

Towards a European-wide harmonised transport-specific LCA Approach

TranSensus LCA

Coordinated and Support Action (CSA)

Grant Agreement Number 101056715

Start date of the project: January 1st, 2023, Duration: 30 months

Deliverable D 4.1

Description of tools and processes for stake-holder engagement

Status: Final

Lead contractor for this deliverable: **FhG-LBF**

Due date of deliverable: **30.04.2023**

Actual submission date: **20.07.2023**

Coordinator:

Thilo Bein & Felipe Cerdas

Fraunhofer LBF & IST

Bartningstr. 47 – 64289 Darmstadt - Germany

Phone +49 6151 705 463 | +49 151 74416873

E-mail thilo.bein@lbf.fraunhofer.de | felipe.cerdas@ist.fraunhofer.de

Project co-funded by the European Commission within Horizon Europe (2021-2027)		
Dissemination Level		
PU	Public, fully open	x
SEN	Sensitive, limited under the conditions of the Grant Agreement	
R-UE/EU-R	Classified: EU RESTRICTED under the Commission Decision No2015/444	
C-UE/EU-C	Classified: EU CONFIDENTIAL under the Commission Decision No2015/444	
S-UE/EU-S	Classified: EU SECRET under the Commission Decision No2015/444	

Vers: 1	Date: 14.07.2023	Page 2 of 11
Deliverable D 4.1		

APPROVAL STATUS			
	Beneficiary	Name	Signature
WP Leader approval	Fraunhofer LBF	Thilo Bein	Date: 14.07.23 Signature: Thilo Bein
Approval on behalf of the SC	Fraunhofer IST	Felipe Cerdas	Date: 20.07.23 Signature: Felipe Cerdas

CONTRIBUTING PARTNERS		
	Beneficiary	Name
Document Manager	FhG-LBF	Thilo Bein
Partner 1		
Partner n		

REVISION Table		
Document Version	Date	Modified sections - details
Draft	14.07.2023	for review by SC
Final	20.07.2023	submitted

EXECUTIVE SUMMARY
<p>Harmonisation of the LCA approach across the battery and automotive value chain requires the integration of a many stakeholders as possible. This report describes the different stake-holder groups identified and how the interaction with them will take place. Main instruments are dedicated boards (industry and scientific advisory board, international collaboration, and liaison group) and public workshops and consultations.</p>

Vers: 1	Date: 14.07.2023	Page 3 of 11
Deliverable D 4.1		

Table of Contents

Glossary	4
I. Introduction	5
II. TranSensus LCA’s stakeholders.....	5
II.1 Industry	5
II.2 Research.....	6
II.3 Legislation	6
II.4 Standardisation bodies	6
II.5 Public	6
II.6 Other Initiatives	6
III. Advisory Boards	8
IV. International collaboration group	10
V. Liaison Group.....	10
VI. Interaction with other initiatives	10
VII. Processes and tools	11

Vers: 1	Date: 14.07.2023	Page 4 of 11
Deliverable D 4.1		

Glossary

Abbreviation	Explanation	No.	Explanation
BEPA	Batteries European Partnership Association	IAB	Industry Advisory Board
CLEPA	European Association of Automotive Suppliers	IWG	Informal Working Group
CSA	Coordinated and Support Action	KIC	Knowledge and Innovation Communities
EAA	European Aluminium Association	LCA	Life-cycle assessment
EARPA	European Automotive Research Partners Association	OEM	Original equipment manufacturer
ECTRI	European Conference of Transport Research Institutes	PEFCR	Product Environmental Footprint Category Rules
EFFRA	European Factories of the Future Research Association	Plastic Europe	Plastics Europe Association
EMIRI	The Energy Materials Industrial Research Initiative	RECHARGE	Advanced rechargeable and lithium batteries industry association
EoL	End-of-Life	RTO	Research and Technology Organisation
EPD	Environmental Product Declaration	SAB	Scientific Advisory Board
EPoSS	European Association on Smart Systems Integration	SC	Steering Committee
ERTICO	European Road Transport Telematics Implementation Coordination Organisation	UNECE	United Nations Economic Commission for Europe
ERTRAC	European Road Transport Research Advisory Council	WBCSD	World Business Council for Sustainable Development
EUCAR	European Council for Automotive R&D	WorldSteel	World Steel Association
EURIC	European Recycling Industries' Confederation	2ZERO	Towards zero emission road transport partnership

I. Introduction

Harmonisation of the LCA approach across the battery and automotive value chain requires the integration of a many stakeholders as possible. This report describes the different stakeholder groups identified and how the interaction with them will take place. Main instruments are dedicated boards (industry and scientific advisory board, international collaboration and liaison group) and public workshops and consultations.

II. TranSensus LCA's stakeholders

The CSA TranSensus LCA is a joint project of the two partnerships 2ZERO and BEPA. Consequently, TranSensus LCA addresses stakeholders from both value chains. In the following, the relevant stakeholder groups will be described. The external stakeholders and public will be approached / informed on consultations and workshops through associations and partnerships like (non exclusive)

- EUCAR
- CLEPA
- EARPA
- ECTRI
- EURIC
- RECHARGE
- EAA
- WorldSteel
- ERTRAC
- 2ZERO
- BEPA
- EPoSS
- EFFRA
- EMIRI
- KIC Raw Materials
- Plastics Europe

as well as through the project website, LinkedIn group and newsletter.

II.1 Industry

The stakeholders from industry side are members of the automotive value chain (OEMs and their supply chain) and battery value chain (battery and cell manufacturer) as well as logistics and mobility service provider and EoL service providers. Key stakeholders from the automotive and battery value chain are already included in TranSensus LCA as beneficiary or associated member, either as individual entity or as association representing the specific stakeholder group (CLEPA, Recharge). Regarding service providers (logistic, mobility and EoL), stakeholders are currently involved through associations like Smart Freight Center, ERTICO and EURIC. In order to engage more industrial stakeholders, additional industrial companies have been invited to join the Industry Advisory Board (IAB, see Chapter 3). All other industrial stakeholders are

Vers: 1	Date: 14.07.2023	Page 6 of 11
Deliverable D 4.1		

considered as project externals which engagement is foreseen through public workshops and consultations.

II.2 Research

Stakeholders from research are universities and RTOs known conducting research in the context of both value chains, on logistics and mobility concepts, circular economy and LCA. Similar to the industrial stakeholders, some key stakeholders are already involved as beneficiary or associated member either as individual entity or as association (ECTRI). Additional stakeholders from research have been invited to the Scientific Advisory Board (SAB). All other academic stakeholders are considered as project externals which engagement is foreseen through public workshops and consultations.

II.3 Legislation

Another group of stakeholder is the European Commission itself and all member states. Representative from both are foreseen to be invited to the Liaison Group for the final harmonisation of the LCA approach. Besides, there is a direct reporting towards the EC. Member states will also be informed on TranSensus LCA outcomes through the newsletter.

II.4 Standardisation bodies

Of relevance for TranSensus LCA are additional standardisation bodies like CEN-CENELEC or DIN. Up to now, no active participation in respective working groups are foreseen and active communication of TranSensus LCA towards these organisation is foreseen in the dissemination activities (see D 6.2). In a broader context, the active participation in the BRIDGE initiative can be considered as interaction with relevant stakeholders addressing standardisation.

II.5 Public

The public in general is considered as project externals which engagement is foreseen through public workshops and consultations.

II.6 Other Initiatives

Furthermore, it will be crucial for TranSensus LCA to engage with other on-going initiatives also addressing a common, harmonised approach for a LCA in the automotive community. Relevant initiatives are CATENA-X, the UNECE IWG on LCA, the WBCSD or dedicated

Vers: 1	Date: 14.07.2023	Page 7 of 11
Deliverable D 4.1		

projects (see also Chapter 6). Most of the identified initiatives have common members and interaction will take place through TranSensus LCA beneficiaries. R&D projects with major activities on LCA will be treated as externals.

Vers: 1	Date: 14.07.2023	Page 8 of 11
Deliverable D 4.1		

III. Advisory Boards

Two advisory boards are foreseen for TranSensus LCA, an Industry Advisory Board (IAB) and a Scientific Advisory Board (SAB). To both advisory boards associated members (unless they opted to participate in the WPs) and externals were invited. The current lists of confirmed members are shown in Tab. 1 & 2. However, the list is not exclusive and additional members will be invited if needed.

Table 1. Industry Advisory Board

No.	Associated Member	No.	Externals
1	PSA	8	Honda
2	Smart Freight Centre	9	Michelin
3	Forvia (CLEPA)	10	European Aluminium Association
4	Vitesco (CLEPA)	11	World Auto Steel
5	Recharge	12	EPoSS
6	ERTICO		
7	EURIC		
invited, acceptance outstanding			
	Siemens		ACC
	Everledger		Plastics Europe
			WBCSD

Table 2. Scientific Advisory Board

No.	Associated Member	No.	Externals
1	IFPEN	3	ViF(EARPA)
2	ECTRI	4	KTH Stockholm
		5	Johanneum
		6	NTNU
		7	University of Alcalá
		8	Uni Thessaloniki
		9	EMPA
invited, acceptance outstanding			
	Tecnalia		PSI

Vers: 1	Date: 14.07.2023	Page 9 of 11
Deliverable D 4.1		

The start of the advisory boards is foreseen End of September or early October when 1st results from WP 2 are available. The boards will be moderated by BMW (IAB) and FhG (SAB). A meeting schedule every two month is planned as online meeting and one physical very half year (e. g. in conjunction with the project's General Assembly).

Preliminary or intermediate results of WP 2 and WP 3 will be forwarded to both advisory boards for review prior to each meeting. The SAB will be asked to provide their feedback and recommendations directly to the IAB to reach a common view. The IAB will have the mandate to request modifications to the derived proposals for a harmonised LCA approach. If major concerns are identified, the IAB can block the proposal and request a revision of the concept. This blocking mandate can only be executed with a 2/3 majority within the IAB. Consequently, there will be an iterative approach between the advisory boards and the core team (= beneficiaries) in finding a preliminary consensus. Once a mature level of consensus has been reached in the IAB, the proposed LCA approach, together with final recommendations from the SAB, will be submitted to the Liaison Group for final consensus building (see chapter V).

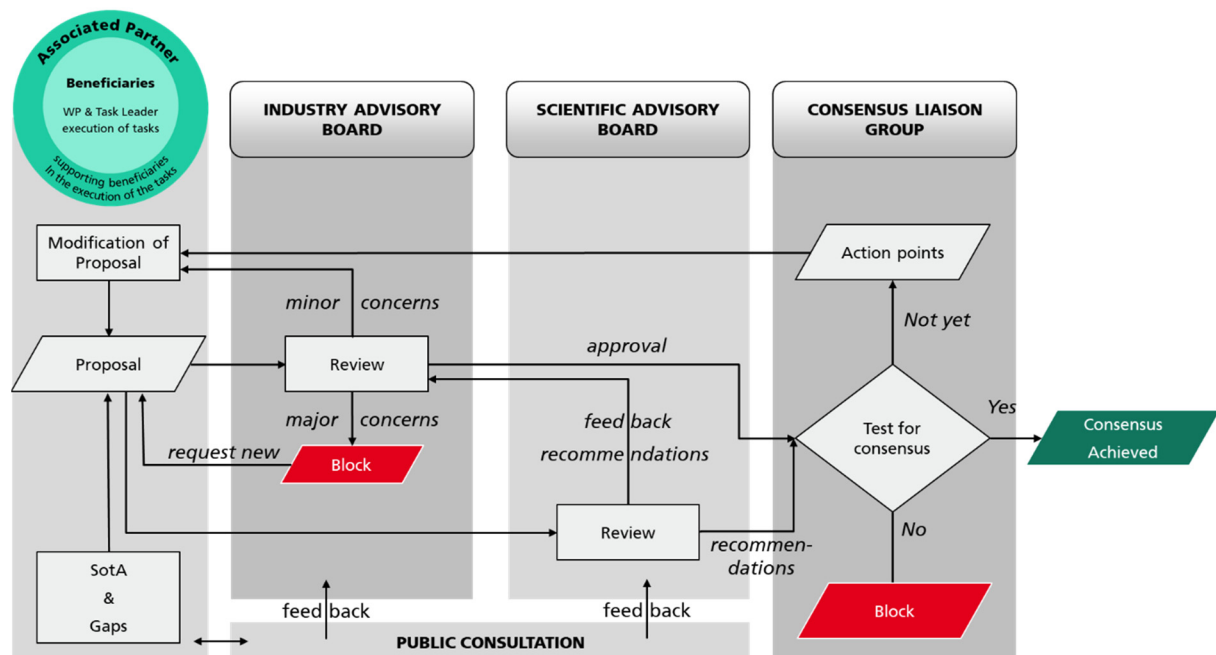


Figure 1. Decision-making process with Advisory Boards

IV. International collaboration group

Within the Steering Committee (SC) it was decided, to limit the participation in the advisory boards to European organisations. However, it was also recognised that an exchange with international stakeholders is also important for the success of TranSensus LCA. As such it was agreed upon to establish an international collaboration group in the 2nd half of the CSA to

- learn and understand what other regions are doing,
- promote the TranSensus LCA approach,
- identify challenges for extending TranSensus LCA towards global implementation.

This group should consist of about 15 members representing the markets of US, China, Japan, Korea, India and Australia and Chile (the latter both for battery related materials, among others). The members will be identified and invited by the SC until the end of the 1st project year. Meetings are foreseen to be held online once every six months.

V. Liaison Group

The final harmonisation of the LCA approach will take in the Liaison Group (LG). The LG will be composed of representatives of TranSensus LCA (all SC members) and representatives from the EC, member states, standardisation bodies and from the IAB/SAB. The LG will be established from month 18 on and will meet online every 2 months (with a physical kick-off meeting in M 18). Members of the LG will be proposed and invited from M 12 on.

VI. Interaction with other initiatives

Parallel to TranSensus LCA other harmonisation activities are on-going or are addressed in research projects. It is a common understanding of TranSensus LCA that

- efforts already done by other initiatives should not be duplicated and
- TranSensus LCA has a broader view on LCA than the other initiatives.

As such, it is of utmost importance to harmonise with the relevant initiatives as well and exchange results wherever possible. However, due to a late start of this CSA, some of the other initiatives have a head start requiring additional efforts on TranSensus LCA side.

TranSensus LCA conducted a survey of on-going harmonisation activities and following most important ones are identified with whom TranSensus LCA needs to harmonise:

Vers: 1	Date: 14.07.2023	Page 11 of 11
Deliverable D 4.1		

- UNECE IWG LCA
- CATENA-X
- WBCSD A-Pact Working Group
- EPD International

The interaction with above mentioned initiatives is foreseen through common members (e. g. BMW, Volkswagen, Ricardo or IVL) and bi-lateral workshops. Additionally, a public workshop will all initiatives is foreseen moderated by TranSensus LCA to identify synergies and potentials for collaboration.

Besides, already existing guidelines like PEFCR Battery or VDA LCA Guidelines must be considered. This will take place in WP 1.

VII. Processes and tools

The interaction with externals is foreseen in two ways. On the one hand side, public workshops to dedicated topics will be organised based on the needs of the WP 1 – 3. The respective objective of a public workshop will be defined by the WPs whereas the organisation of the workshops will be done by the project secretariat. The workshops will be announce on the website of TranSensus LCA, the newsletter and through linked associations (see Chapter II)

On the other hand, public consultations are foreseen using commercial and non-commercial tools. On the market various tools are available but most of them have too many feature not needed. TranSensus made a survey and comparison of various tools (Survey Monkey, Unipark EFS Survey, Lime Survey, SoSci, EU Survey, Microsoft Forms, Google Forms). In view of handling and costs it was decided to use Survey Monkey (purchase of 1 licence) for more complex consultations. For simpler ones the freely available tools Microsoft Forms and EU Survey will be used.