

Willkommen
Welcome
Bienvenue



The WISER project: a digital ecosystem to streamline collaboration on GHG assessments

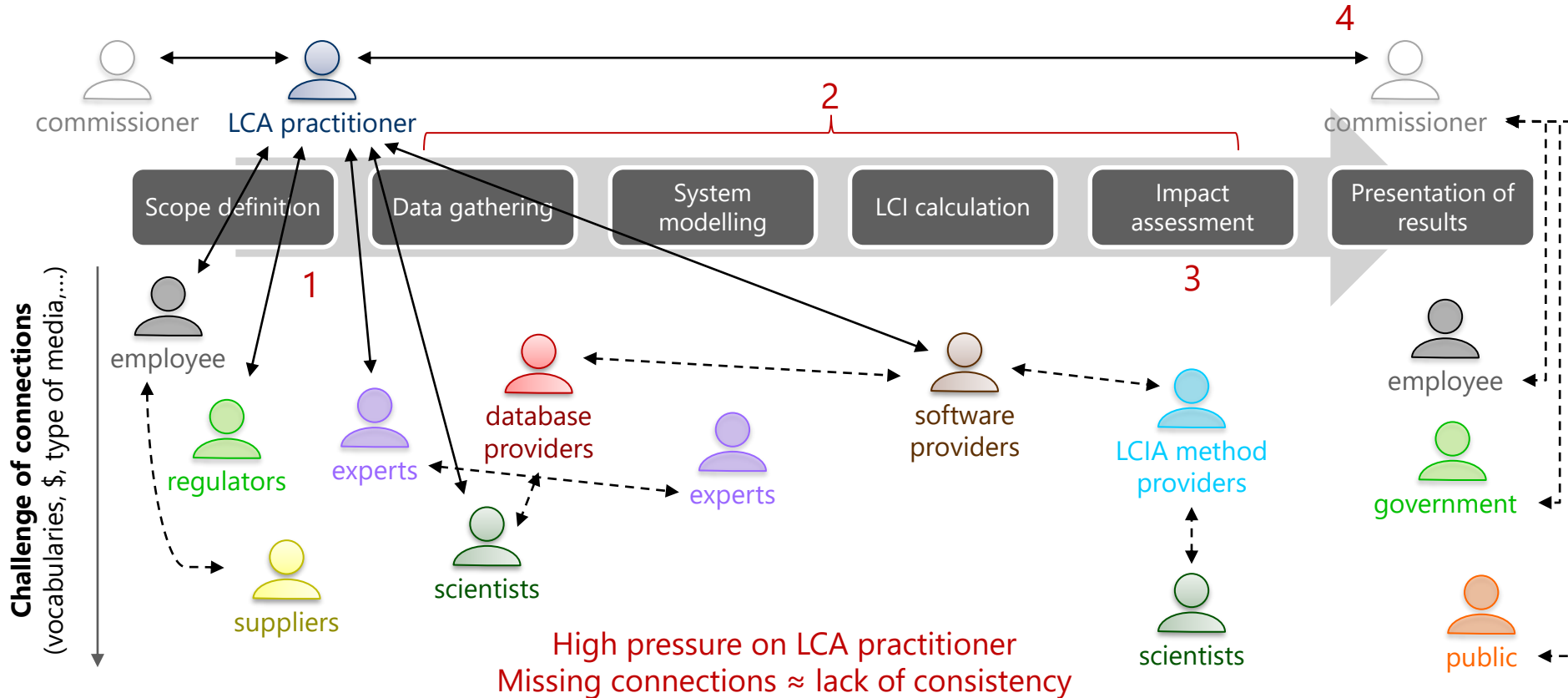
79th LCA Discussion Forum:

Collaboration within and beyond the LCA community: success stories, obstacles and solutions

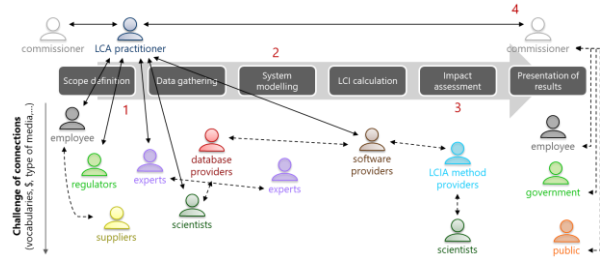
18 November 2021, Zürich Switzerland

Didier Beloin-Saint-Pierre (dib@empa.ch)

A picture of collaboration in LCA



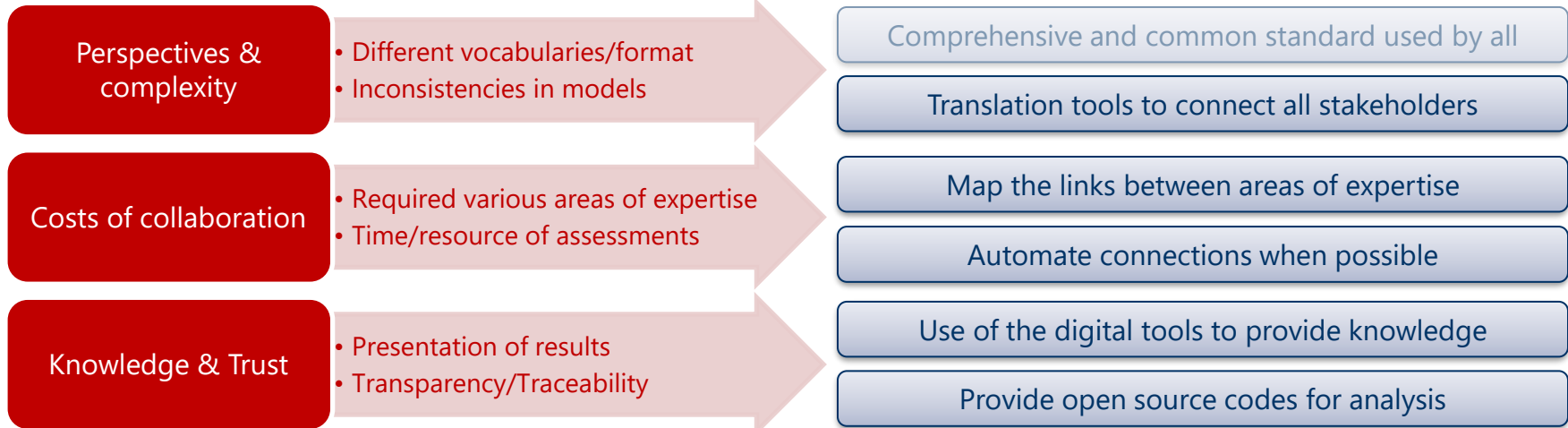
Challenges and potential solutions



Communication and transformation of knowledge

Look for solutions in the ICT sector

Dealing with:

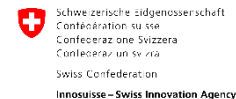


WISER proposition

A digital ecosystem for collaboration

Web of Interoperable Digital Services (WIDS)

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SP1: Data & Framework Repository for GHG assessment

- Different databases and format
- Ontology of LCA models
- Web repository (e.g. GLAD network)



SP2: Computation & Assessment Toolbox

- Web services
- LCA tools
- Cloud options
- Different standards



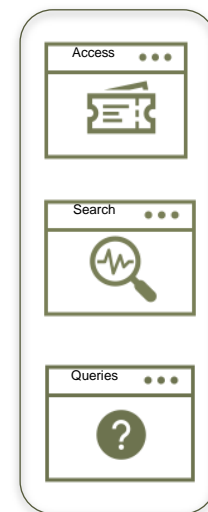
- Define how all services are connected (on the web)
- Offers a formal representation of:
 - Concepts
 - Relationships
 - Assessment process
- Ensure interoperability

SP3 Communication Interfaces & Services

- Websites
- Applications
- Dashboard
- Data visualisation
- Tailored options



<https://www.electricitymap.org/map>

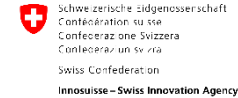


- Create connections between different actors & assessment tools → 1. Reaching more users & wider audience
- Provide the “translation dictionary” between stakeholders → 2. Manage different contexts & trust
- Enable and promote community-based digital developments → 3. Lower the costs of access to knowledge

WISER goals and strategy

[2022-2025] Innosuisse Flagship

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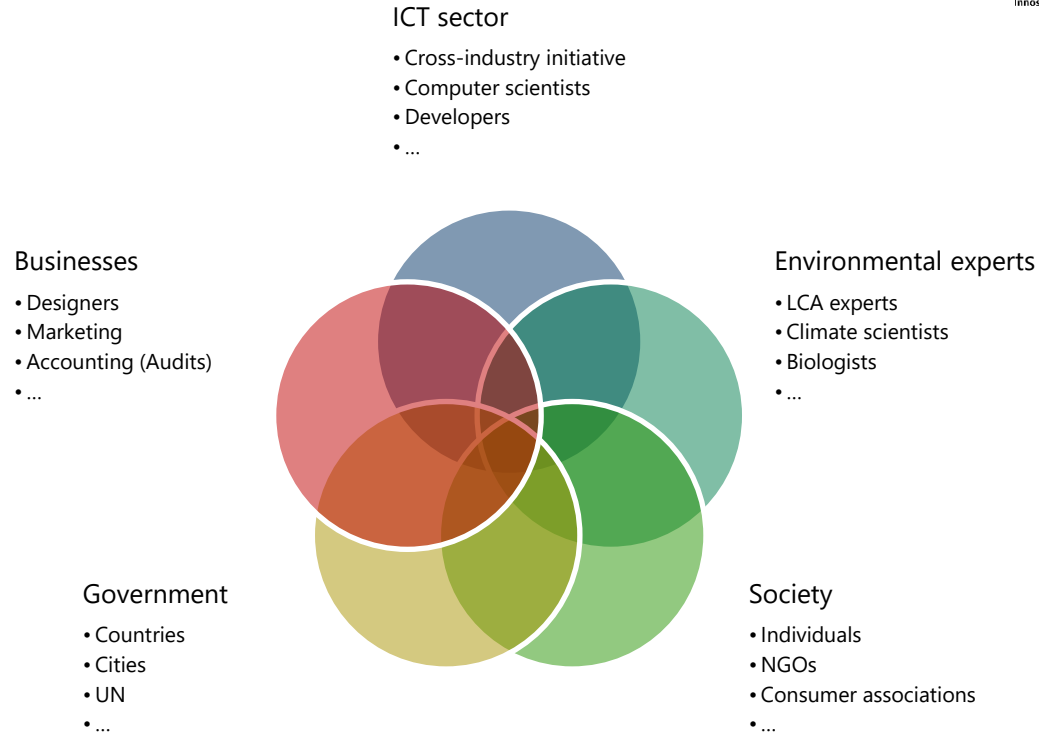
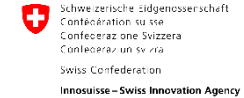


- Creation of an open, inclusive and transparent digital ecosystem for:
 - Up-to-date, context-specific and reliable data on GHG emissions
 - Tailored solutions to the different needs of public & private stakeholders
 - The initiation and evaluation of decarbonisation actions

- Key aspects of development:
 - Builds on existing solutions and automation options
 - Focus on proof-of-concept for manufacturing sites, cities & data centres
 - Identification of viable business model to maintain the WIDS services
 - Importance of transdisciplinary consortium

Building the WISER community

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Thank you for your attention

For questions/ideas/comments: dib@empa.ch

WISER: Web of Interoperable Digital Services for Knowledge on Decarbonisation Pathways

