



Circular Economy in the Automotive Industry

March 2025



MBA students' mission to create value for Eurogroup Consulting clients



Eurogroup Consulting,
committed to create
sustainable value for its
clients



MBA in IM Students from
ESCP Business School

Problem statement - The current state of the circular economy in the automotive industry struggles to present financially sustainable practices.

Project Mission - Our objective is to analyze the current and emerging challenges of implementing circular economy (CE) principles within the automotive industry. We aim to identify opportunities within CE practices and deliver actionable recommendations that enable Eurogroup Consulting to drive sustainable value for its clients.

The project will explore strategies that reduce waste, promote material reuse, and ensure compliance with evolving regulatory standards.



Executive summary



Context & Challenge

The automotive sector faces mounting pressure to adopt circular economy (CE) practices amid rising regulatory demands, resource constraints, and consumer expectations for sustainability. Current CE practices struggle with scalability, economic feasibility, and supply chain complexity.



Key Findings

- Component-Level Priorities: Batteries, powertrain, electronics, and plastics offer the greatest potential for CE initiatives.
- Emerging Trends: The shift to EVs increases demand for material recovery and second-life applications.
- Global Disparities: Europe lags in resource sovereignty and cost competitiveness compared to Asia.
- Circularity in Europe: Only a small percentage of vehicle materials are recycled, highlighting inefficiencies in end-of-life vehicle management and resource recovery.



Recommendations

- Short-Term: Strengthen regulatory alignment and incentivize CE adoption (tax breaks, subsidies).
- Medium-Term: Standardize components for easier disassembly and promote modular designs, and scale partnerships across value chain suppliers for CE innovation
- Long-Term: Implement closed-loop systems and introduce component leasing models to drive recurring revenue and integrate advanced technologies like blockchain for lifecycle traceability

What to expect

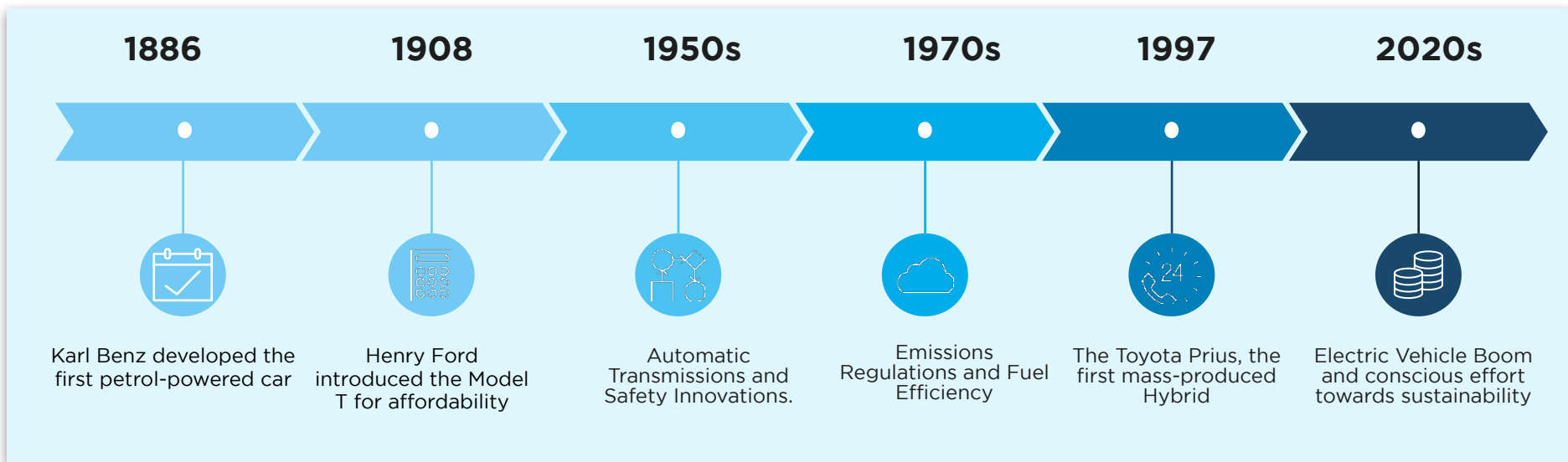
- 01 /** Introduction to the Automotive Industry
- 02 /** Circular Economy in the Automotive Industry
- 03 /** Project Structure
- 04 /** Key Components
- 05 /** Next Steps
- 06 /** Interviews
- 07 /** Bibliography
- 08 /** Teams



01 /

**Introduction
to the
automotive
industry**

The automotive industry is now transitioning into an era of sustainability

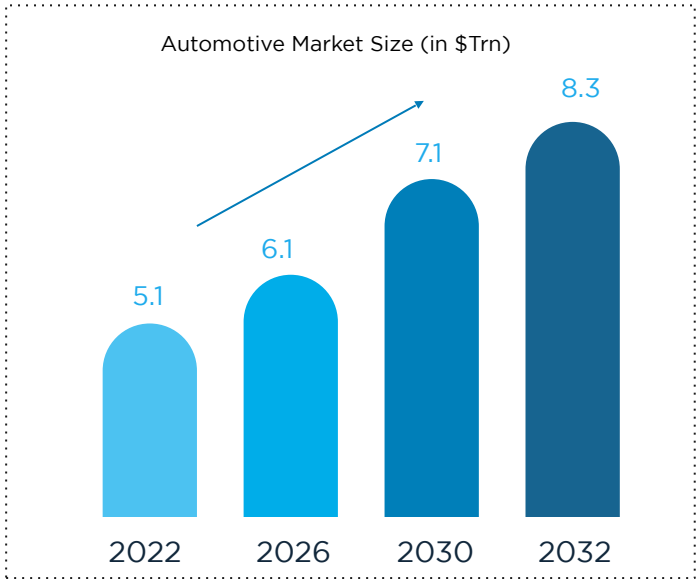


➤ The automotive industry evolved from petrol-powered cars in 1886 to mass production in 1908, safety innovations in the 1950s, fuel efficiency in the 1970s, hybrid technology in 1997, and now a sustainable EV boom in the 2020s



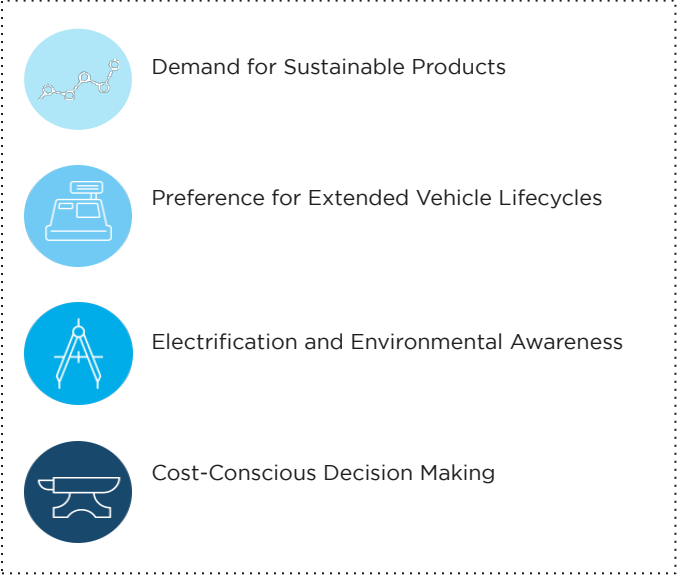
As shifting consumer trends are reshaping the paradigms

Growth in Market Size ~15% per year on an average



➤ **72%** of consumers consider sustainability when purchasing vehicles.

Overall Trends in the Automotive Industry



➤ The average age of vehicles in operation in the U.S. hit a record **12.5** years in 2023

The present and the future come with different market opportunities

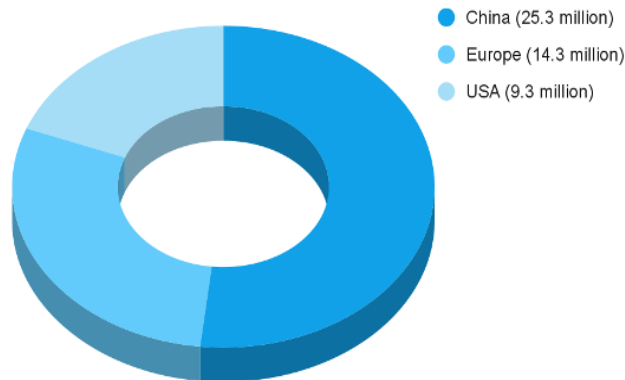


Old generations ICE vehicles are coming to the end of their life, creating market new opportunities at the present

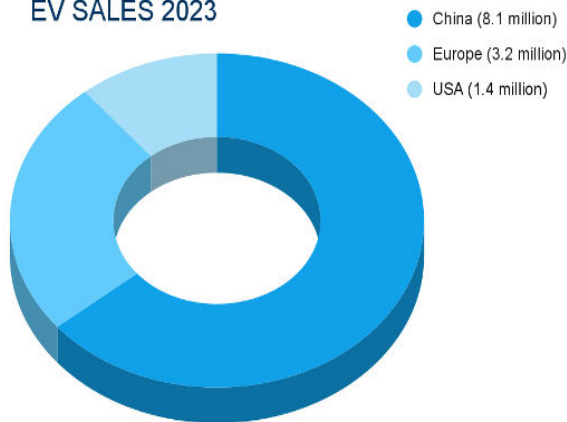


Around 49 million ICE vehicles currently sold annually. Sales are projected to decrease by 45-60% by 2030. This shift creates a greater need for circular economy solutions

ICE VEHICLES SALES - 2023



EV SALES 2023



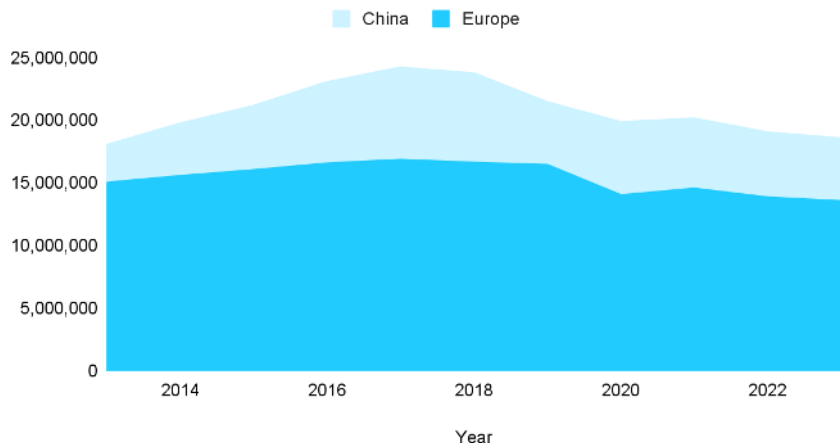
New generation of EV vehicles will create different market opportunities in the future



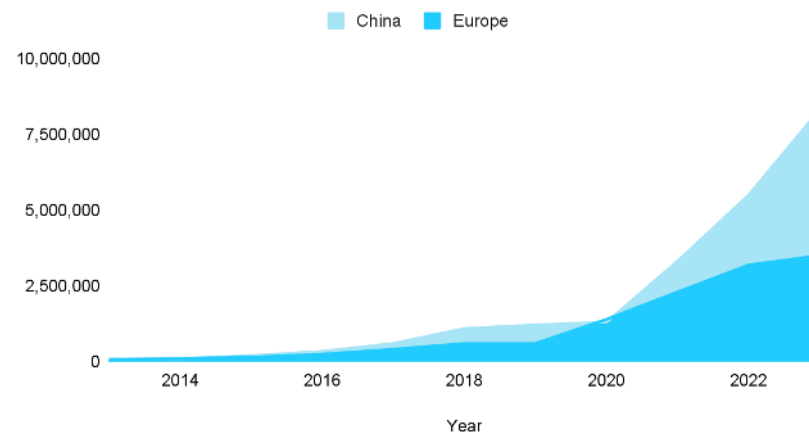
Global electric car sales reached almost 14 million in 2023, representing a 35% increase from 2022. By 2030, EVs are projected to make up about 40-55% of new vehicle sales

While global ICE sales are on the decline, Asia is taking the lead with EVs

Yearly ICE Sales

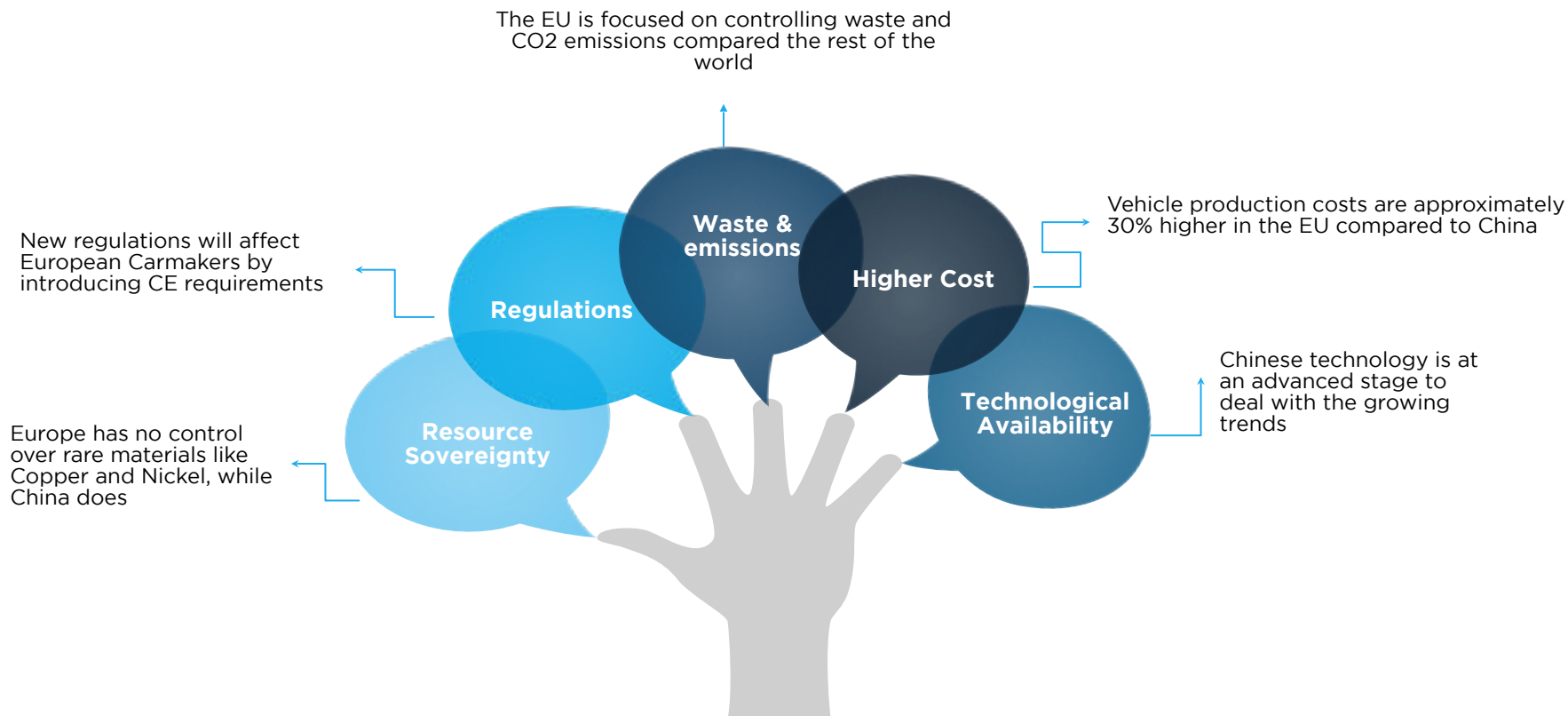


Yearly EV Sales



➤ European OEMs are looking for new revenue models that keeps them competitive in global markets

Europe is losing terrain due to five major challenges



021

**Circular
economy
in the
automotive
industry**



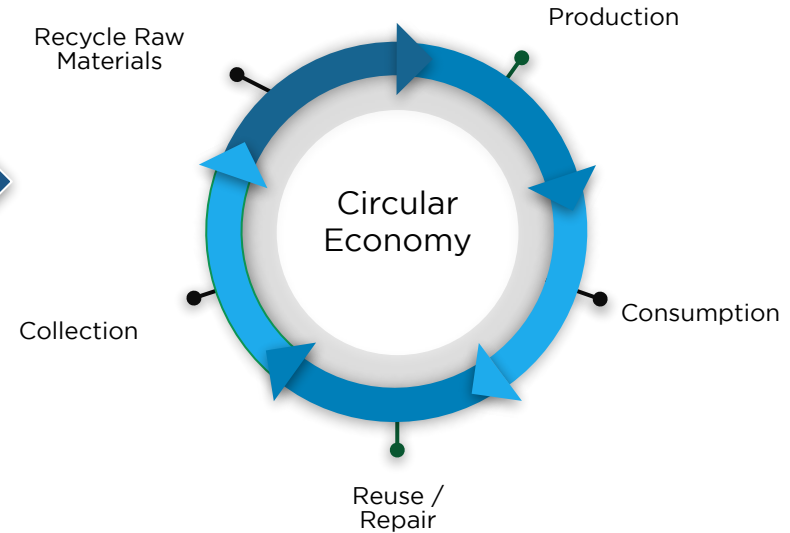
European Automotive is demanded to shift from linear to circular model

Industry in a Linear Model



The industry generates over 25 million tons of waste annually from end-of-life vehicles with the linear model. [Sources](#)

Industry in a Circular Model



Embracing a circular model not only minimizes waste but also unlocks opportunities for innovation, cost savings, and competitive advantage in a resource-constrained future

/ Circularity constraints come from external drivers...

Consumer Behavior Shifts

- Need to align pricing strategies with consumer willingness to pay
- 54% of consumers are willing to pay more for sustainable products across categories

Supply Chain Costs for Raw Materials

- Rising costs and scarcity of rare raw materials like Copper and Nickel.
- Lack of resource sovereignty

01



03



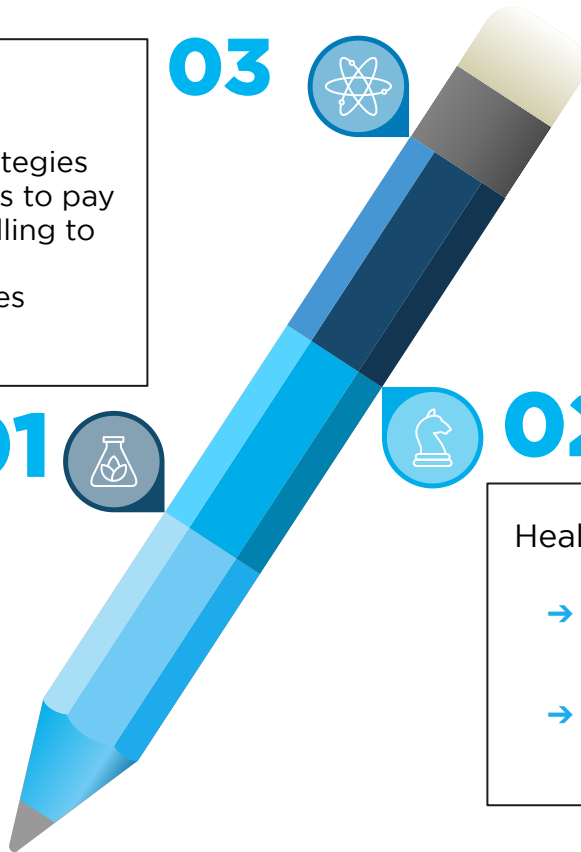
Automotive emission accounts for **10%** of the global CO2 emissions

02



Health Issues and Waste Pollution

- Transport is responsible for more than 25% of the EU's greenhouse gas (GHG) emissions
- End-of-life vehicle waste generates over 25 million tons annually



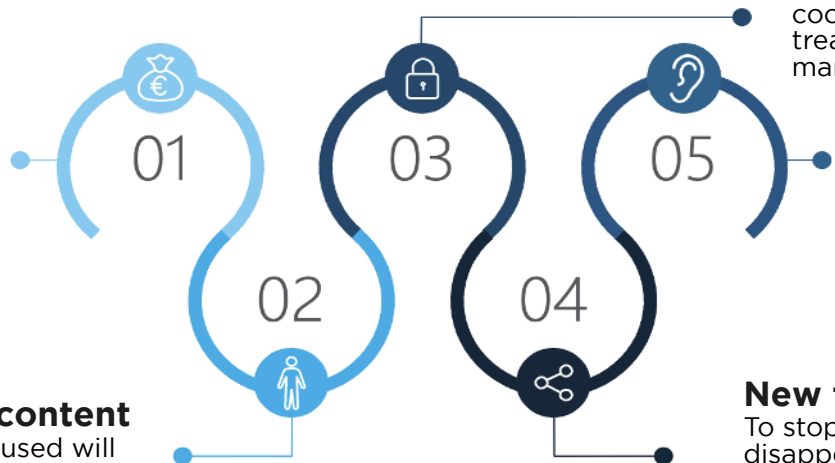
...and Europe is addressing them introducing new principles and regulations

Design circular

Car makers will need to provide clear, detailed instructions for dismantlers

Use recycled content

25% of the plastic used will be required to come from recycling, of which 25% must be recycled from end-of-life vehicles



Improve governance

fostering enhanced cooperation between treatment operators and manufacturers.

Broader coverage

these measures will be gradually expanded to include new categories such as motorcycles and buses

New tracking systems

To stop vehicles from disappearing, more tracking of end-of-life vehicles, better separation of old cars from end-of-life cars, more fines for infringements

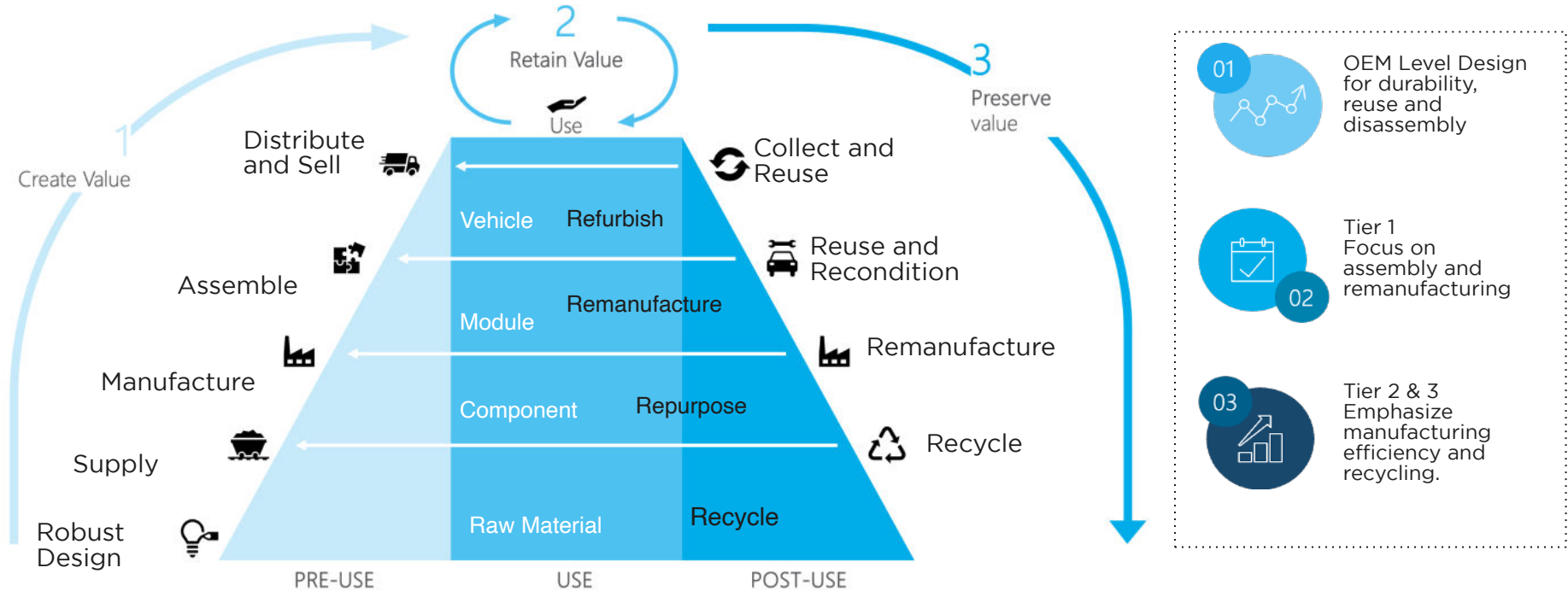
**How can these players
balance the decline
on value and transit
to a circular economy
through sustainable models?**



03 /

Project structure

The circular economy value chain has several players with key roles



“7Rs” Automotive Supply Chain Framework:
Reduce, Reuse, Robust-Design, Refurbish, Remanufacture, Repurpose, Recycle



The players work across various components to close the life-cycle loops

CE Drivers



Financial strength

70% Cost savings comes from recycling batteries and electronics



Reselling Globally

Partnerships and facilities for standardized reuse processes.



Partnerships with Tier-1

Collaboration to repurpose batteries, chips, and sensors.



Growth Opportunities

Revenue from second-life batteries and refurbished components.



Design for Repurpose

Modular designs for easier recycling and reuse are important for CE.



Key Focus Life-Cycle Loops



Batteries



Electronics



Plastics



Seat Frames



Drive Train



Wiring Harness



Glass



Tyres



Body Panels



Suspension

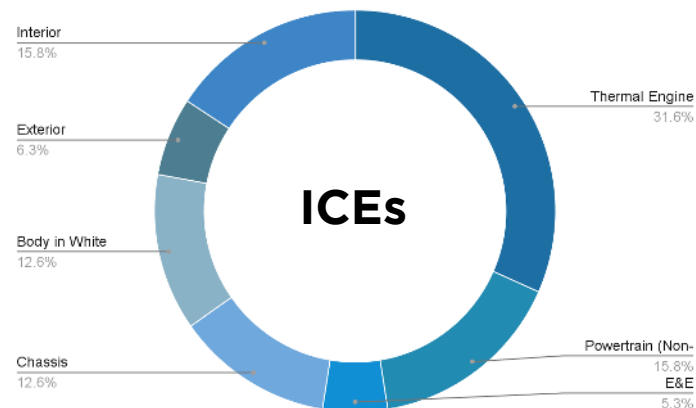
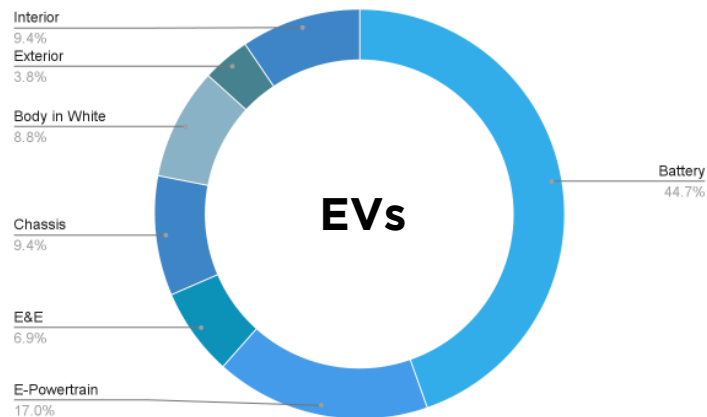


Radiators



Cooling

The cost breakdown of car components put a spotlight on various opportunities...



A

Batteries are the largest EV cost component, with materials like lithium and cobalt offering recycling potential and make up ~45% of overall cost

B

Powertrain, a key cost in both EVs and ICE vehicles, offers opportunities for reuse and refurbishment to improve sustainability and reduce costs.

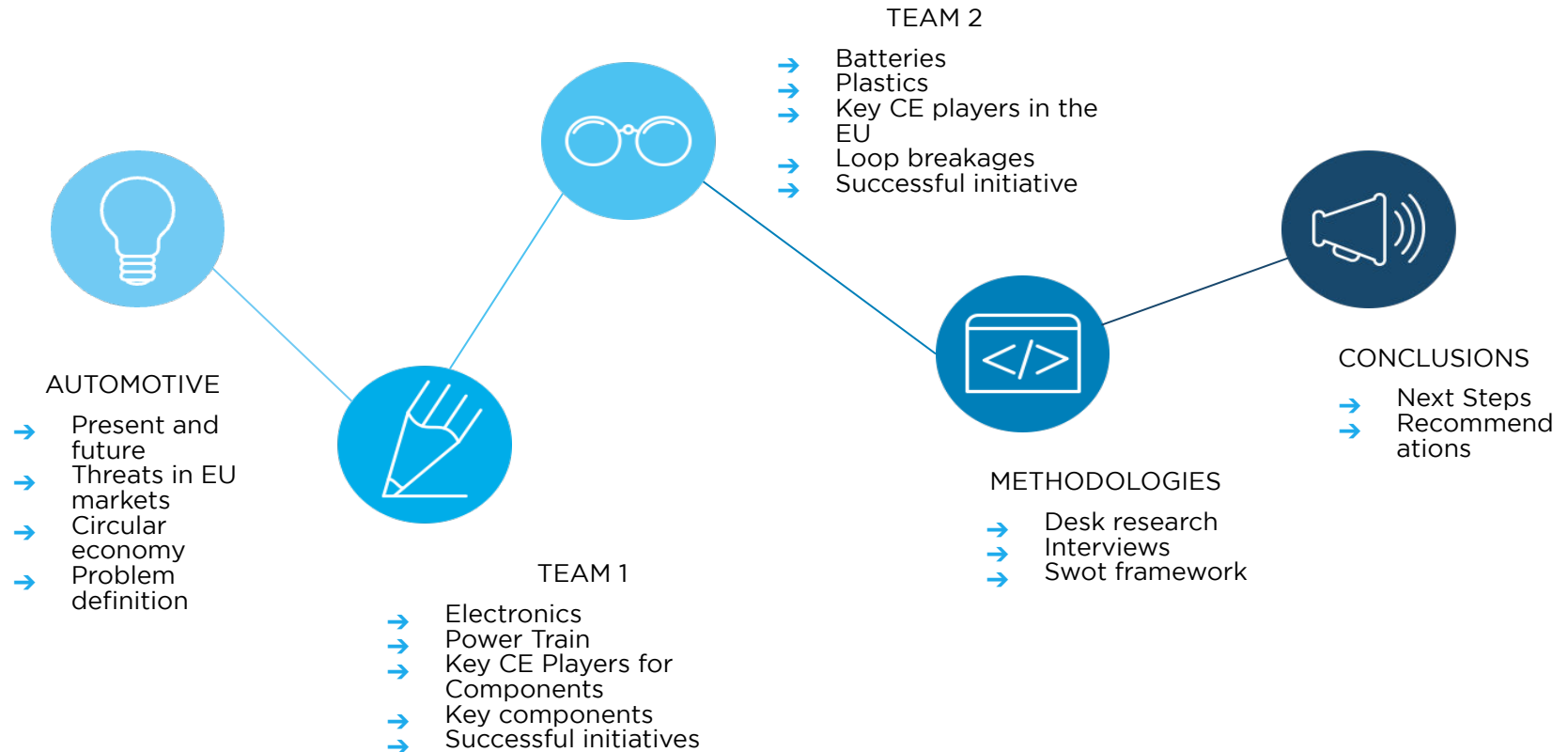
C

Electronics (E&E) enable key functions like safety, connectivity, and performance, with high potential for recycling and recovery innovation.

D

Plastics in components like Body, Interior, and Exterior are significant; recycling them reduces raw material dependency and environmental impact.

...That are further developed from two sides, to build our final recommendations



04/

Key Component

Electronics

Power Train

Battery

Plastics

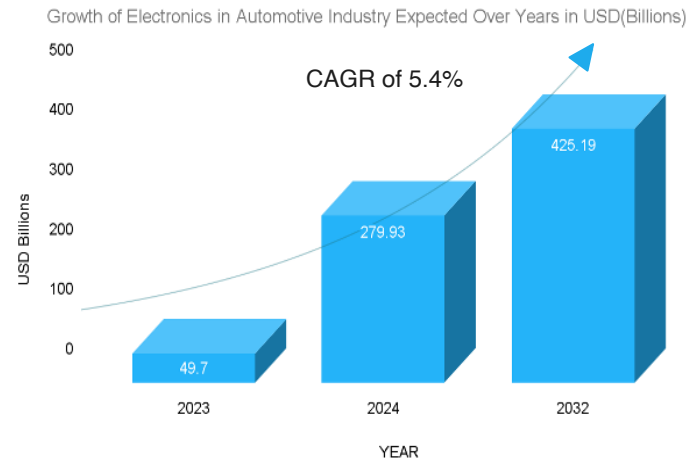
Automotive Electronics Industry at a glance

Present Situation of Electronics in Automotives

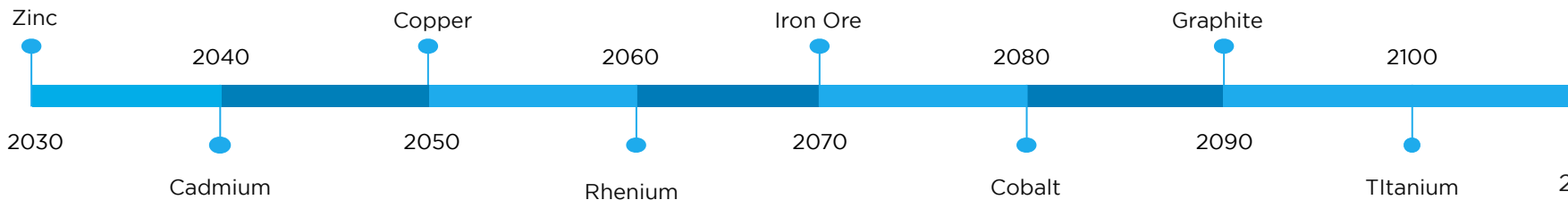
- Safety Features , Autonomous Vehicles, EVs & SDVs driving substantial increase in Automotive Electronics Market.
- Asia Pacific dominates the market share in 2023.

Need for Electronics to integrate into Circular Economy

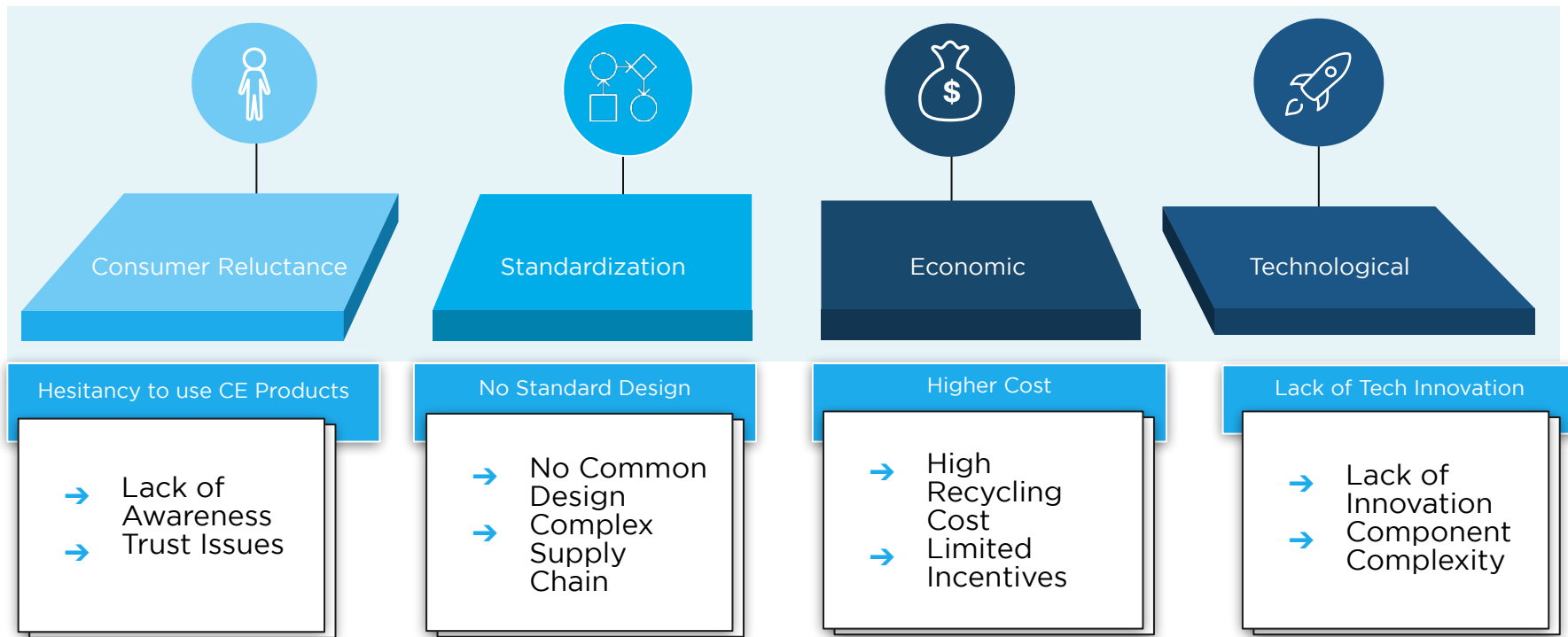
- Electronics is projected to account for **almost 50%** of all the automotive components for future cars.
- BAU projects increase in manufacturing costs
- Resources such as Copper, Silicon, Neodymium are getting depleted, resource scarcity is the impact.



Resources are getting depleted and these raw materials will go scarce in the mentioned years (Scale)



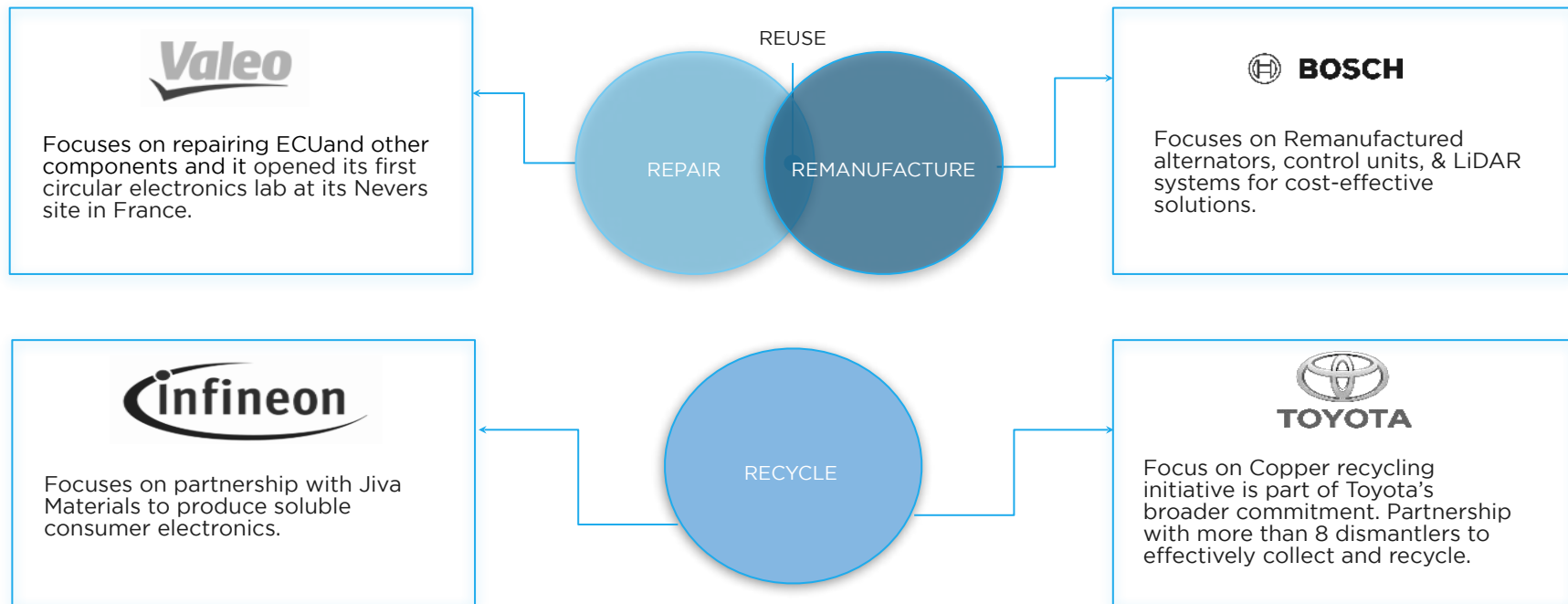
Challenges to CE Adoption in Automotive Electronics for the Industry



➤ Overcoming consumer reluctance, standardization issues, high costs, and technological gaps is critical for accelerating Circular Economy adoption in automotive electronics.

Solutions are being driven by Innovative CE Approaches in Automotive Electronics

Companies are running Reuse (Repair and Remanufacture) and Recycle Programs for Electronic Components to drive Circular Economy



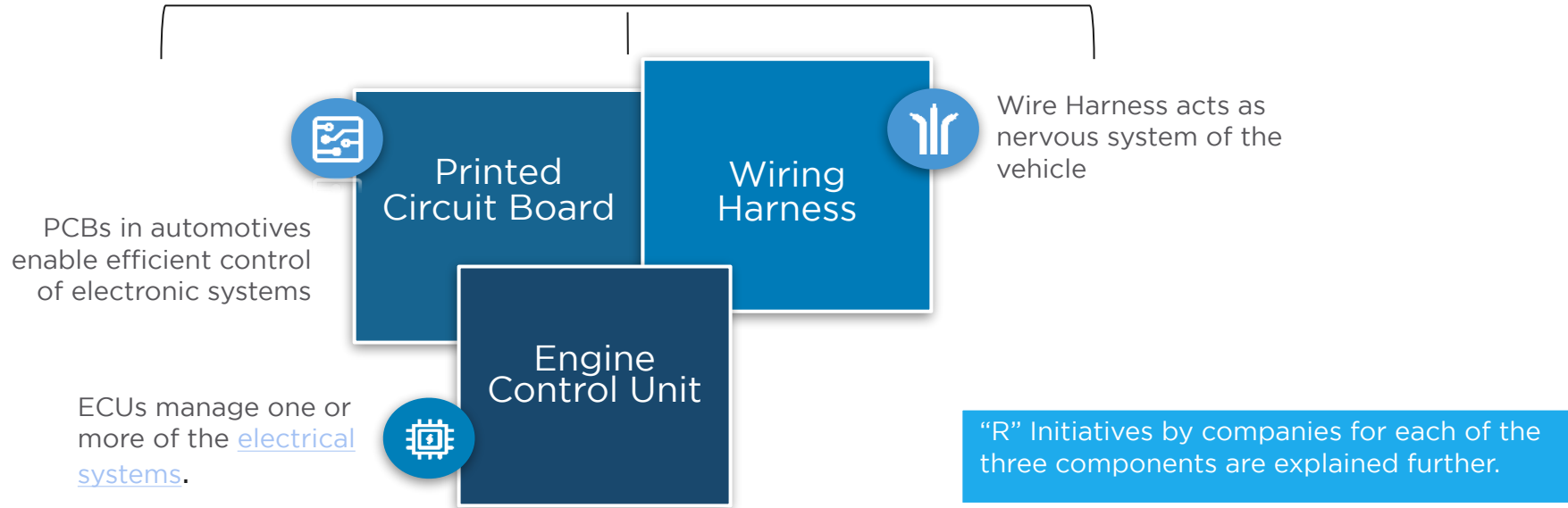
It's difficult for electronics as a whole system to close the CE loop, however above companies are using some R Programs to integrate relevant electronic component in a R Program (Circular Economy)



Deep Dive into High-Impact Automotive Electronics for Circularity

These 3 are major components inside an Electronic System of an Automobile, as these three Components make up almost 40% of the total parts in a modern automobile.

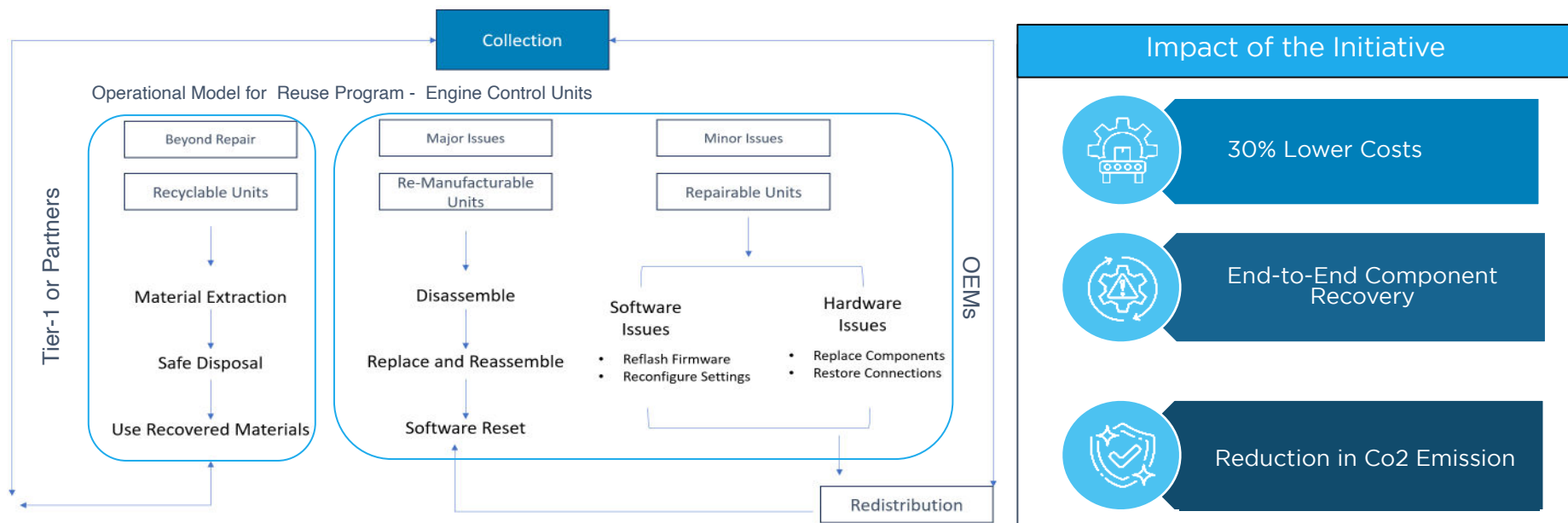
Major Components of an Electronic System of an Automobile



Companies are able to close the CE Loop for these 3 Components through respective R programs.

Initiative #1 Bosch Exchange : Re-Use Strategy for Engine Control Units

This initiative provides two solutions for defective ECUs: Fix Price Repair for all defects at a fixed cost, or 1:1 Exchange with a remanufactured replacement ECU requiring no additional programming or hardware fixes



Some raw materials like Aluminium, Copper and Silicon Chips are being Recycled from below ECUs components

Microcontroller

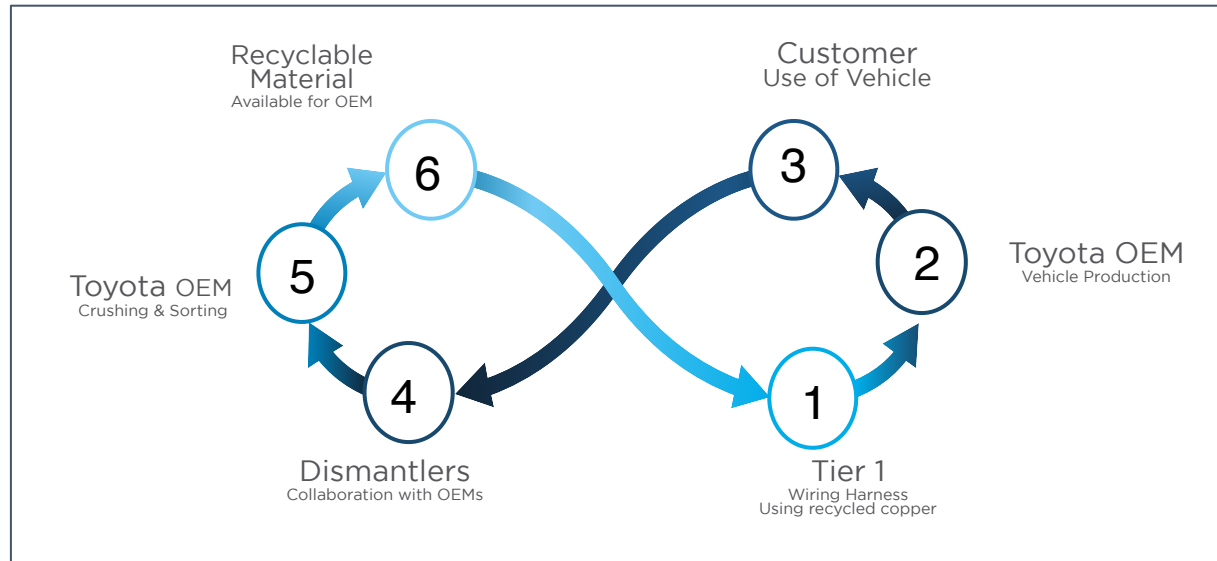
Integrated Circuits

Resistors

Capacitors

Initiative #2 Toyota's Copper Recycling Revolution Drives CE for Wire Harness

Overall Process of Recycling Copper from Wire Harness of an Automobile



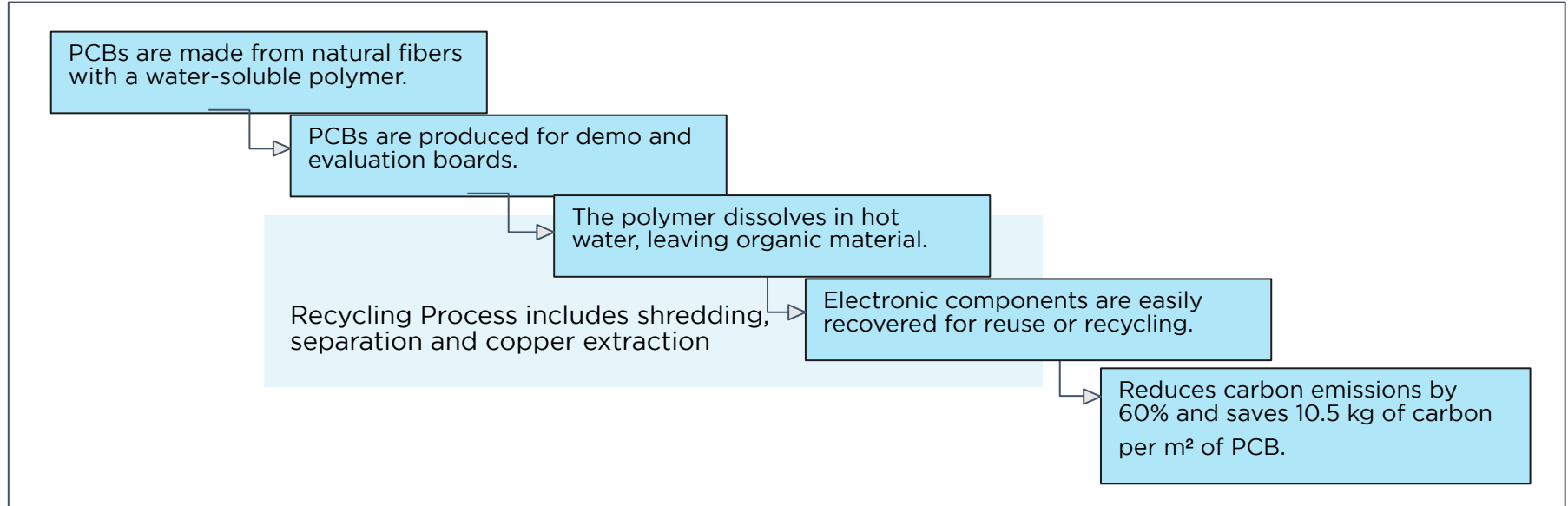
Impact of the Initiative

- Recycled copper achieves 99.96% purity making it suitable for reuse in vehicle production.
- Toyota recovers up to 500 tonnes of copper annually.
- Recycling copper reduces CO₂ emissions by approximately 65% compared to mining and refining virgin copper.

➡ Toyota has developed a pioneering method to recycle copper from vehicle wiring harnesses, achieving a purity level of 99.96%.

Initiative #3 Recycling Technique used by Infineon Technologies for PCBs

Infineon Technologies has initiated a significant move towards sustainability by adopting Soluboard®, a recyclable and biodegradable printed circuit board (PCB), this is a great example Automotive Industry is beginning to experiment.



➤ Replacing traditional FR-4 PCB materials with Soluboard® can lead to a 60% reduction in carbon emissions, which equates to savings of 10.5 kg of carbon and 620 g of plastic per square meter of PCB.

041

Key Component

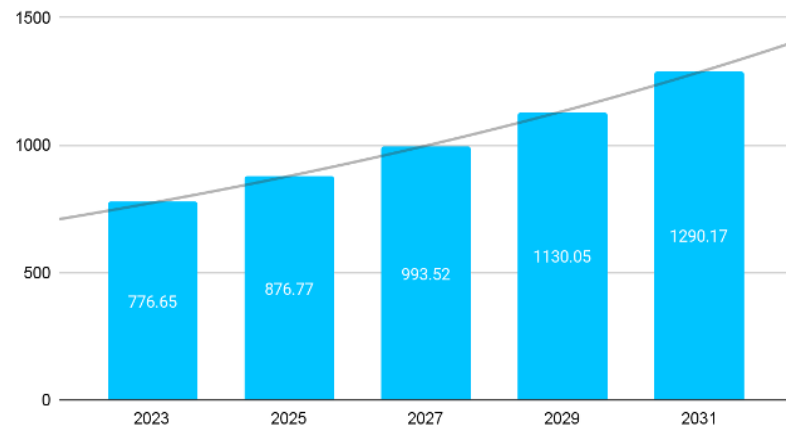
Electronics
Power Train
Battery
Plastics

Automotive Powertrain Industry at a glance

Need of Power Train Circularity

- 60% of the total vehicles in Europe will still be powered by ICE by 2040
- ICE powertrains account for 70-75% of a car's environmental footprint
- 80-90% of powertrain components (e.g., engines, transmissions) can be reused or remanufactured
- Adopting circular practices for powertrain can achieve up to 50% reduction in energy consumption during production.

Automotive Powertrain Market (2023-2033)



Components inside a Powertrain and raw materials which can be recycled or remanufactured



Engine Block
75-80% Aluminum



Transmission System
65-75% Steel



Exhaust System
70-80% Steel and PGM



Electric Motor
50-60% Steel

Automotive Power Trains: Major R Initiatives and their impact



Remanufacture



Recycle

faurecia
Service

Remanufacture



Recycle

Engine Block and Transmission System

- Extends life of the component by remanufacturing.

Aluminum and Steel Raw Materials

- Recycles 20 Million pound of Aluminium Scrap annually.

Exhaust System Components

- Remanufacture exhaust components like DPF.

Platinum Group Metals

- BMW recycles catalytic converters, and recycles 90 % palladium.

- 80% Less Energy Consumed
- 40% - 50% cost savings

- 95% reduction of GHG
- 30% Material Cost Savings

- 75% lesser CO₂ emissions
- 30% more cost-effective ³

- 90% energy saved
- 40% material cost saving

Engine Block and Transmission System

Exhaust System



Circular economy initiatives in automotive powertrains deliver up to 90% energy savings and 50% cost reductions, driving sustainability and efficiency.



Robust Design of Powertrain is necessary for sustainable Automotive Industry



Modular and
Standardized
Design

Designed as modular units to be easily disassembled and replaced



Use of Durable
and Recyclable
Materials

Using advanced metals boosts powertrain durability and ensures easy recycling



Integration of
Digital Twins for
Lifecycle Tracking

Digital twins monitor powertrain components in real time



Scalability for remanufacturing



Downtime and labour cost



Material recovery efficiency



Virgin material use and CO₂ emission



Component life



Repair cost



Adopt modular designs, standardization, and advanced technologies like digital twins, while prioritizing cost-effective, recyclable materials.

04/

Key Component

Electronics
Power Train
Battery
Plastics

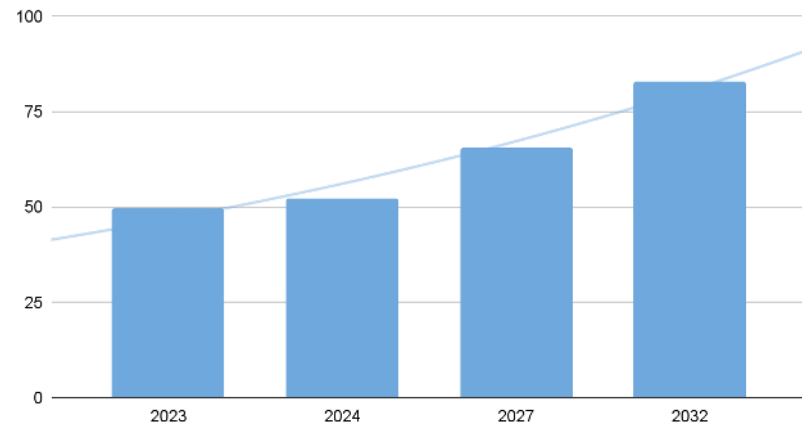
Several factors are projected to drive the growth of the battery market in the future

- Rising EV adoption
- Advancements in battery technology
- Supportive government policies
- Increased investment in sustainable
- Localized production

Market Dominance: Asia Pacific

It is vital for us to introduce circularity in this sector as we move ahead.

Automotive Battery Market (2023-2033)



Source: <https://www.fortunebusinessinsights.com/automotive-battery-market-106486>

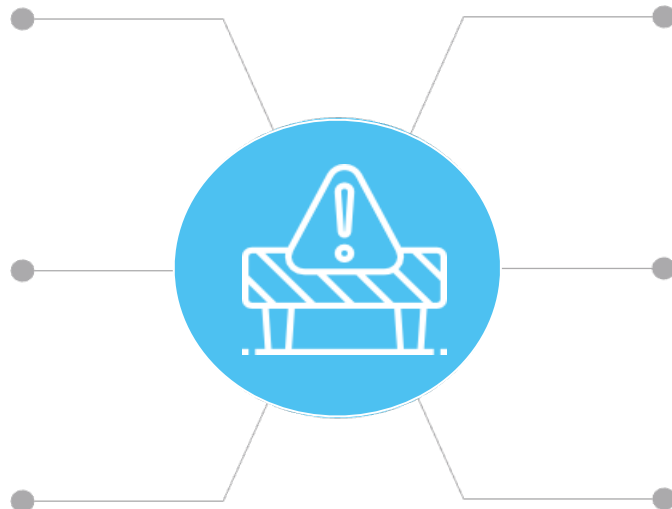


However, several roadblocks are on the way....

Not designed with recyclability in mind - leading to difficult recovery, reuse and the usage of hazardous materials

Current technologies fail to recover critical materials & not uniformly scalable

Fragmented Supply Chain and inefficient collection



Inconsistent global policies

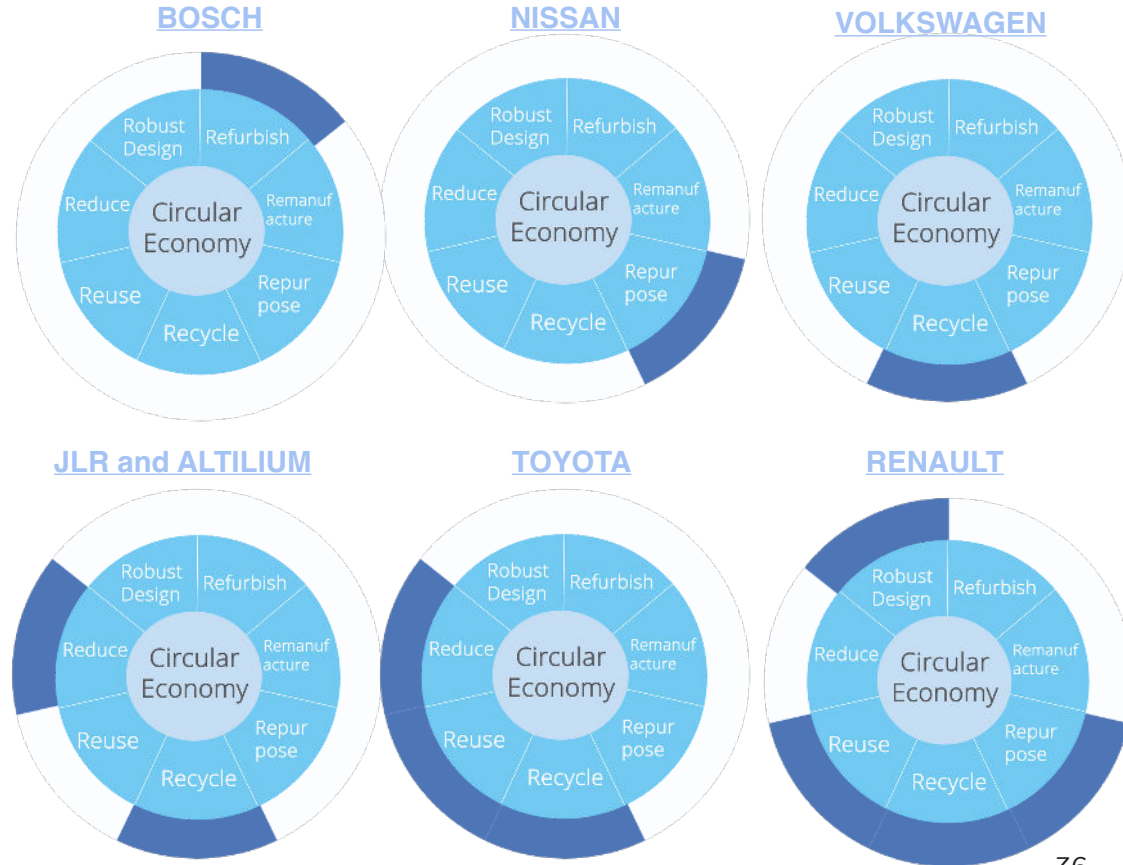
Limited secondary markets

Technological Obsolescence

Companies are creating economic value through different circular economy initiatives

Recalling the Circular Economy framework, composed by the 7-Rs

Is it possible to achieve full circularity by taking inspiration from existing successful initiatives?



These initiatives create the highest impact across the 'Rs' of the CE value chain

RENAULT

Reuse: Second-Life applications: Renault repurposes used electric vehicle (EV) batteries for stationary energy storage systems.



Impact: Decreasing the need for manufacturing new batteries, leading to significant cost savings.

TOYOTA

Recycle: source Cathode Active Material (CAM) and Anode copper foil from recycling operations. This also feeds into domestic battery production.



Impact: Generates additional revenue streams from refurbished batteries and second-life applications.

BOSCH

Refurbished: Extend the life of automotive components through remanufacturing and second-life applications



Impact: Refurbished and second-life applications provide new revenue streams and expand customer access to sustainable solutions.

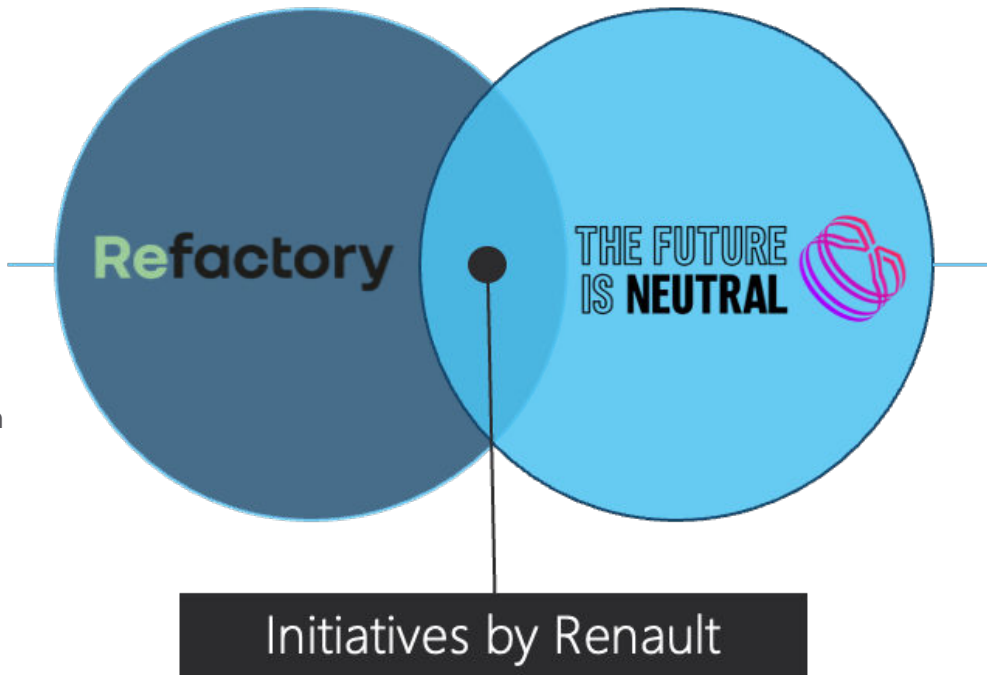


Renault's initiatives are leading the change towards closing the loop in Europe

Designed to reduce waste, extend the life of vehicles and components and minimize environmental impact.

Focusing on:

- Vehicle Refurbishment
- Parts Remanufacturing
- Recycling for carbon neutrality by 2040



Aims to be the industrial and European leader in the closed-loop automotive circular economy.

Focusing on:

- Maintaining the value of parts and materials for as long as possible
- Enabling a much higher rate of recycled automotive materials

04/

Key Component

Electronics
Power Train
Battery
Plastics

Several factors cause the global automotive plastics to grow in the upcoming years



Growing demand for lightweight vehicles to enhance fuel efficiency



Advancements in sustainable and high-performance plastic materials



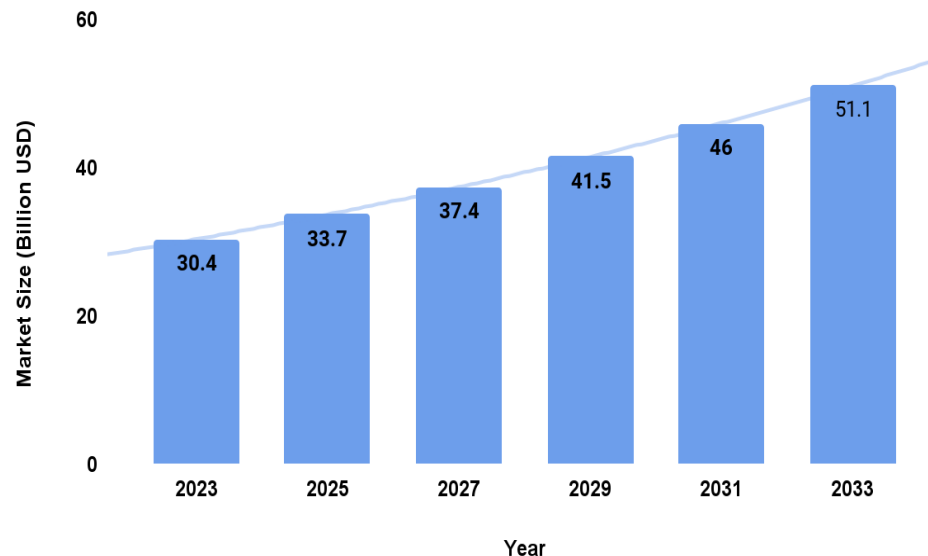
Cost-effective production and design flexibility



Increased use of plastics in interior and exterior

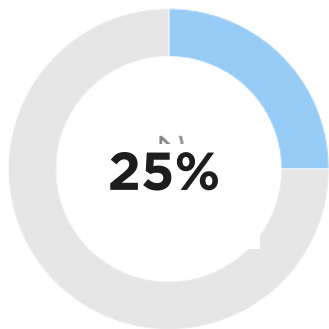
Automotive Plastics Market (2023-2033) -

[Source](#)



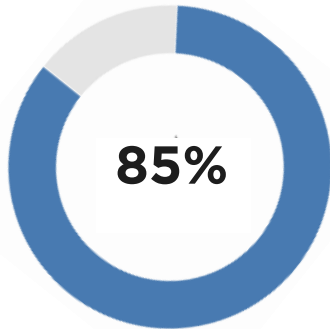


But new regulations will force suppliers to invest in new processes in the next 10 years



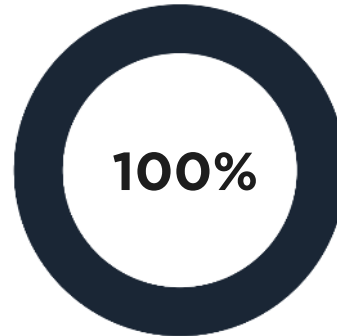
Recycled Content in
Plastics by 2030

Minimum 25% recycled plastic in new vehicles. Encourages OEMs to revise supply chains for plastic parts.



Recyclability by Mass
by 2025

Vehicles need to be reusable or recyclable to a minimum of 85 % by mass



Zero Waste to Landfill
by 2035

OEMs and suppliers must adopt zero-waste processes to minimize environmental impact.

Plastics in the industry is not fully circular today, due to several loop breakages

Technological Barriers

Current recycling technologies struggle with processing complex automotive plastics and mixed-material components.

Quality Degradation

Recycled plastics often suffer from degradation in quality after multiple cycles, limiting their reuse in high-performance applications.

Collection & Sorting

Inefficient collection and sorting processes for end-of-life vehicles (ELVs) and plastic waste hinder the supply of recyclable materials.



Design for Recycling (DfR)

Many automotive parts are not designed for easy disassembly and recycling, complicating the recycling process.

Lack of Standardization

The wide variety of plastics used in vehicles complicates recycling, increasing costs and reducing efficiency.

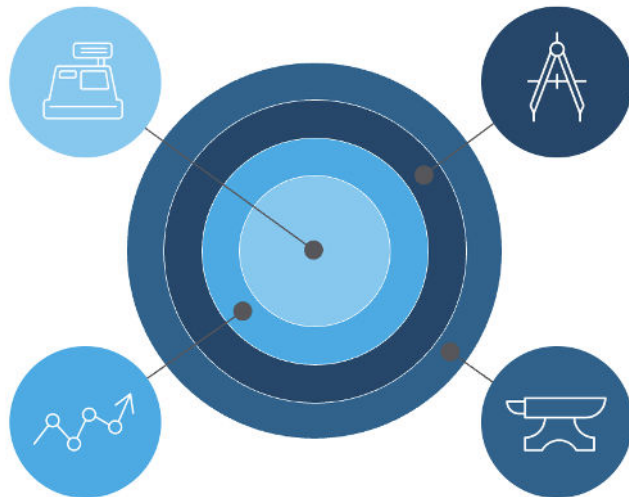
But players across different layers are building innovative and sustainable solutions

OP mobility

Focuses on recycled plastic components for automotive. Partnered with [TotalEnergies](#) to develop innovative recycled solutions.

Forvia

Focuses on sustainable and advanced automotive technologies. Demonstrated the use of ocean recycled plastics in automotive interiors and launched [MATERI'ACT](#) to achieve 70% recycled content in new plastics.



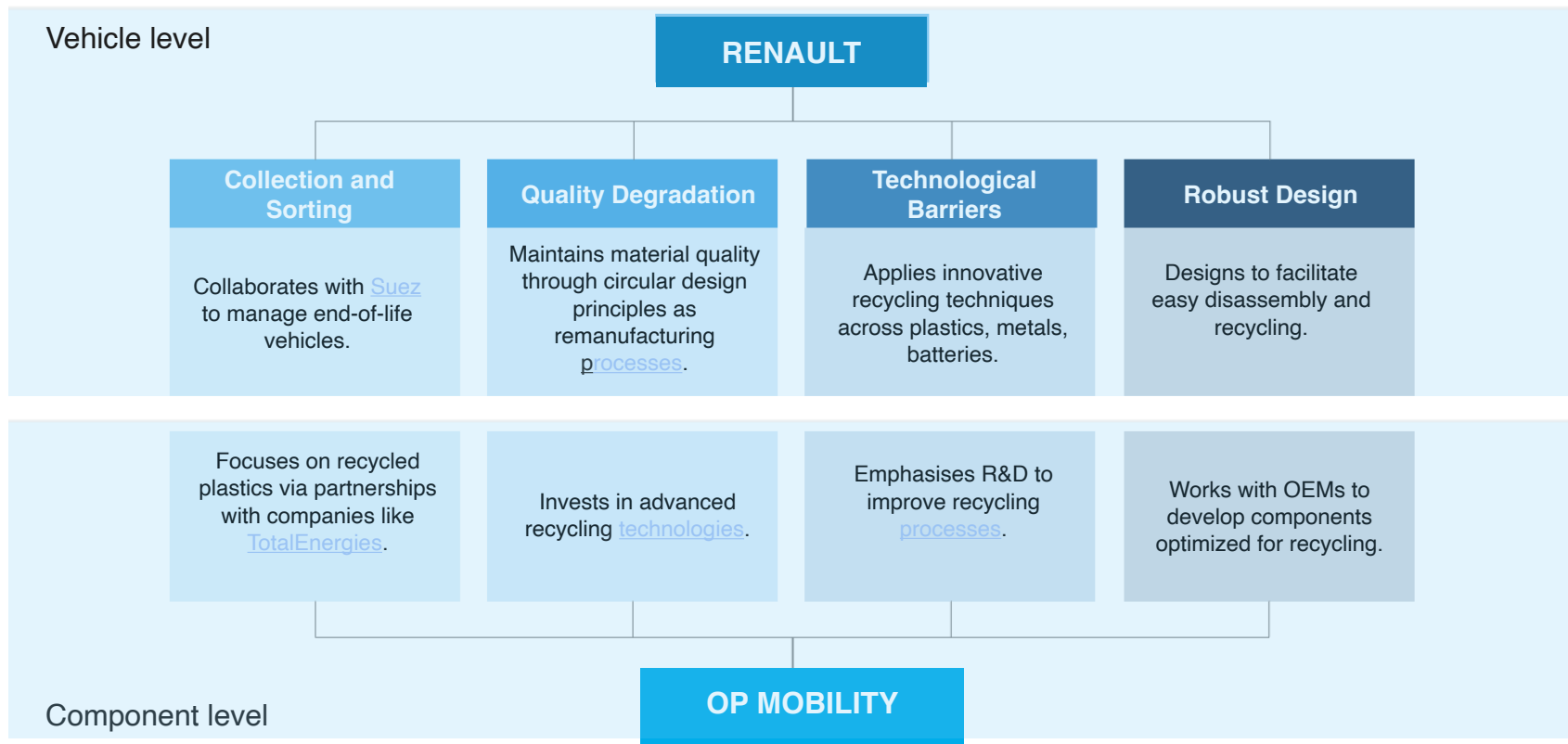
Valeo

a leading Tier 1 supplier, collaborates with OEMs, such as [Stellantis](#), to develop remanufactured automotive parts utilizing recycled materials. They also launched an aftermarket sustainability program “[I Care 4 the Planet](#)”

Renault

in its [GAIA](#) site, created a hub for CE practices, focusing on dismantling, recycling, and remanufacturing end-of-life vehicles (ELVs) and components e.g. polypropylene for bumpers.

Renault and OP mobility as benchmarks to grasp how players address breaks in the loop



05 /

Next steps



There's a need to focus on 3 major pillars to explore the complete potential

Total automotive value chain revenues accrued over the life cycle of a vehicle relative to the sales price [source](#)



Embracing new consumer trends



Creating new revenue streams

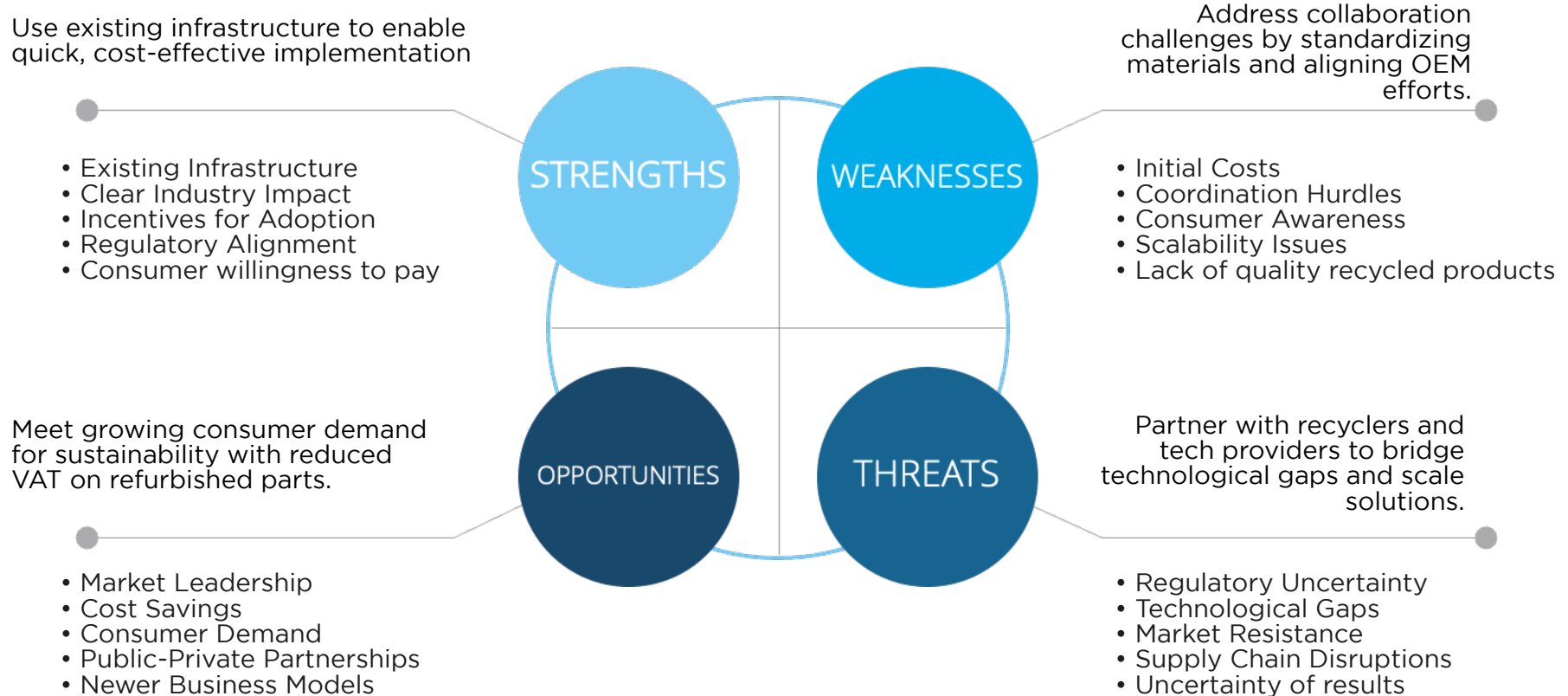


Facilitating EU suppliers to comply to regulations

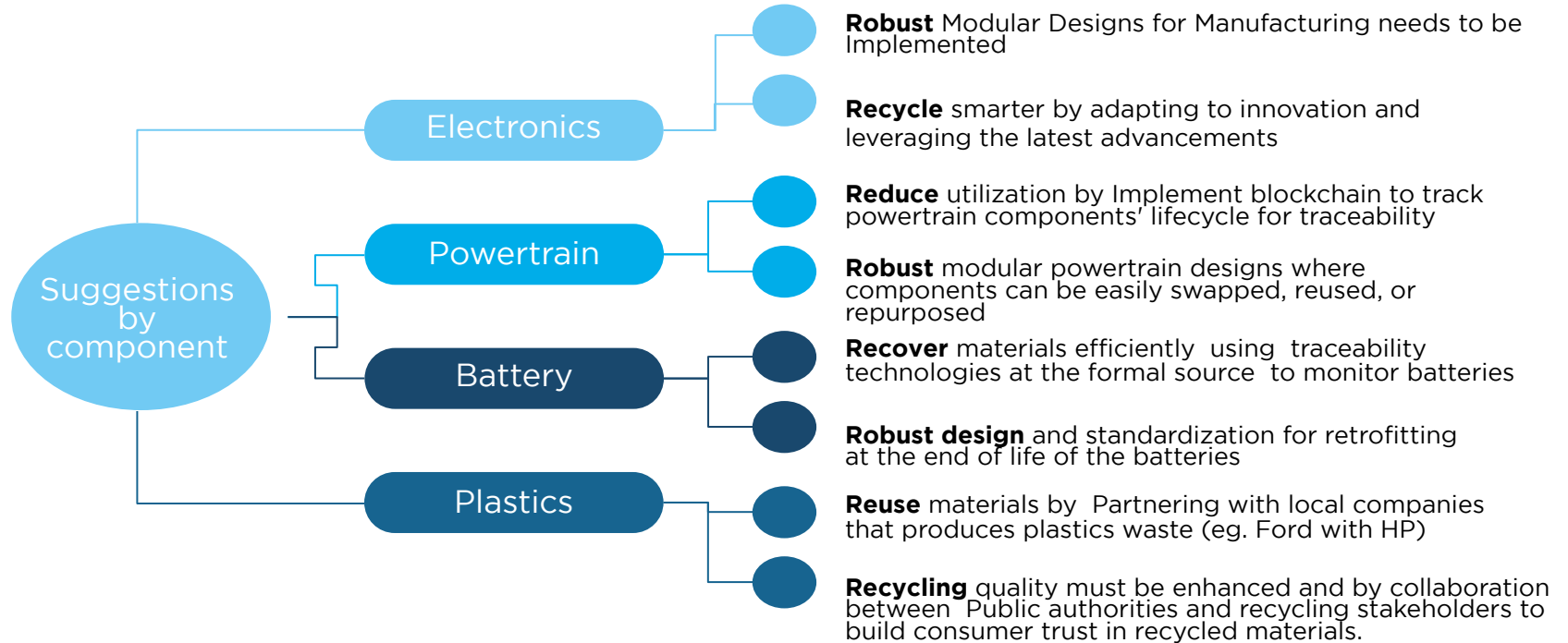
Level of Circularity			
Low Circularity	Moderate Circularity	High Circularity	Full Circularity
Ratio of vehicle life cycle revenues to sales price			
1.5-2X	3-4X	5-7X	15-20X



Recommendations are built on the strengths of the industry, to combat threats and capitalise on the opportunities

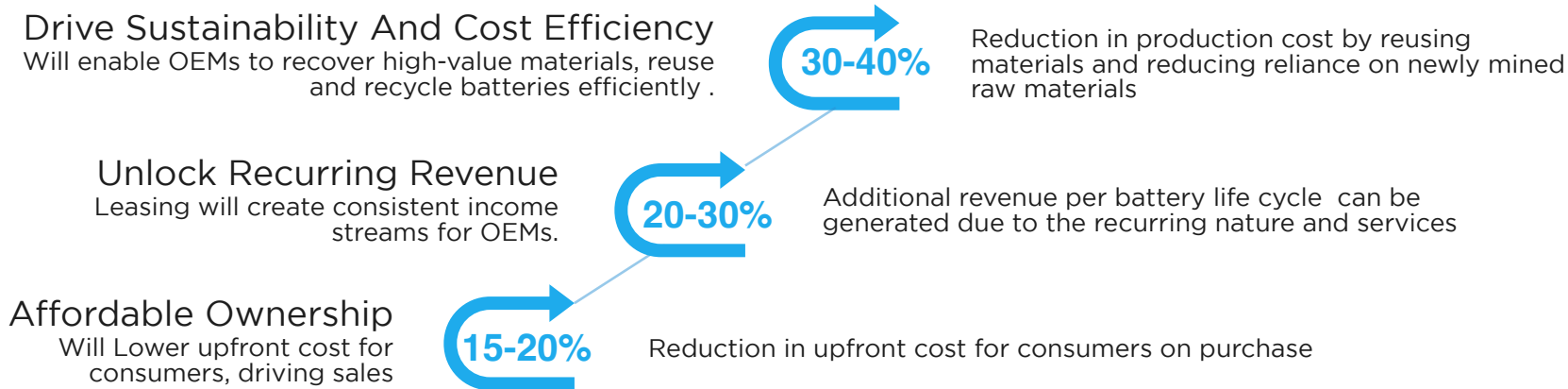


The various R's can be operationally implemented across various components



Case Study by component: Components on a leasing model to recover materials efficiently at the right source*

*The battery industry is taken into account



Call To Action

- ✓ **Build** strong partnerships for material recovery.
- ✓ **Adopt** tracking tech to optimize performance.

- ✓ **Refine** leasing models with key metrics.
- ✓ **Educate** consumers on leasing benefits.
- ✓ **Standardize** battery design for reuse.



Recommendations for each component impact Circular Economy key drivers differently

High impact Medium impact Low Impact

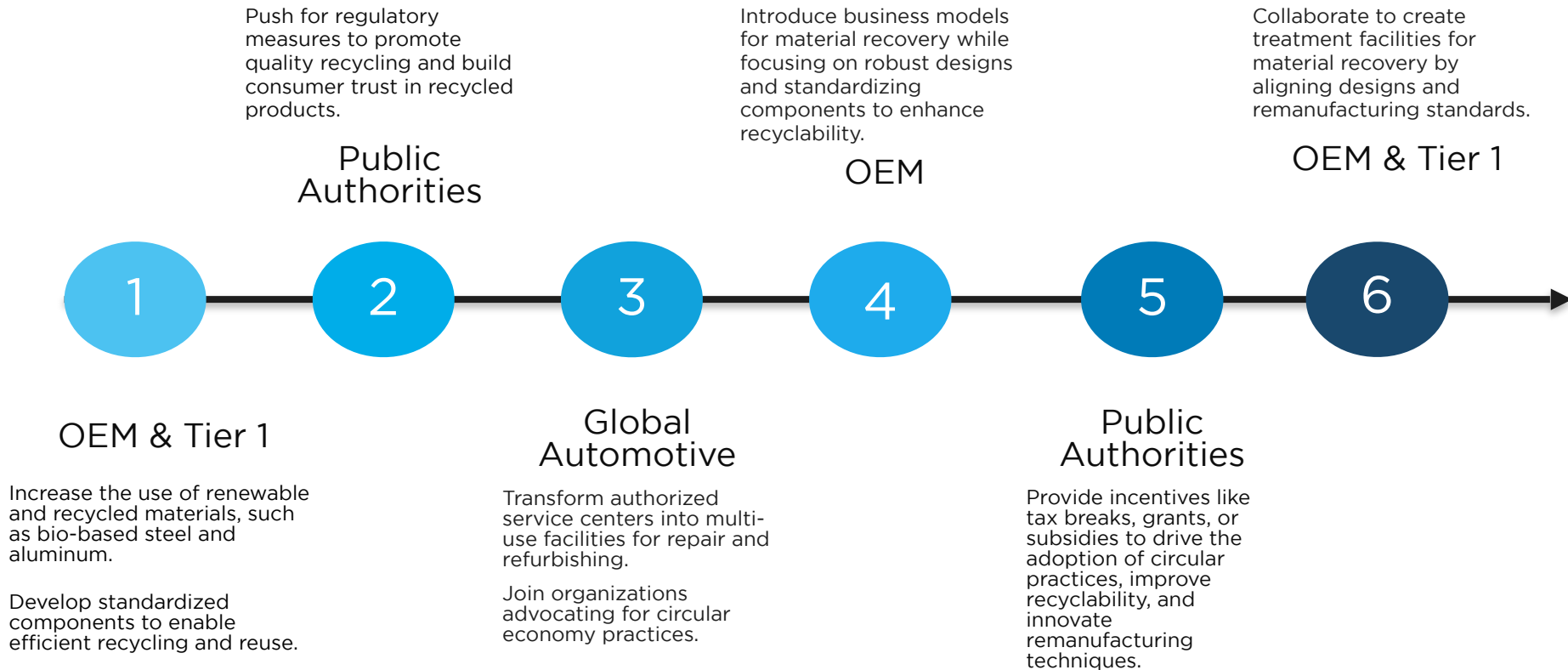
Component	Operational Efficiency	Scalability	Environmental Impact	Economic Impact	Regulatory Compliance	Market Competitiveness	Consumer Perception
Battery	High impact	Medium impact	High impact	High impact	High impact	High impact	Medium impact
Plastics	Medium impact	Medium impact	High impact	Medium impact	High impact	Medium impact	Low Impact
Electronics	High impact	High impact	Medium impact	High impact	High impact	High impact	Medium impact
Power Train	High impact	High impact	High impact	High impact	High impact	High impact	Low Impact

- Battery has strict regulatory compliance and potential cost savings from recycling and second-life applications also drive impact in environment and competitiveness
- Plastics has moderate impact due to challenges in achieving high-quality recycling and scalability, but with limited direct consumer influence
- Electronics has high impact for the increasing electronics content in cars, strong potential for operational efficiency (e.g. modular design) and regulations on hazardous material and recycling
- Powertrain has high impact due to its carbon footprint, potential for energy savings through remanufacturing but with limited direct consumer influence

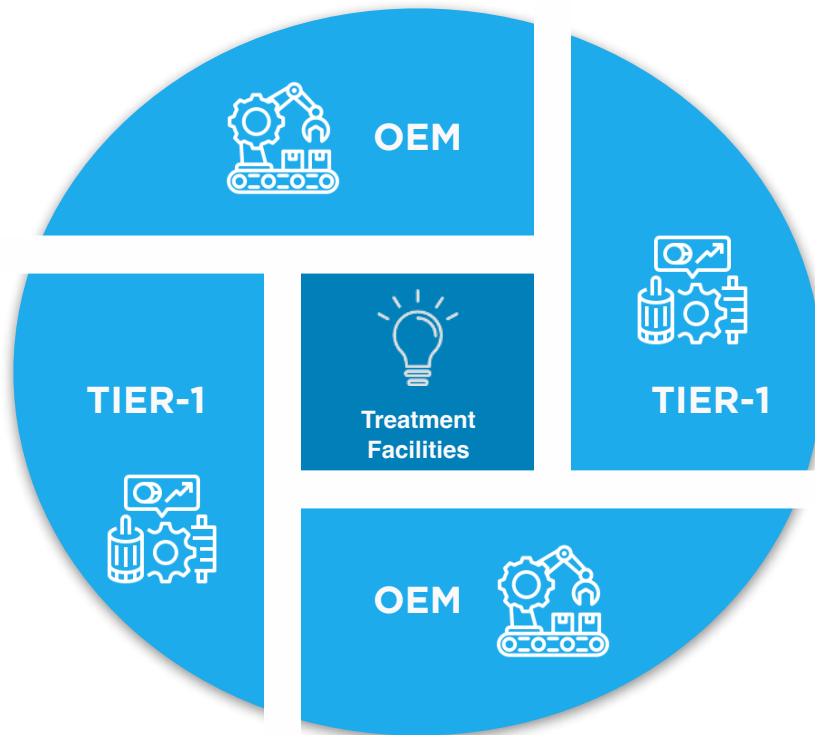


Roadmap

Various elements at the value chain will make an impact at a different point in time



Case study: Strategic collaboration between OEM's and Tier1 for Recycling Ecosystems



Consumer Incentives

- Discounts on new vehicles for returning end-of-life vehicles.
- Lower prices for refurbished components
- Warranties similar to those for new parts, ensuring consumer confidence in recycled materials.

Case study: Repurposing Service Centers into Multi-Utility Recycling and Refurbishment



Collaborate with recyclers and technology providers to handle material recovery.



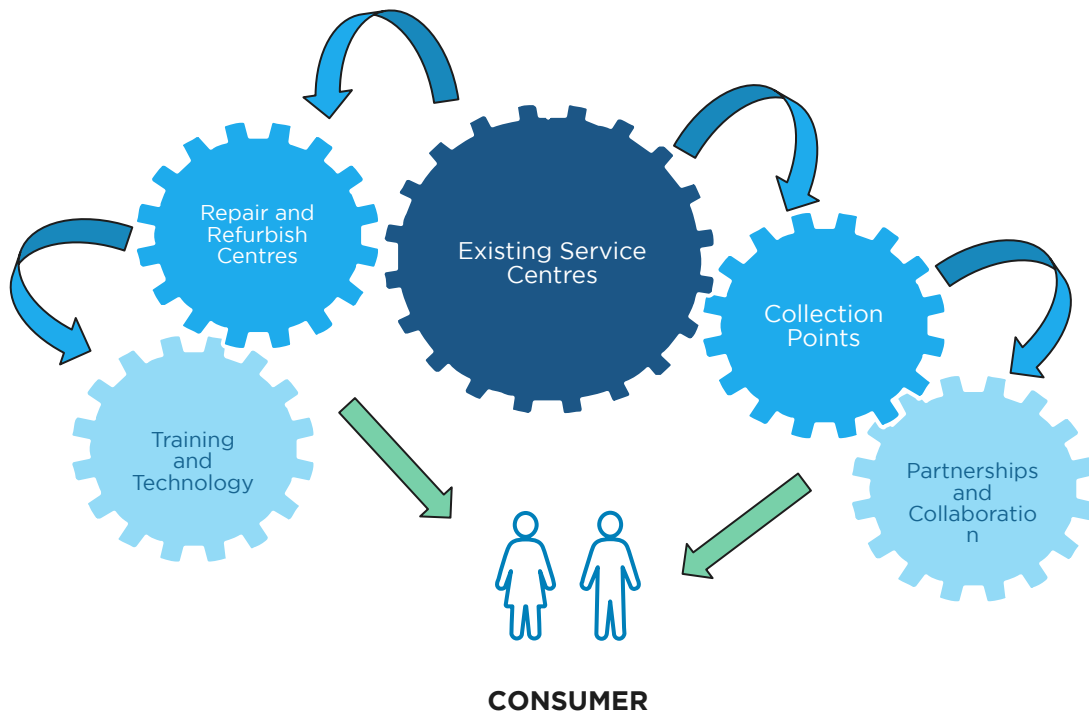
Equip service centers with tools and technologies for dismantling, sorting, and refurbishing components.



Use digital platforms to track the lifecycle of components and ensure traceability.



Build awareness and give consumers incentives to reach a partnered service centre





Market Insights

Key interviews



Interview insights from testimonials of the industry

"With only 15-17% of vehicle materials recycled, particularly plastics and copper, success hinges on increasing recycled components. Limited access to raw materials in Europe highlights the need to enhance recycling and reduce reliance on virgin resources."

Jean- Philippe Bahuaud - CEO of The Future is Neutral

"Achieving circularity in the automotive industry requires collaboration and shared incentives to drive collective progress and close the loop."

Catherine Leleu - Directrice Business Dev Refractory, The Future is Neutral

"Achieving circularity in the automotive industry demands collaboration and shared incentives to drive progress and close the loop."

CEO - Prominent Battery Solutions Organization

Key Takeaways



Prioritize Batteries: Localize black mass refining; innovate recyclable designs



Boost Material Recovery: Advance technologies for plastics, copper, and metals



Only 15-17% of vehicle materials are recycled.



Success depends on increasing recycled components.



Collaborate for Scale: Build joint ventures across sectors to accelerate circularity

Interview insights from testimonials of the industry

"Drive the circular economy by fostering collaboration among OEMs, suppliers, and policymakers, implementing incentives like lower VAT on recycled products, and addressing both IC vehicles and EV components for a sustainable automotive future."

Alain Nay - Directeur des pôles APV et Economie Circulaire @ Mobilians

"Though circular battery design involves initial costs, it offers long-term benefits such as lower lifecycle costs, sustainability, and resilience, with direct recycling preserving high-value components. The biggest challenge for small volumes lies in the handling of the batteries, which is why local recycling management is preferred. Optimizing the initial stages of the recycling process is crucial to ensure the final product's quality, allowing it to either re-enter the battery supply chain or be used for other purposes."

Anonymous- Ph.D Life Cycle Assessment Battery @ Automotive Company

"Renault prioritizes electrification and battery performance to extend life and enable second-life uses. Through 'Robust Design' and sustainable innovations, Renault reduces waste, enhances efficiency, and drives competitive differentiation."

Bruno R.S De Camargo - Ex-Engineering Lead @ Renault Group

Key Takeaways



Circular battery design reduces lifecycle costs and enhances sustainability



Boost Material Recovery: Direct recycling preserves high-value components



Focus on battery performance and second-life uses



Drives competitiveness through sustainable innovation.



Only 20 parts of the car is able to be remanufactured, refurbished, reused in France.

07/

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08 / Teams

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FAITES CONFIANCE AU MONDE
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