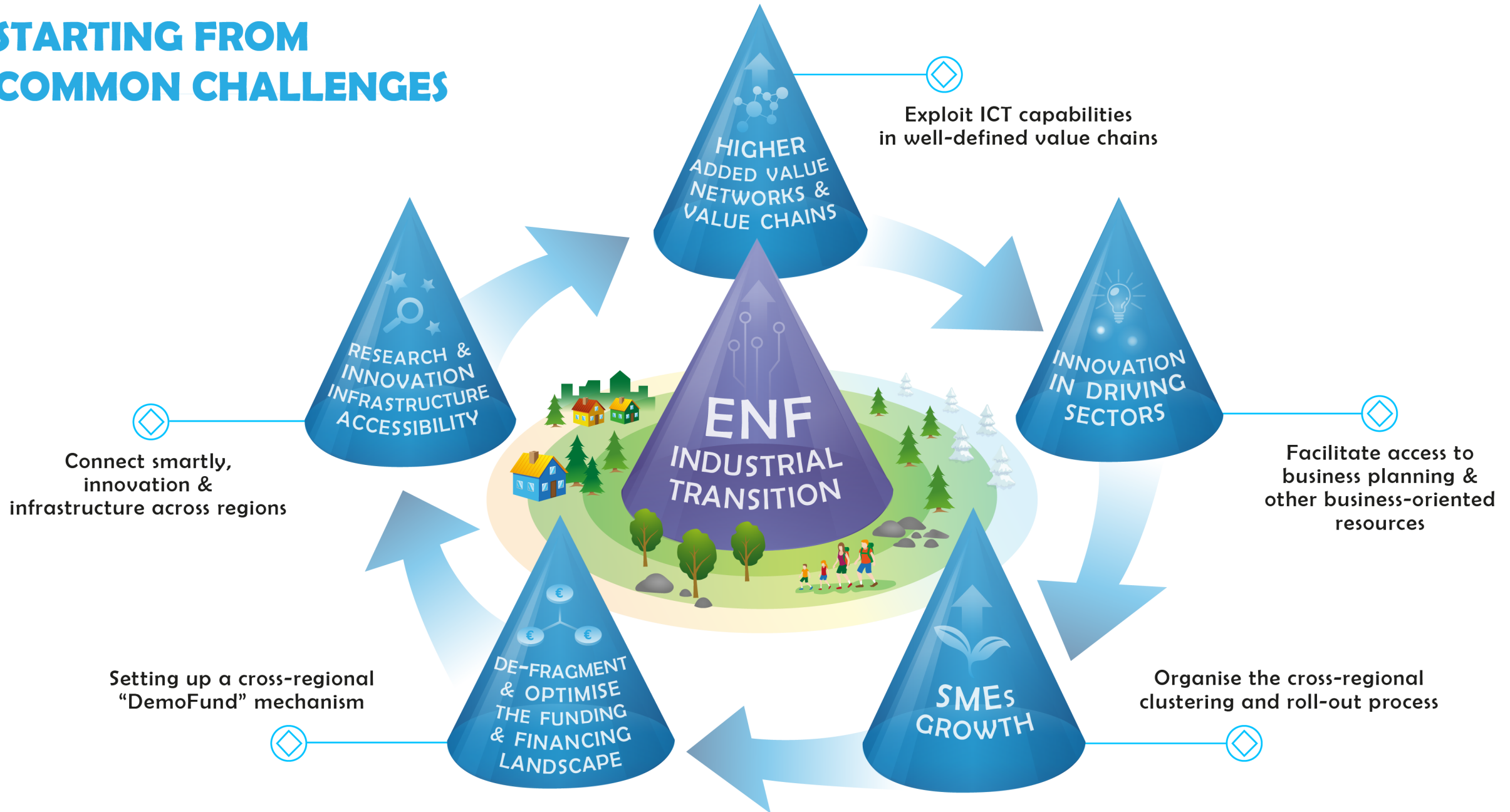


Challenges – setting the scene

- Isolation, fragmentation and lack of critical mass (sparsely populated, limited or negative population growth, long distances etc)
- Abundant and rich but under-valorised forest-based natural resources
- Under-utilized or inadequate support for scaling up innovation in the Finnish context
- Under-developed ‘joint transition policy’ in the cross-regional, ENF context.

Next slide: Industrial Transition challenges have been defined based on these four overall challenges of ENF

STARTING FROM COMMON CHALLENGES





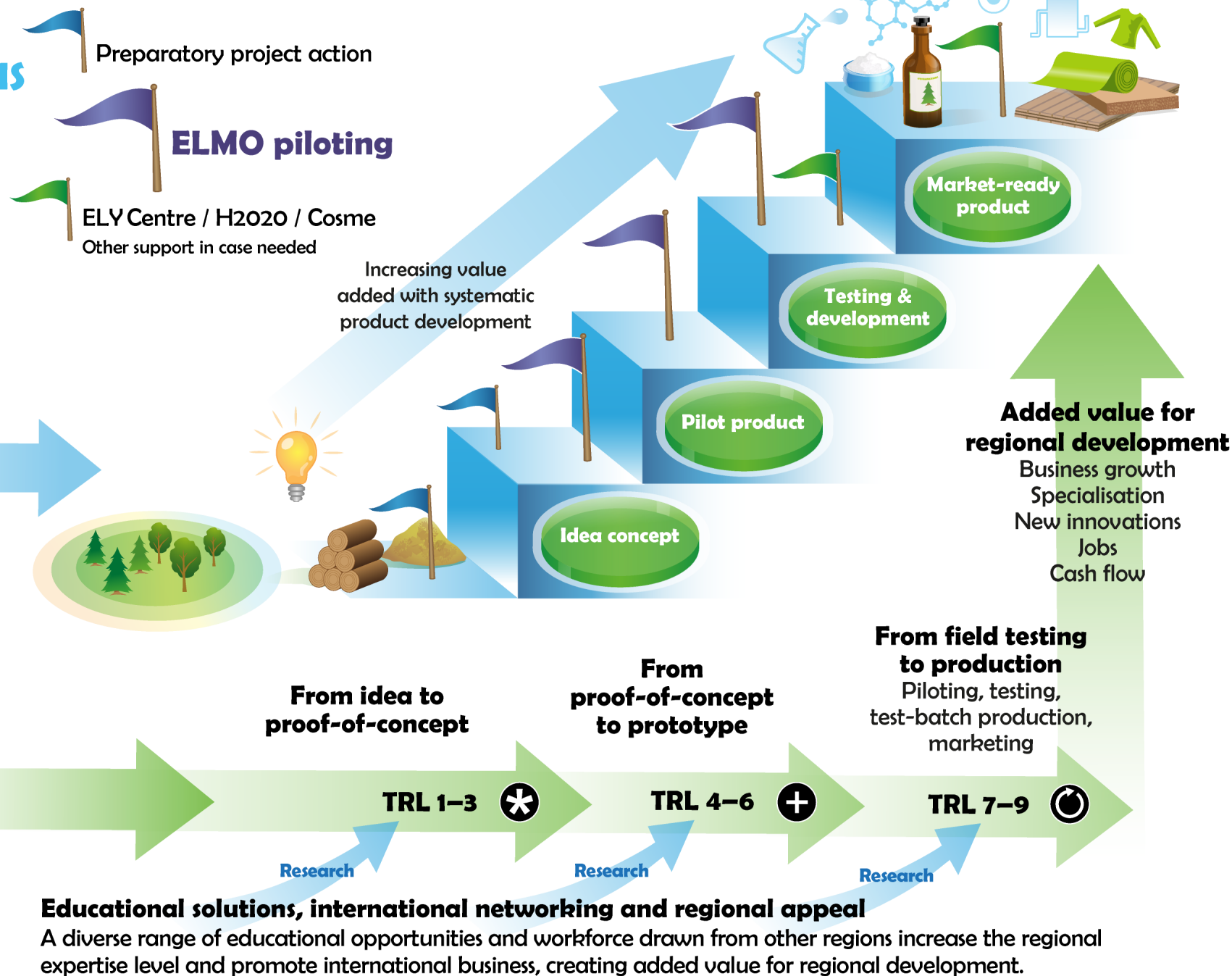
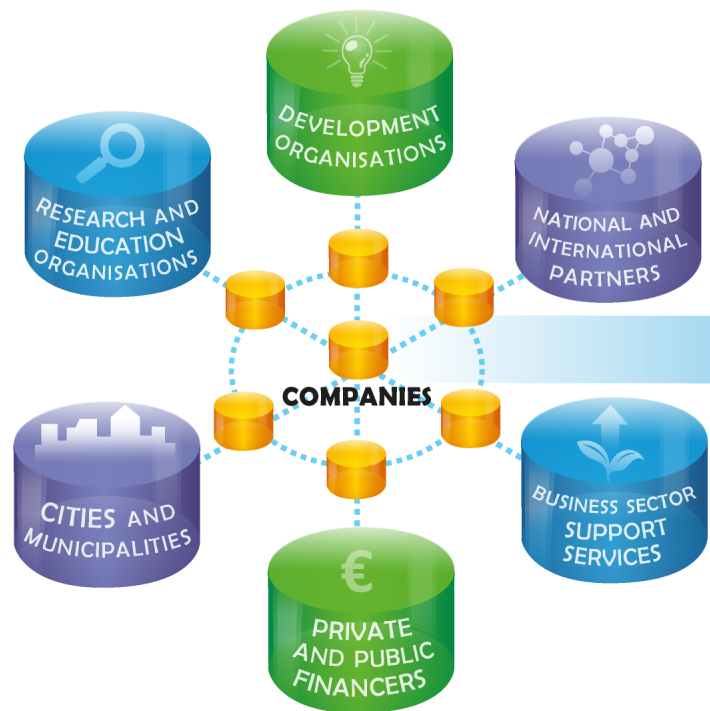
“Digitisation and Circular Economy enhancing the Bio-Economy in East-North Finland” applied to “Tree, Wood & Timber Value chain”

- Improved automation and digitisation
- New smart, digital solutions
 - e.g. new sensors, real-time monitoring, digital platform for sharing and bundling of side-streams, AI applied to harvesting and logging etc.
- Upscaling of natural products
 - e.g. wood construction, drugs, medicines and cosmetics, energy, textile, food, inorganic chemistry etc.
- Industrial symbiosis
 - better valorisation of side streams such as wood chips, tree bark, saw dust, bio-ethanol, lignin, turpentine, CO2, bio-composites and bio-plastics etc.
- Upscale of (existing and new) solutions for water treatment and recycling

➤ **Cross-regional voucher system**

➤ **Focus on small SMEs & micro-companies, with growth ambition**

**REGIONAL ACTORS
AND KNOWLEDGE PLATFORMS
DEVELOPING INNOVATIVE
INTERNATIONAL BUSINESS**



ENF HIGH IMPACT ACTION PROCESS

- Topic – Upgrading the forest based value chain
- Direct Beneficiaries: SMEs
- Joint initiative of the companies who co-develop together with 1–2 service providers from 2 or more ENF regions
- Vouchers 40 000–45 000€, available fund 279 000€
- 80 % support, 20 % (in-kind, e.g. salaries)
- Focus is on new or better solutions(s) for a specific end-user, in real industrial environment (somewhere in ENF, but can be upscale later on and exported)
- Integration with other existing projects is recommended

