



Body Door Module General overview

November 13th, 2020

**Freek de Bruijn & Jean Pierre Heijster
AutomotiveNL**

Body Door Module

Why a truck door?

- High demand for different opportunities to reduce CO₂ and NO_x emissions;
- High demanding application for lightweight technologies within truck OEM industry;
- Expanding vehicles efficiency in reducing overall weight;
- Excellent capabilities for production and engineering in Euregio EMR.



Body Door Module Partners* & Competencies



- Company Name: SEKISUI S-Lec B.V.
- Webpage: <https://www.s-lec.eu/nl/>
- Main Responsibility: prototype and assembly



- Company Name: Flanders Make
- Webpage: <https://www.flandersmake.be/nl>
- Main Responsibility: design & engineering

Body Door Module Partners* & Competencies



- Name: GBO Innovation Makers
- Webpage: <https://gbo.eu/>
- Main Responsibility: Door Design and prototyping



- Company Name: DK Prototyping for Automotive Glass
- Webpage: <https://www.dk.nl/>
- Main Responsibility: car window shields for prototypes and concept cars

Body Door Module

Partners* & Competencies

Design & Engineering	Raw Materials	Tooling & Equipment	Tier 1 & Tier 2	OEM	Testing & Validation	Prototyping & Assembly
DK Prototyping for Automotive Glass Flanders Make GBO AMS Robotics Belgium Edag Netherlands fka GmbH TSG Group	Sekisui	Techni Futur AMS Robotics Belgium	Sekisui Polytec Holding AG		AMAC GmbH Flanders Make	Carat Duchatelet GBO Sekisui Techni Futur AMS Robotics Belgium TSG Group VDL Parree

Active partners // Passive partners

*project and/or industrial partners

Body Door Module

First iteration





Originele deur

Extra lichtpunt naar voren
en camera naar achteren

Raamstijlen en
spiegel verwijderd
voor optimaal zicht

Extra kijkvenster met tinted
e-glass met HMI functie

Buitenzijde één paneel
welke plaatselijk doorzichtig
is gemaakt



Nieuwe deur

Originele deur



Raamstijlen en
spiegel verwijderd
voor optimaal zicht

Gradient van
lak naar glas

Interieurpaneel grotendeels
het zelfde gehouden.

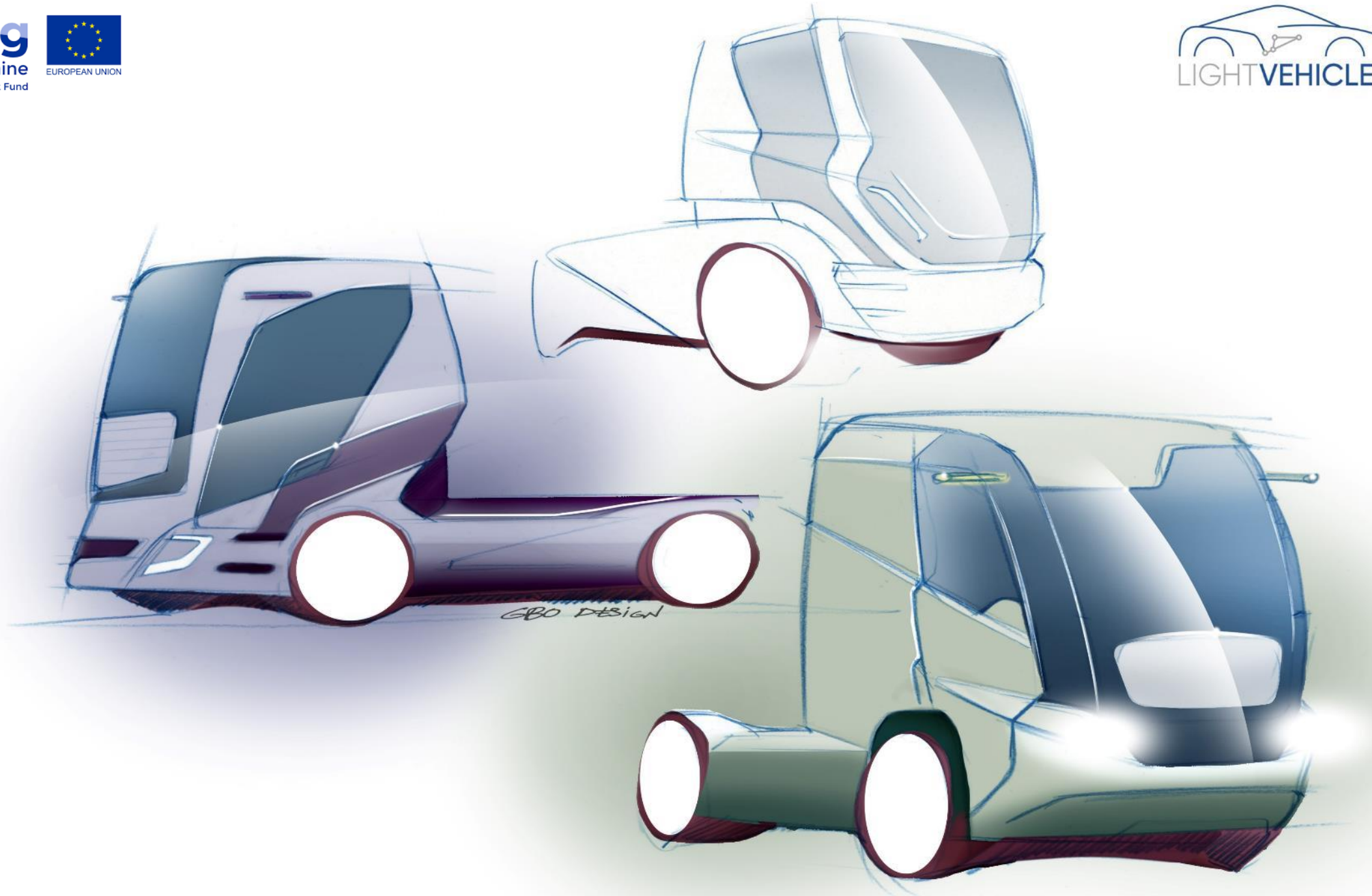
Bergvak en speaker
vervangen door extra
kijkvenster

Robomoulded frame

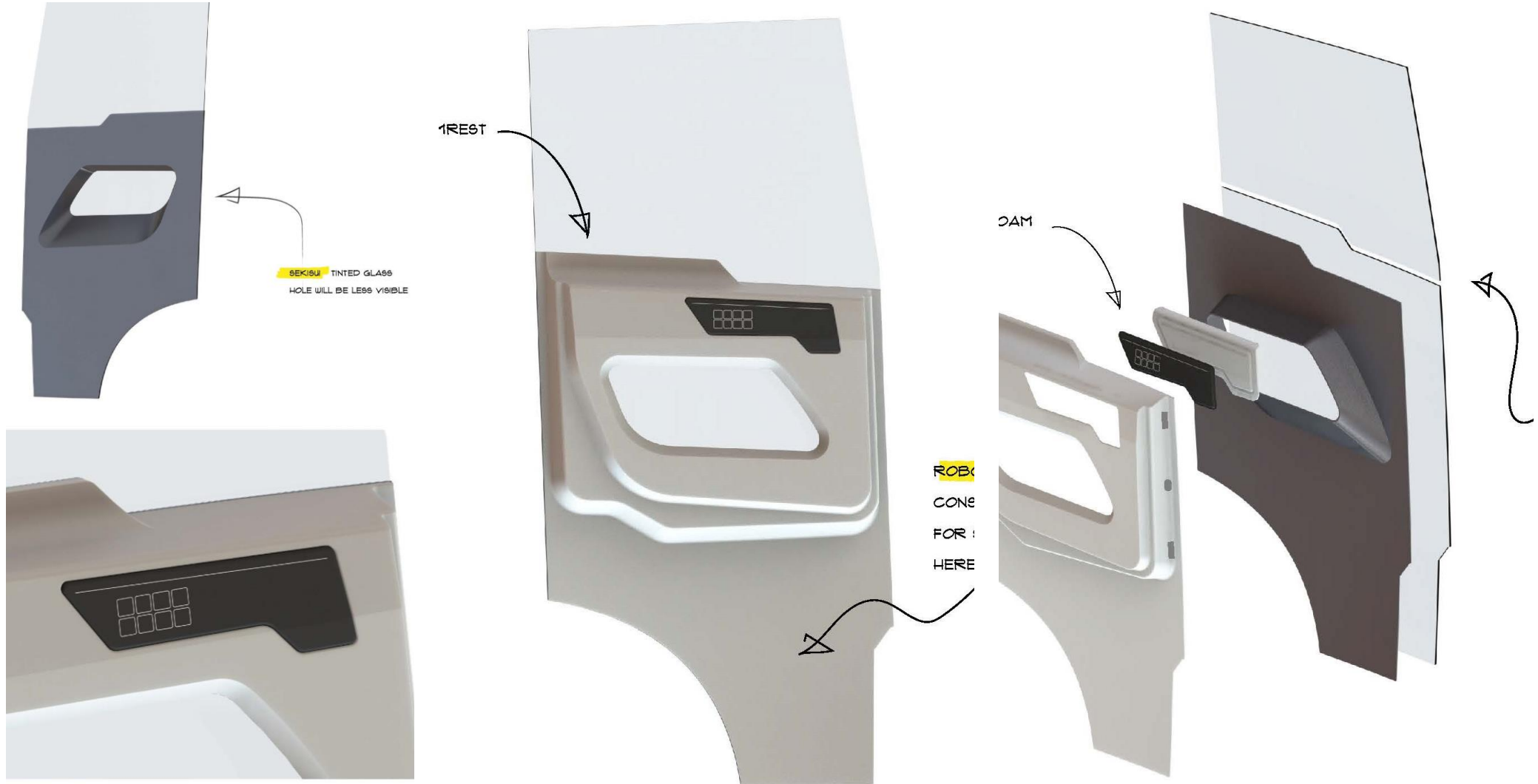
Nieuwe deur



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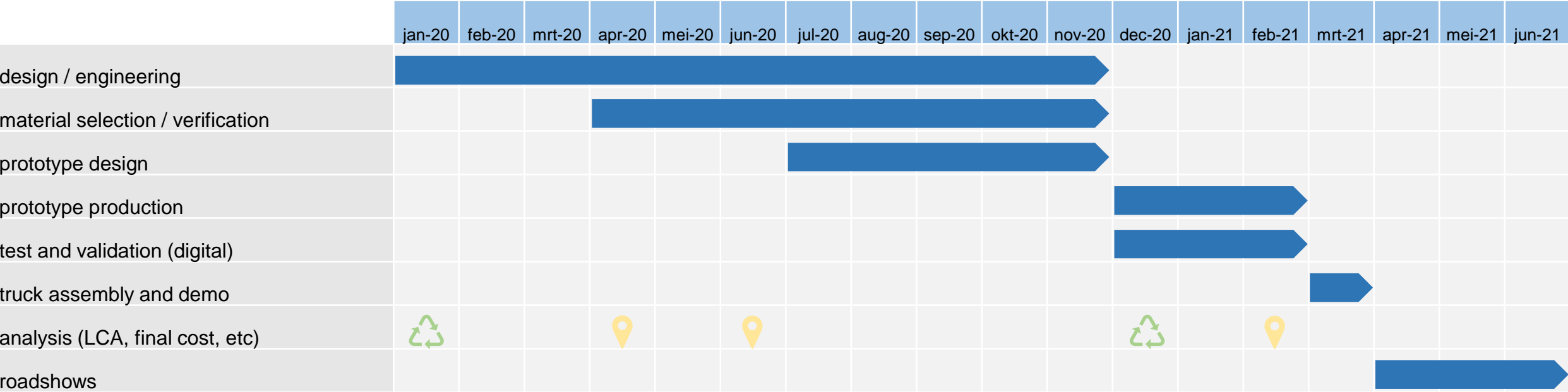
Body Door Module Second iteration



Body Door Module Update AutomotiveNL



Body Door Module Project Planning




COST


LCA

Body Door Module

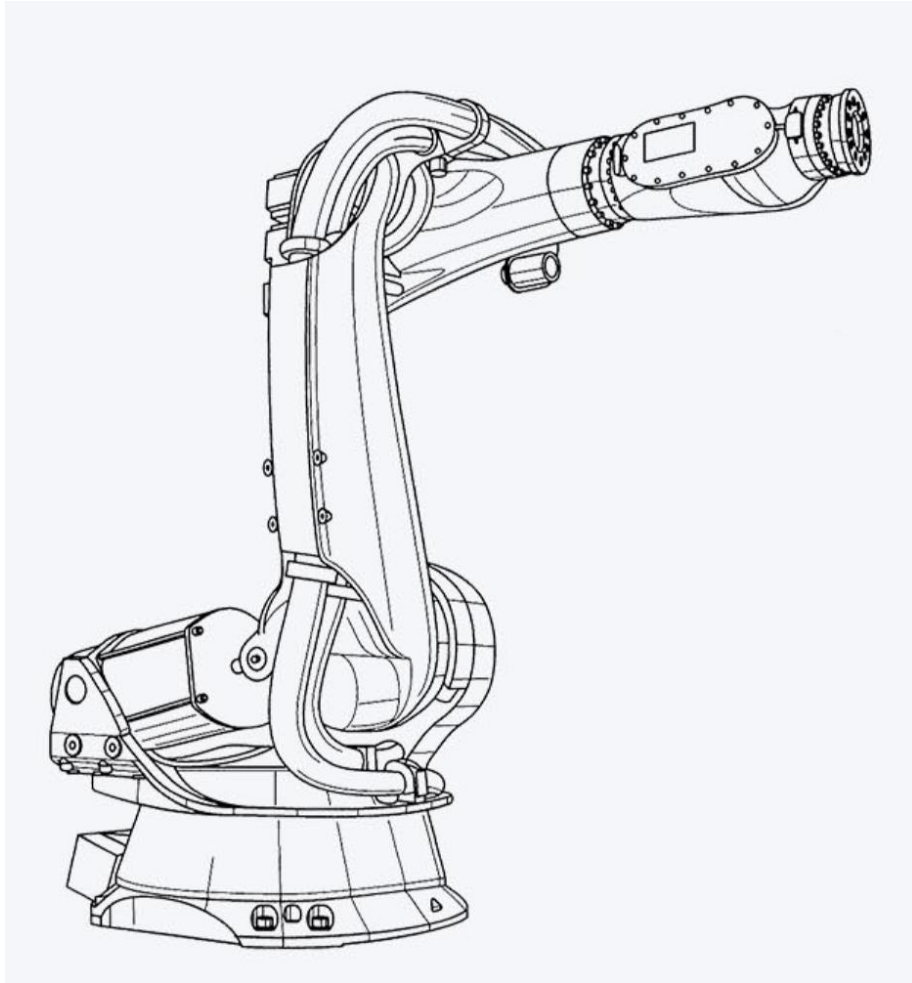
Expected deliverables

Prototype

Lightweight body door module that fits in existing DAF euro6 cabin;
Designed and engineered for reallife usage;
Added HMI functionalities.

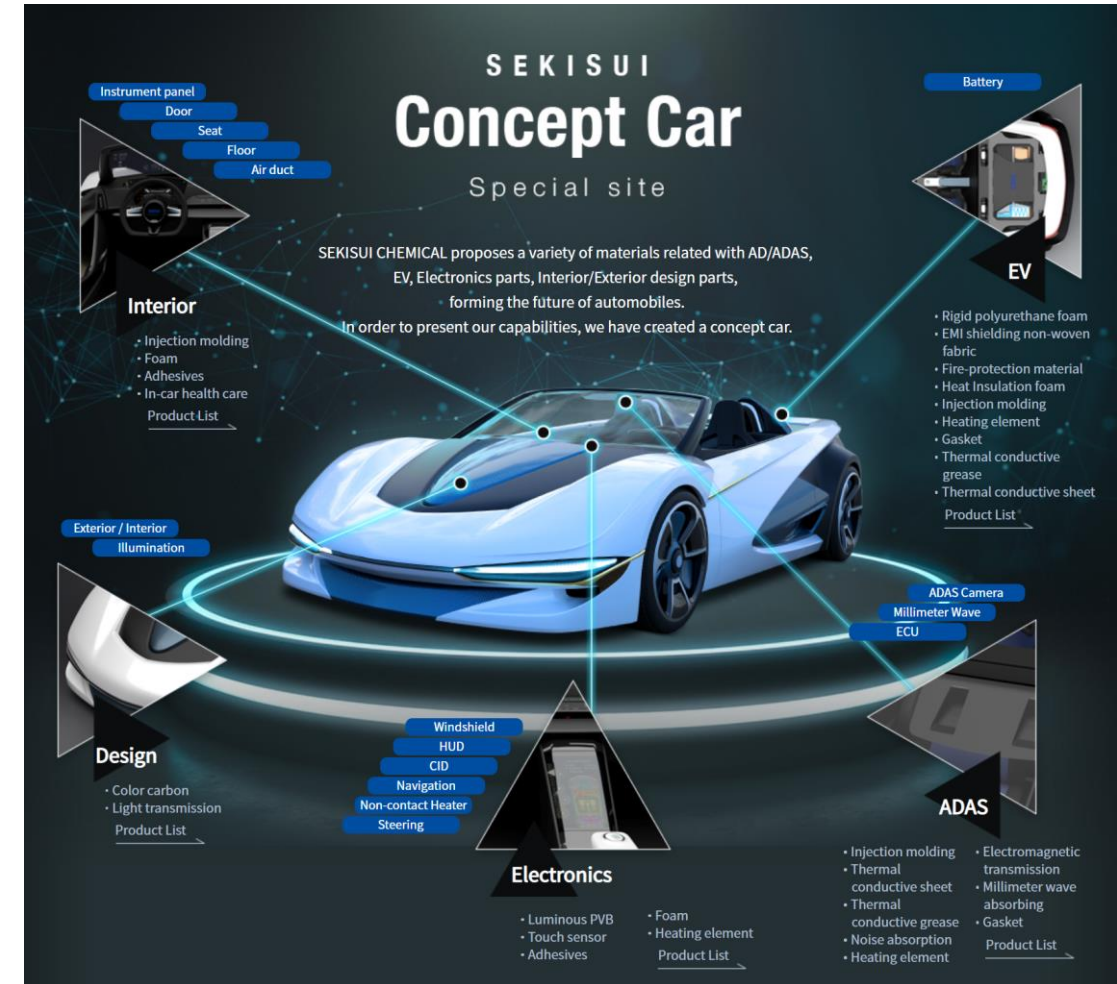
LCA study

benchmarking door vs. body door module prototype



Robomoulding technology

<https://www.ams-innovation.com/about-ams/>



Interior glass, foam and adhesives

https://www.sekisui-automotive.com/concept-car_en/



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