

JOURNÉE 2024 “IMPACT CARBONE DES SINISTRES : MESURER POUR RÉDUIRE”

POINT DE VUE D’UN CONSTRUCTEUR AUTOMOBILE



Sébastien VILLETTE
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Roadmap Carbon Net Zero (CNZ)

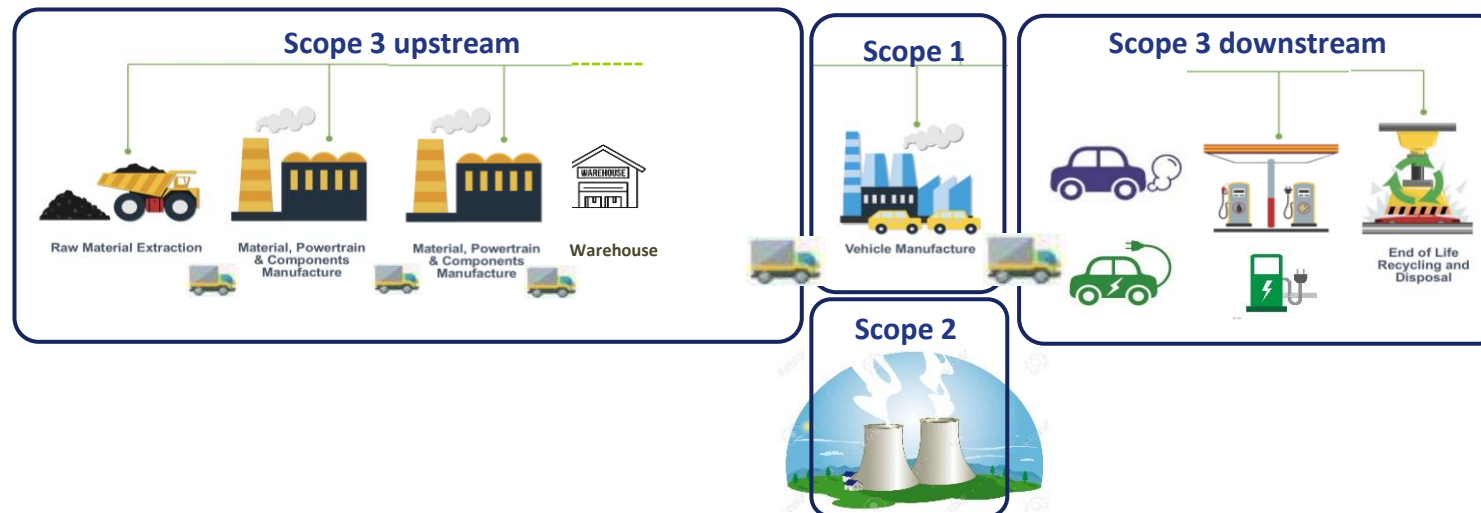
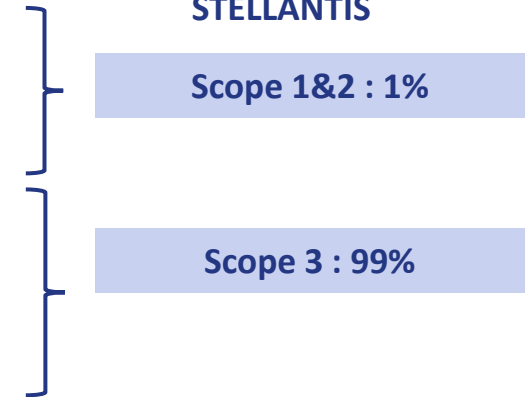


STELLANTIS

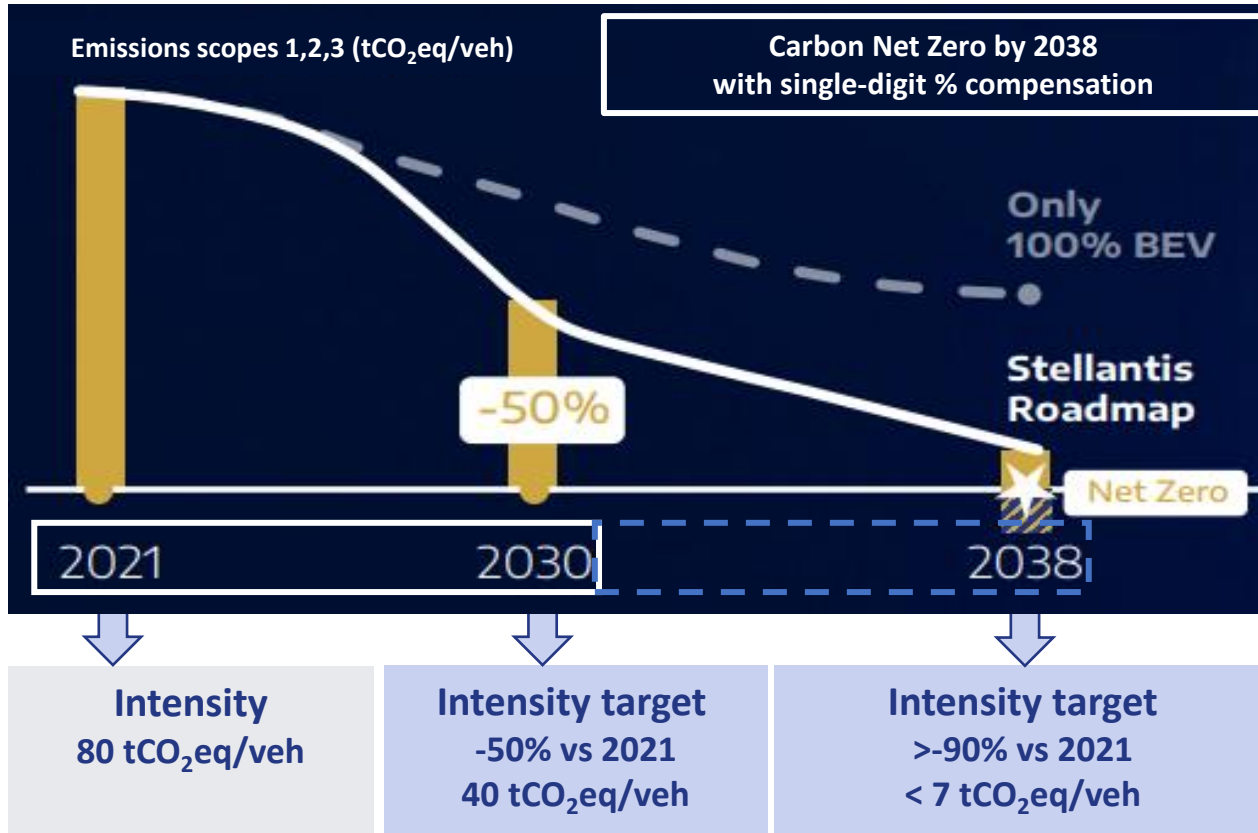
What is the contribution of an OEM ? DEFINITIONS - SCOPES

The GREENHOUSE GAS PROTOCOL = A set of standards to monitor GHG across 3 scopes :

- **Scope 1** : direct emissions from facilities (plant, offices, etc...)
- **Scope 2** : emissions coming from purchased energy to run facilities
- **Scope 3** : Indirect emissions
 - **Upstream** : Supply chain (= value chain)
 - **Downstream** : usage phase on the whole lifespan, inc. production of gasoline/diesel or electricity to charge your car



Holistic approach on the complete value chain from raw material extraction to vehicle end of life



- Reduction is the priority
- 100% BEV only gets us half way through
- Even if > 90% reduction reached in 2038, need to compensate all residual emissions

“
Carbon Net Zero is our ethical responsibility and will soon be a prerequisite for any company to exist and operate.
”

Carlos Tavares

Scope 1 & 2 & 3



-50% by 2030
(t CO₂eq / veh)

Scope 1&2

Scope 3

Plants and sites

Upstream
Parts purchasing

Downstream
Use of vehicles

Scope 1

Scope 2

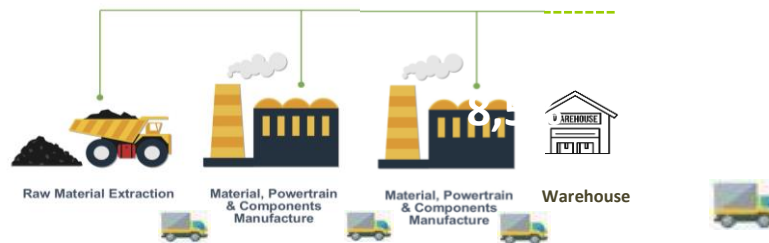


Vehicle Manufacture


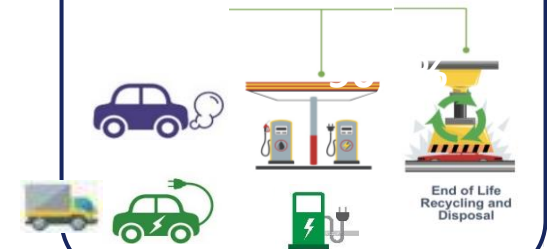


Power generation


Scope 3 upstream



Scope 3 downstream



-50% by 2025
-75% by 2030
(t CO₂eq)



-50% by 2030
(t CO₂eq / veh)

Scope 1&2

-50% by 2025
-75% by 2030
(t CO₂eq)

Plants and sites

0,7%

- Energy efficiency
- Decarbonized electricity
- Green gas roadmap
- Real Estate , with Green campus



Photovoltaic plant in Zaragoza :
34 800 solar panels

May 31, 2023

Vulcan and Stellantis in Joint Project to Develop Geothermal Renewable Energy to Supply Mulhouse Plant in France



Avec le Green Campus de Poissy, le projet ALTO vise le Label E3C1 !



January 17, 2023

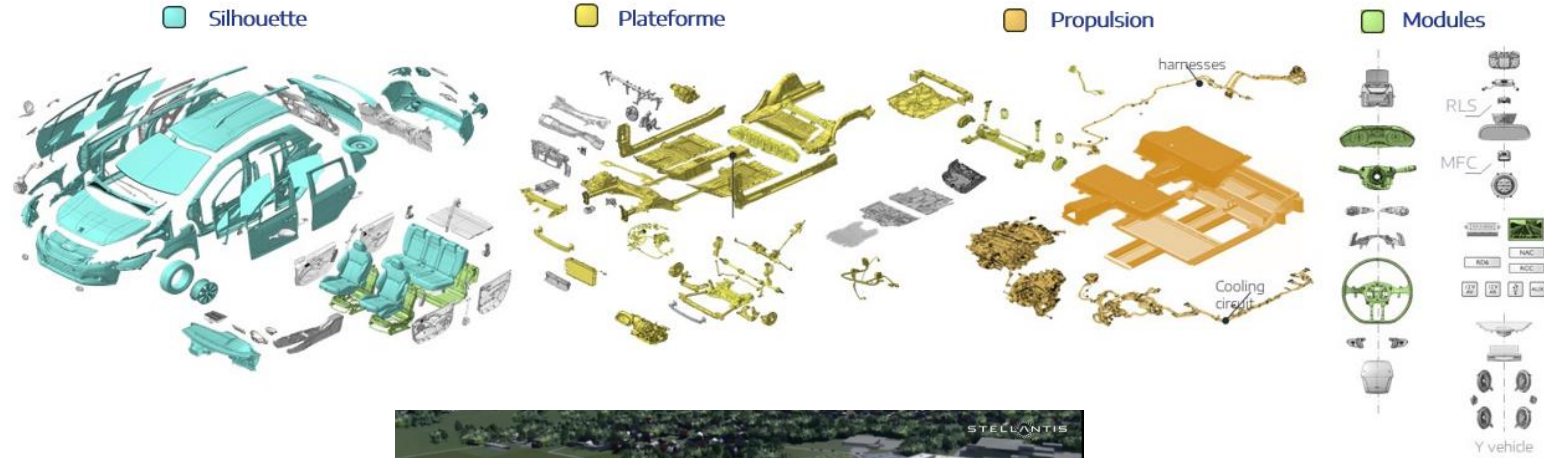
Vulcan and Stellantis Explore Geothermal Energy to Supply Rüsselsheim Plant



Scope 3

-50% by 2030
(t CO₂eq / veh)

Upstream
Parts purchasing and
transport **8,5%**



**-40% on EV purchased parts :
purchasing + upstream logistics**

- Global Warming Potential Targets in RFQ on Top 70 components → Mandatory for supplier award
- Vertical integration (Battery, EDM...)
- Green/recycled materials



Scope 3

-50% by 2030
(t CO₂eq / veh)

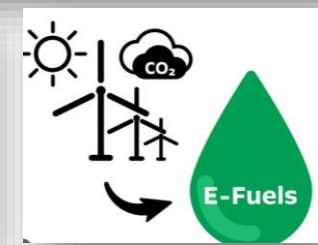
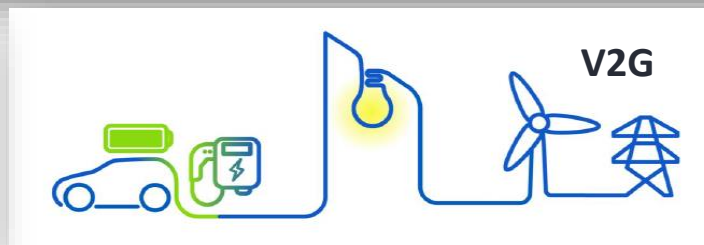


Downstream
Use of vehicles
90,8%

➤ 2030 Electrification roadmap:

EE	NA	SA	CN	IAP	MEA
100% BEV	50% BEV US (PC+LDT)	20% LEV Brazil	100% BEV	50% BEV	> 25% LEV

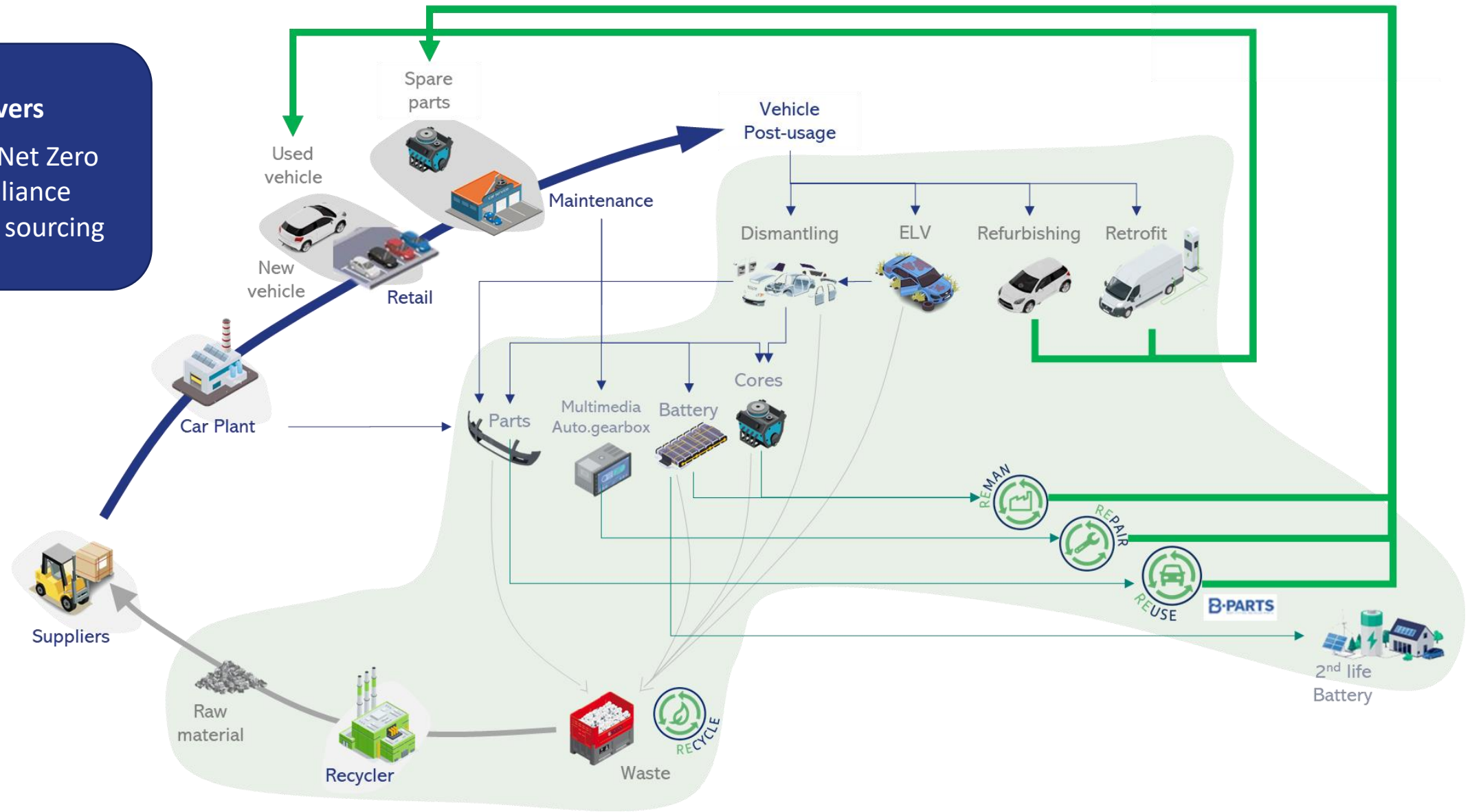
- BEV efficiency
- Decarbonized electricity to our customers (V2G deployment)
- Remaining ICE CO₂ improvement
- BioFuel, and eFuel compatibility



Circular Economy contribution



Drivers
Carbon Net Zero
Compliance
Material sourcing



SUSTAINera PARTS & SERVICES OFFER: SUSTAINABILITY, AFFORDABILITY, QUALITY without compromise

REMAN

Remanufactured parts including a turbocharger, battery pack, catalytic converter, and engine block.

REPAIR

Repairable components including a fuse box, speakers, a bumper, and a car stereo.

REUSE

B·PARTS

Second Life projects on HVB

RECYCLE

NEW

Recycled products

OTHER ACTIVITIES:

PARTS RECYCLING

High Voltage Batteries
Alloy Wheels
Catalytic converters
Bumpers

CLOSED LOOP RECYCLING

Alloy Wheels
Production scraps

END-OF-LIFE VEHICLES

VALORAUTO

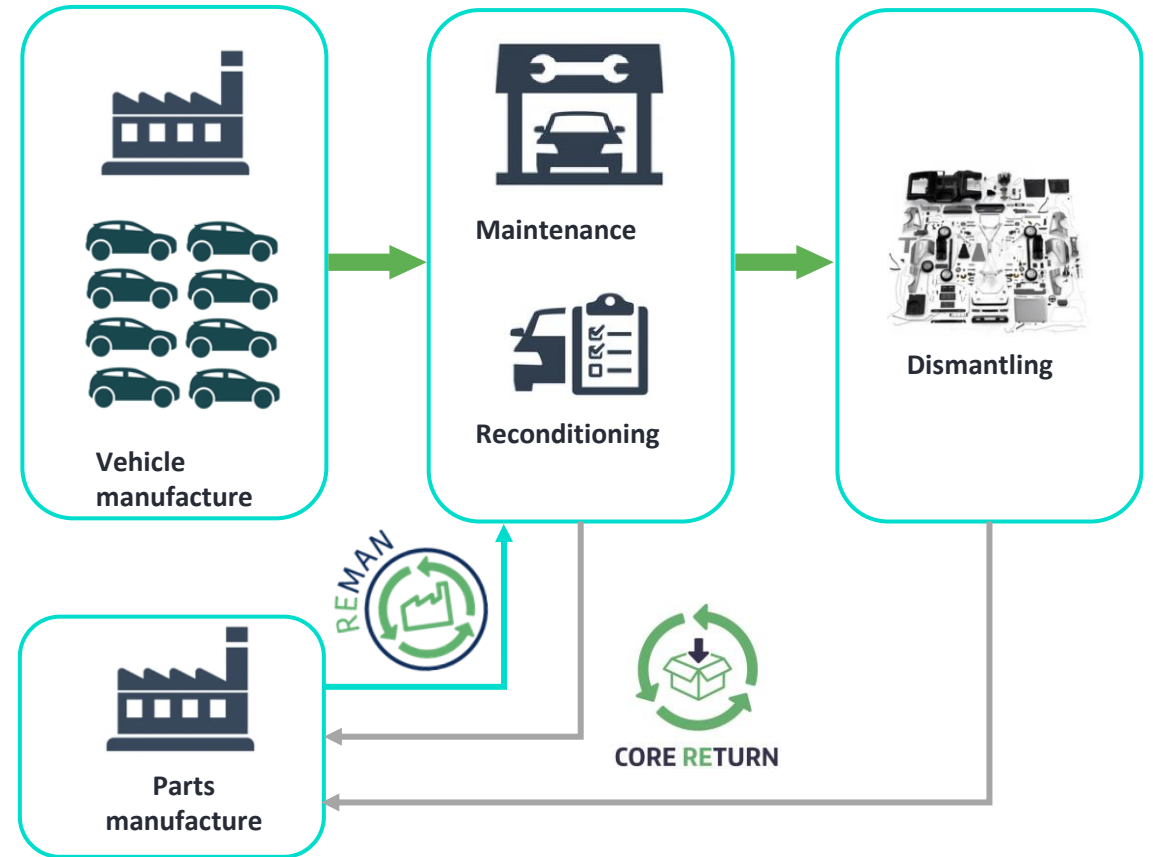
Collection, Dismantling and Recycling

OUR CHALLENGE

BUILD NEXT ONE

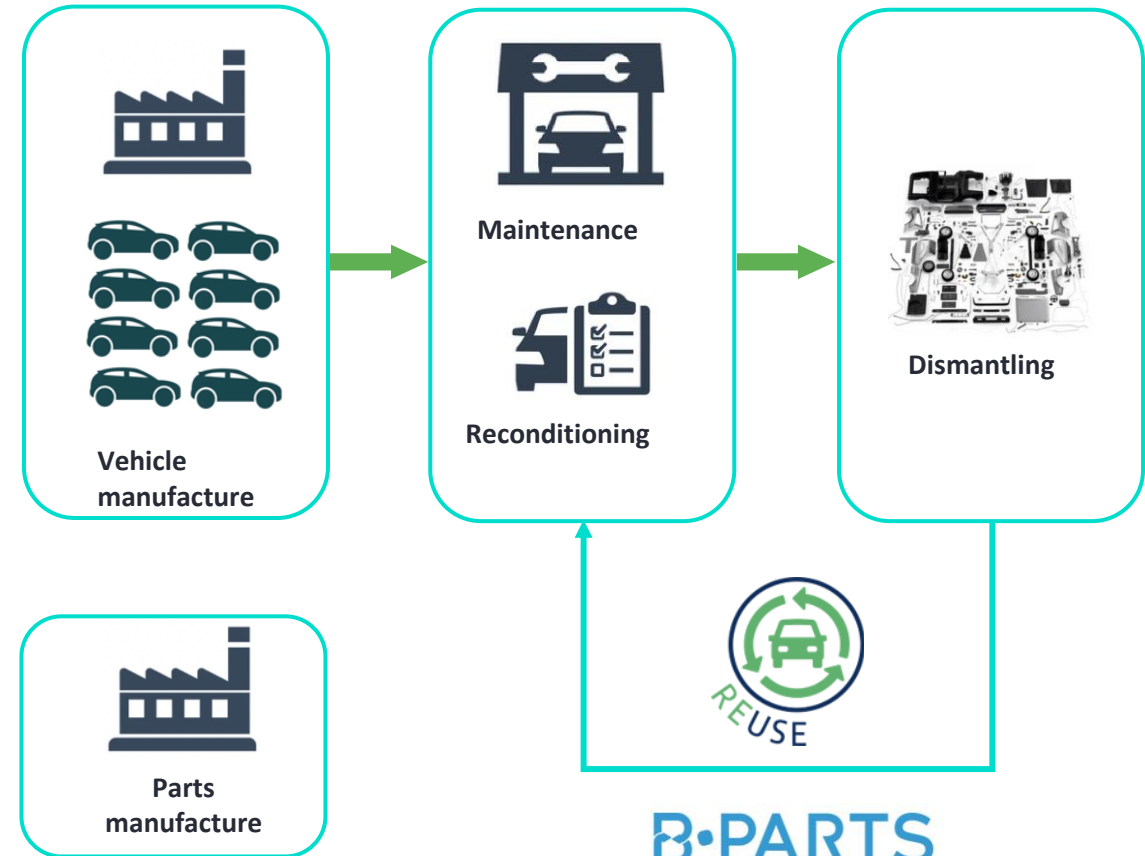
REMAN

- Part remanufactured from a defected part
- Same performance as the genuine part
- Generally complex parts including mechanical, mechatronic and electronic parts
- 80% material / 40% CO2 saving

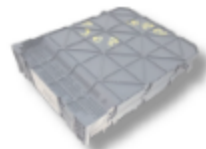


REUSE

- Parts removed from end-of-life vehicles
- Quality check but no repair
- Parts sold as-is
- Generally body parts and expensive mechanic parts
- 100% material / 50% CO2 saving



B·PARTS
BEST ORIGINAL USED PARTS



B2B portal



Recyclez votre véhicule et gagnez de l'argent !

Bénéficiez d'une collecte gratuite, d'une désimmatriculation sans tracas et d'un recyclage éco-responsable. Partenaire officiel de constructeurs automobiles.

Démarrer le processus de collecte *

* Service disponible uniquement pour les véhicules localisés en France ou en Belgique.



B2C portal

STELLANTIS individual system for our EPR

- Dedicated websites for automotive professionals and private customers
- Simplified, secured and digitized customer journey, from takeback request to Certificate of Destruction issuance and archiving
- Working with a large set of dismantlers spread over the country
- Ensuring compliance with End of Life and environmental regulations

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