

What do we offer?

With the help of advanced simulation tools the CirBES team is able to quantify and systematically explore economic and environmental effects of different end-of-life design strategies in combination with new potential supply chain and business model settings.

What is in it for you?

- You quantify economic and environmental effects of different business scenarios at early design stage (also useful for quantitative sustainability reporting).
- You get a reference point which circular business, supply chain and design settings may be the best choice for your company.
- You break down circular business scenarios to operational level to take specific actions towards implementation.

Our approach

Step 1: Data collection & preparation

You as a client provide necessary data and we convert your data in our required format. Depending on how detailed your data is we may need to collect additional data.

Step 2: Scenario analysis

With our advanced simulation tools we create different scenarios of your interest and can quantify product lifecycle cost, CO₂ emissions, material savings and resource productivity over time.

Step 3: Presentation of results

We present the results of the scenario analysis in an appropriate form and discuss implications to propose practical next steps towards circular system implementation.

Information

Feel free to contact us if you need further details. We provide individual offers.

Contact

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Case example

Initial situation

- A washing machine manufacturer considers circular business approaches
- Many different end-of-life strategies on single component level may be reasonably combined with different supply chain settings and business models - which are favorable combinations?
- Systematic exploration of different circular manufacturing system settings needed

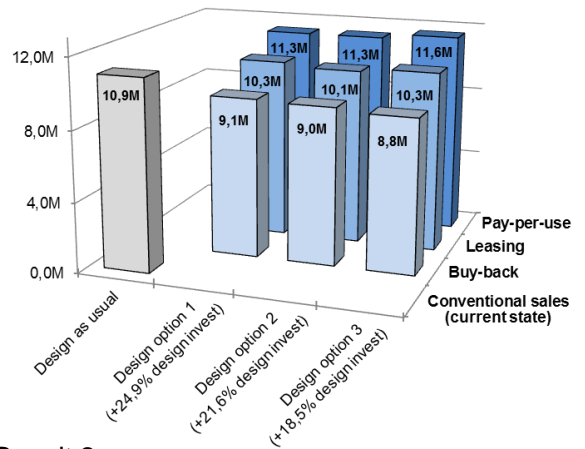
Objective

Quantification of following criteria for different business scenarios like buy-back, leasing or pay-per-use over time:

- Product lifecycle cost (see Result 1 below)
- Resource productivity (see Result 2 below)
- CO₂ emissions (not shown)
- Material savings (not shown)

Result 1

Aggregated lifecycle cost
in million Euro (M) for 15 years



Result 2

Resource productivity

Number of customers served per washing machine (based on number of components and a 15-year scenario)

