

# Circular Spares & Repairs

Customer Presentation



# Crucial for you to shift from a linear towards a circular economy

## Operative challenges

- **Tightening environmental regulations** and fast approaching of upcoming milestones (e.g., end of combustion engines in the EU)
- **Ensure availability** of machines – cost-effectively and safely
- **Fast response time** / repair / replacement in the event of a fault
- **Predictable costs** over the life cycle

It is crucial for you to shift from a linear towards a circular economy.

## Required solution/ Possible consequences



Optimize resources and enhance resource efficiency

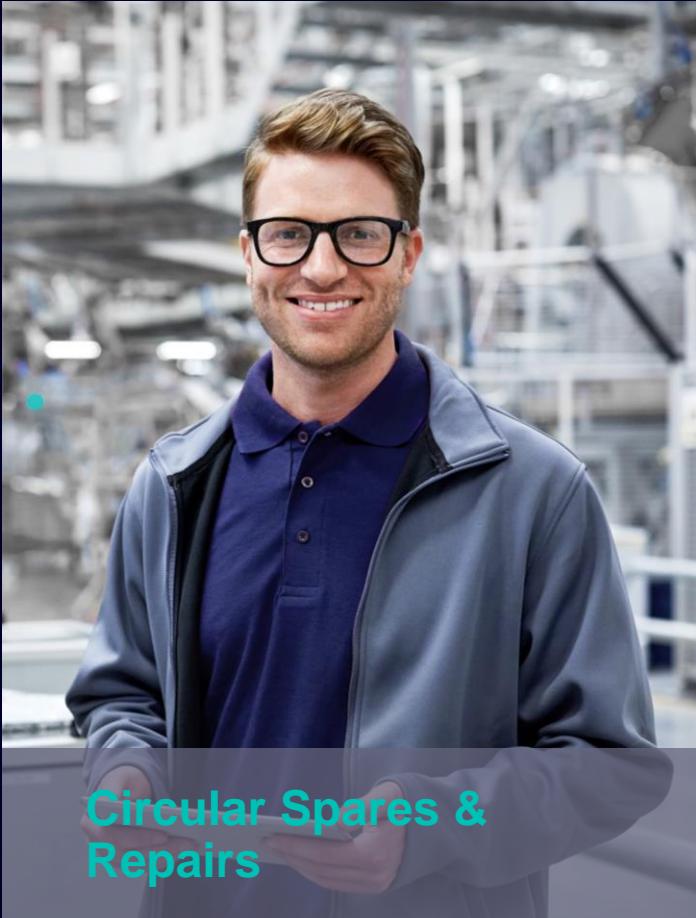


Enjoy fast spare parts availability



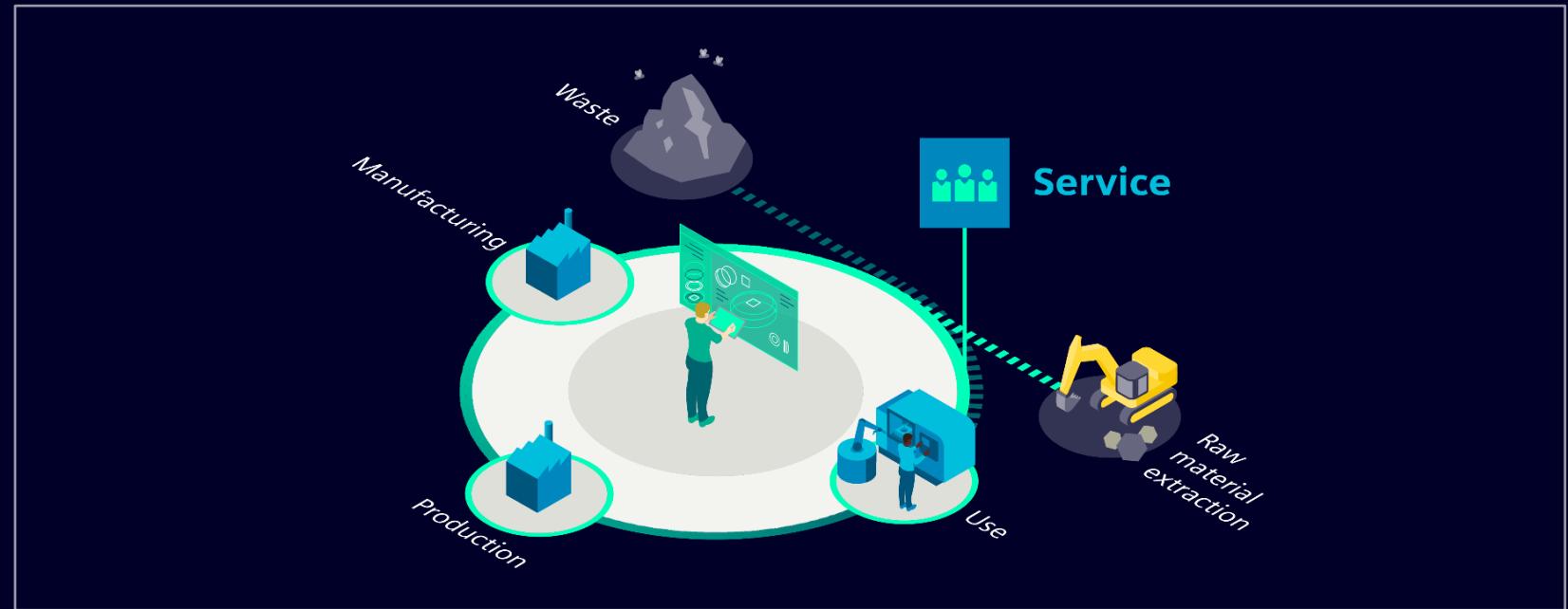
Contribute to a more sustainable future

# Drive circularity by refurbishing and remanufacturing



## Solution

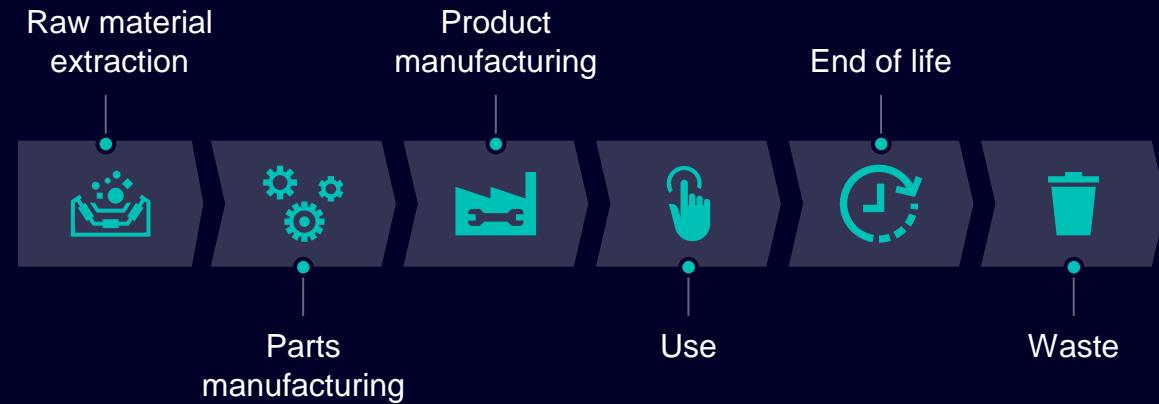
Circularity is the green choice that saves valuable resources, reduces costs and increases plant availability with our Circular Spare Parts and Repair Services. This involves optimizing product design, and extending product lifecycles through repair, refurbishment, and remanufacturing.



# The sustainable product lifecycle

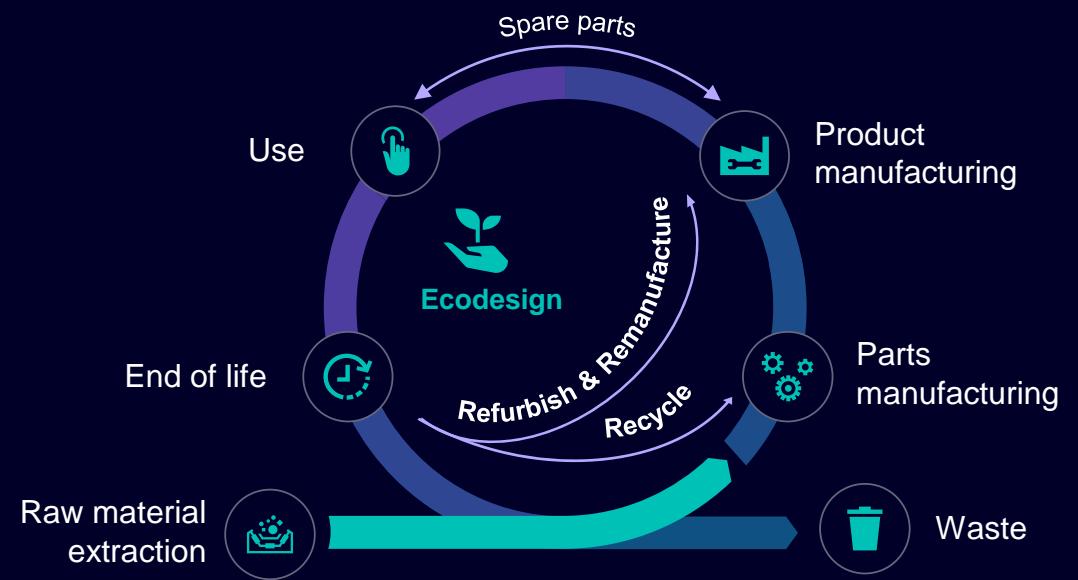
## From a **linear economy** ...

Extraction to disposal



## ... to a **circular economy**

- Multiple lives of machines
- Product lifetime extension



# Service contribution to circularity starts with serviceability



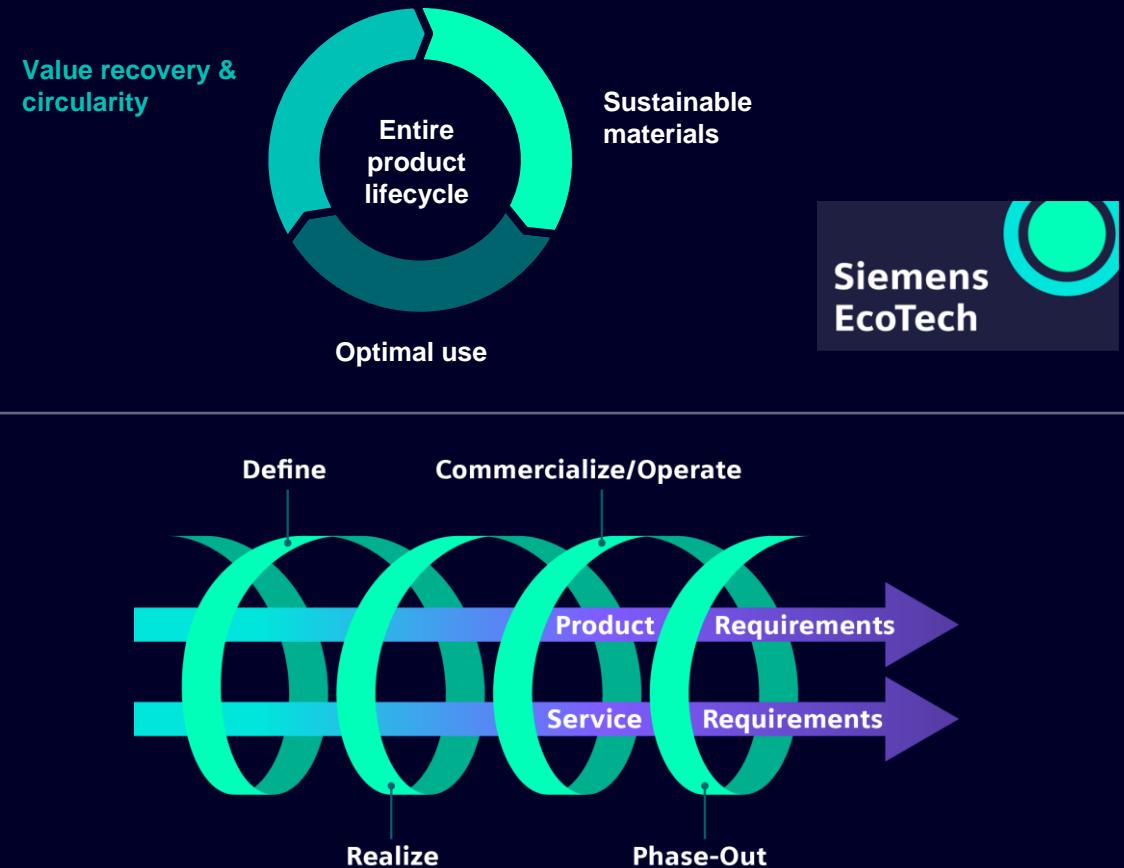
Our service experts are already part of the design phase within product development to make sure products are designed for circularity.



Lifetime extension by easy replacement of defective or worn-out parts.

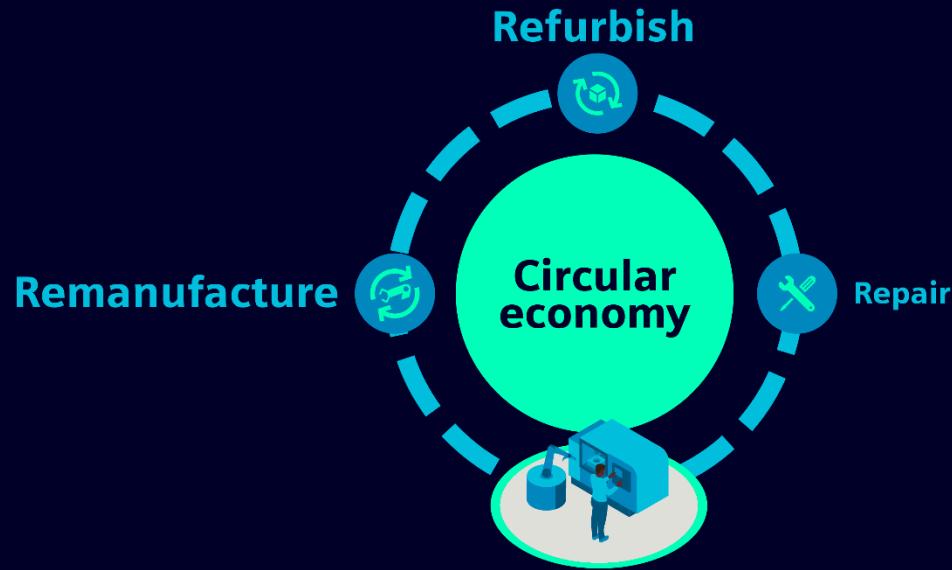
**~80%**

Approximately 80% of our products of Digital Industry are ready for circularity.



# The new era of repair

Remanufacturing for products as good as new



**Repairing** restores the functionality of your product without any further preventive measures.

**Refurbishing** recovers the previous functionality of your product and implements additional preventive measures to improve their condition.

**Remanufacturing** helps you get the most out of your product. It includes disassembling your used product, restoring and testing its components, as well as reassembling them into a product that is as new. This way, remanufacturing prolongs the product lifetime and reduces downtimes of your machines, all while contributing to a sustainable future.

# The 3Rs of circularity

## Repair

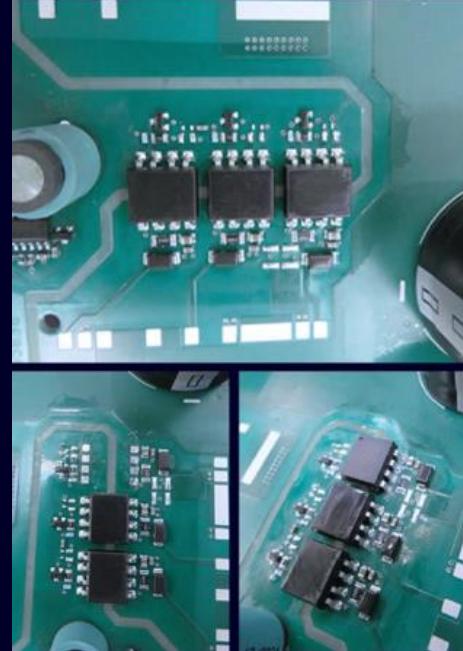
### Definition

Restoring the functionality of your product without any further preventive measures.



### Process

Only non-functioning parts are replaced



### Outcome

Minimal and resource-saving effort leads to risk of a shortened product lifetime

# The 3Rs of circularity

## Refurbish

### Definition

Recovering the previous functionality of your product and additional preventive measures to improve its condition.



### Process

Non-functioning parts are replaced, impurities are removed



### Outcome

High quality repair to secure better product condition, however still recognized as a used product

# The 3Rs of circularity

## Remanufacture

### Getting the most out of your products

Disassembling your product, restoring and testing its components, reassembling them into a product that is as new – in performance and appearance.



### Process

- Non-functioning or worn-out parts are repaired
- Impurities are removed
- Upgrade to the latest component version incl. critical paths
- Removal of all imperfections



### Benefits

- Highest quality repair to ensure the longest possible product lifetime
- Reduce the downtimes of your machines
- Contribute to a sustainable future

# Fast repairs throughout the entire lifecycle of your plant with Repair Services

## Repair Services

Even the best components eventually reach the end of their lifecycle. The result: Outages and reduced productivity. Our Siemens Repair Services with our lifecycle offerings on refurbishment and remanufacturing, comprise all service tasks over the entire product lifecycle, from the functional maintenance to the increase of performance. Thus, our service experts analyze, repair, maintain and optimize your components on Siemens manufacturer level.

## How does it work?

Functionality & lifetime

Low

### Repair

Restoring the functionality without any further preventive measures.

High

### Refurbish

Recovering the previous functionality and taking additional preventive measures to improve its condition.

### Remanufacture

**Get the most out of your products:** Disassembling your used product, restoring and testing its components, and reassembling them into a product that is **as new**.

## Main value drivers



Transparency over the services carried out, and the parts used through repair reports



Worldwide network of certified repair partner



Reduction of expensive subsequent and repetitive errors

# Extend the lifetime of your discontinued products with Long Life Repair

## Long Life Repair

Long Life Repair enables Repair Services in defined Repair Centers for selected discontinued Motion Control and Factory Automation products.

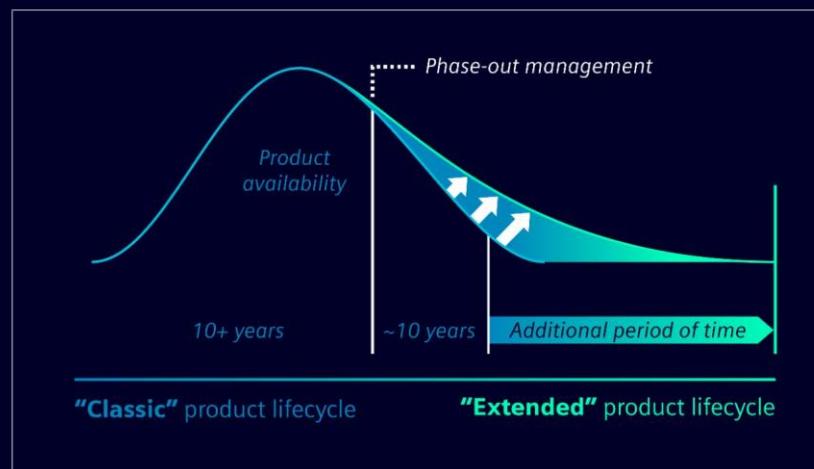
## How does it work?

With our Long Life Repair offering, Siemens provides you with an extended service package for plant components beyond the standard product lifetime.

It allows you to continue using proven machines with minimal downtime. This is an option to bridge the time until retrofitting or new procurement.

Long Life Repair is e.g., available for:

- SIMATIC IPCs and PGs
- SIMODRIVE
- MASTERDRIVE
- SINUMERIK Powerline
- SIMOTICS T torque motors
- SIMOTICS S servomotors
- SIMOTICS M main motors



## Main value drivers



Expanding the product lifetime



High qualified repairs provided on manufacturer level



Avoiding waste of resources

# Maximum plant availability worldwide

## with Spare Parts Services

### Spare Parts Services

Since even the best components will reach the end of their lifecycle sometime, our Spare Parts Services form the essential basis for smooth operation. Most original spare parts are deliverable based on your demands and the material availability. To reach maximum plant availability and even more security we offer service agreements.

### How does it work?



Fast spare parts availability through our huge spare parts warehouses.



Maximum availability 24/7 in case of an emergency ensuring highest quality at manufacturer level.



Optimize your spare parts costs and use buyback option: Price advantage when acquiring spare parts in return of old ones at the same time.

### Main value drivers



Increase availability of spares to extend lifetime of machines



Cut costs of outages and inventories and price advantage using the buyback option



Avoid or minimize downtimes of your machines

# Sustainably ensure your planned plant lifetime

## with Modular Service Contracts

### Modular Service Contracts

You individually combine the services offerings across the entire product lifecycle that meet your requirements. This helps you to

- create transparency and get an overview of your installed and stored assets
- identify, plan and implement necessary modernization measures
- plan and implement internal / external warehousing

Profit from our holistic concept to ensure long-term availability with high productivity through low failure rates, optimized asset management as well as services across the entire product lifecycle.

### How does it work?



### Main value drivers



Repairs at the manufacturer's high quality level



Reduced storage and administration costs



Contract tailored to your needs

# Why should you choose Circular Spares & Repairs?



**Greater resource efficiency** by extending product lifetimes with refurbishment and remanufacturing.



**Higher availability** through our global network of spare parts and repair centers.



**Better cost efficiency** thanks to buy-back option and optimized asset management.

# Extend today, empower tomorrow

## Future-proof your machinery

In Europe, the switch to e-mobility and the phase-out of combustion engines will take place by 2035.

### Challenges

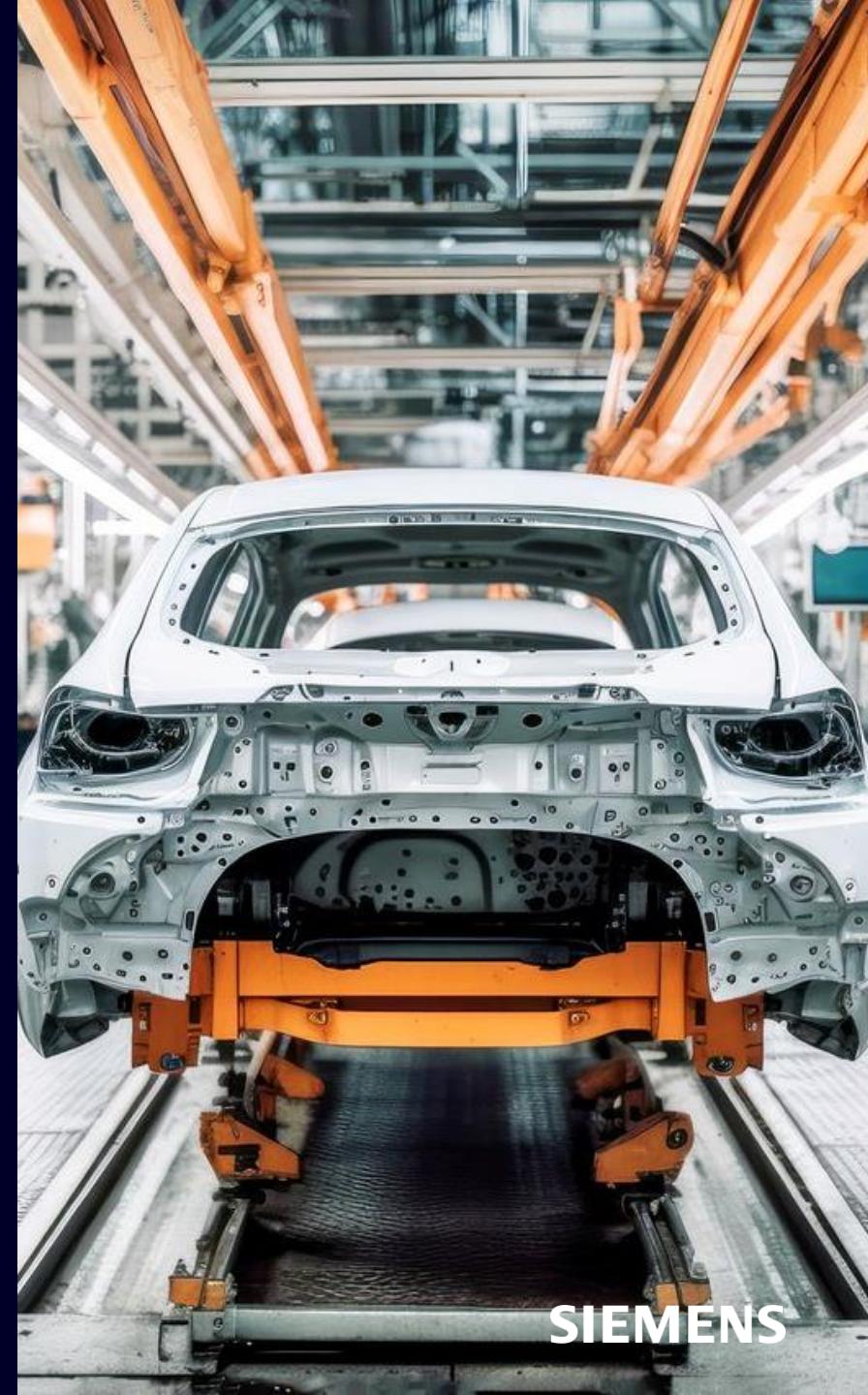
- Ensure the availability of machines beyond 2030 – cost-effectively and safely
- Fast response time / repair / replacement in the event of a fault
- Predictable costs over the life cycle

### Solution

- Spare parts availability analysis
- Repair concepts through Long Life Repair
- Bundled services tailored to your needs with modular service contracts

### Benefits

- Ensured repairability of machines until 2030
- Plannable costs over the entire contract period until 2030



**SIEMENS**

Let us know if there is anything we can support you with!



You want to  
find out more?

Here you can find more info  
about [Circular Spares &](#)  
[Repairs](#) or contact our  
[Circular Spares & Repairs](#)  
[Team](#)



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