



North-East Finland Industrial Transition Pilot

Innovation Camp - Challenges





Challenge 1: Research & Innovation Infrastructures' (RIIs) accessibility

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1. Understanding:

1. RIIs = critical component of eco-system to facilitate industrial transition through technology deployment in industry (testing-validating-upscaling-certifying new technologies / applications / processes)
2. Major public investment in RIIs (and budget pressures) request optimizing utilization & access by industry

2. Key Qs =

1. Are there unexploited complementarities between RIIs from different regions that can make a difference in the industrial transition shift ?
2. If yes, how do we better exploit those ?



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Exploring the challenge & its opportunities

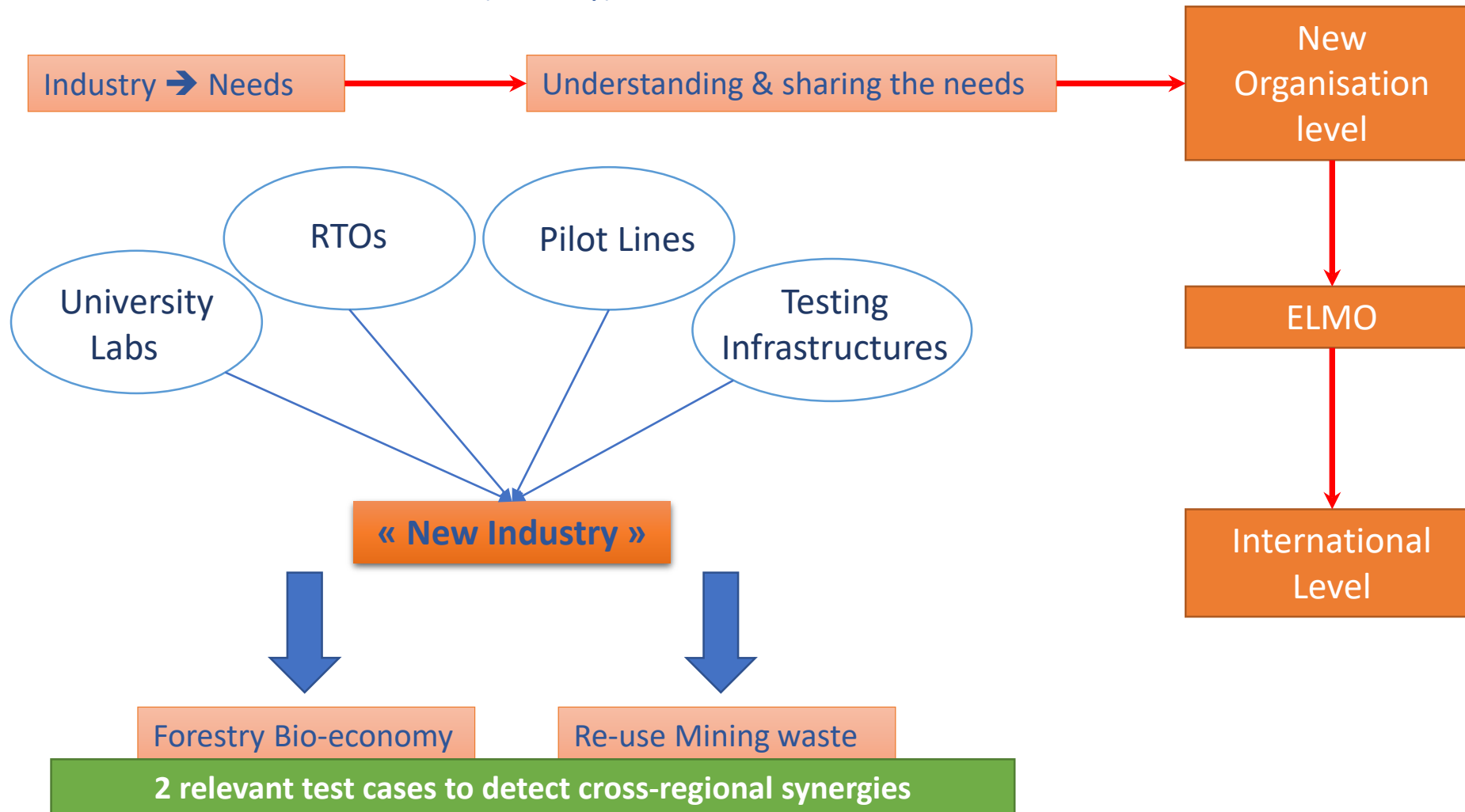
- Based on yesterday's discussions, we should optimise accessibility by industry, to support it in its quest to new products, processes and business models (ind transition)
- Optimised accessibility should take into account:
 - Multi-KETs perspective (integrated systems / processes)
 - Multi-TRLs perspective towards industrial upscale (TRL3-7/8)
 - Beyond technology only (skills, certification, standards etc)
- RII capabilities are being / have been recently mapped (to varying degrees) *within* most of the ENF regions, but there is a need to better share and integrate those results *between* the regions
 - **Action line 1: coordinate the sharing, integrating and coherently complementing the mapping data at ENF level (including info on service providers and contact persons)**
- Likewise, need was felt to better share 'good practices' (experiences) in reaching out to / collaborating with Industry (differences in instruments between ENF regions)
 - **Action line 2: facilitate and organise sharing of good practices between ENF RIIs**
- How to better serve a customer (industry) ?



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NEXT STEPS:

Mapping

- Regional / based on S#
- N-E Finland

Coordination

- Case by case

Sales & Marketing

- Education
- Funding (BF & ELY)

Platforms

- ELMO S3 Topics
- HUB based funding in 2020

2 relevant test cases to detect cross-regional synergies

Forestry Bio-economy

Biocomposites, e.g. Smart Food container

- Raw materials (*)
- Processing (*)
- Manufacturing (*)
- Certification (*)
- Deding (*)
- Testing *)
- Safety (*)
- Marketing (? → companies ?)
- Sales (? → companies ?)
- IPR & Contracts (*)
- LCA / Life Cycle Assessment (*)

(*): present in one of the ENF Regions

COORDINATION !!!!!

- Industrial highly relevant
- Indigenous industrial companies
- Worldwide export possibilities
- Almost whole value chain available in NEF !!!
- Main missing asset: integration & coordination ...



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1. Universities + Ministeries (envir., mmm, soc., etc.)
2. Univ. Minist. EU-comissiom
3. Universities & Companies
4. Research org. Mining companies (GTK, VTT, universities), process chemistry, companies, municipalities
5. Metal processing companies
 - Metal refining & product
 - Manufacturers
 - Ceramics manufacturing companies
 - Art+design companies
 - Water & Environment consultants
 - Measure device manufactures
6. Infrastructure + AI: OMS, GTK, VTT, UL, UEF, Test environments

