X1

Bionic Electric Vehicle

- Motivation
- Marked needs
- Design
- Benefit
- Realisation

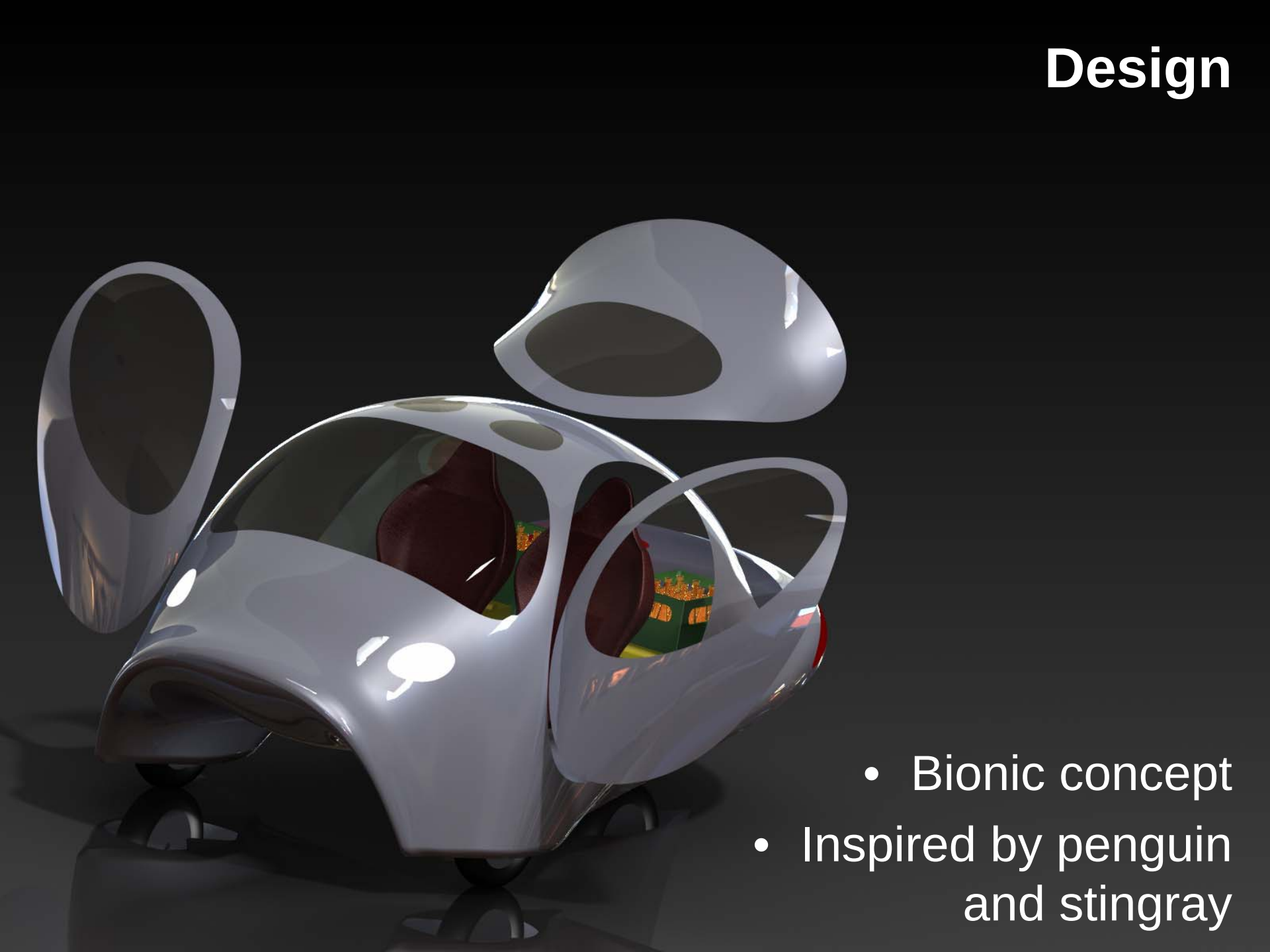
Motivation

- Every day use
- Minimum of energy consumption
- Real usability
- Sustainable concept

Market needs

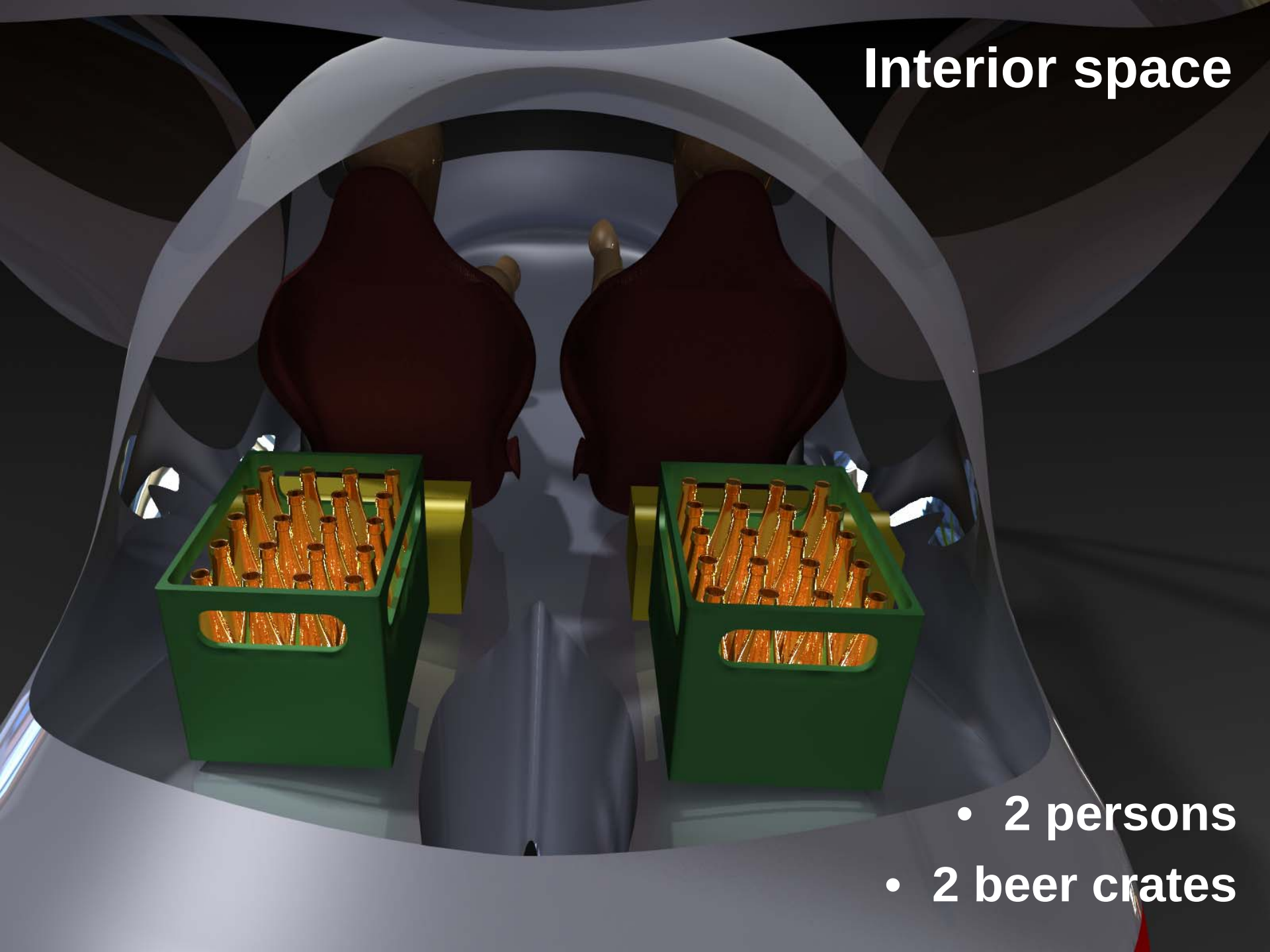
- 40 Million cars in Germany
- 24 Million cars can be replaced by efficient vehicles
- Conventional cars cannot be converted to economic electric cars
- Opportunity to change the product lifecycle of cars by an efficient type like XANON X1

Design



- Bionic concept
- Inspired by penguin and stingray

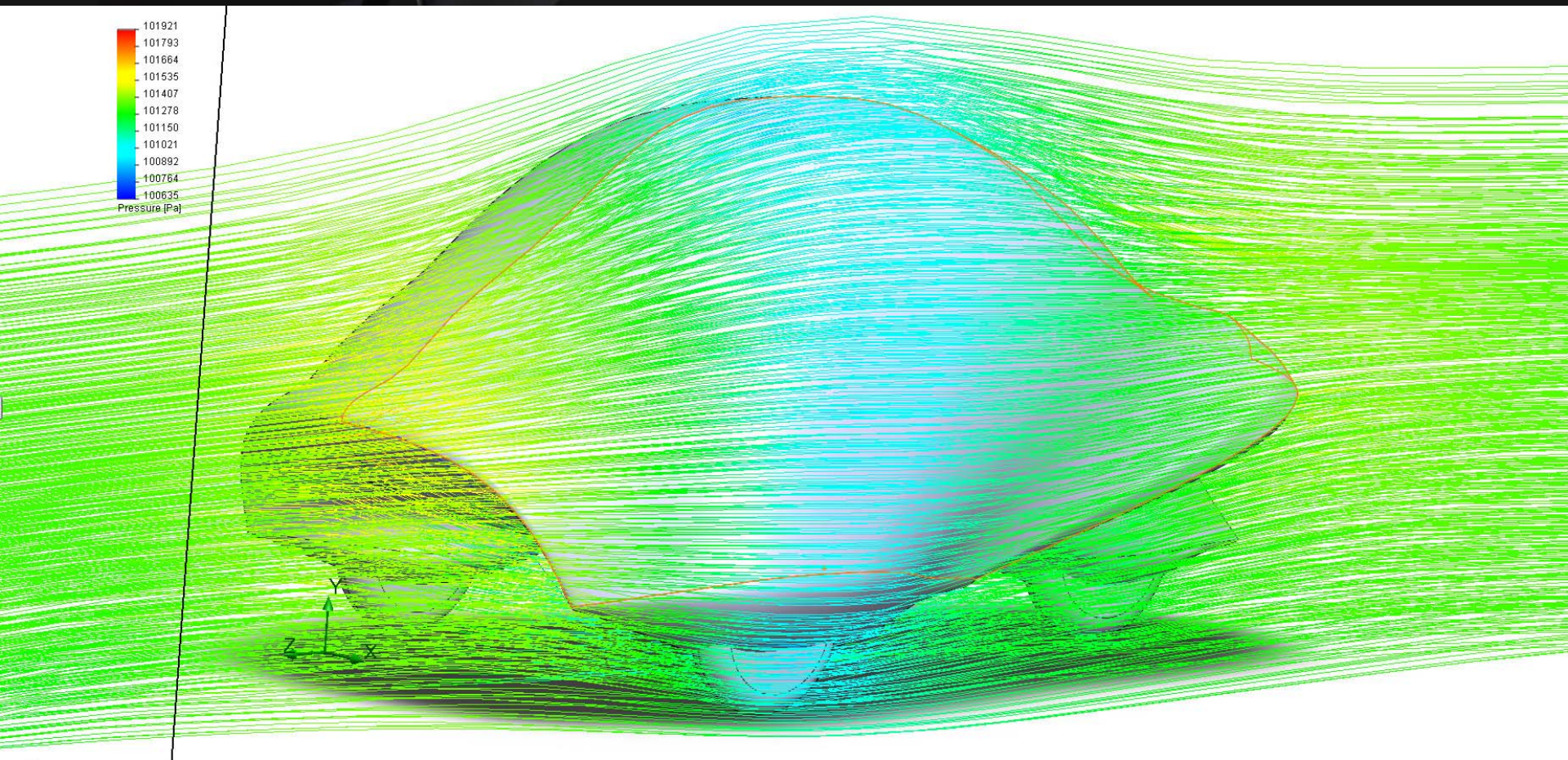
Interior space



- 2 persons
- 2 beer crates

Design

Shaped for low aerodynamic drag $_{cw}$0,12



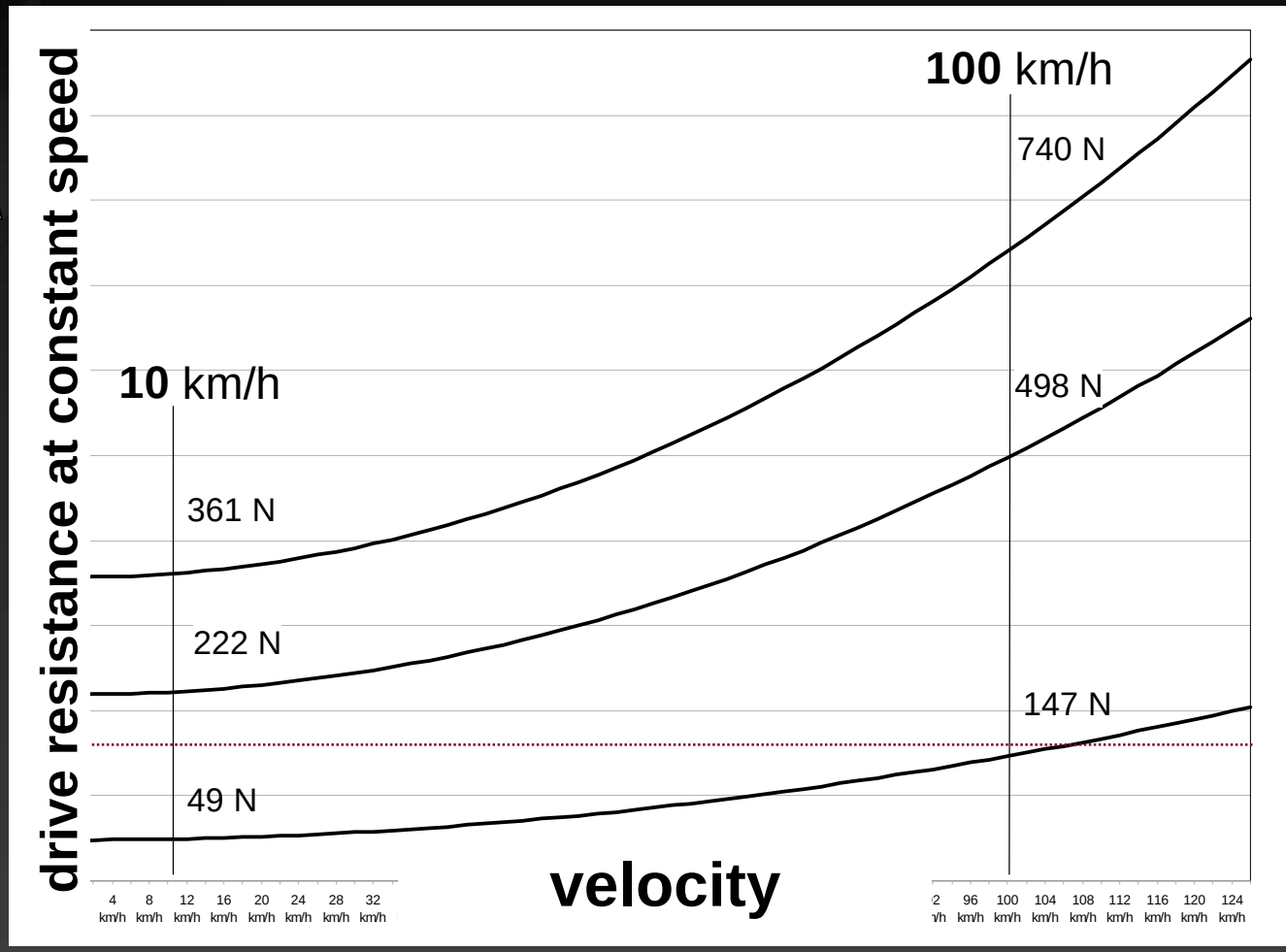
Design

Low weight budget: **200 kg** empty weight

Bionic structure combined with composite fabric plastic

Advantage

70% less energy than middle class cars



SUV

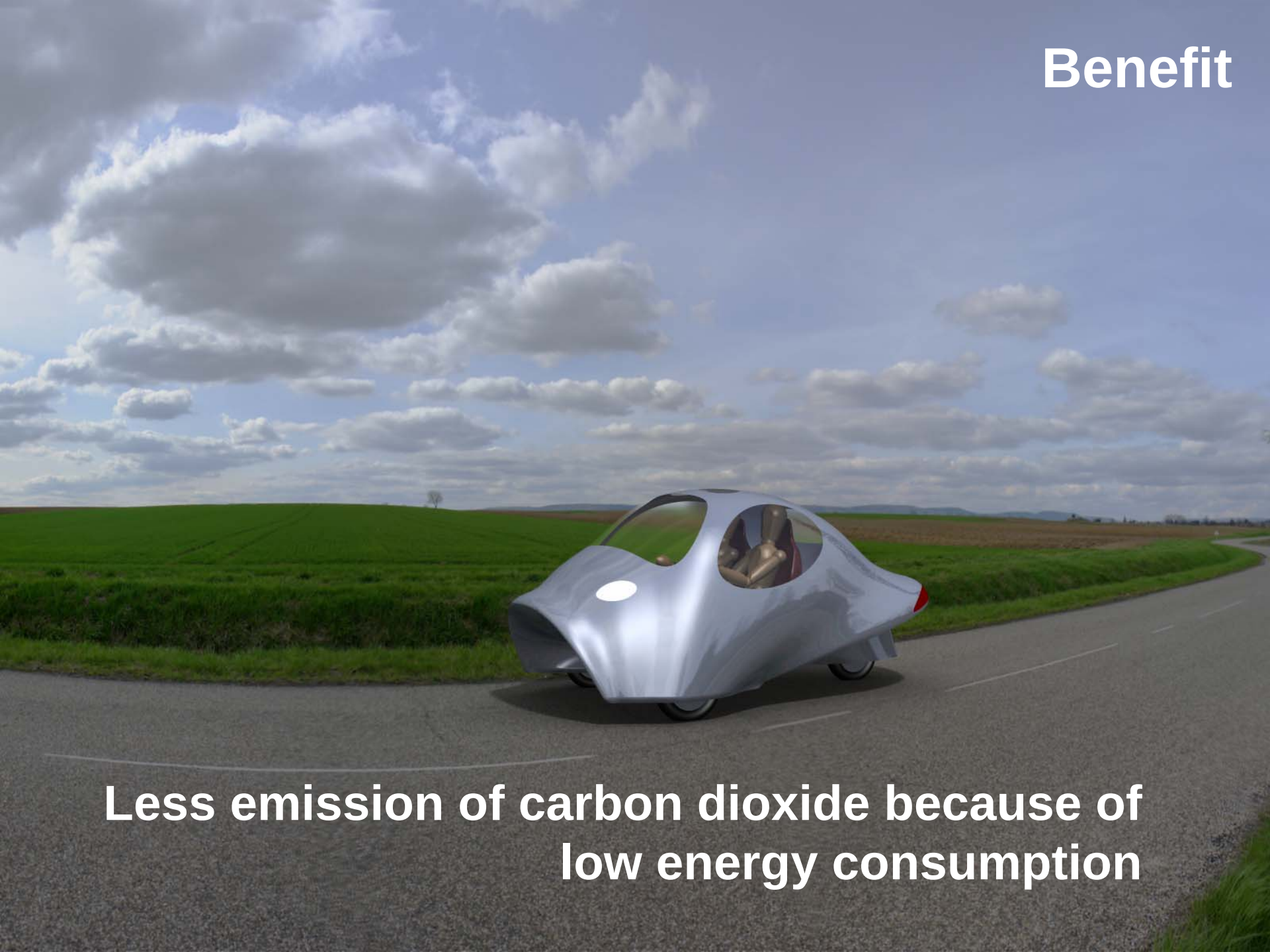
middle class car

XANON X1

Benefit

- **Low battery costs**
- **Smooth ride through special underbody aerodynamics**

Benefit



Less emission of carbon dioxide because of low energy consumption

Benefit

Low road resistance saves more than 70% of energy

Realisation

1. Build and test the prototype

€ 700.000

2. Production of small series


XANON