

Green NCAP's Life Cycle Assessment for Cars – Supporting Consumer Choice

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Vision

For Greener Cars

New vehicles should have minimum environmental impact and be affordable to consumers.



Agenda

Who We Are

Life Cycle Assessment



Who We are Our Motivation



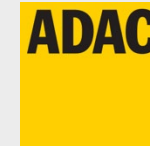
Consumers need reliable and accurate advice about choosing a vehicle

Vehicle's sustainability and environmental impact are increasingly important considerations.

Limited or misleading information about the true environmental performance.

Many consumers are confused by the media.

Who We Are – Our Members



Who We Are – Our Objectives

The Green New Car Assessment Programme aims to inform about the environmental impact of today's vehicles by:

- Providing comprehensive, simple, objective rating information
- Making available detailed and transparent test result and analysis
- Acting as a voice for Green industry and consumers

Green NCAP will then:

- Stimulate greener cars to enter the market
- Create a competitive market for more sustainable products
- Provide evidence for decision makers
- In the long term reduce pollutants and greenhouse gas emissions for a healthy planet



Who We Are – Our Approach

Develop a test-based assessment of a vehicle's environmental performance for passenger cars and light commercial vehicles

Develop an understandable vehicle rating system for evaluation of test results

- **Clean Air Index**
- **Energy Efficiency Index**
- **Greenhouse Gas Index**

Provide a Life Cycle Assessment (LCA) of vehicle's Greenhouse Gas emissions and Primary Energy Demand throughout their product life



LCA



There is international consensus that the environmental effects of transportation systems can only be truly analyzed and compared based on Life Cycle Assessment that includes the production, operation and the end-of-life treatment of the various facilities.

JOANNEUM RESEARCH



LCA in Green NCAP – Overview

FIA LCA expert tool

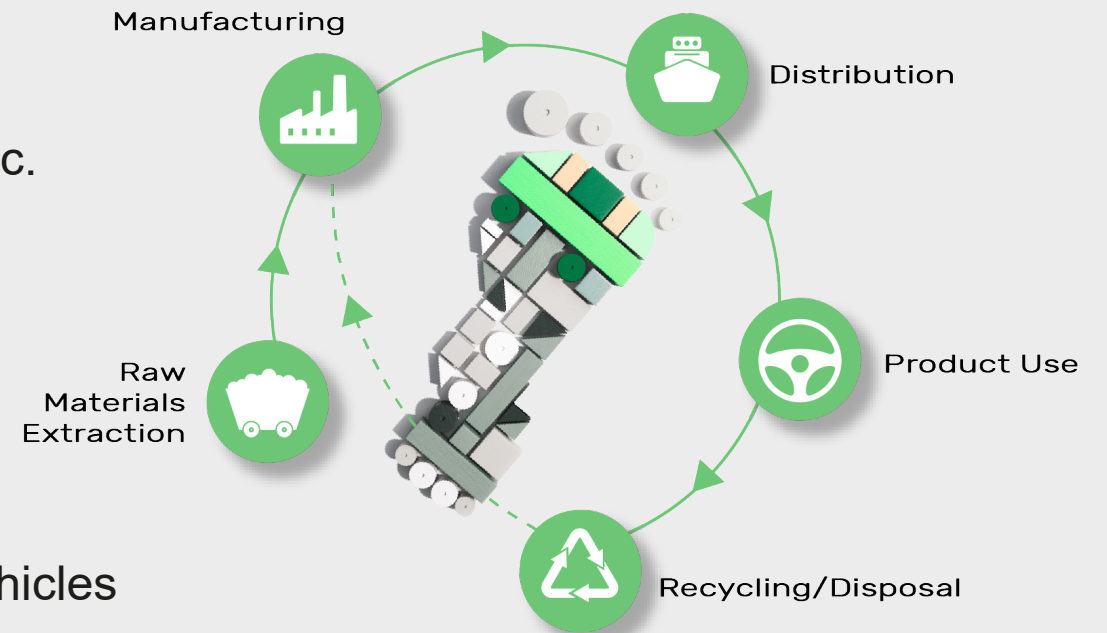
- “mother” of all derivative LCA tools and functions
- different scenarios, freely selectable parameters, e-fuels, etc.

Static vehicle [LCA fact sheets](#)

- LCA of tested vehicles with EU average conditions

Interactive [LCA Consumer Tool](#)

- online LCA platform, different countries, huge number of vehicles



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