

A TRANSPORT SPECIFIC LIFE-CYCLE ASSESSMENT

THE CSA TRANSENSUS LCA

Development of the methodological building-blocks for the TranSensus LCA methodology

Transensus LCA Consortium

Representatives attending: Élise Monnier,  

Nikolas Hill, Thilo Bein



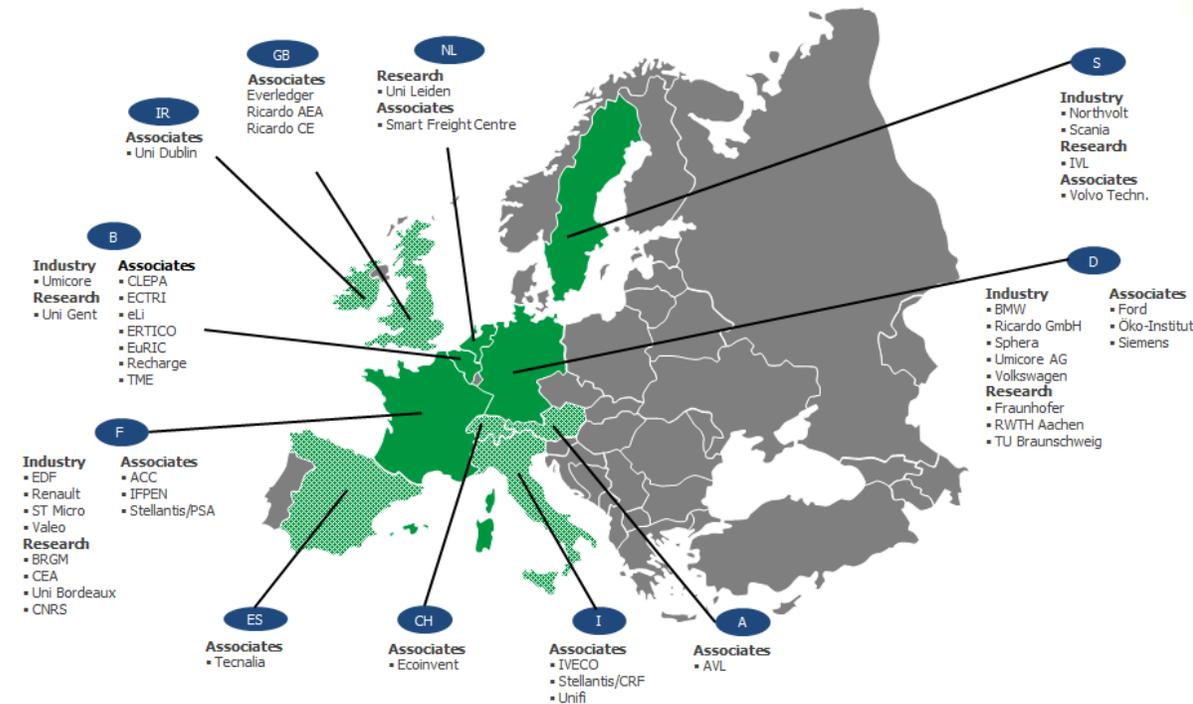
09/01/2024, 13th IWG on A-LCA, 8th-9th January 2024, United Nations, Geneva

The Coordinated and Support Action (CSA) TranSensus LCA

€ EU Funding ~3,7M€
 30 Months Started in **January 2023**
 20 Beneficiaries
 11 Industrial Partners
 24 Associated Partners
 9 Research Partners
 4 Wider consultation groups

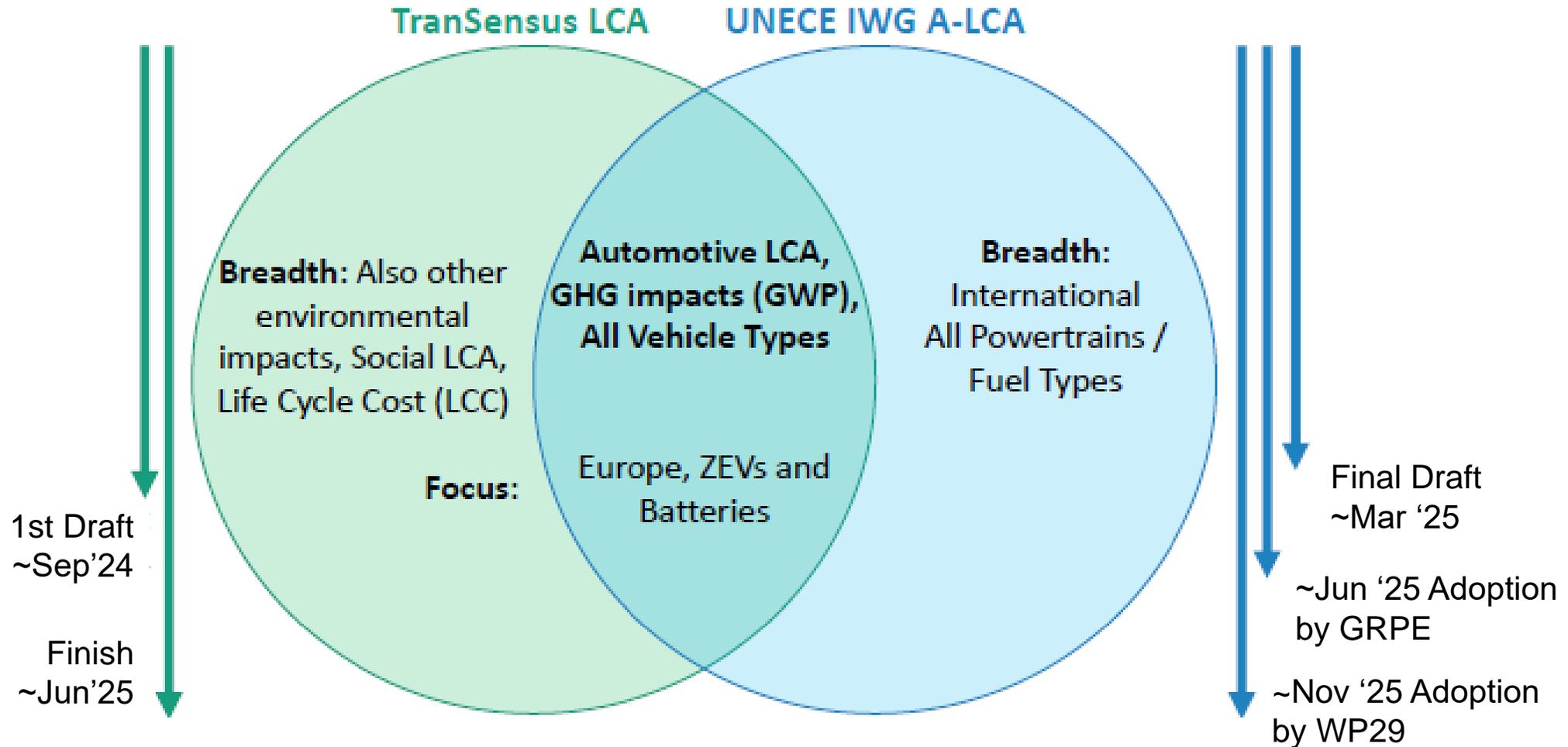
Commonly accepted and applied single LCA approach for zero-emission road transport

- Conceptualize and demonstrate a single, European-wide real-data LCA approach for zero-emission road transport
- Harmonization of methodologies, tools and datasets
- Elaborate an ontology and framework for a European-wide LCI database
- Conceptualize LCI data management and update along the life cycle and along the supply chain
- Paving the way for LCA-based product and business development
- Consensus building across all stakeholders



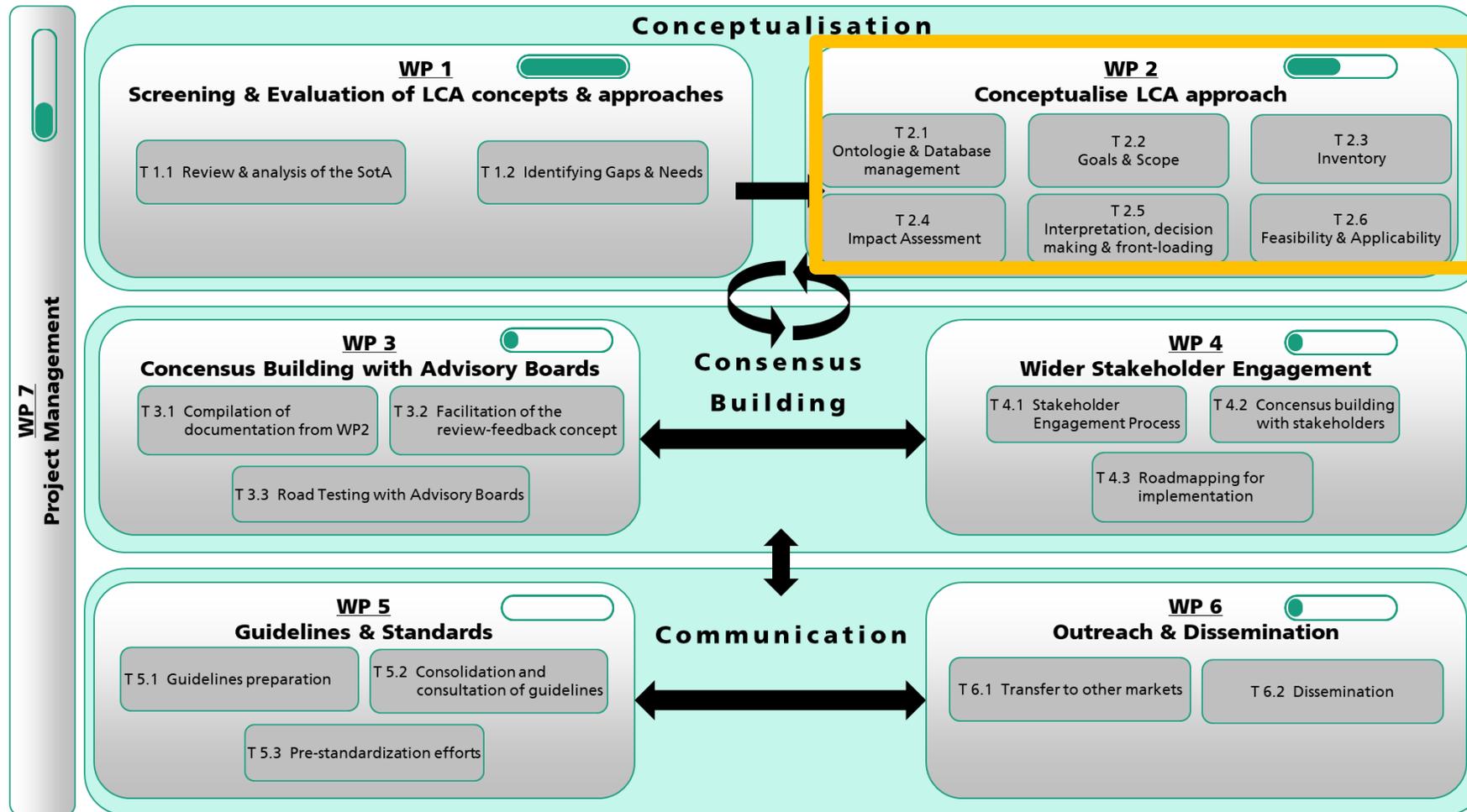
Overlap: TranSensus LCA and UNECE IWG A-LCA

Reminder from previous presentation



Transensus LCA Project

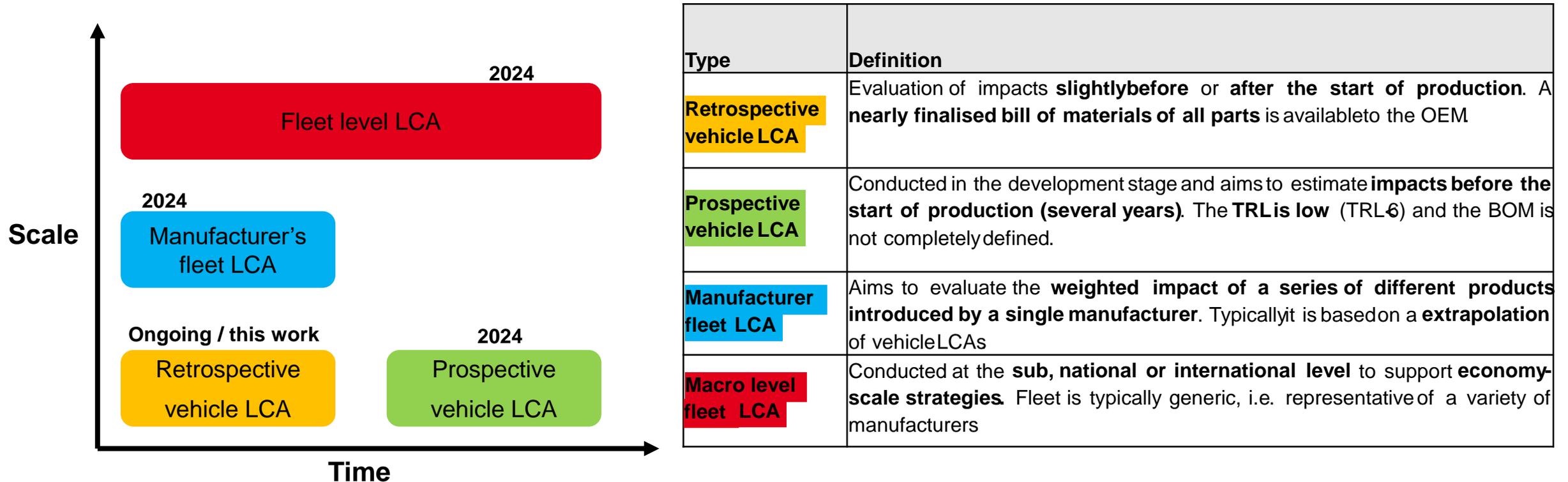
Work Package Structure and Progress in 2023



Focus of today's presentation

LCA types considered in TranSensus LCA

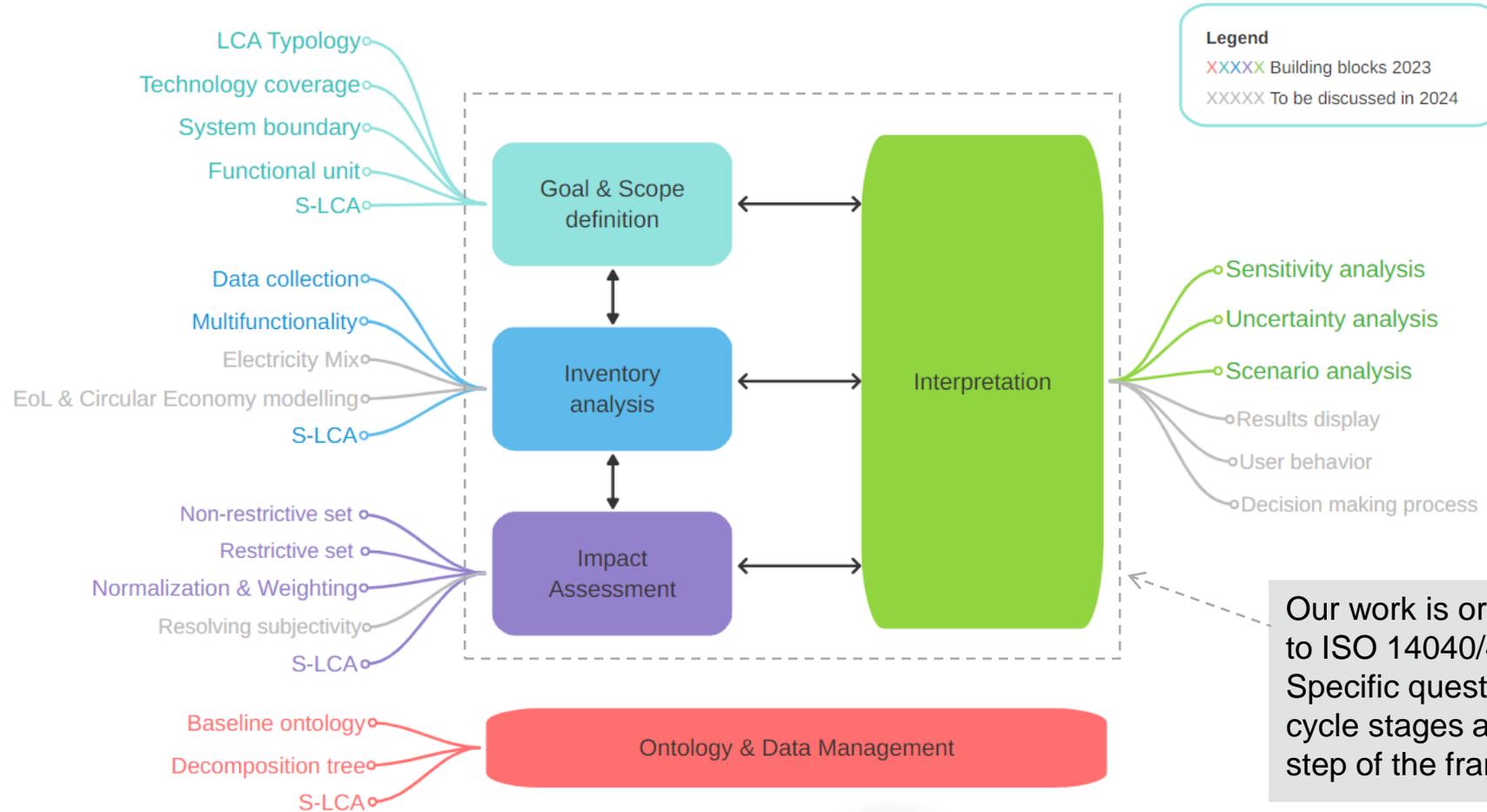
Typology and planning



Conceptualize an LCA approach

Overview of 2023 WP2 methodological work

Retrospective Vehicle (S)-LCA - Building blocks of TransensusLCA methodology



Our work is organized according to ISO 14040/44 LCA framework. Specific questions related to life cycle stages are treated in each step of the framework.

Conceptualize an LCA approach

How we proceed for both scientific & internally shared building blocks



State of the art & needs and gaps
(D1.1 & D1.2)



Discussion on methodological options

- current practise
- problem clarification
- solutions
- opinions

Tasks:

- 2.1 Database & ontology
- 2.2 Goal & Scope
- 2.3 Inventory
- 2.4 Impact assessment
- 2.5 Interpretation



Selection of most appropriate methodological **approaches**

Type 1: one recommendation

Type 2: reduced number of possible options



Internal WP2 **voting** on options

Qualified Majority (2/3)?



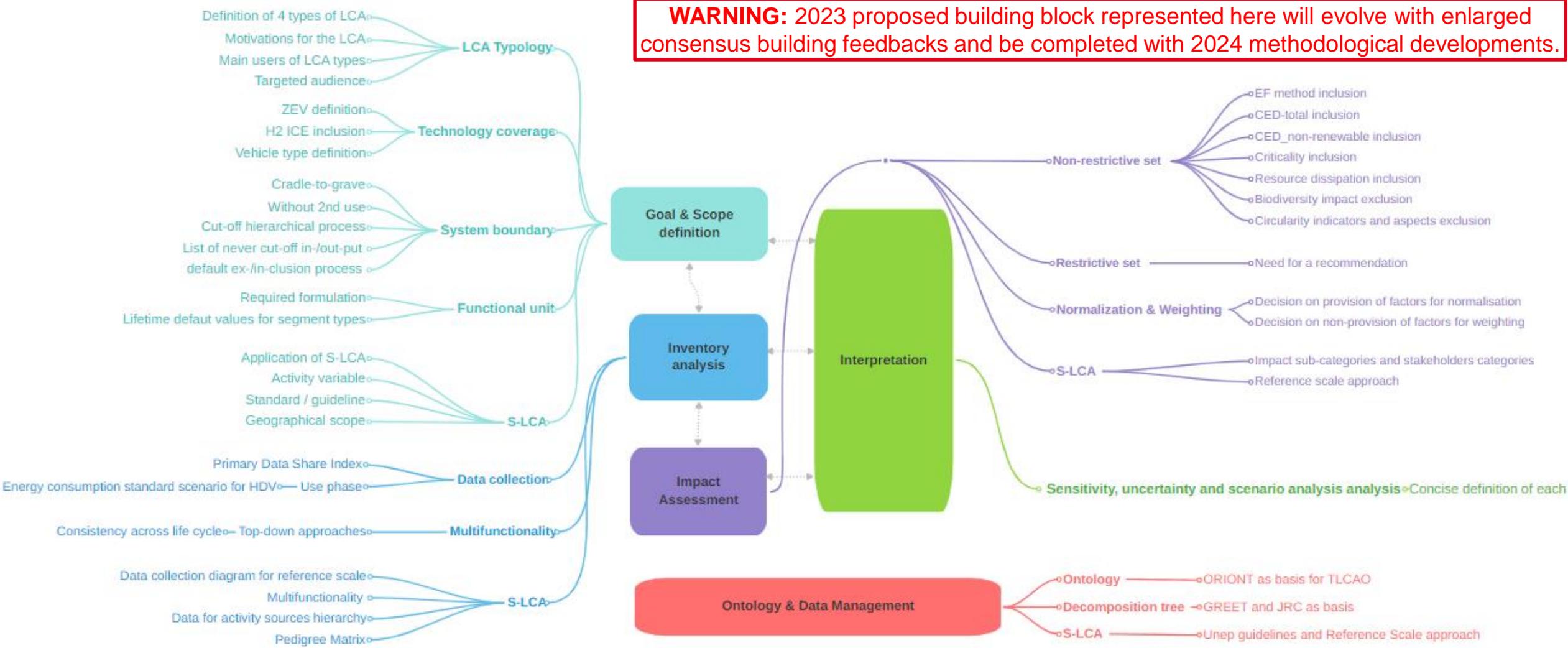
Part of the TranSensus building blocks
(Deliverable 2.2)

Further **consortium discussions + consultation advisory boards**

Conceptualize an LCA approach

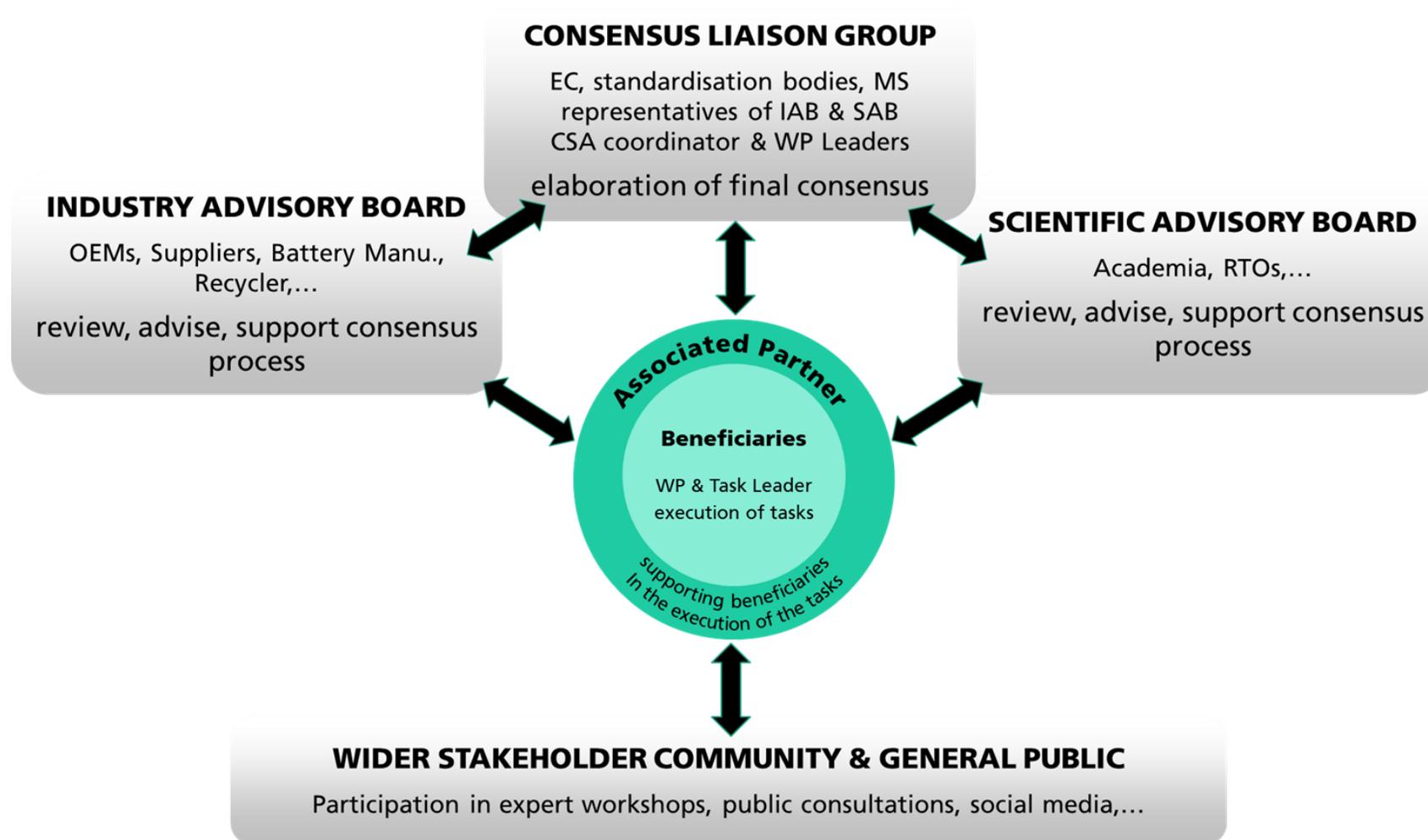
Proposed 2023 WP2 building blocks for retrospective vehicle

WARNING: 2023 proposed building block represented here will evolve with enlarged consensus building feedbacks and be completed with 2024 methodological developments.

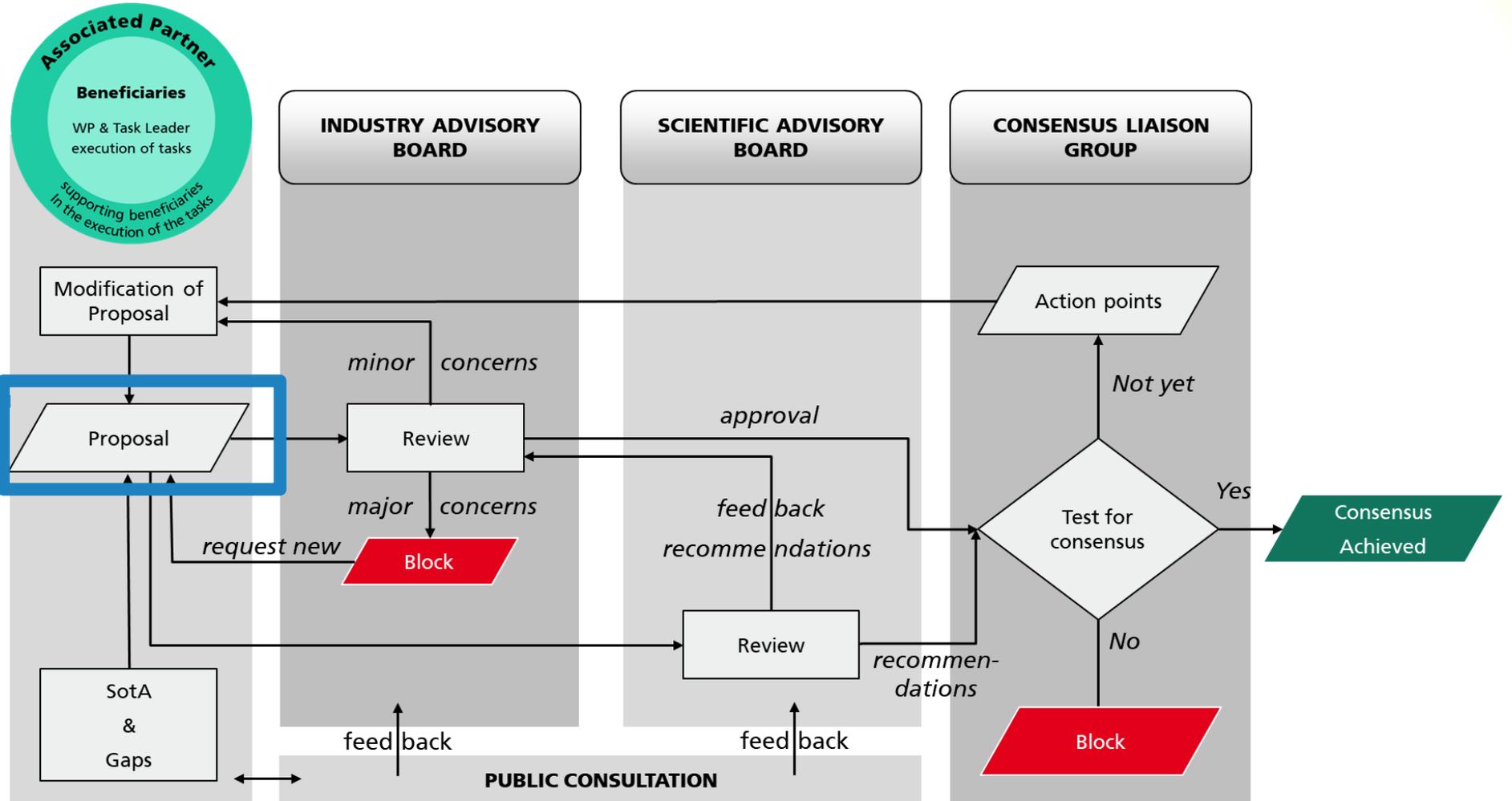


Broadening consensus building

TranSensus LCA Management Structure



Broadening consensus building Decision Making Process

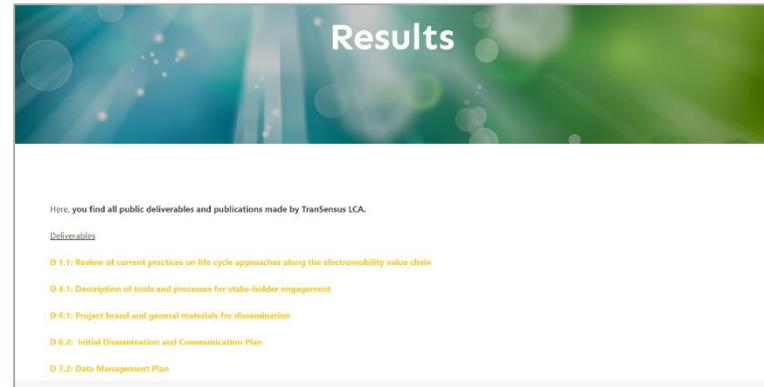


1st Loop is launched!

Some objectives (S1 2024):

- build a wider consensus based on 2023 WP2 proposal
- keep developing the project's LCA approach

More information



- www.lca4transport.eu

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- **Contacts:**

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- Regular representative of the project at UNECE: Nikolas.Hill@ricardo.com
- Today's speaker: elise.monnier@cea.fr, WP2 co-leader with gladys.moreac-njeim@renault.com

A pair of hands is shown from the top, cupping a small, realistic globe of the Earth. The globe is centered on the Americas, with North and South America visible in shades of green and brown, surrounded by blue oceans and white clouds. The hands are light-skinned and positioned symmetrically around the globe. The background is a soft-focus, bright green, suggesting a natural, outdoor setting with sunlight filtering through leaves.

Thank you very much for your attention!

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