Progress Status in SG3

5th September 2023

Leveling concept

Share a Life Cycle Assessment (LCA) analysis as good examples of the different levels we are discussing

* Cases performed in various regions

SUPPLY CHAIN & PRODUCTION	Possible Comparison ¹⁾	Vehicle modelling	Representativeness ²⁾	Supply chain modelling	OEM manufacturing Processes	Supplier manufactu ring process	Individual decarbo nisation measures
Level 1		Generic material compo sition & average vehicle curb weight		generic footprint per kg of vehicle curb weight			none
Level 2	General concept of drivetrains (e.g. BEV vs. ICEV) based on exemplary "real" car vehicle model	BOM & Material informa tion system (CMDS / IMDS ³⁾)	Global average / regional	global secondary data material footprints (incl. generic information for pr oduction processes)			none
Level 3	A representative vehicle of OEM A VS A representative vehicle of OEM B	DS) & "part-by-part"	Regional & individual SC for hotspots	primary information for the vehicle hotspot parts	Optional: primary data for OEM's inhouse hot spot processes	primary information f or the manufacturing of vehicle hotspot par ts	ı
				secondary information for t he rest	Secondary information for the rest or average values per vehicle from OEM's Scope 1 & 2 e missions	secondary	
Level 4	e.g. OEM A's BE V model vs. OEM B's BEV model	BOM ("part-by-part")	individual SC	regional or primary data ba sed part (& material) footpr ints		included	included

¹⁾ a column describing comparable objects to help you understand the concepts at each level, giving hints about how to access them by level and what data to find

²⁾ data information characteristics that can be used for evaluation

^{3) (}CDMS) Chinese Material Data System, (IMDS) International Material Data System

Overarching aspects

Interconnection among other SGs

- Need to accurately define the point of responsibility for each subgroup so that there are no gaps in the different stages
- Need to define the boundaries of supply chain between SG2 and SG4
 - * SG2: SG3 suggestion for handover point from SG3 to SG2 is outbound gate for the product of the first shaping manufacturing process for a homogeneous material, e.g. steel bar, aluminum ingot, plastic granulate
 - * Still waiting for SG2's reply to our meeting suggestion
 - * SG4: SG3 suggestion for handover point from SG3 to SG4 is the OEM-showroom

Overarching aspects

Interconnection among other SGs

- Need to discuss the materiality limit
- Need to discuss the end of life allocation / allocation in case if recycling
- Hold separate bilateral meeting between the two subgroups (SG2, SG4) and share the results with the entire informal working group to have a discussion between all subgroups
- Need to align on the calculation of transport emissions.

Other issues

1. Defining a representative vehicle

- Need to defining criteria to ensure a representativeness of vehicles for Level 3

2. Dealing with hot spot components

- Example, battery:
 - * (Level 1) average battery configuration (no detailed information)
 - * (Level 2) vehicle-specific amount of material in batteries (generic data)
 - * (Level 3, 4) analyze detailed information about the battery itself, including materials, production and sub-parts (primary data)
- Hot spot components to be included in analysis at all levels, but higher level of detail applied compared to other components.

Other issues

3. Others

- Prepare various hotspot information for different types of vehicles by OICA
- Our approach must be flexible to accommodate multiple scenarios and objectives
- Need to define priorities of the discussion and ensure access between all groups
- Need consideration of regular reporting in the future (ex, provide data on battery using in EU)