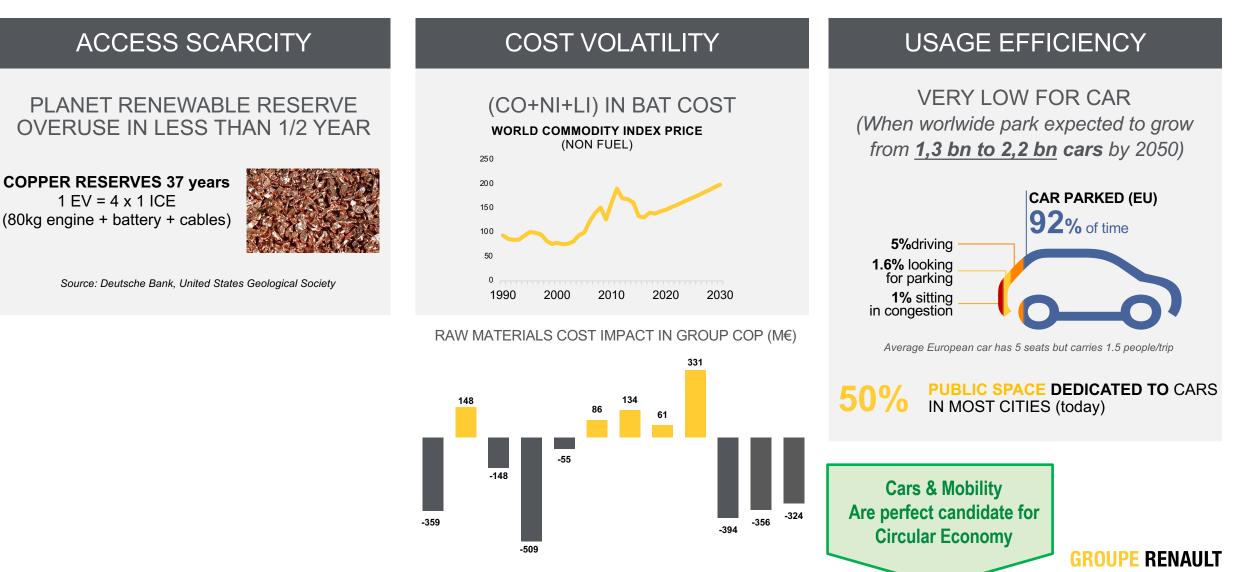
GROUPE RENAULT

RESOURCES EFFICENCY @ **RENAULT** WORLD MATERIAL FORUM AUGUST 15TH 2020

RESOURCES AT STAKE FOR THE MOBILITY SECTOR

RESOURCE USAGES ARE CHALLENGED ECONOMICALLY AND POLITICALLY ANTICIPATE RESOURCES AVAILABILITY AND EFFICIENCY ARE KEY FOR <u>COMPETITIVENESS & SUSTAINABILITY</u>

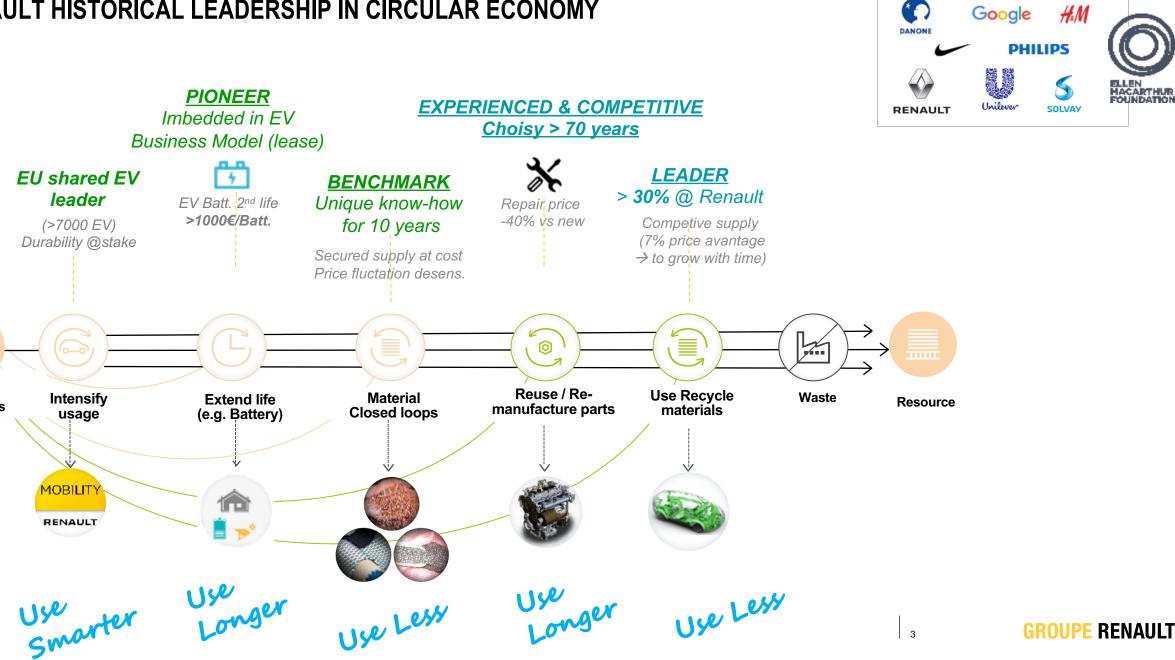


RESOURCE EFFICENCY & CIRCULAR ECONOMY

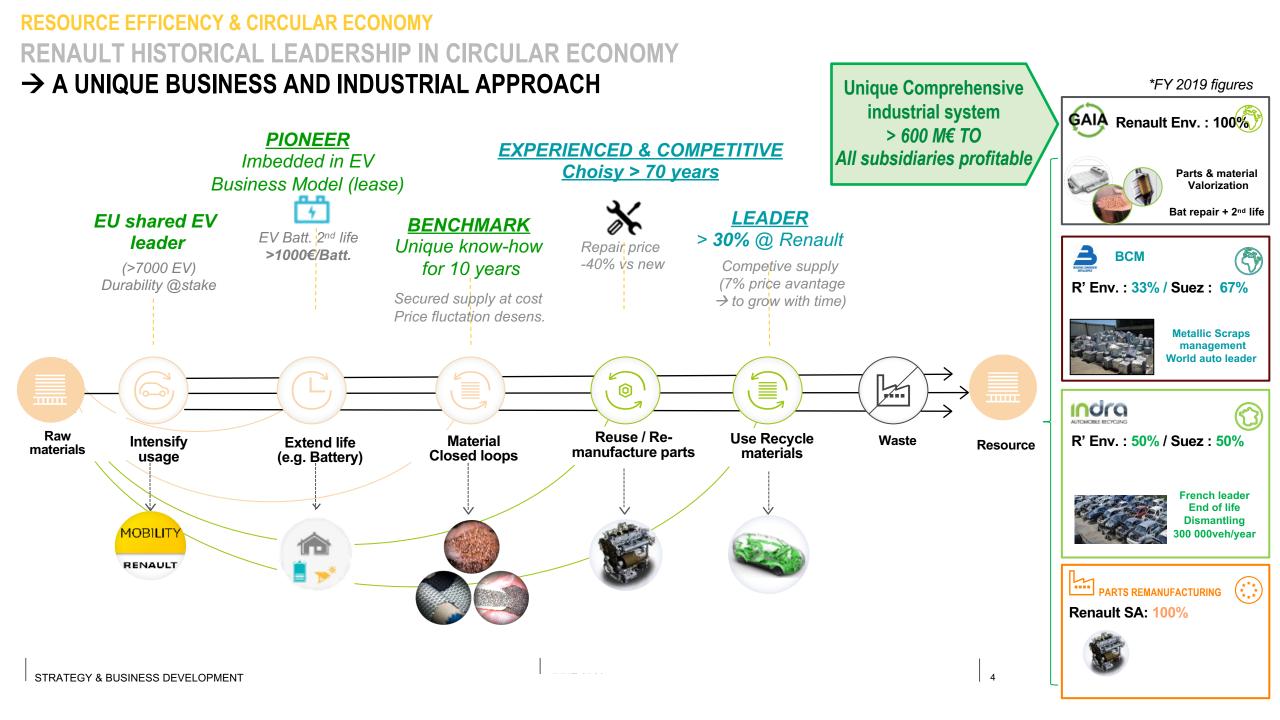
Raw

materials

RENAULT HISTORICAL LEADERSHIP IN CIRCULAR ECONOMY

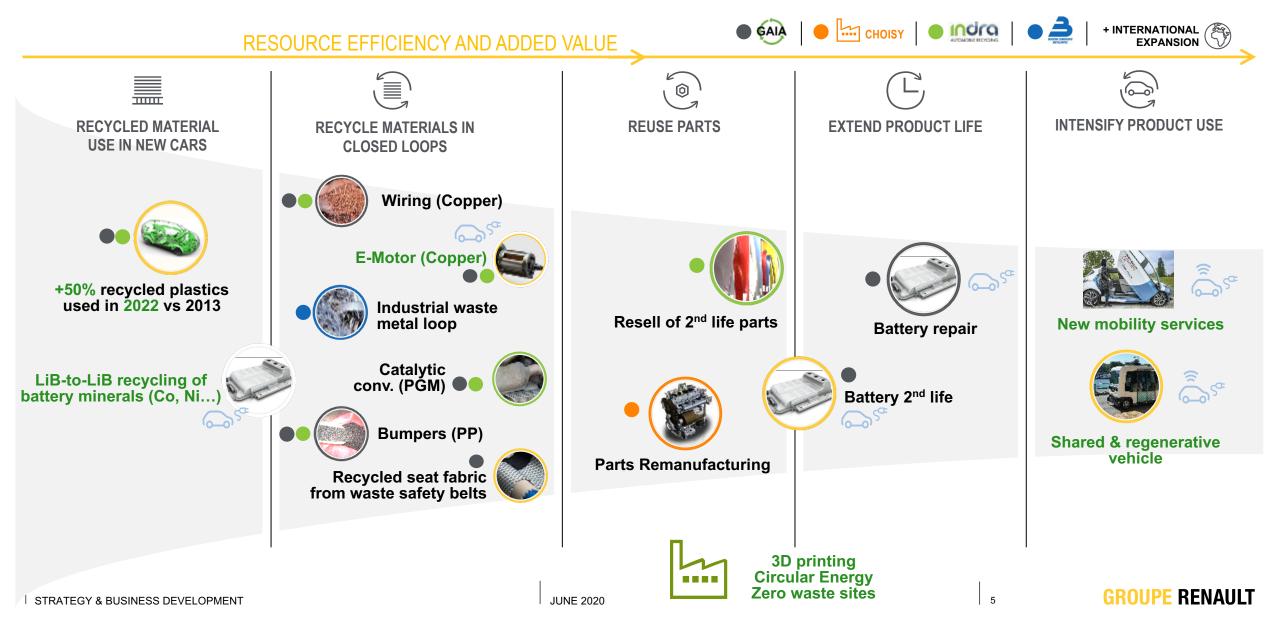


MACARTHUR



RESOURCE EFFICENCY & CIRCULAR ECONOMY

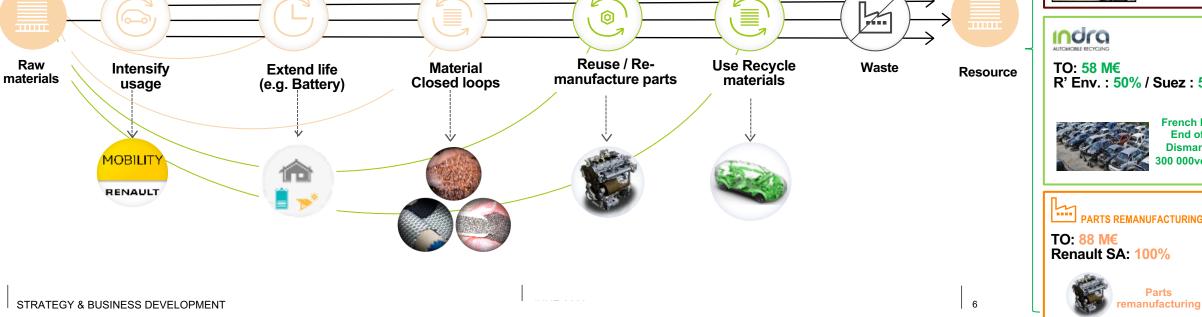
RENAULT'S CIRCULAR BUSINESSES & PROJECTS TOWARDS RESOURCE EFFICIENCY & VALUE CAPTURE



3 MANAGEMENT KPI'S :

- REDUCE BY 25% GROUP CARBON FOOTPRINT PER VEHICLE SOLD INCL. TOTAL LIFE CYCLE (2022 VS 2010)
- INCREASE BY 100 M€ (154 **7** 254 M€) THE VALUE MAINTAINED IN AUTO BUSINESS BY CE ACTIVITIES (2022 VS 2016)
- INCREASE BY 50% THE AMOUNT OF RECYCLED PLASTICS USED GLOBALLY

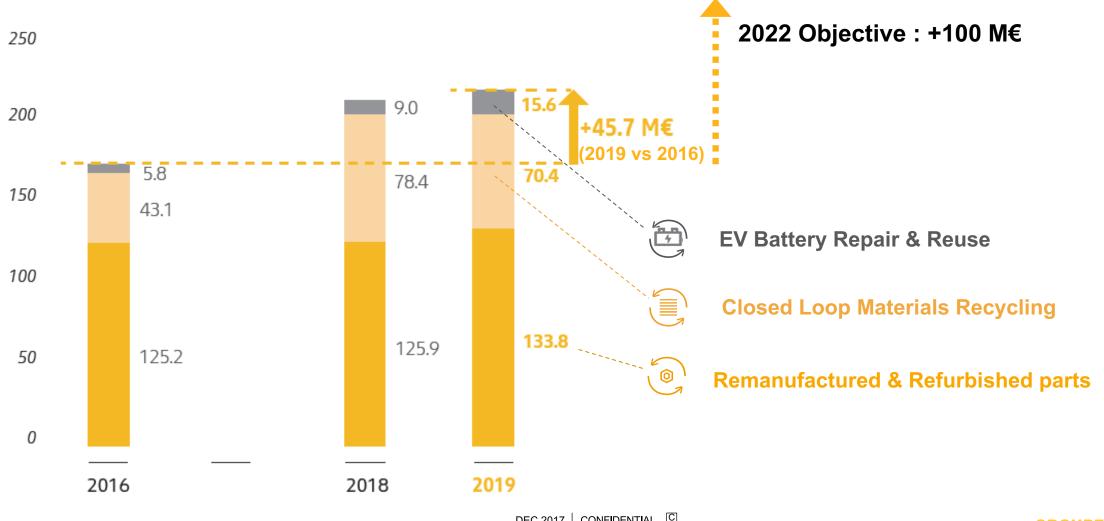




RESOURCE EFFICENCY & CIRCULAR ECONOMY

CIRCULARITY KPI : A SYNTHESIS INDICATOR FOR DIVERSIFIED CIRCULAR ACTIVITIES

Value (M€) preserved in the automotive sector through Groupe Renault's circular economy activities



DRIVE[#]**FUTURE**

CLIMATE ISSUE

COP 21 Global objectives = -90% WtW CO2 emission (2005-2050 per veh. sold)

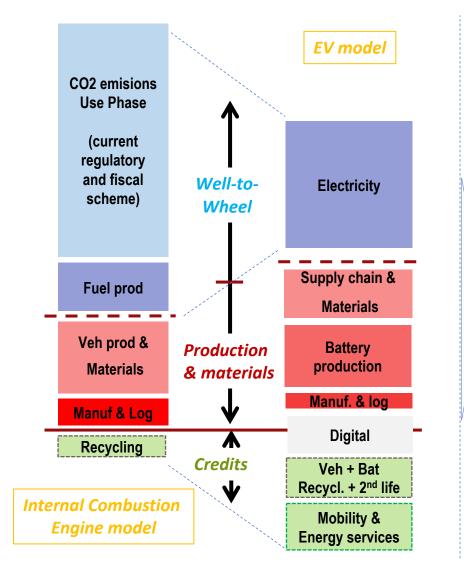
Transition required towards Heavy electrification



GREEN DEAL Carbon Neutral mobility by 2050 (Life cycle scope)

Clear Expectations

CO2 emissions (Carbon Footprint) over life cycle



Mobility footprint and political instrumentation for transition move from use phase to production & End of life phase CO2 & €uro Remain the main KPI to manage Vehicle or parts program development (LCA scope)

@ stake & Fostered by CO2 regulation & fiscal scheme

Use Less & design smarter

Recycled plastic competitiveness Veh weight for CO2 g/km regulation Battery Co & Ni content & cycling Localisation & Energy mix

@ stakes & Embeded in new service usiness model

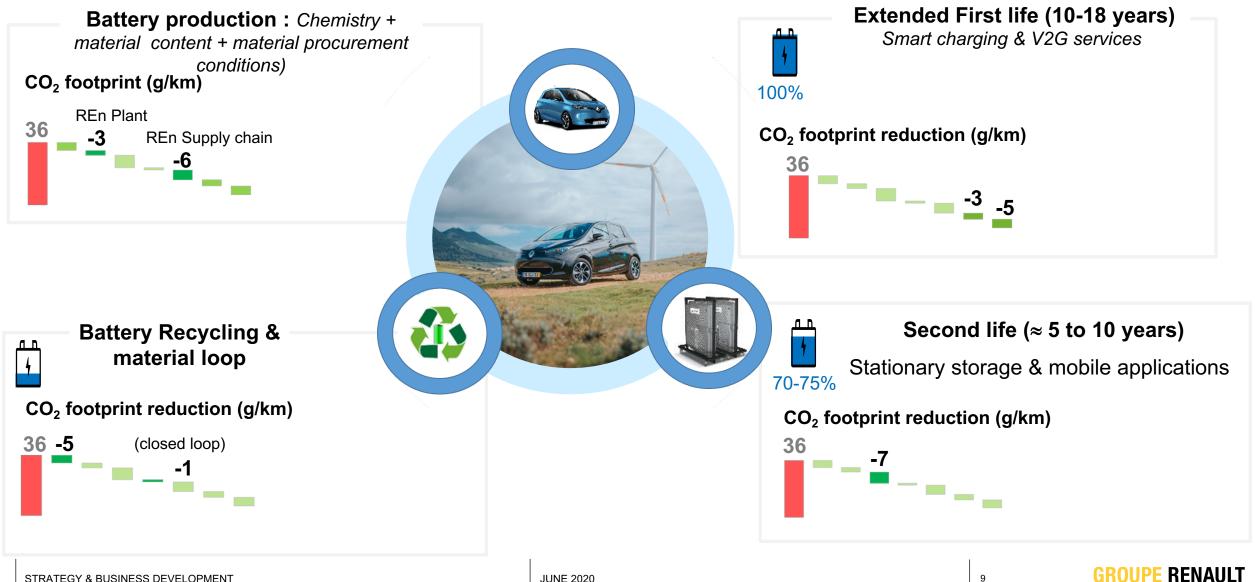
Use Smarter & longer

Battery Residual value (2nf life) Shared car Durability & smart maintenance Circular eco sytemic approach

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GROUPE RENAULT

CO2 APPROACH ILLUSTRATION ON BATTERY **OPTIMIZING CO2 FOOTPRINT OVER EV BATTERY LIFE CYCLE**



Latest ongoing initiatives involving Groupe Renault :

1. Global Battery Alliance – Battery Passport initiative (WEF)

- Ensure traceability of the origin or raw materials and transparency on the conditions of their extraction
- Provide a reliable and comparable reporting of GHG footprint throughout the battery value chain
- Provide relevant and model-specific information to battery stakeholders : OEMs, clients, workshops, recyclers...

2. Circular Car Initiative (WEF)

• foster circular manufacturing and business models within the automotive and mobility industry

3. Circulytics (Ellen MacArthur Foundation)

• Circularity measurement tool for companies (version 2.0 to be launched in October 2020)

4. Renault Flins car assembly plant reconversion into a circular economy ecosystem

• « First of its kind » project announced in May 2020, to be implemented by 2024



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THANK YOU