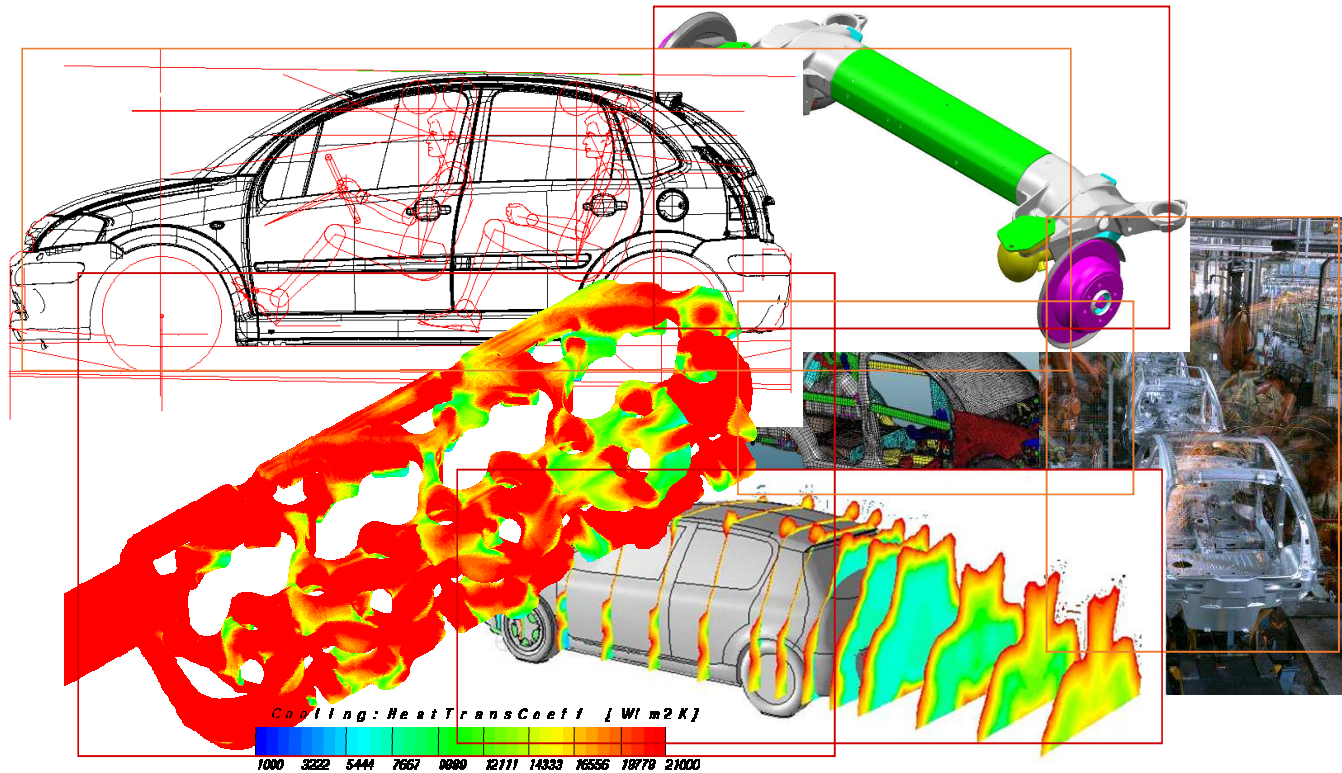
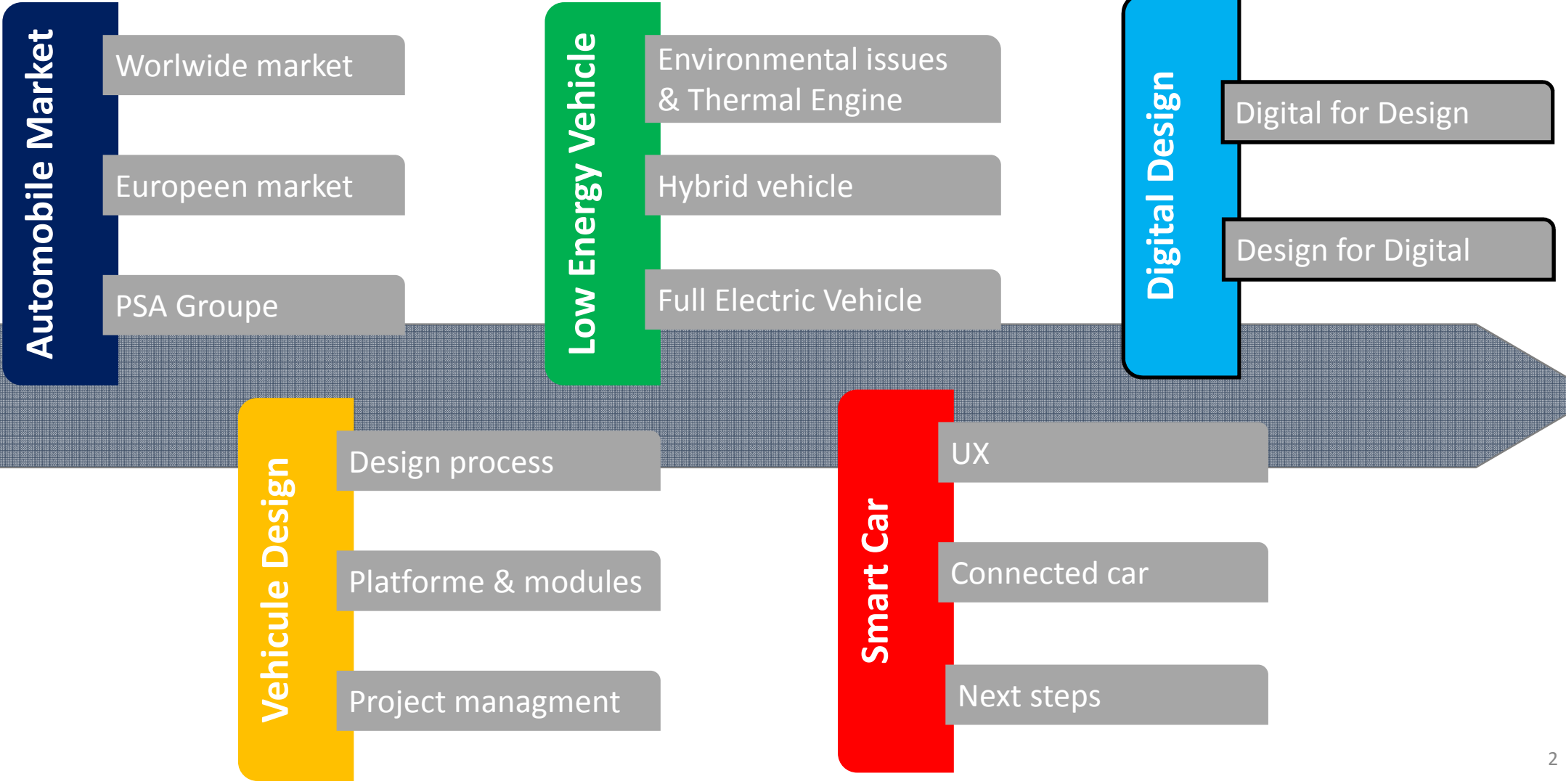


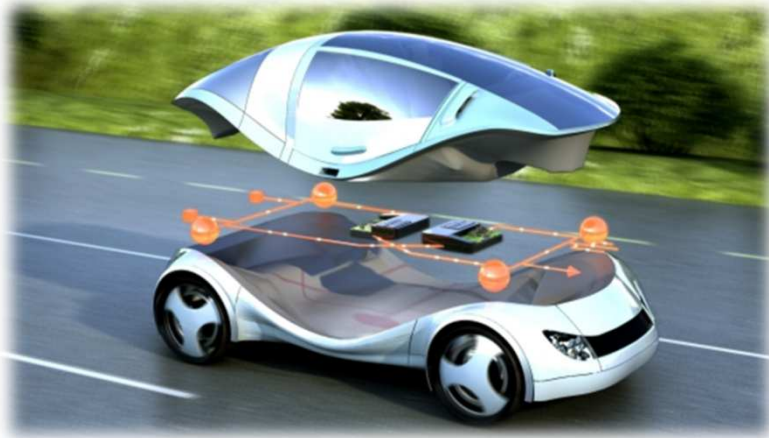
Vehicle System Design



Module description



Summary



1- Digital for Design

2- Design for Digital

Digital for Design - Communication

- Phone
- Cellphone
- Email
- Tchat
- Forum
- Online meetings



Digital for Design – Actual Simulation SW

- Matlab
- Catia V6
- Cave (3D simulation)
- Customer database (built with specific fleet)
- 3D printing

Digital for Design – Opportunities

❑ Virtual reality - Style



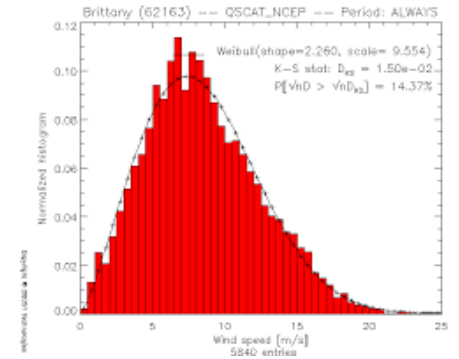
Digital for Design – Opportunities

❑ Virtual reality - Mounting



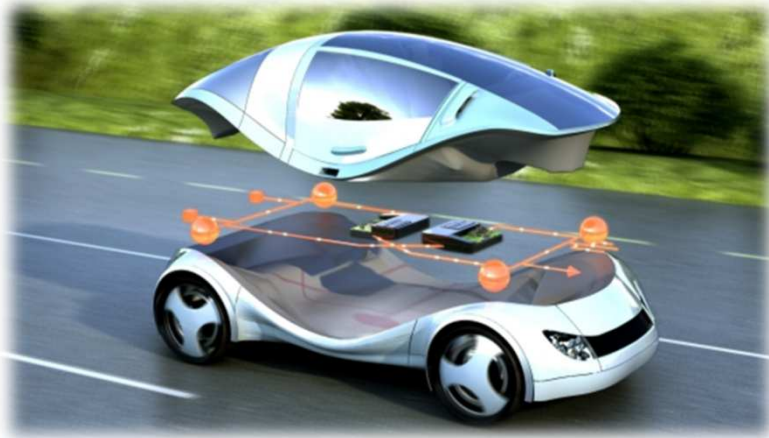
Digital for Design – Opportunities

- ❑ Database from connected vehicle

A complex data table with multiple columns and rows, representing a database of vehicle data. The table is organized into several sections, each with a header and a list of data points. The data points include various parameters such as vehicle ID, location, speed, and other sensor data.

A major tool for design = to know the customer behaviour

Summary



1- Digital for Design

2- **Design for Digital**

Design for Digital

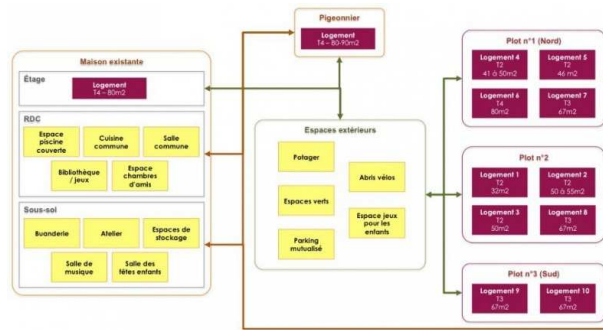
3 groups : choose a connected technology for vehicle

- ❑ 45 min : Vehicle design
 - Imagine a short product specification
 - Translate in automotive language
 - Translate in physical language
 - Identify organic and functional impacts

- ❑ 30 min : Groupe Synthesis

Design for Digital – New inputs

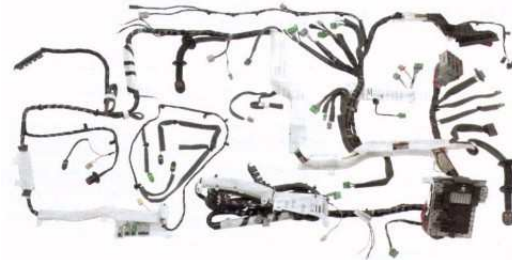
□ Fonctional



□ New components



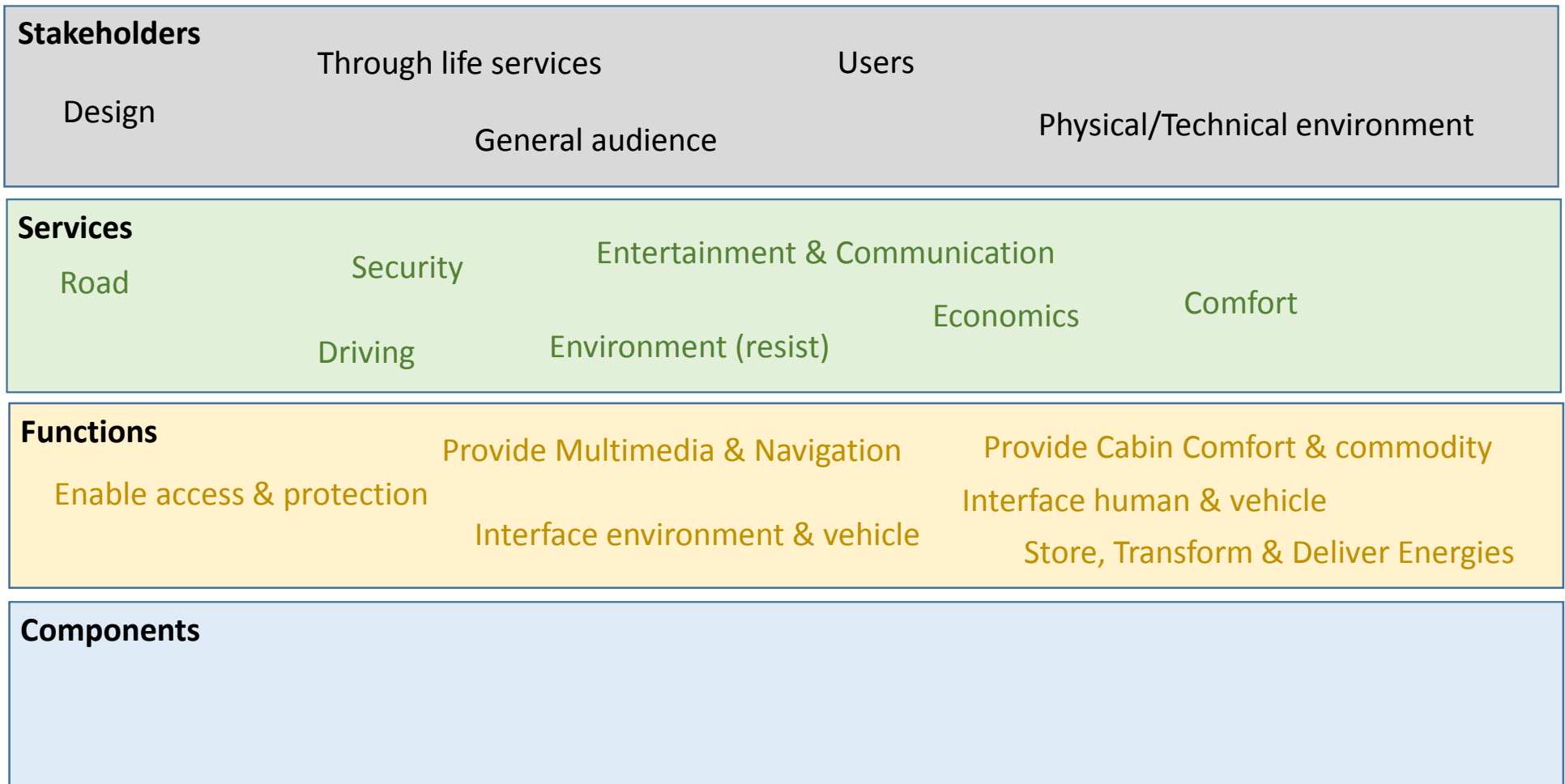
□ Electrical architecture



□ Software

Design for Digital – Organisation

System architecture



Design for Digital – Time lines

- ❑ Infrastructure planning = 10 years
- ❑ Vehicle planning = 4 years
- ❑ Smartphone planning = 1 year
- ❑ Apps planning = 3 months