

International Automotive Recycling Congress IARC2026 24. - 27.3.2026 Hampuri

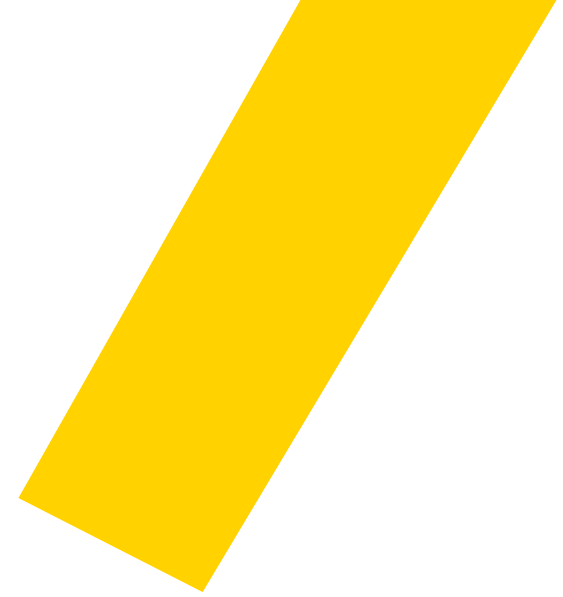
**Matkakertomus
Nani Pajunen ja Vesa Törmäkangas**

IARC2026

IARC2026 is the international platform for discussing the latest developments and challenges in circular economy and automotive recycling. In the congress there were around 300 decision-makers and experts from the automotive and recycling sector, especially car manufacturers, metal suppliers, plastic scrap traders, recyclers, shredder operators, policy-makers and research field.

iarc 2026 | Mar 25 – 27
Hamburg, Germany
International **Automotive** Recycling Congress





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Vehicle Dismantling Process – Actions Towards Circular Economy

International Automotive Recycling Congress IARC2026
March 25 – 27, 2026, Hamburg

Leading Specialist, D.Sc. (Tech.) Nani Pajunen
Turku University of Applied Sciences, Finland

R&D work during the years 2024-2026

Profitability at all stages
of demolition work

Reuse of recycled
materials in new
products

The recyclability of
the new products

Logistics

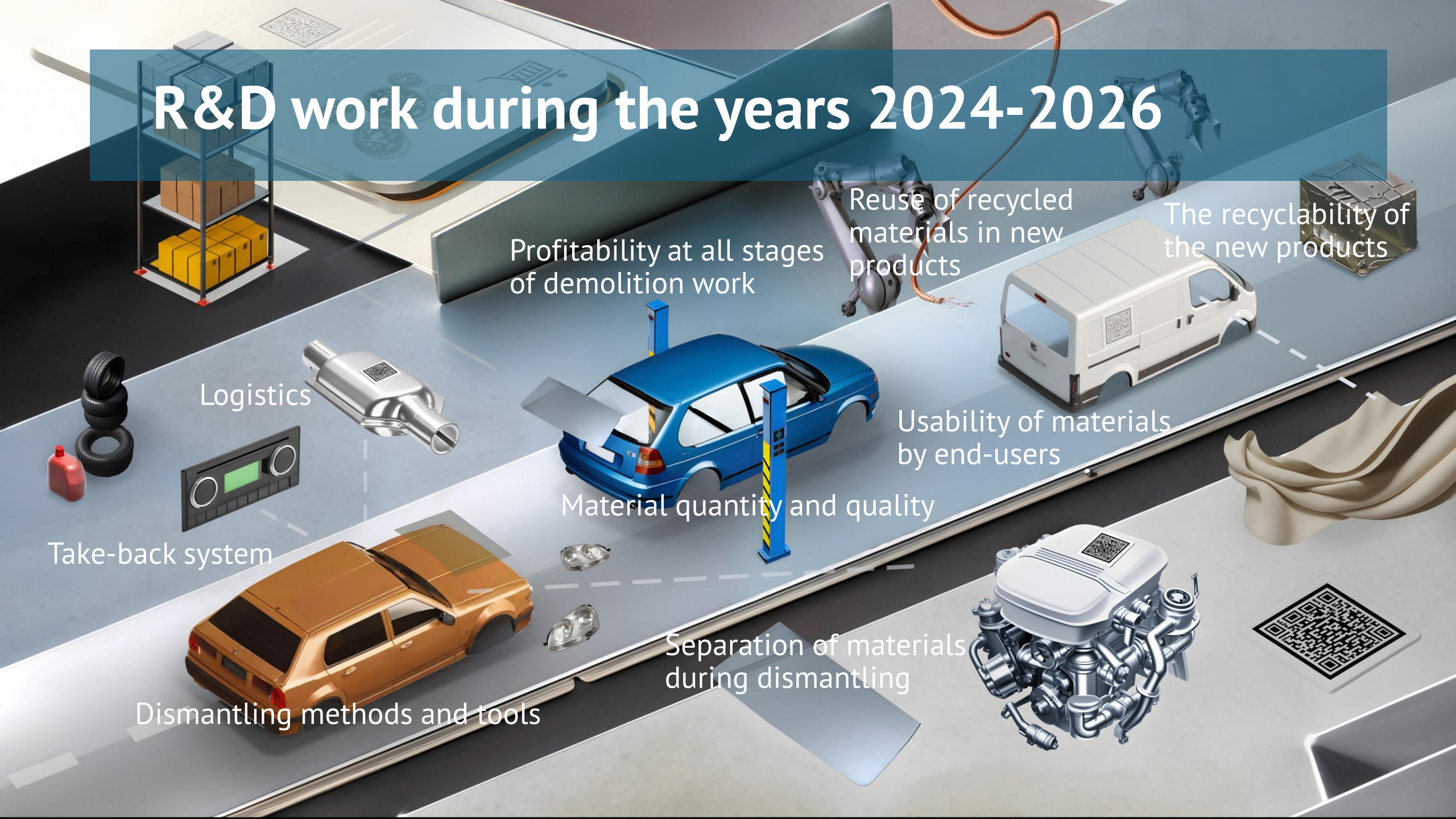
Usability of materials
by end-users

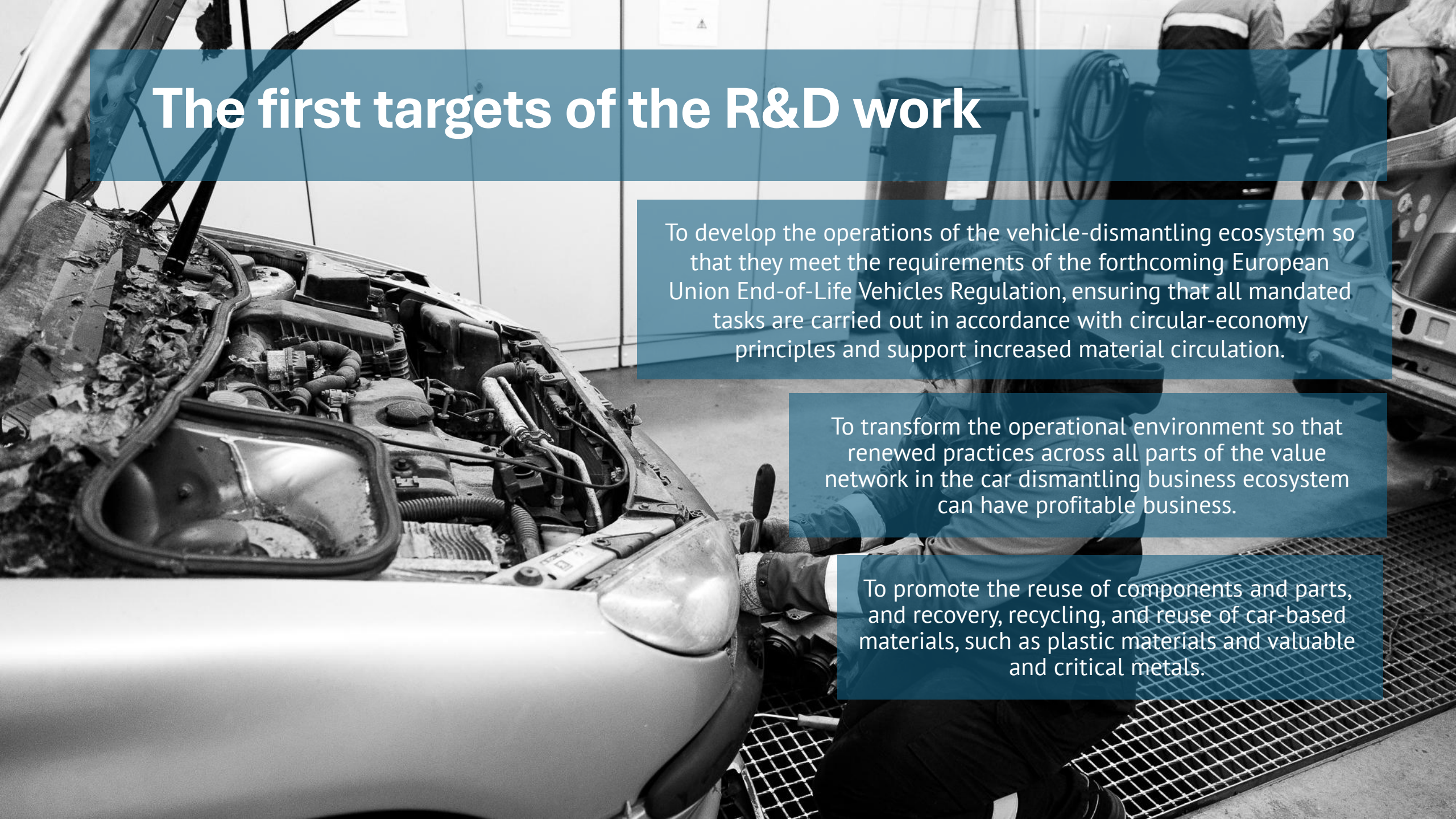
Material quantity and quality

Take-back system

Separation of materials
during dismantling

Dismantling methods and tools





The first targets of the R&D work

To develop the operations of the vehicle-dismantling ecosystem so that they meet the requirements of the forthcoming European Union End-of-Life Vehicles Regulation, ensuring that all mandated tasks are carried out in accordance with circular-economy principles and support increased material circulation.

To transform the operational environment so that renewed practices across all parts of the value network in the car dismantling business ecosystem can have profitable business.

To promote the reuse of components and parts, and recovery, recycling, and reuse of car-based materials, such as plastic materials and valuable and critical metals.

Implementation of R&D work

The R&D work is done with close collaboration with the producer responsibility organization the Finnish Car Recycling Ltd, DELV, The producer responsibility authority and the national association of automotive recyclers.

Expert interviews and excursions

Dismantling line

- Pilots and demos
- Learning environment

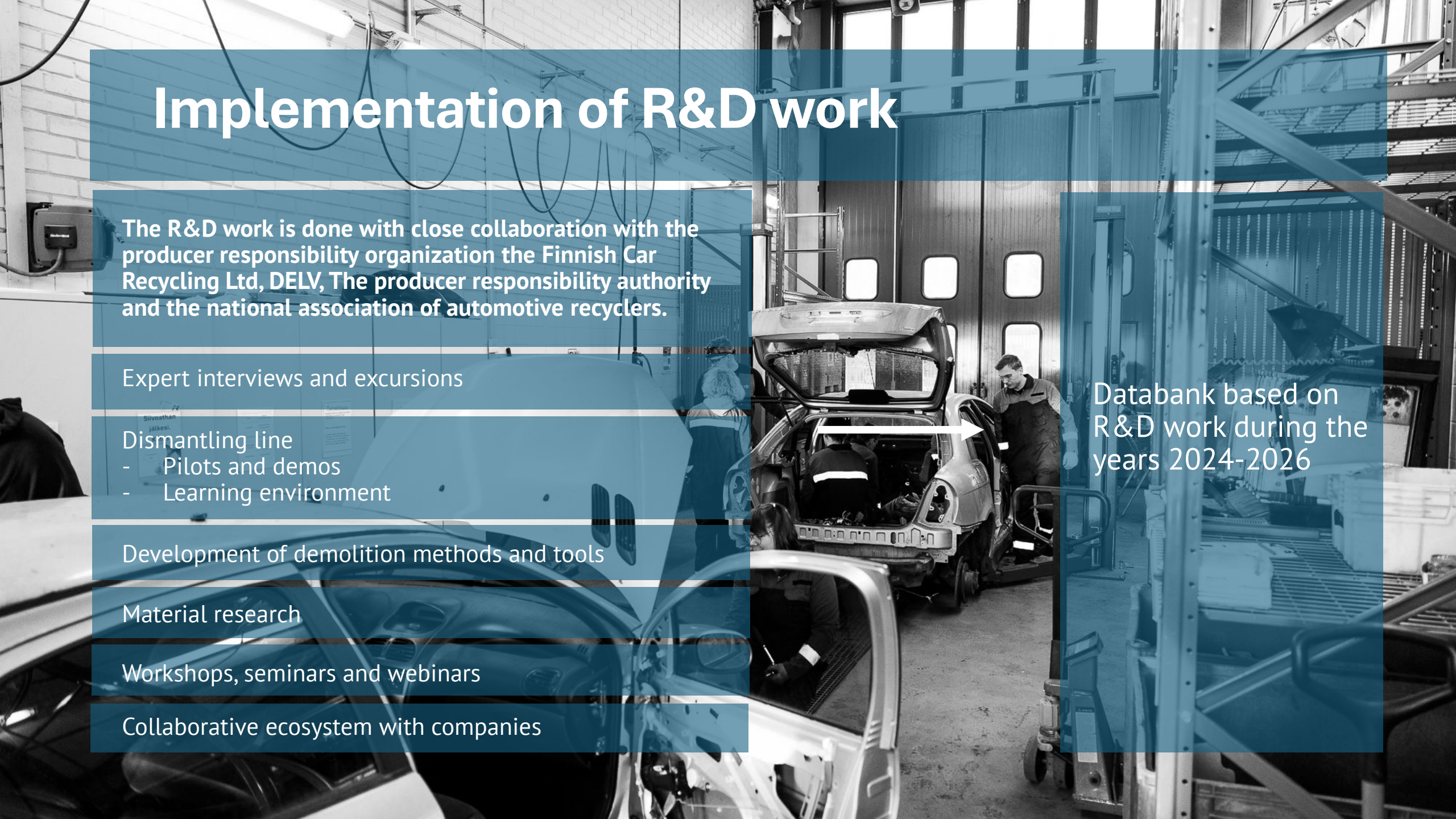
Development of demolition methods and tools

Material research

Workshops, seminars and webinars

Collaborative ecosystem with companies

Databank based on
R&D work during the
years 2024-2026

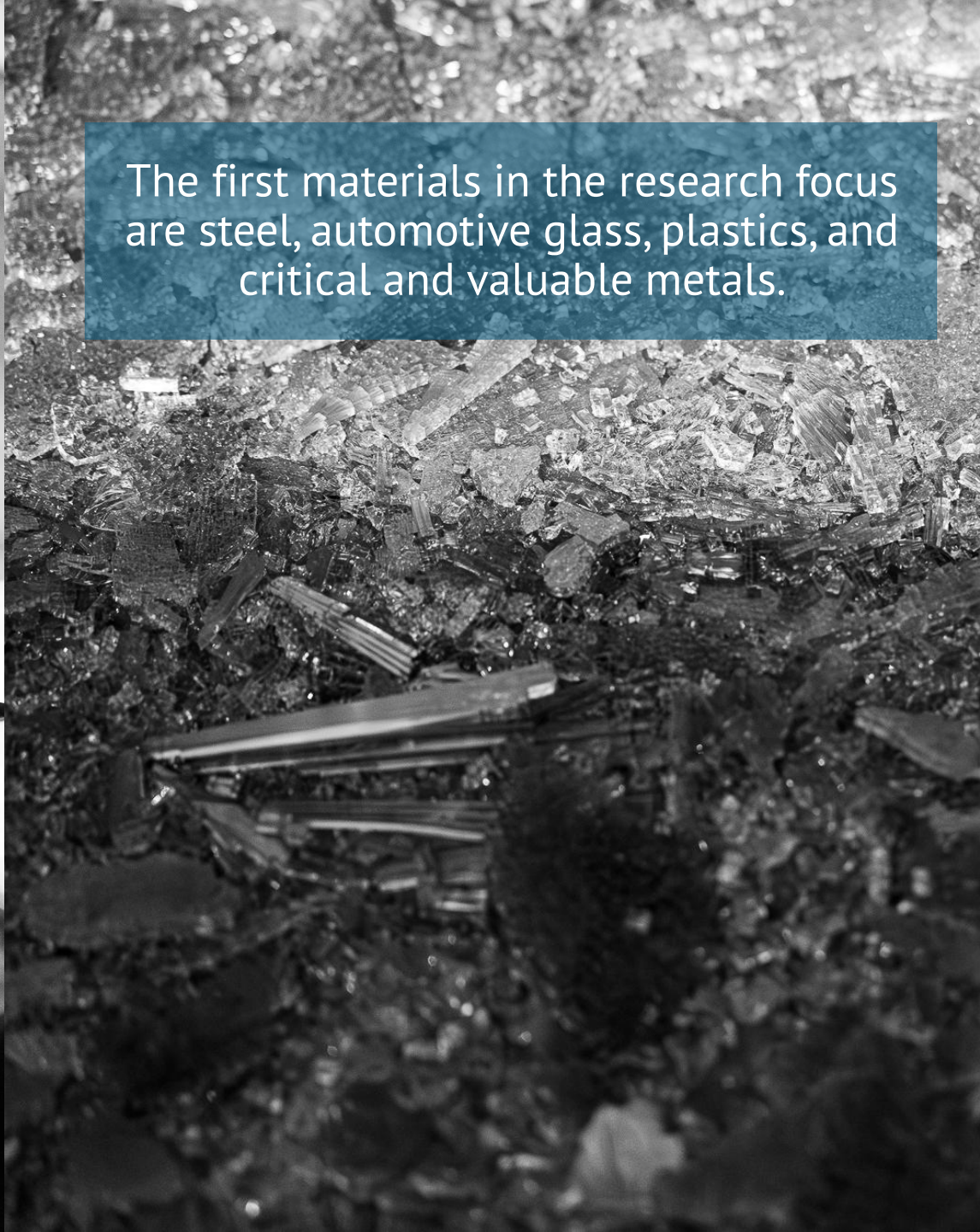
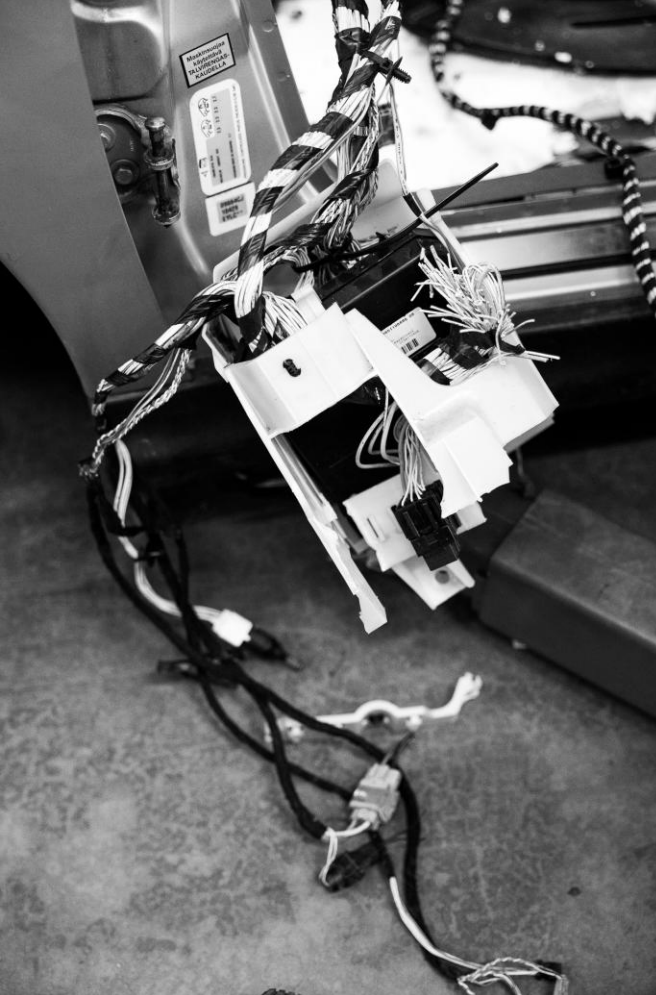


Vehicles dismantling line

- Turku University of Applied Sciences, in collaboration with the Turku Vocational Institute, launched the *Vehicles Dismantling Line* to examine the current state of vehicle dismantling and material recycling.
- The aim was to identify existing challenges and to develop new practices and solutions in response to the European Union's new ELV regulation.
- Various dismantling methods and tools have been tested and piloted on the dismantling line. The time required for different dismantling phases has been measured, and material separation and identification have been improved.
- The goal is to dismantle 100 vehicles; so far, 80 have been completely dismantled.







The first materials in the research focus are steel, automotive glass, plastics, and critical and valuable metals.

The next phase of R&D work

Databank based on
R&D work during the
years 2024-2026

Expert interviews and excursions

Dismantling line 2.0

- Pilots and demos
- Learning environment

Scenario work

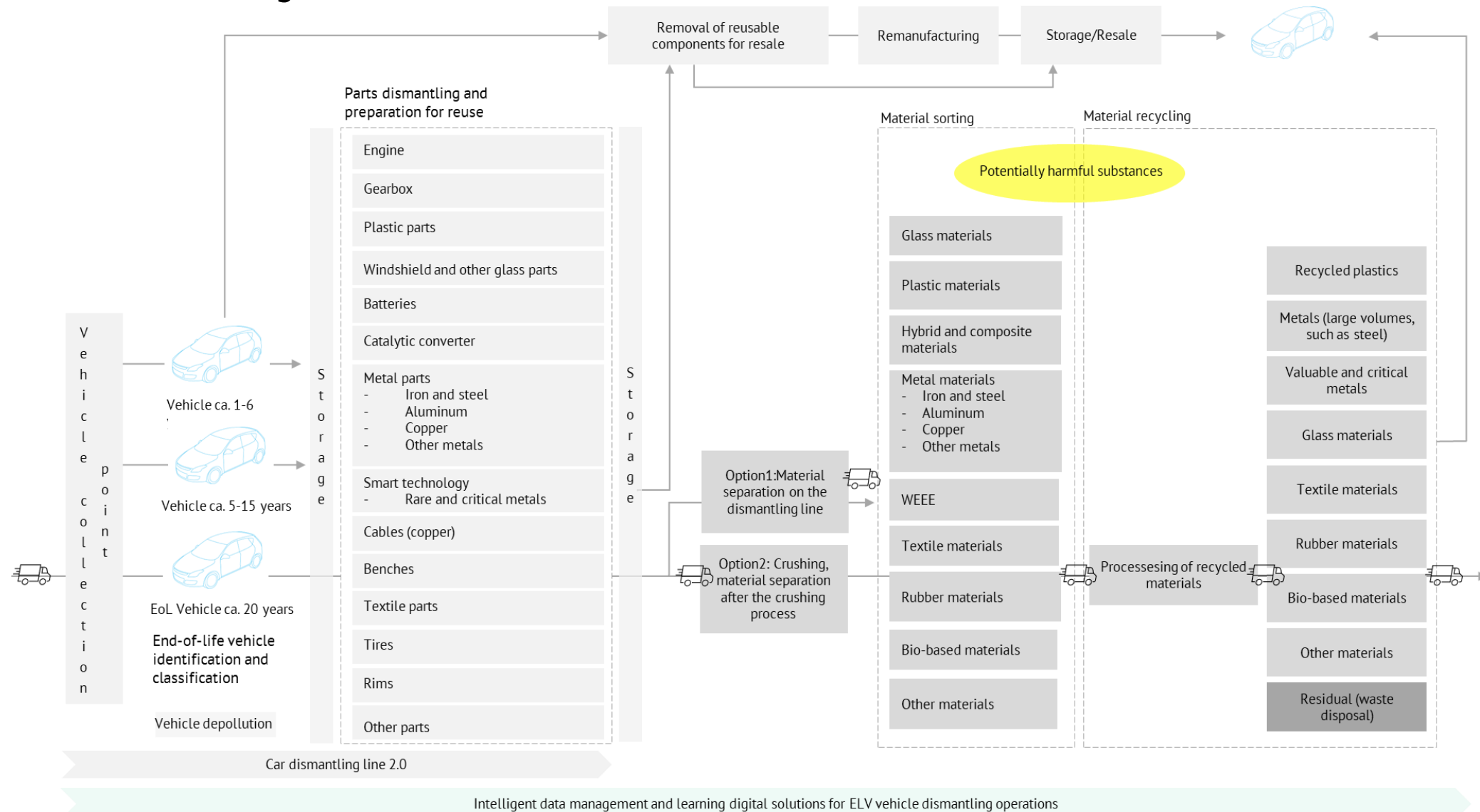
Development of demolition methods and tools

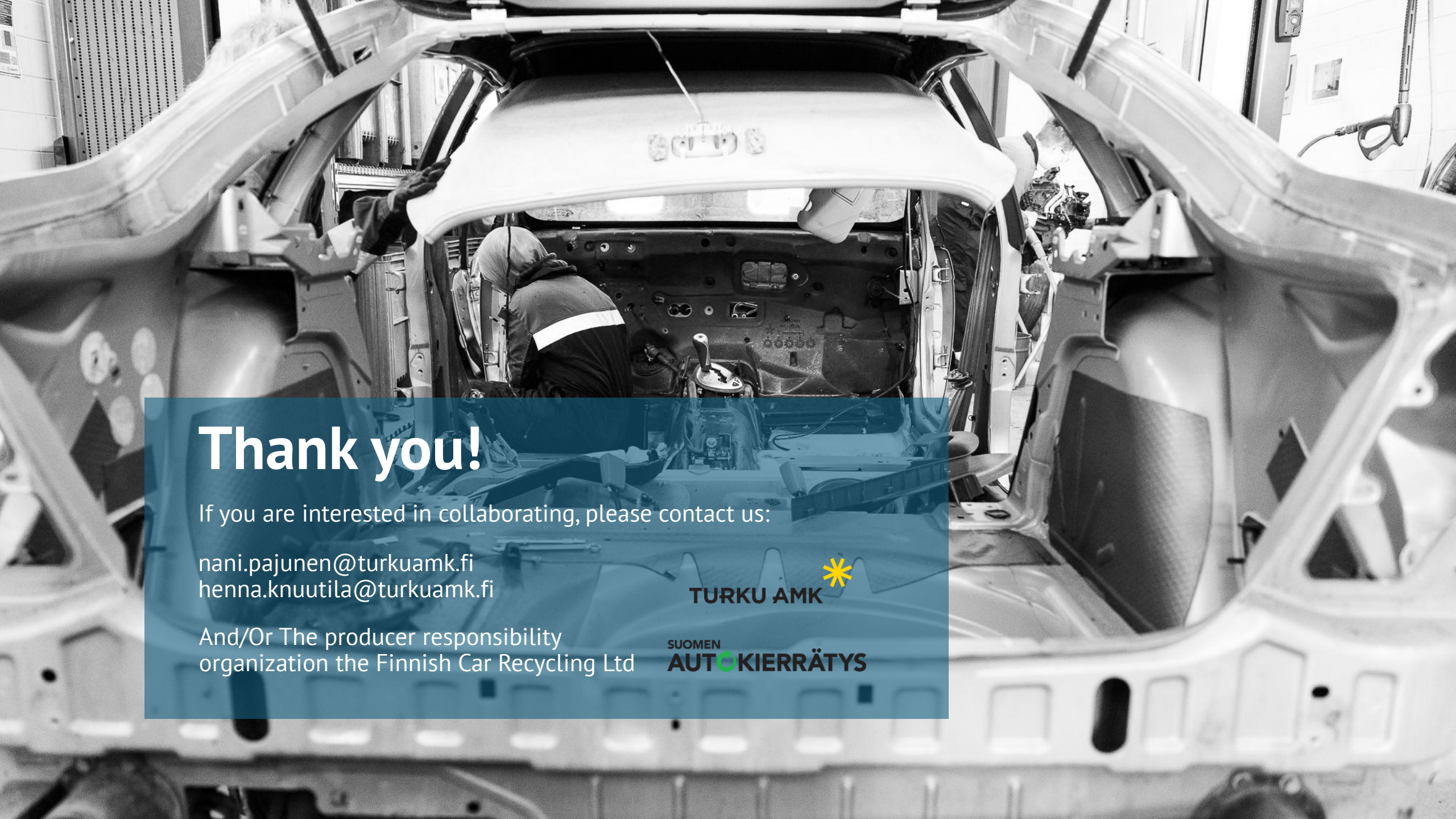
Material research, focusing on plastic
materials and critical and valuable metals

Workshops, seminars and webinars

Collaborative ecosystem with companies

The ecosystem of ELV-cars





Thank you!

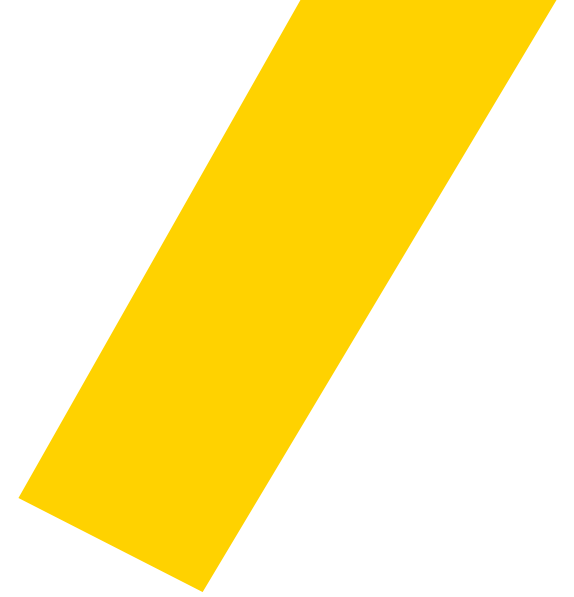
If you are interested in collaborating, please contact us:

nani.pajunen@turkuamk.fi
henna.knuutila@turkuamk.fi

TURKU AMK 

And/Or The producer responsibility
organization the Finnish Car Recycling Ltd

**SUOMEN
AUTOKIERRÄTYS**



Vierailu 27.3. perjantaina KIESOW Autorecycling

TURKU AMK 

KIESOW Autorecycling

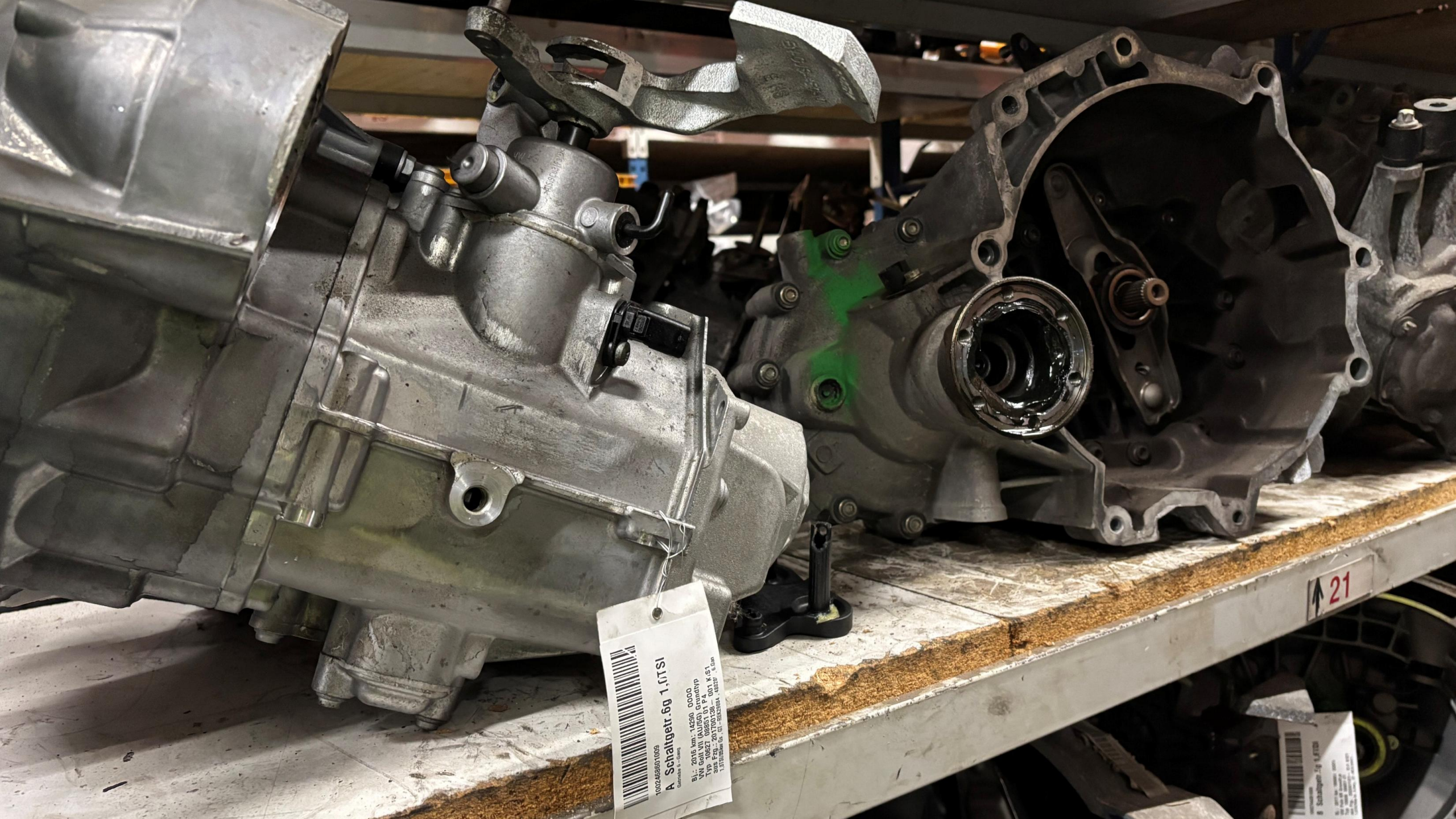
KIESOW Autorecycling on perheyhtiö, joka sijaitsee Hampurin läheisyydessä. Heillä on käytössä yli 60 000 neliömetrin alue, jolla varastoidaan noin 3500 ajoneuvoa.



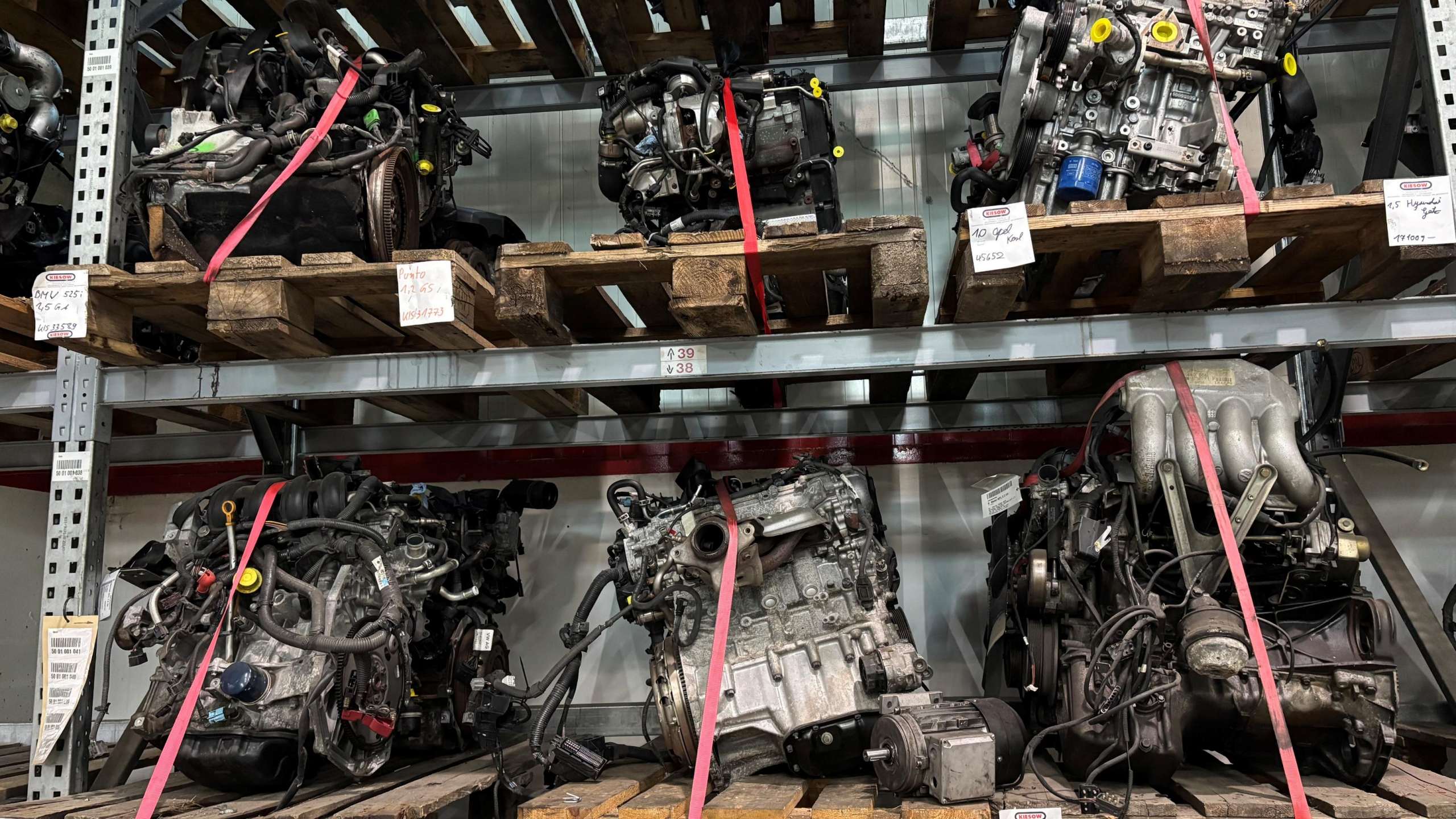
KIESOW Autorecycling - palvelut

- Käytettyjen autojen kauppa
- Itsepalvelu –käy etsimässä ja purkamassa tarvitsemasi varaosa
- Varaosakauppa
- Materiaalikierrätys









KIESOW
BMW 525i
2.5 Gd
WIS 33589

Punto
1.2 G5
WIS 34773

KIESOW
10 Opel
Karl
45652

KIESOW
1.5 Hyundai
Gate
171007

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KIESOW







Lisätietoja

nani.pajunen@turkuamk.fi
vesa.tormakangas1@turkuamk.fi

