Automotive Parts Remanufacturers Association

The Voice of Remanufacturing since 1941

Peter Bartel
Vice Chairman APRA Europe

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APRA MAIN POSITIONING

THE VOICE OF REMANUFACTURING SINCE 1941

APRA IS THE ONLY GLOBAL ASSOCIATION THAT REPRESENTS THE WHOLE AUTOMOTIVE REMANUFACTURING INDUSTRY

We are representing:
Remanufacturers, Component Manufacturers, Car Manufacturers, Core Dealers, Wholesalers, Scientific Research Institutions, Consultants & Services

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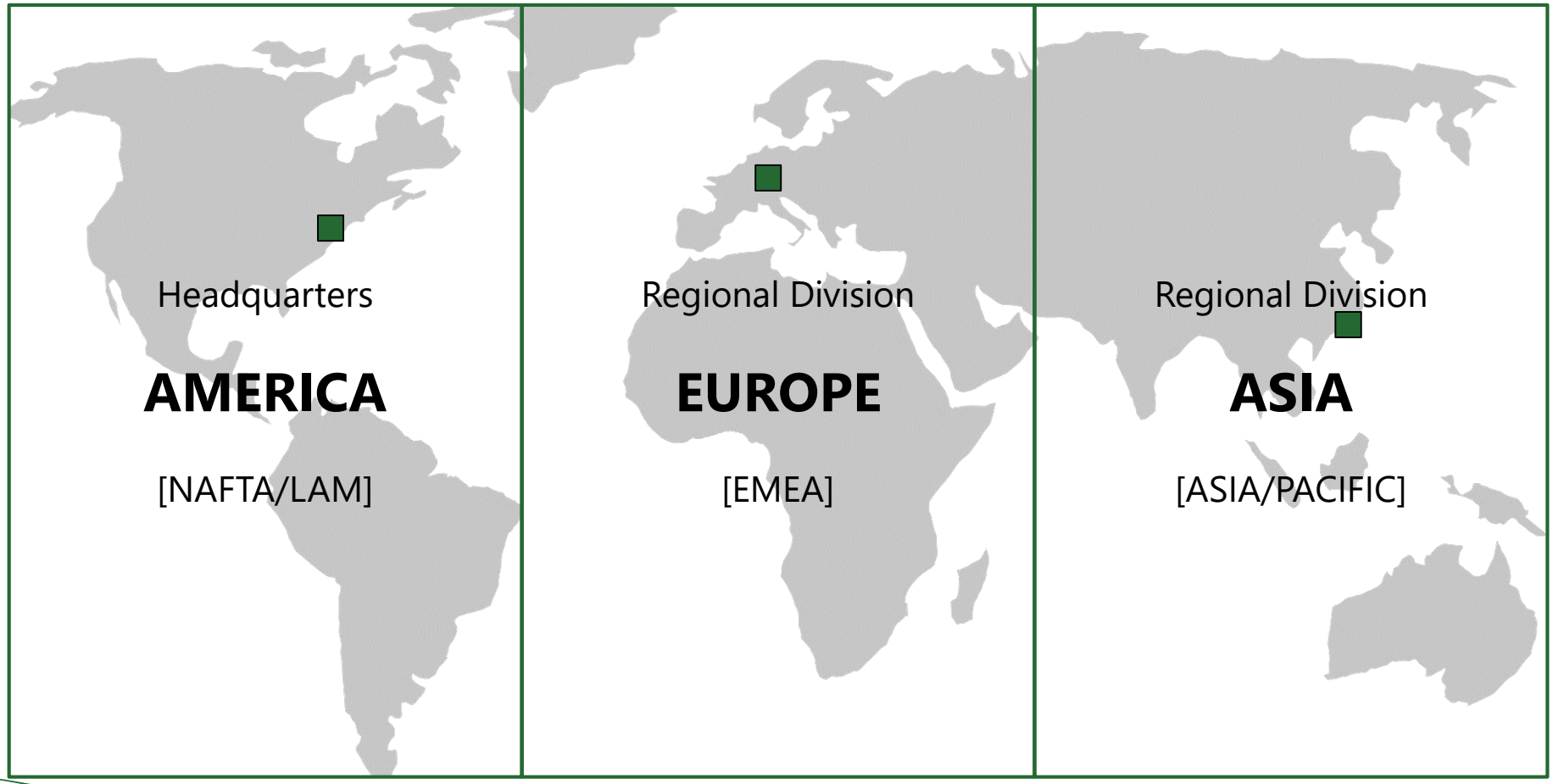
ACTING GLOBALLY FOR ITS MEMBERS



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VALUE PROPOSITION

APRA PROMOTES AND DEFENDS THE REMANUFACTURING INDUSTRY

APRA PROVIDES GUIDANCE AND SUPPORT

APRA CONNECTS THE REMANUFACTURING NETWORK

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REMANUFACTURING BRANCH CLASSIFICATION

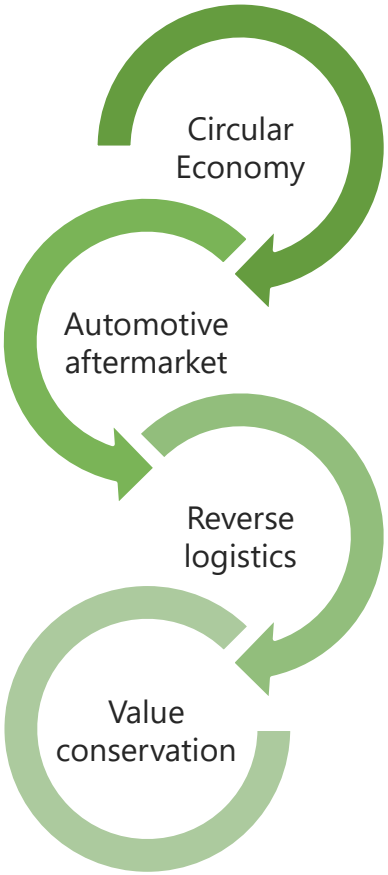

Image: Bosch

Image: Bosch/youtube

Remanufacturing

Recycling Repair

Reuse

- Product recycling instead of material recycling
  → full value conservation
- Remanufacturing output
  → remanufactured, equivalent to new part

→ To evoide recycling

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REMANUFACTURING PROCESS STEPS

Cores

- Sorting of cores
- Complete disassembly
- Cleaning and testing
- Restoring of components
- Replacement by new components
- Assembly
- End-of-line test
- Packaging

Image: Bosch

Remanufactured parts

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REMANUFACTURING PROCESS CHARACTERISTICS

Image: ReMaTec

- Series process in line with industrial standards
- Standardized quality process
- No singular repair (with individual troubleshooting)
- Process know-how required (e.g. cleaning, testing), but not enough, also…

→ …Product know-how required (e.g. functionalities, interfaces)

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ECONOMIC BENEFITS OR REMANUFACTURING

Remanufacturing is **a deal** for both consumers and producers!

- Consumers pay less for remanufactured products compared with equivalent new products
- Using Remanufactured spare parts enables the workshops to service vehicles at a reasonable price

...and for producers?

Automotive Remanufacturing market size Europe (EU28)	
Turnover	7,4 bn EUR
Firms	2.363
Employment	43.000
Cores	27.286.000

Source: European Remanufacturing Network: Remanufacturing Market Study, 2015

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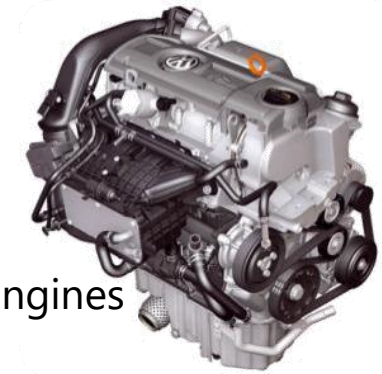
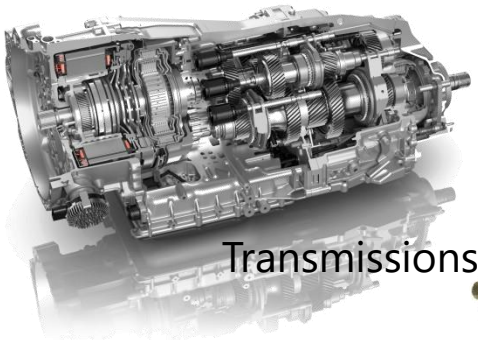
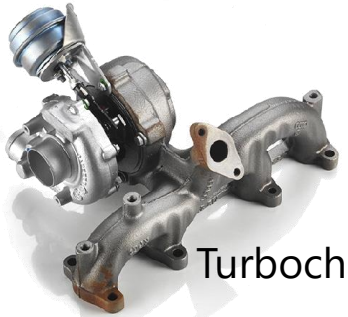
PRODUCT RANGE REMANUFACTURING



Engines



Transmissions



Turbochargers

Diesel pumps

Drive shafts

Steering racks, pumps, columns

Air condition compressors

Starters

Alternators

EGR valves

Injectors

Brake calipers

Common rail pumps

Suspensions

Source: Gobbi Spare Parts, ZF (Transmission)

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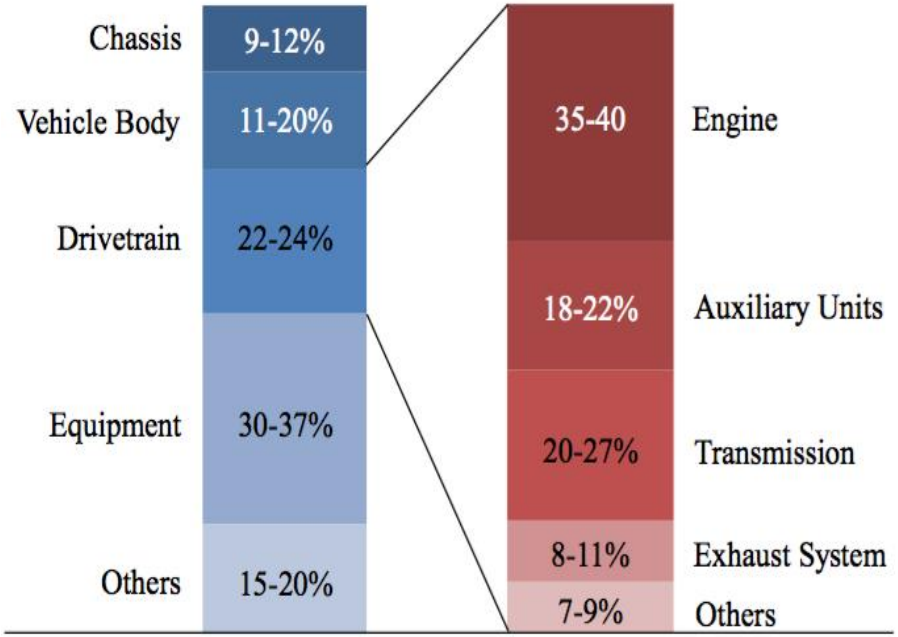
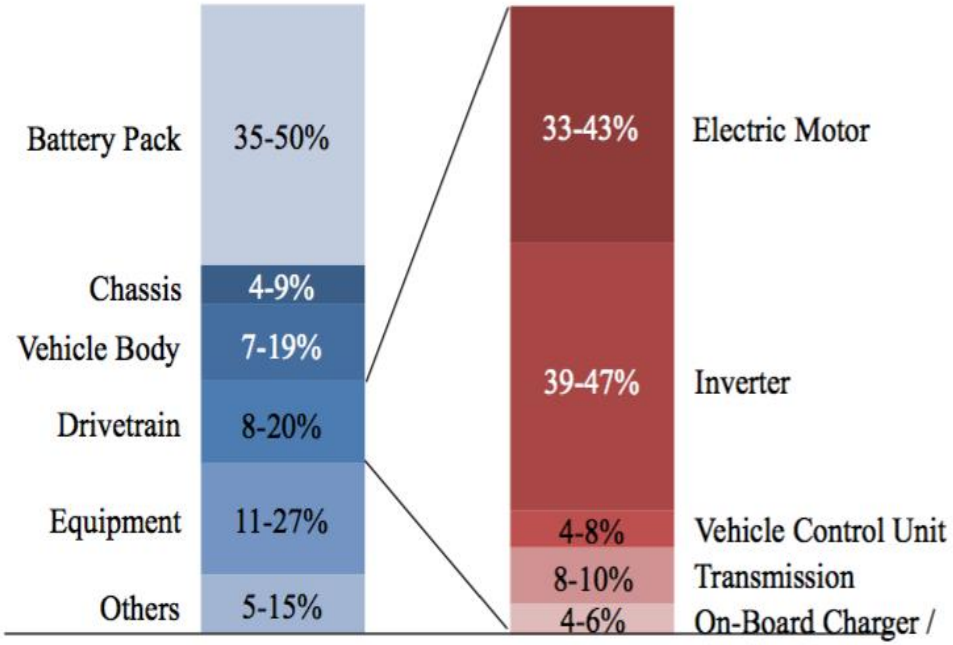
COST STRUCTURE CONVENTIONAL VS ELECTRIC



Cost structure of a conventional vehicle



Cost structure of a battery electric vehicle

Source: Colledani

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REMANUFACTURING – CHALLENGES

- Who is the owner of ECU data?
- How to deal with software IP?
- How to test electronics when full CAN-bus simulation necessary?
- How to dis-/assemble properly adhesive and clamping connections?
- How to acquire knowledge of components for latest (e-) mobility solutions?

- System complexity
- Parts proliferation
- Product know-how

APRA supports remanufacturers dealing with such challenges

Images: Bosch, Honda, Gobbi, Continental

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STAY UP-TO-DATE AND BE IN TOUCH

www.apra.org/europe

europe@apra.org

+49 160 4013803

APRA Europe AISBL
Tervurenlaan 34
1040 Brussels
Belgium

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