

BEVSIM

INTRODUCTION & FEATURES

Battery Electric Vehicle Sustainability Impact Assessment Model (BEVSIM)

-) Web-based tool based on TNO's DIAMONDS platform with R Shiny programming suite and built-in database on lifecycle impacts.
-) Best-in-class LCA models for materials production, processing, Use Phase, EoL fate and EoL recycling processes.
-) BEV versus ICE comparison possible for segment C and D passenger cars.
- Customisable → Model a full car, a sub-system, or a part for LCA, LCC, Circularity Analysis
- Possibility to include customer, user specific datasets
-) Download Word report and extended Excel results
- Version control possible and easy to update LCI datasets

Compare Design Alternatives

Designed For NON-LCA Experts

Early Sustainability Evaluation

Faster LCA Results

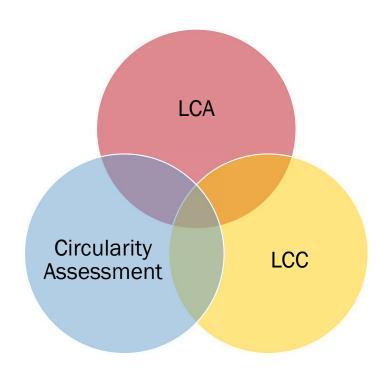
Scenarios



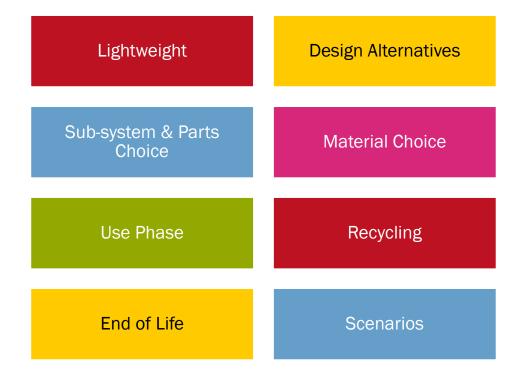
BEVSIM

CAPABILTIES

Single Tool



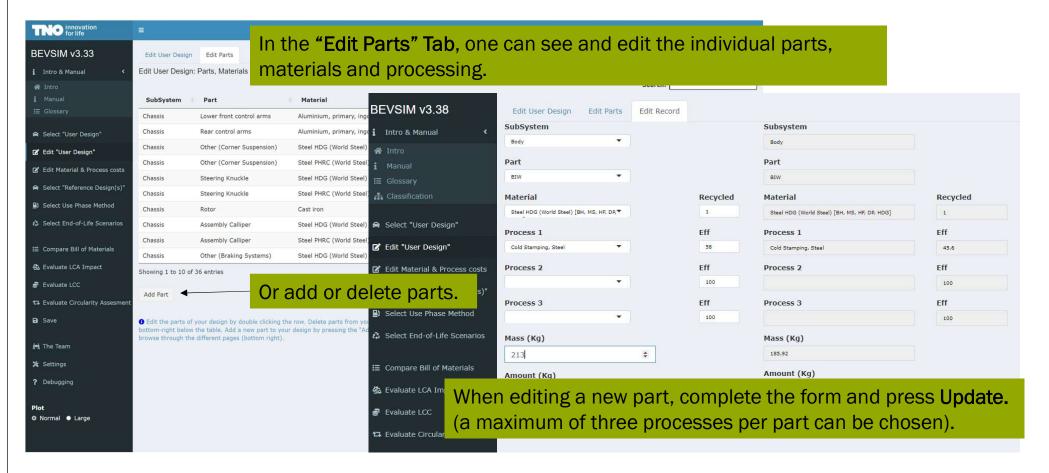
Measure Impacts





SIMULATION WORKFLOW

STEP 2: EDIT "USER DESIGN"



SIMULATION WORKFLOW

STEP 6: COMPARE "USER DESIGN" WITH "REFERENCE DESIGN(S)"



CLOSING REMARKS

- > BEVSIM is designed to assess the environmental, circularity, and economic impacts of passenger vehicles across the entire life cycle
- Automotive application specific tool with simpler design that offers significant savings in time and effort for performing LCA studies
- **Designed for non-LCA experts** for early screening of design alternatives in R&D phase
-) Consistency across LCA studies
- **)** Lower total cost of ownership compared to full suite LCA software

Can I have access to BEVSIM?

Yes, on a case to case basis! Please reach out to us by email (to discuss your specific requirements.

