



Life Cycle Initiative

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# Guidance on Organizational LCA

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# Introduction – Motivation

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- The **organization-level** decision making has an **influential role** in shaping environmental outcomes. Environmental aspects should be considered, as well as technical and economic ones.
- Organization approaches have mainly focused on **single aspects**.
  - Multi-impact assessment is needed to avoid trade-offs.
- High % of impacts in the **value chain**, are due to raw materials, transport, energy production, etc.
  - A perspective beyond the organization boundaries is to be used.

# Introduction – Existing organizational approaches

- Life cycle thinking currently offers a **great opportunity** to include O-LCA, although organization perspective was mostly overlooked.
- **ISO/TS 14072** “Environmental management – Life cycle assessment – Requirements and guidelines for Organizational Life Cycle Assessment”.
  - Framework for the Guidance (developed in parallel).
- Since 2009, **organizational environmental analysis standards** started to emerge (GHG Protocol Scope 3 Standard; ISO/TR 14069...)
  - Some do not require considering the entire life cycle (or optional)
  - Single-impact oriented. Hiding burden shifting between steps of the value chain and between impact categories.
- **Organization Environmental Footprint – EC OEF**
  - Many points in common with O-LCA. In disagreement with some ISO 14040 requirements

# The flagship project — Goal and tasks

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To contribute to demonstrate that the **benefits and the potential of the life cycle approach** are not restricted to product assessment. It shows that its application to organizations is **relevant, meaningful and feasible** within the framework of product LCA standards.

**Started in:** April 2013. **Expected duration:** 3 years.

Task 1: Draft Guidance Document (commissioned WG)

Task 2: Consolidated Guidance Document (feedback stakeholders)

Task 3: Road-tested Guidance (**start spring** 2015)

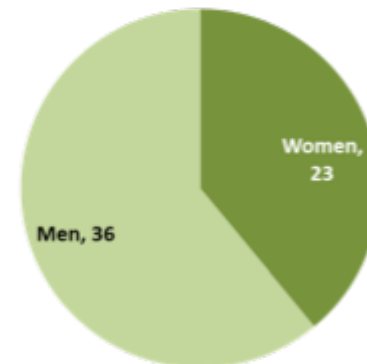
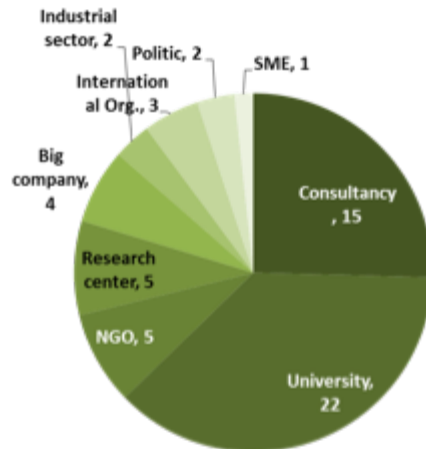
# The flagship project — Participants

## Promoting group:

- **Prof. Atsushi Inaba**, Kogakuin University, Japan (co-leader)
- **Prof. Dr. Matthias Finkbeiner**, TU Berlin, Germany (co-leader)
- Dr. Julia Martínez-Blanco, TU Berlin, Germany (coordinator)
- Ms. Sonia Valdivia, World Resource Forum, Global
- Dr. Llorenç Milà-i-Canals, UNEP, Global
- Ms. Ana Quirós, ECO GLOBAL & ALCALA, Costa Rica



## Members involved in Guidance drafting and consolidation ≈ 70



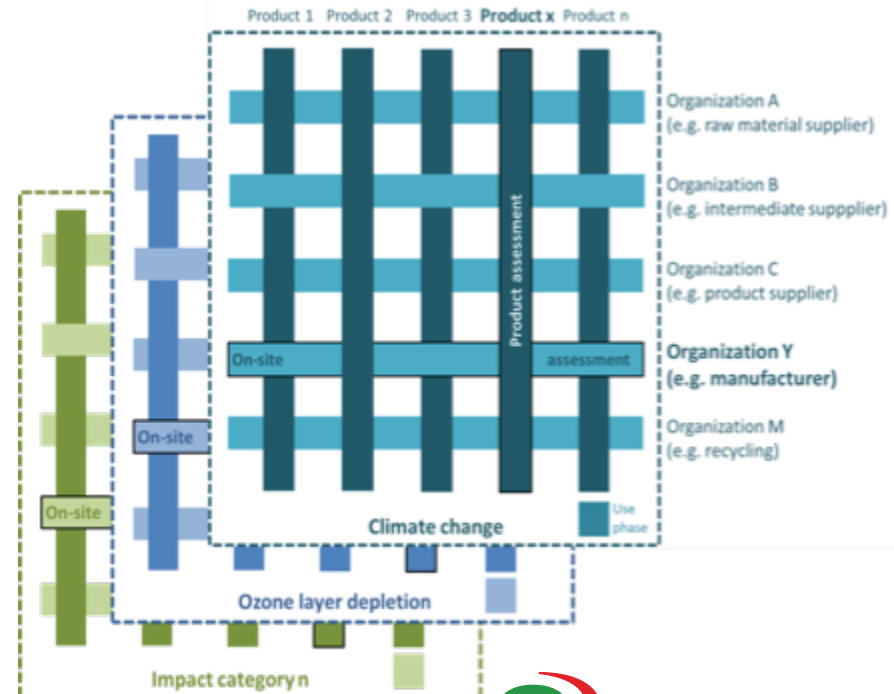
+ case study providers + road testers (2015)

# Guidance — What is O-LCA?

Organizational LCA is a compilation and evaluation of the inputs, outputs and potential environmental impacts of the activities associated with the organization adopting a life cycle perspective (ISO/TS 14072).

## O-LCA main features

- the object of study is **the organization**;
- the approach is **the life cycle**;
- the categories considered lead to **multi-criteria assessment**.



# Guidance — Why O-LCA?

## Examples of organization goals served by O-LCA:

- **Gain insight** in internal operations and value chain.
- **Identify hotspots** and prioritize actions.
- Assist environmental **performance tracking**.
- Ground **environmental communication** and address stakeholders' enquiries. E.g., sustainability reporting.
- **Promote** environmental management along the value chain.
- Provide guidance for organizations in developing countries.
- ...



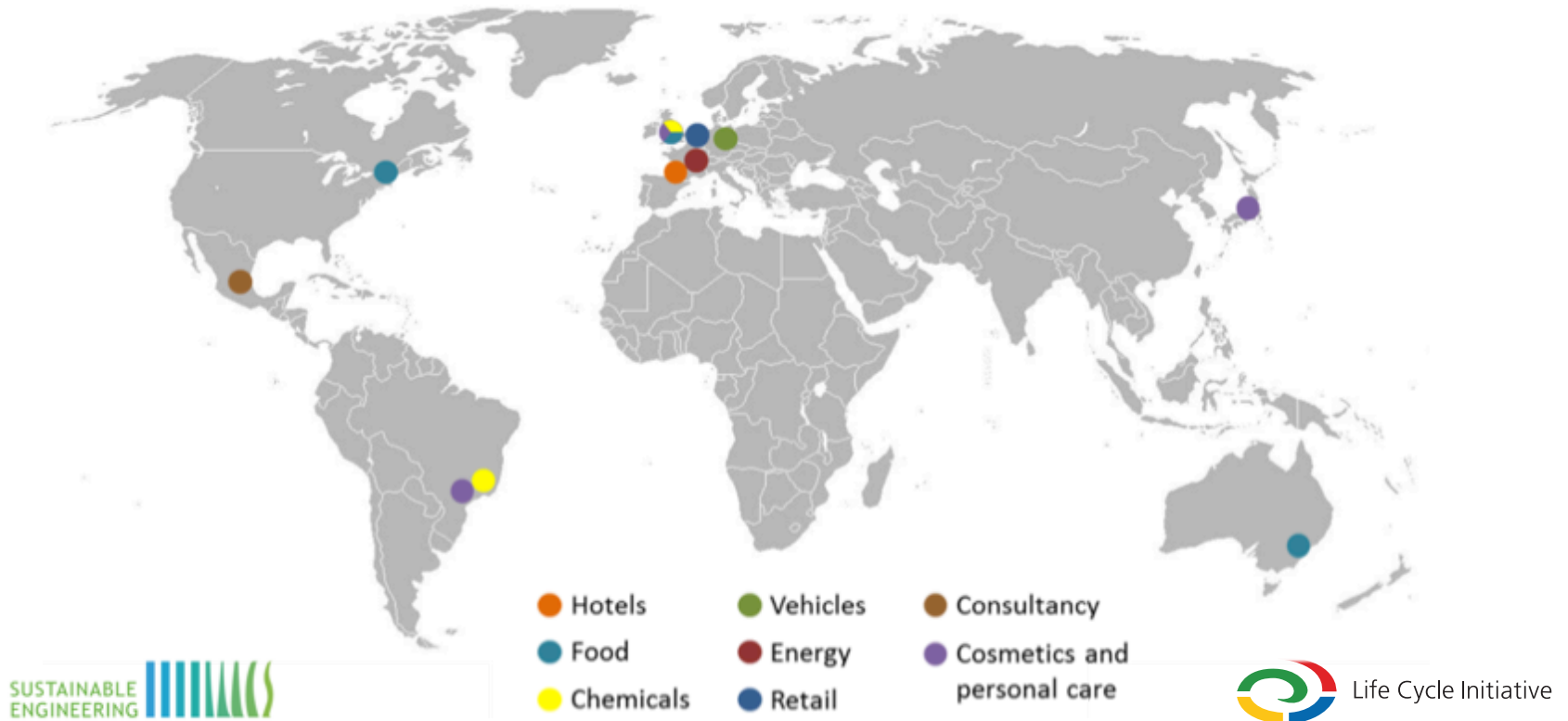
# Scope of the Guidance

## “Organizational Life Cycle Assessment – Guidance for organizations to conduct LCA considering their value chain”

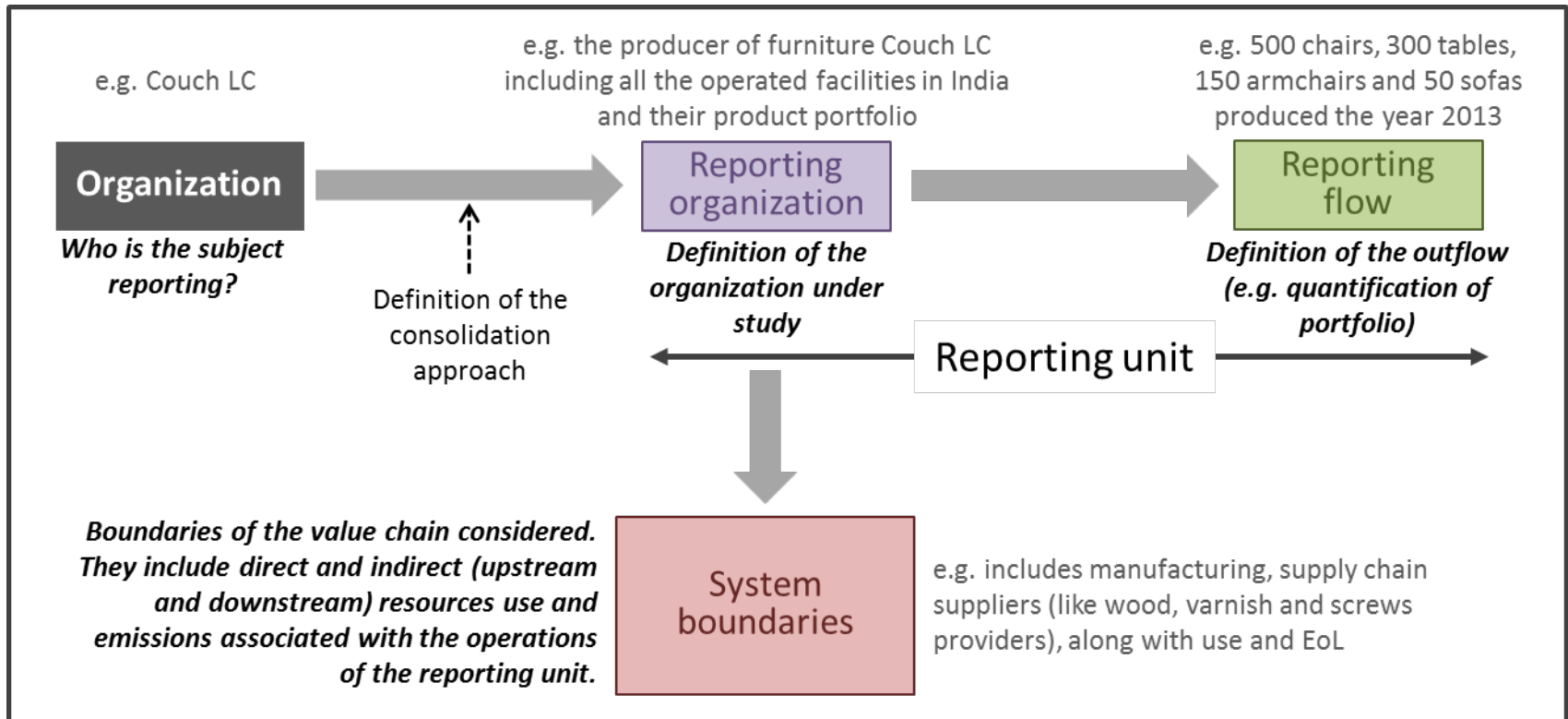
- Highlight potential of organizational perspective within LCT.
- **Environmental** performance (potentiality for S-LCA).
- Recommendations about **challenging methodological issues**.
- Build on existing **internationally-agreed guides**, methods and standards  
=> it particularly aligns with upcoming **ISO/TS 14072**.
- Not for **comparative assertions** intended to be disclosed to the public  
=> intended for performance tracking
- Intended for organizations of all sizes, both public and private, and in all economic or institutional sectors/levels  
=> **pathways** to the implementation of O-LCA + **early success stories**

# Guidance — Early success stories

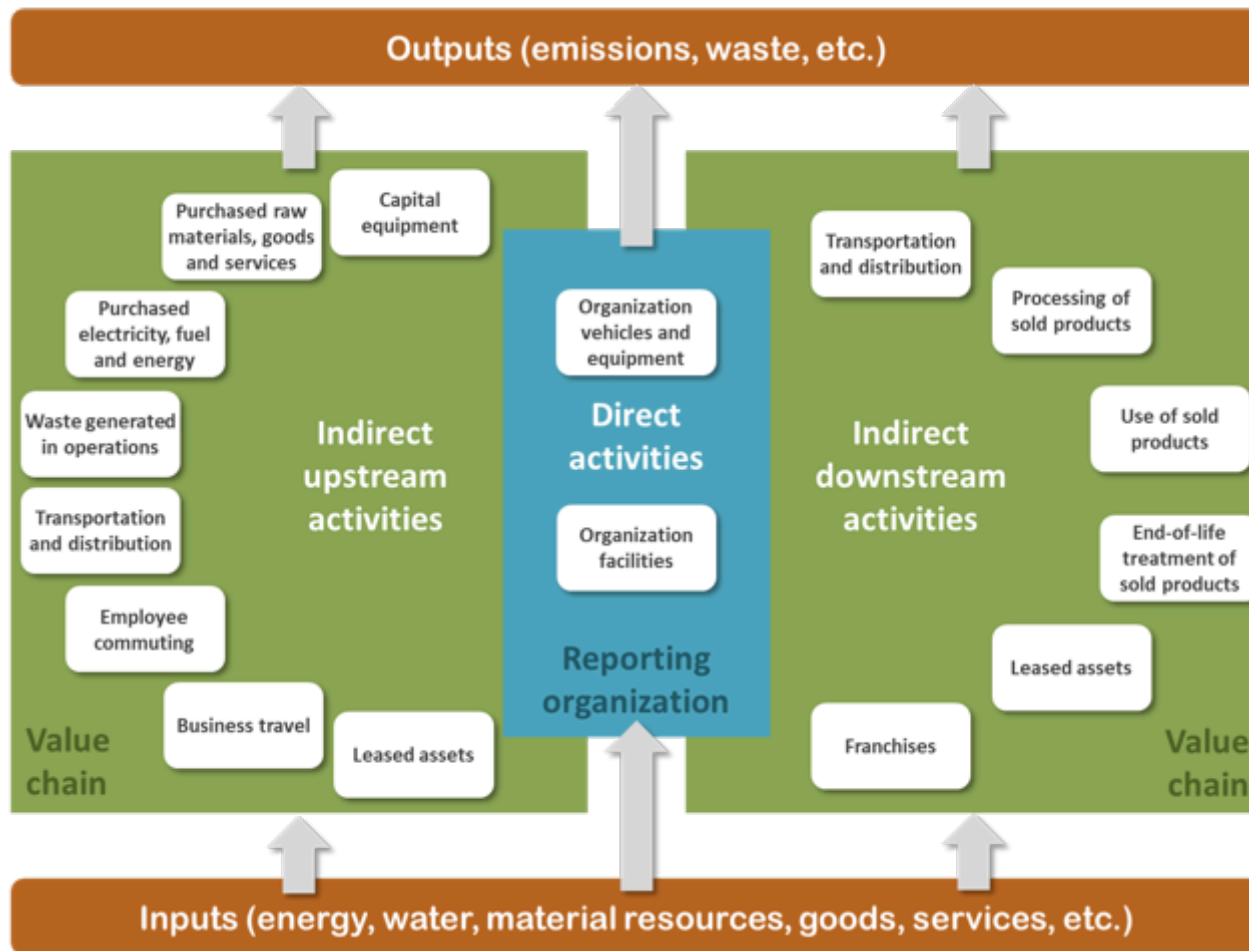
Although complete applications of O-LCA are not currently documented-available, this Guidance aims to share the experience acquired by some early success stories on the use of approaches that may lead or be encompassed by the more comprehensive O-LCA.



# Technical framework – Scope Definition



# Technical framework – Involved activities



# Future - Next steps

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## Task 2: Consolidated Guidance Document

- Publish the document by April 2015

## Task 3: Road-tested Guidance (2015)

- Application of the Guidance to 10 organizations.
- Use different pathways. Different sectors, sizes, regions...
- Publish the results.

## Outlook

- Further explore the potential use for assessing social aspects and impacts

# Future - How to collaborate?

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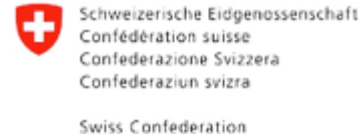
- Be one of the first organizations applying O-LCA during the **road-testing** and help on the adjustment of the methodology.
- Be **our voice and disseminate** the methodology.

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