

# Sustainable Products

Proactive Sustainability





# By conviction

## We assume responsibility

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At DRÄXLMAIER, we have always set standards – not only in terms of our products, but also in regard to their sustainability. Long-term responsible thinking forms the basis of economic success in our family-run company.

Thinking globally, acting locally – our strong Lower Bavarian roots and the international character of our organization enable us to take a holistic approach to sustainability. We take responsibility, stand up for each other and thus create the basis for further success.

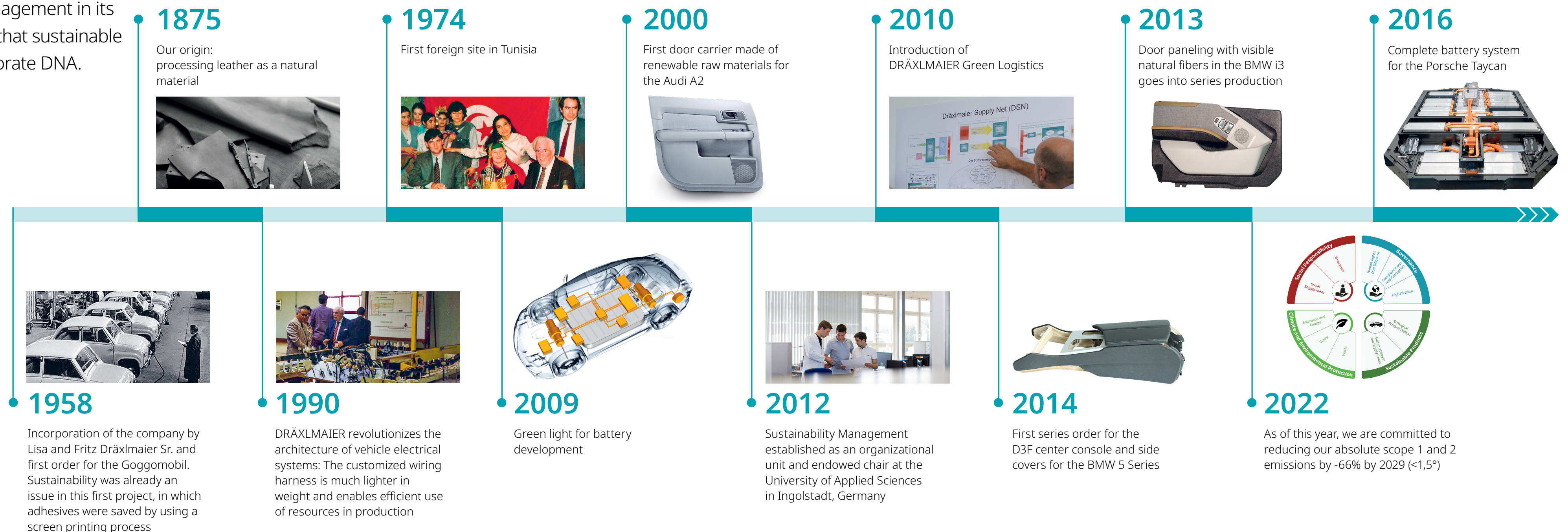
Individual mobility is one of the greatest challenges of our time. DRÄXLMAIER thus focuses its innovative power on finding sustainable ways into the automobile future. A core element of our strategy is therefore to make our business and production processes and our products more sustainable and, in that way, to ensure the long-term competitiveness of our company.



# There is no future without a past

## Sustainable throughout generations

The DRÄXLMAIER family has been placing innovations and products on the market with a long-term focus for more than 140 years. DRÄXLMAIER was quick to establish sustainability management in its organization, which shows that sustainable thinking is part of our corporate DNA.



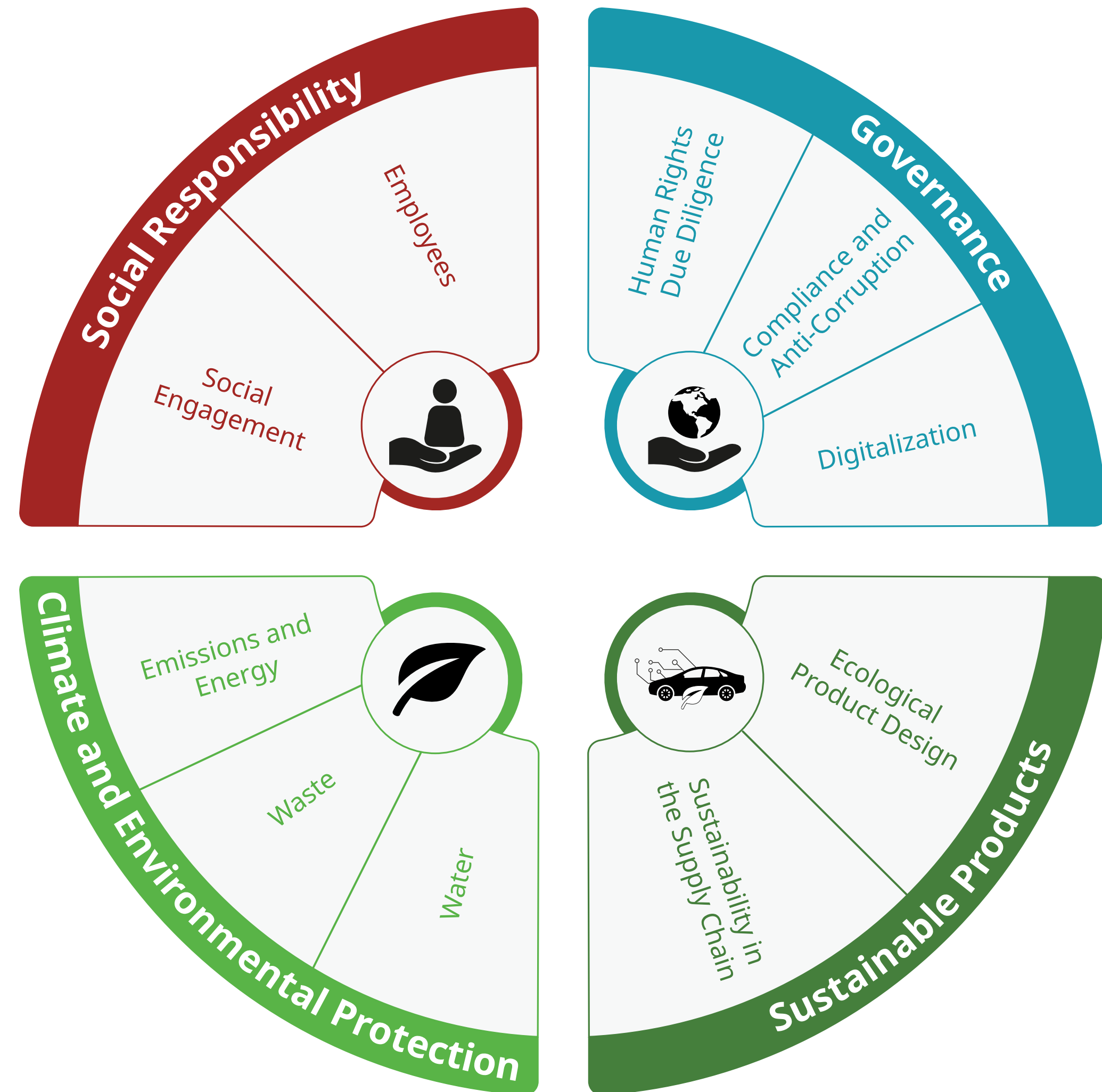
# Our global mindset

Thinking globally, acting locally

The automotive industry, like the rest of the world, is becoming increasingly sustainable. This is not a new topic for us.

As a family-run company, we don't think in quarters, but in generations. For us, sustainability means future viability.

We will only be able to secure our future, if we align our corporate success with our four fields of action in the sustainability strategy.



# DRÄXLMAIER Group ecosolutions

Firmly embedded in added value

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In order to consider the way our products are created as comprehensively as possible and thus be able to implement our ambitious sustainability goals, we have launched the DRÄXLMAIER ecosolutions corporate program.

DRÄXLMAIER ecosolutions incorporates all the process steps along our value chain – from the initial product idea through design, planning and realization to the supply of spare parts, the concept of sustainability guides our actions.

We see these processes as the greatest levers for more sustainability, especially for protecting the environment and climate. This enables us to offer our customers increasingly ecological solutions in the long term - and at the same time make an important contribution to the sustainable development of the automotive industry.

To obtain an accurate picture of sustainability along the entire value chain, we evaluate all our process steps in a holistic emissions approach and also integrate the ecological performance of our plants into our CO<sub>2</sub>e footprint via the so-called plant emission factor - if required, also down to the product level.



# Responsible supplier network

Purchasing as a multiplier for more sustainability

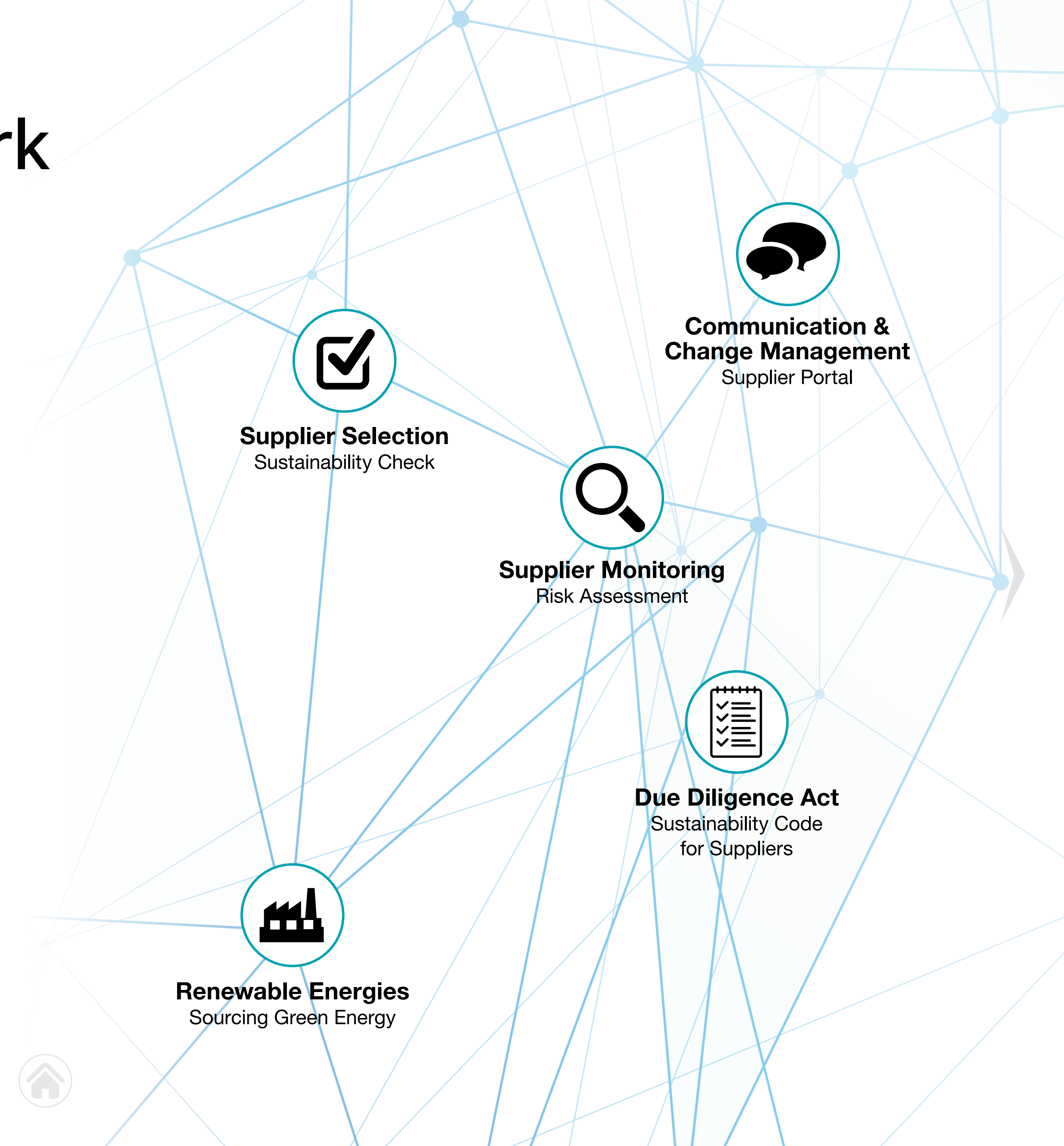
Developing more sustainable products also means measuring the purchased components and services against the same standards of sustainability that we set ourselves.

For this reason, one of the core tasks of our strategy is to further develop a responsible and steadily more sustainable supplier network. Through this development of a sustainable supplier portfolio, purchasing also influences the product level.

Purchasing at DRÄXLMAIER operates at various levels. In the area of supply chain governance, standardized measures ensure that more sustainable services, materials and processes are purchased step by step. The system comprises rules, structures and institutions and controls supply chains through guidelines and regulations.

As a Tier1 supplier, purchasing has a central position for the success of DRÄXLMAIER's sustainability strategy.

By purchasing energy from renewable sources and complying with legal requirements, DRÄXLMAIER also supports its customers in meeting their sustainability goals.



# Ecological product design

From design to circular economy

DRÄXLMAIER ecosolutions includes the consideration of all steps in the value creation process, therefore the consideration of sustainable aspects in the design phase is essential. This also includes ecological process planning.

An ecological product design includes, among other things, the careful use of natural resources, the use of natural fiber materials and bio/recycled polymers, but also the recyclability and dismantlability of the products.

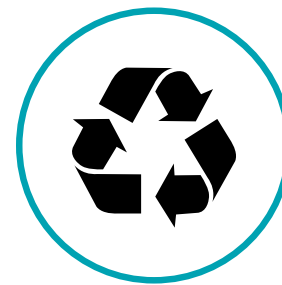
Another cornerstone for more sustainable products is the substitution of standard materials with ecologically more sensible alternatives in line with the circular economy.



**Design/  
Construction**

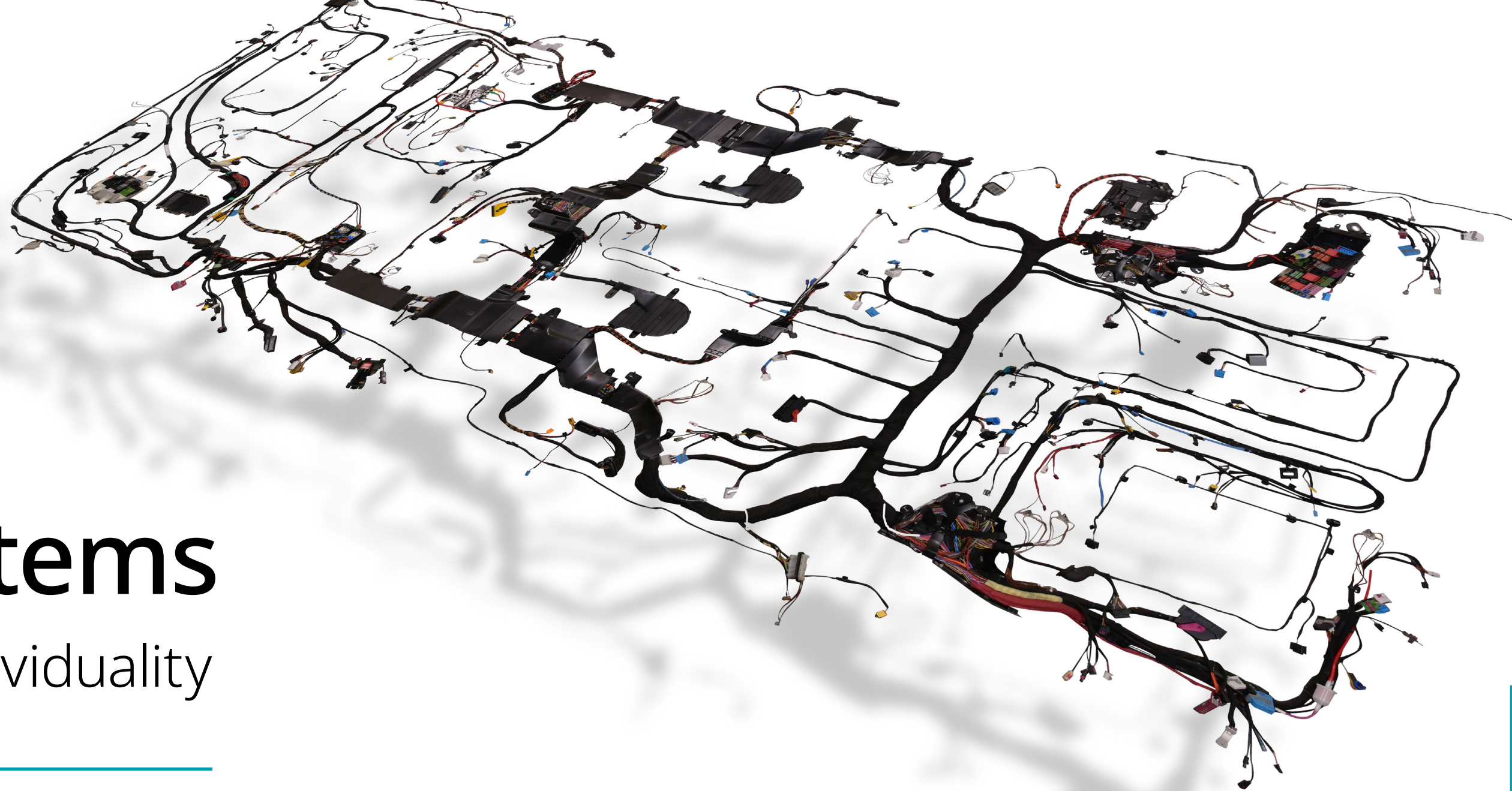


**Renewable  
raw materials**



**Recyclable  
materials**





# Electrical Systems

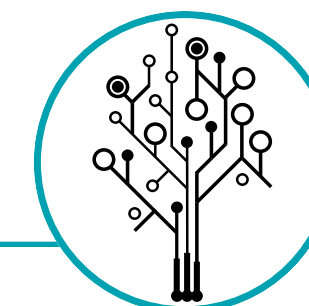
Sustainable through individuality

Our competence in electric and electronic systems has been the hallmark of the architecture of vehicle electrical systems in the automotive segment for 60 years. Tomorrow's vehicle electrical systems have to meet high demands – even in regard to their sustainability.

Our overall expertise enables us to optimally design vehicle electrical systems. We consistently pursue this all-embracing approach with the electric contacts and components we make for wiring harnesses.

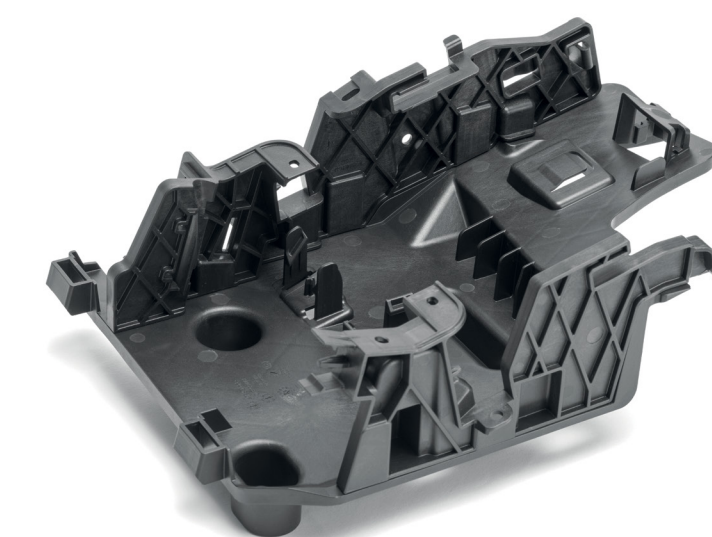
The development towards a zonal wiring system architecture allows cable harnesses to be fundamentally optimized in terms of their topology and architecture. The number of cables, cable lengths and cross-sections are reduced, thus optimizing the overall weight of the product.

These efforts are supported by suitable, innovative production procedures and processes. This is how we manage to consistently implement the concept of sustainability and to design the central nervous system of the car in an environmentally efficient way.



## Use of thermoplastic resin in the bracket for the vehicle power distributor

Improvements to small components play a major role in the carbon footprint of the vehicle. The use of polypropylene instead of polyamide in the bracket of the power distributor in the vehicle allows about 85% of CO<sub>2</sub>e to be saved by reducing material and weight.





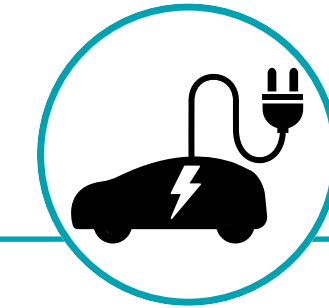
# E-Mobility Systems

Increased performance with minimum of mounting space

Since 2009, we have been operating in the segment of electromobility, which makes us one of the pioneers and first movers in the market. We offer our customers a complete package that prevents the loss of performance in the system and contributes to perfect overall performance.

In addition to power and safety, we place special importance on saving weight and installation space to put a sustainable mobile future on the roads.

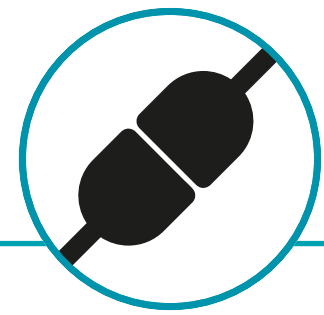
Mastering the 800 volt technology in particular makes us an enabler for e-mobility: Contrary to the conventional 400 volt technology, this method achieves almost twice the road performance with hardly any changes in the installation space of the batteries and control boxes.



## **Saving material by measuring the battery cell module**

A small but significant process improvement can save material in the manufacture of battery cell modules: The cell module is measured, thus enabling the material to be injected precisely, so that 33% of CO<sup>2</sup>e can be saved compared with the previous method, which was applied without measuring the cell module.





### **dHPT - DRÄXLMAIER High Performance Terminal**

Our dHPT delivers up to 12% more performance with the same installation space and thus has very high current and voltage capability. This improved performance with the same weight can achieve a CO<sup>2</sup>e saving of 10%.



# Component Systems

Sustainable through perfect performance

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Even minor elements account for a large proportion of the overall system and therefore contribute to sustainable mobility: Our contact and connector systems for high-voltage and lowvoltage applications are perfectly designed and optimally dimensioned for the required loads.

They particularly help us align all aspects of e-mobility and electrical systems as safely and efficiently as possible, saving weight and resources.

Here, too, we create synergies across system boundaries, thus ensuring perfect interaction between all components.



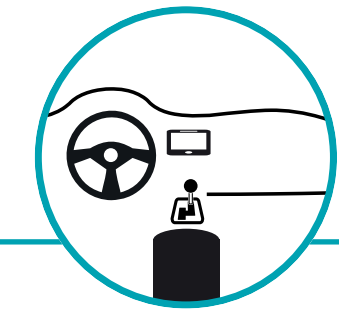
# Interior Systems

Light and natural – with innovative processes

Our mobility is changing, and so are vehicle interiors. DRÄXLMAIER places considerable emphasis on combining high-performance, fascinating technology with elegant, and above all, sustainable design.

Innovative, resource-efficient processes and the use of sustainable materials enable us to more than satisfy the demands of our customers and to act with a responsible attitude.

This includes, for example, the use of visible natural fibers as premium surfaces in the vehicle or processing recycled plastics. In combination with resource-efficient processes, such as position joining or our patented D3F method (DRÄXLMAIER Fast Fiber Forming), material can be saved, thus allowing substantial weight reduction. That way, we make a considerable contribution to sustainable vehicle interiors of the future and help our customers achieve their sustainability goals.



## Replacing magnesium with plastic in the display composite substrate on the instrument panel

The material of a display composite substrate, which is usually made of magnesium die-casting, was replaced by long glass fiber-reinforced plastic (ABS LGF). By processing the new raw materials and reducing the weight of the part as compared to using magnesium die-casting, a reduction of about 90% of CO<sup>2</sup>e can be achieved.



# Outstanding Solutions through Synergy

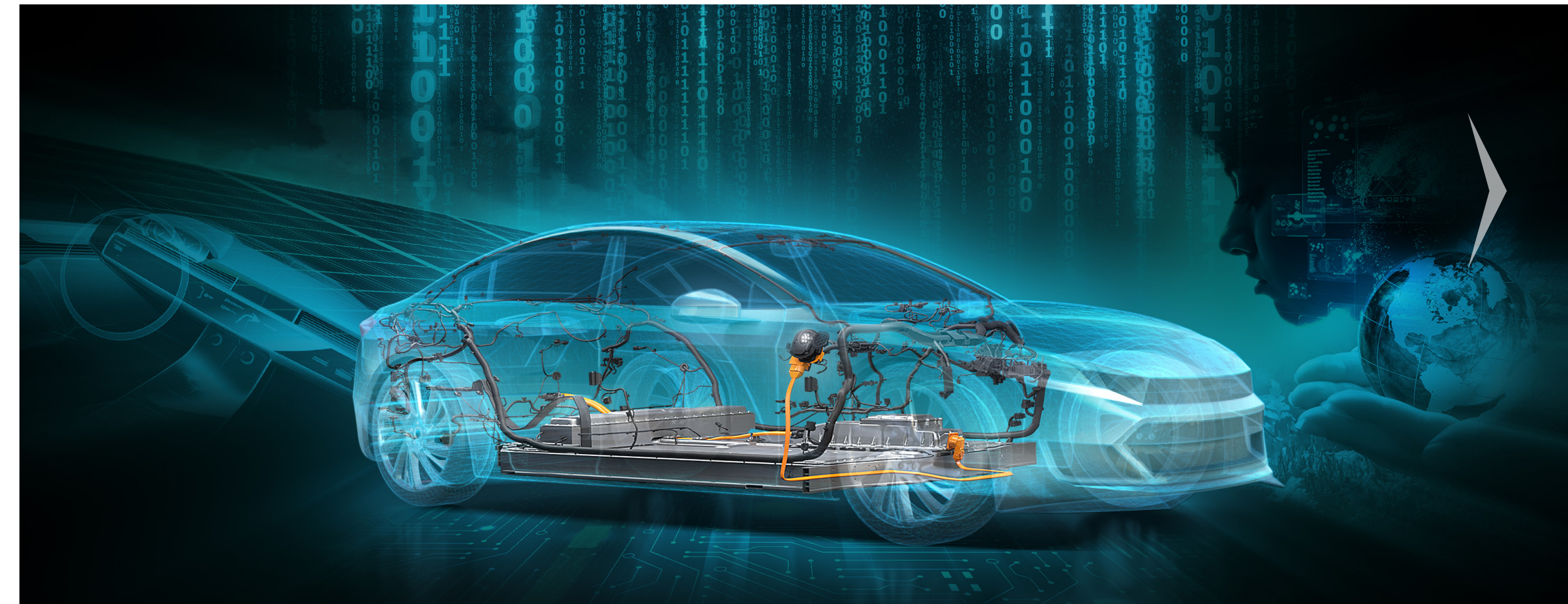
Sustainable through perfect interaction

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Making our customers' vehicles better from one generation to the next and carrying them into the future is our passion. Lending your vehicles aesthetic and technological character that ensures your competitive edge in the market is our driving force.

At DRÄXLMAIER, we think and work in terms of systems. We believe in the principle of combining what is good with the best: combining products with systems – beyond product limits and product lines. We combine interior, electrical and electronic systems, components and battery systems to set new standards.

We join forces to create solutions for the future of new vehicle generations and to shape tomorrow's mobility. In the process, the system concept connects people, your specialists and ours, to move ahead with ideas. These ideas create a future that your customers will experience emotionally in their vehicles. This achievement creates fascination and generates a feeling of well-being and comfort.



Sustainable Products

Proactive Sustainability

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