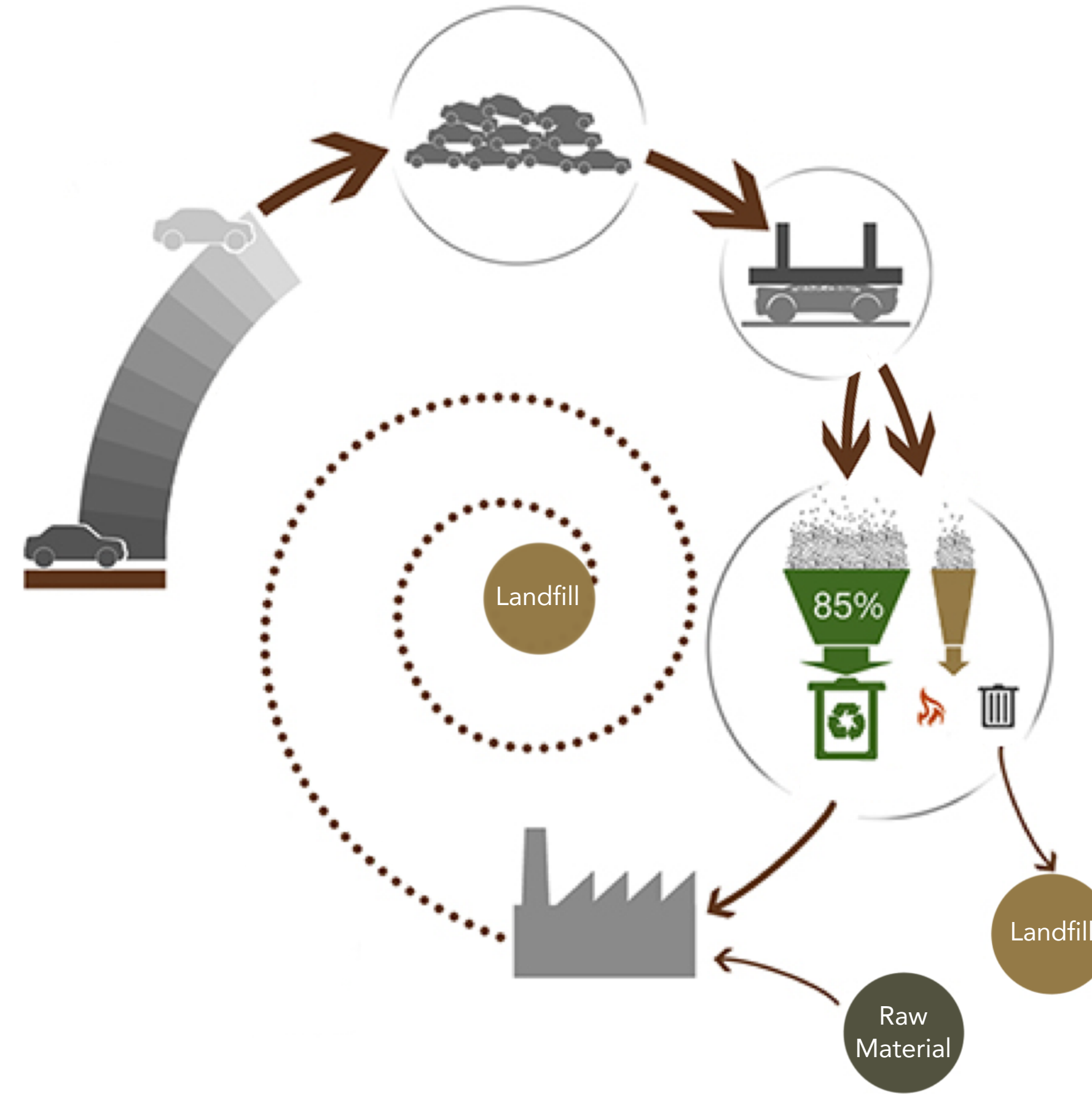


## ABSTRACT

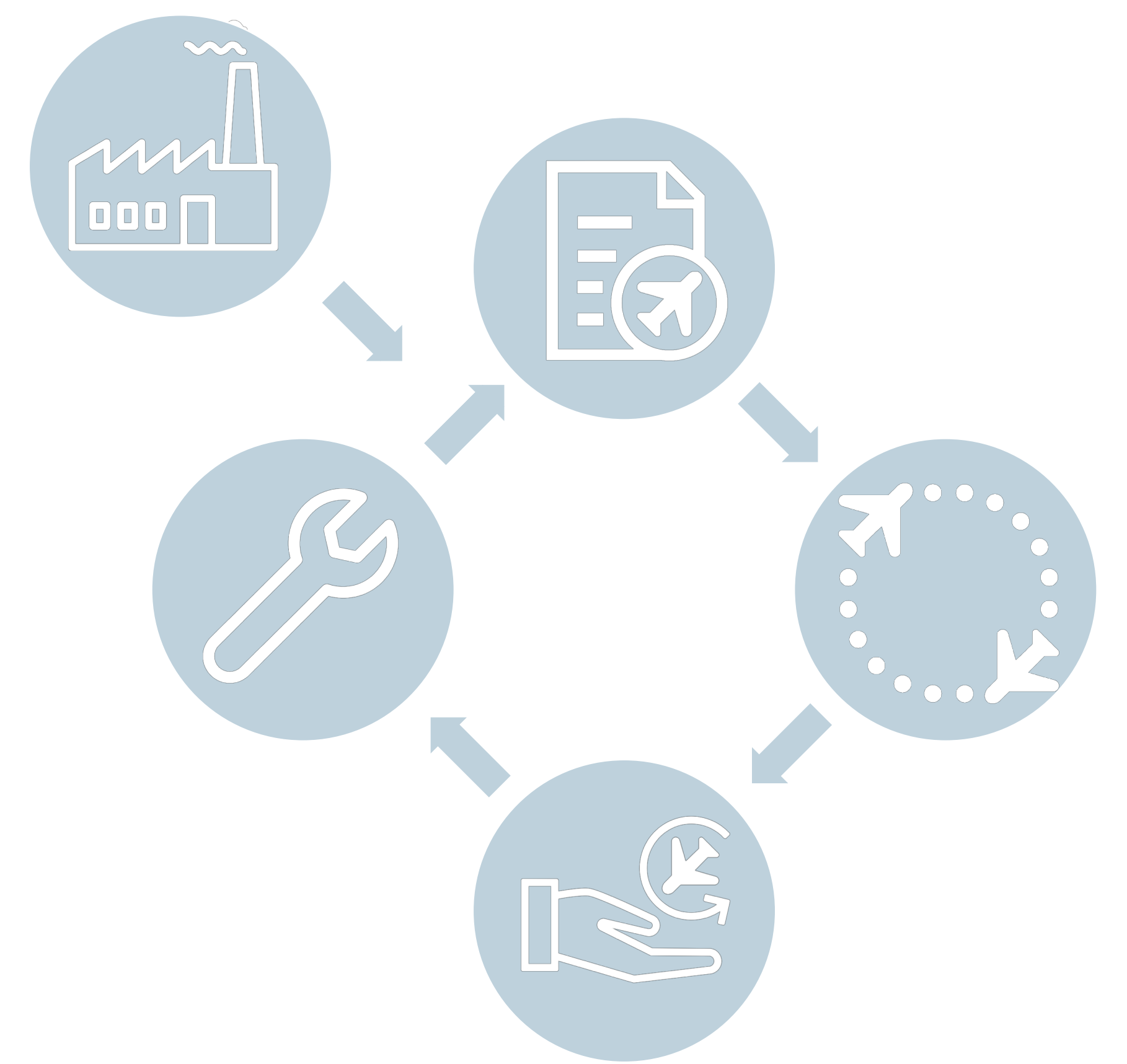
The aerospace industry utilizes a unique business approach where they lease out their products to customers, while also taking up the responsibility of continuous repair and recycling at end-of-life. Rather than using a third-party source to deal with scrap when being recycled, resources are reused within the manufacturing process.

By implementing the aerospace business model into the automotive industry, we hope to create the same closed-loop approach. This project aims to not only reduce waste, but improve the profitability of automotive companies.

## AUTOMOTIVE LIFECYCLE

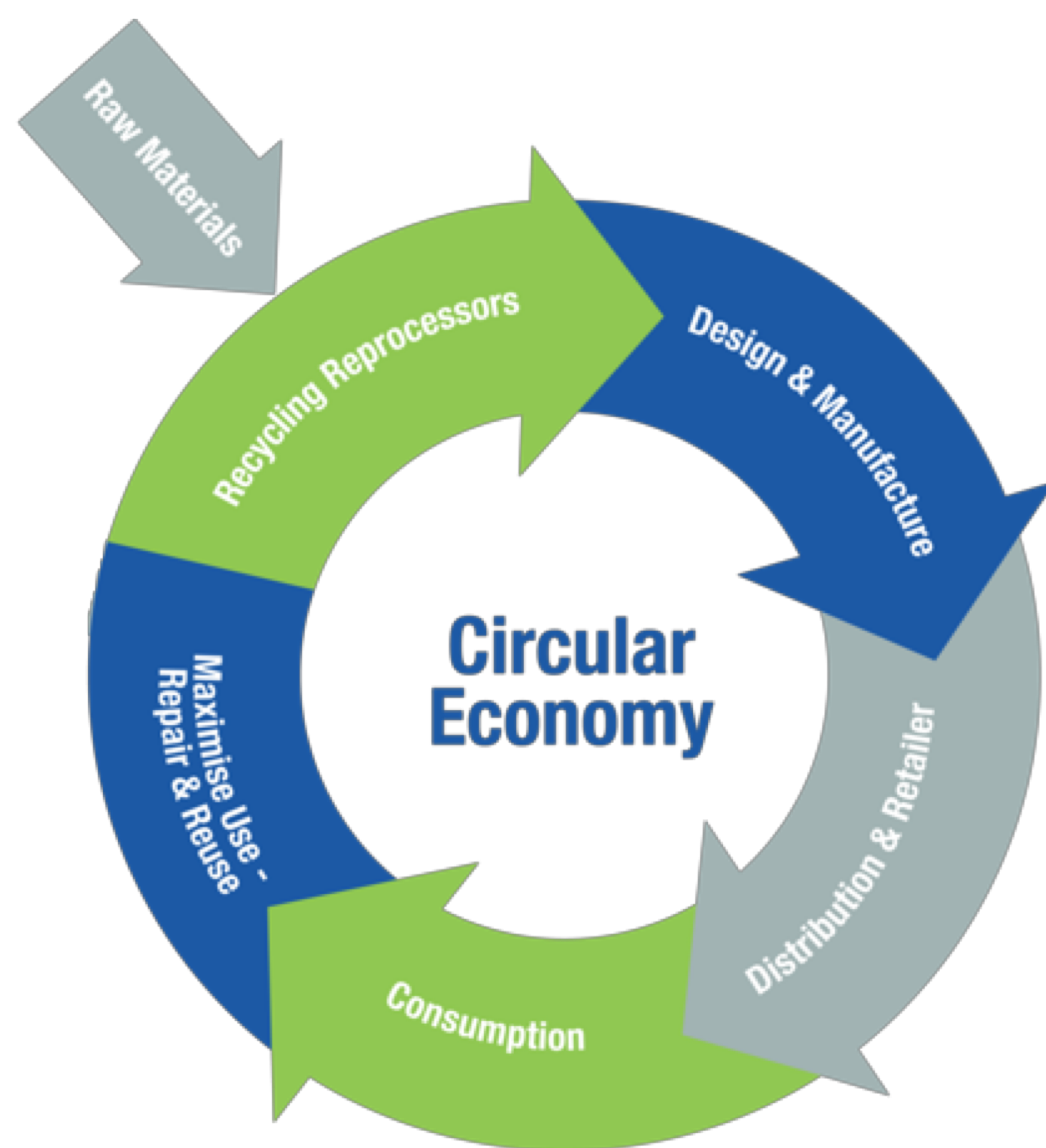


## AEROSPACE LIFECYCLE

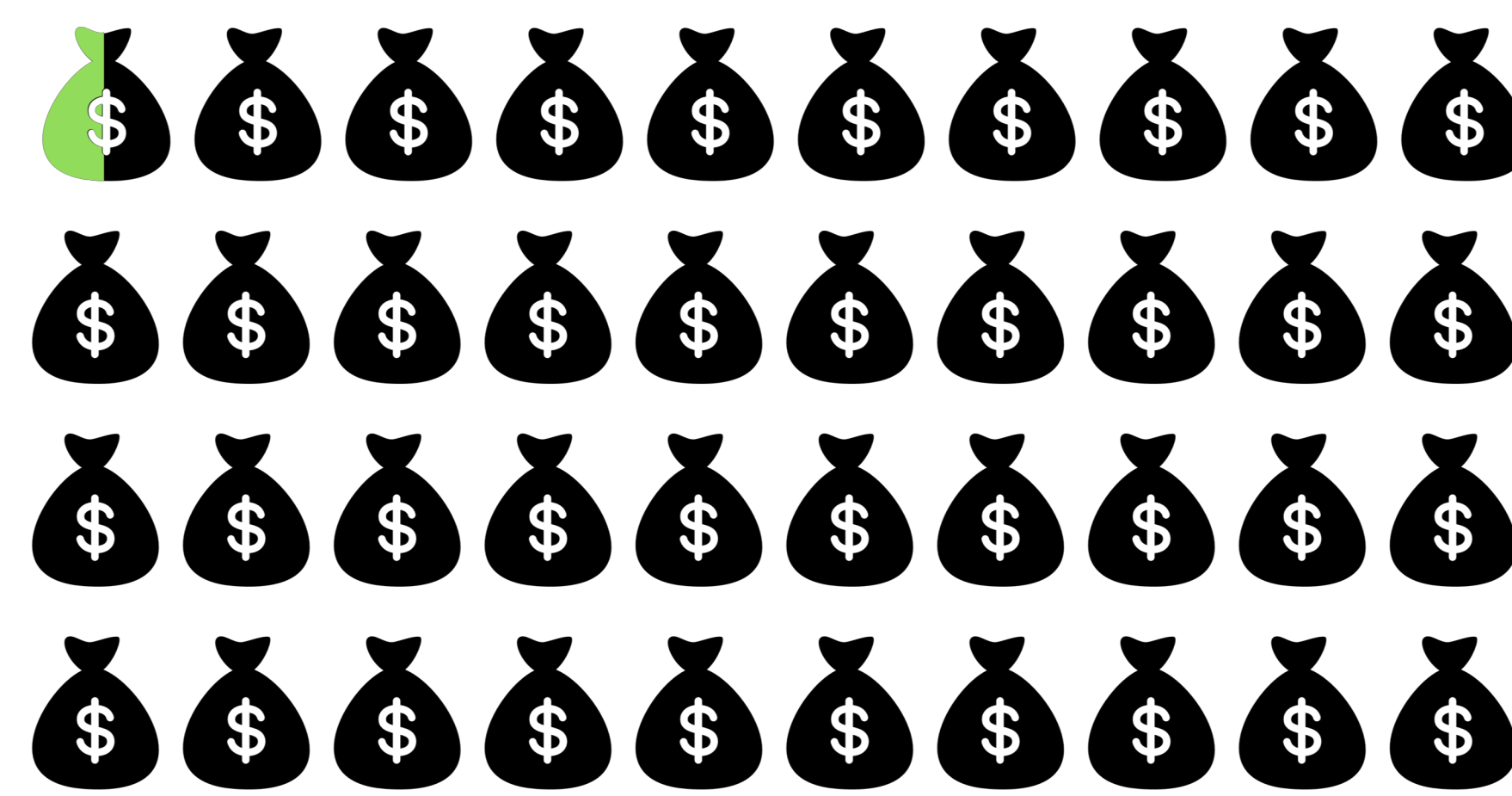


## OBJECTIVE:

Have the automotive industry implement a policy where they own their products for future remanufacturing



## RECYCLING



Reduces a product back to its basic value

## REMANUFACTURING



Recaptures the value added to the product

## IMPLICATIONS

We recommend that the automotive industry lease their products to customers, where they would be returned at end-of-life. In turn, companies would gain the responsibility of continuous repair of parts throughout life and recycling at end-of-life.

Adopting the policy used by the aerospace industry would lead to several benefits that help achieve the goal of a circular economy through closed-loop recycling. By remanufacturing rather than recycling materials, value is kept within the products and the profitability of the company increases.

## BENEFITS

- Less waste produced
- Longer product life
- Manufacturers maximize value
- Resources kept within industry
- Cradle-to-Cradle production

## ACKNOWLEDGMENTS

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