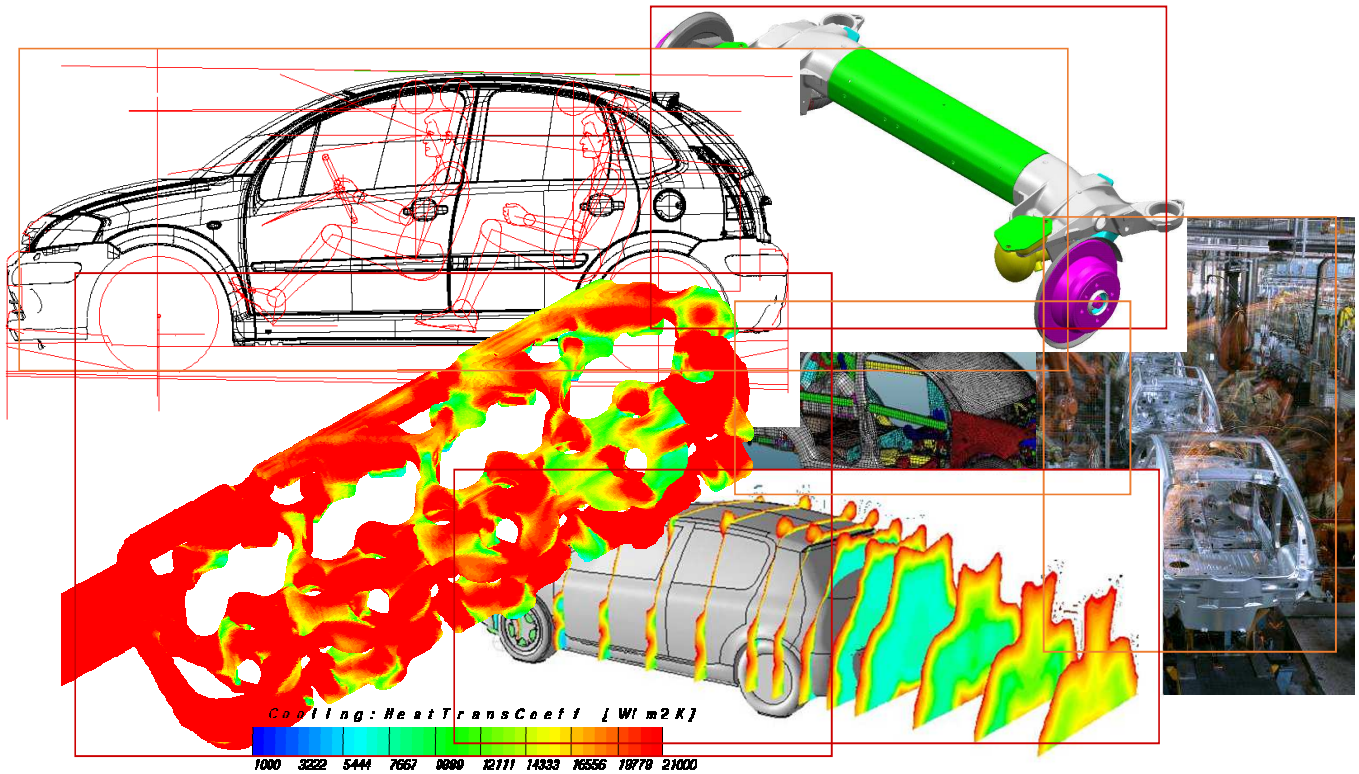
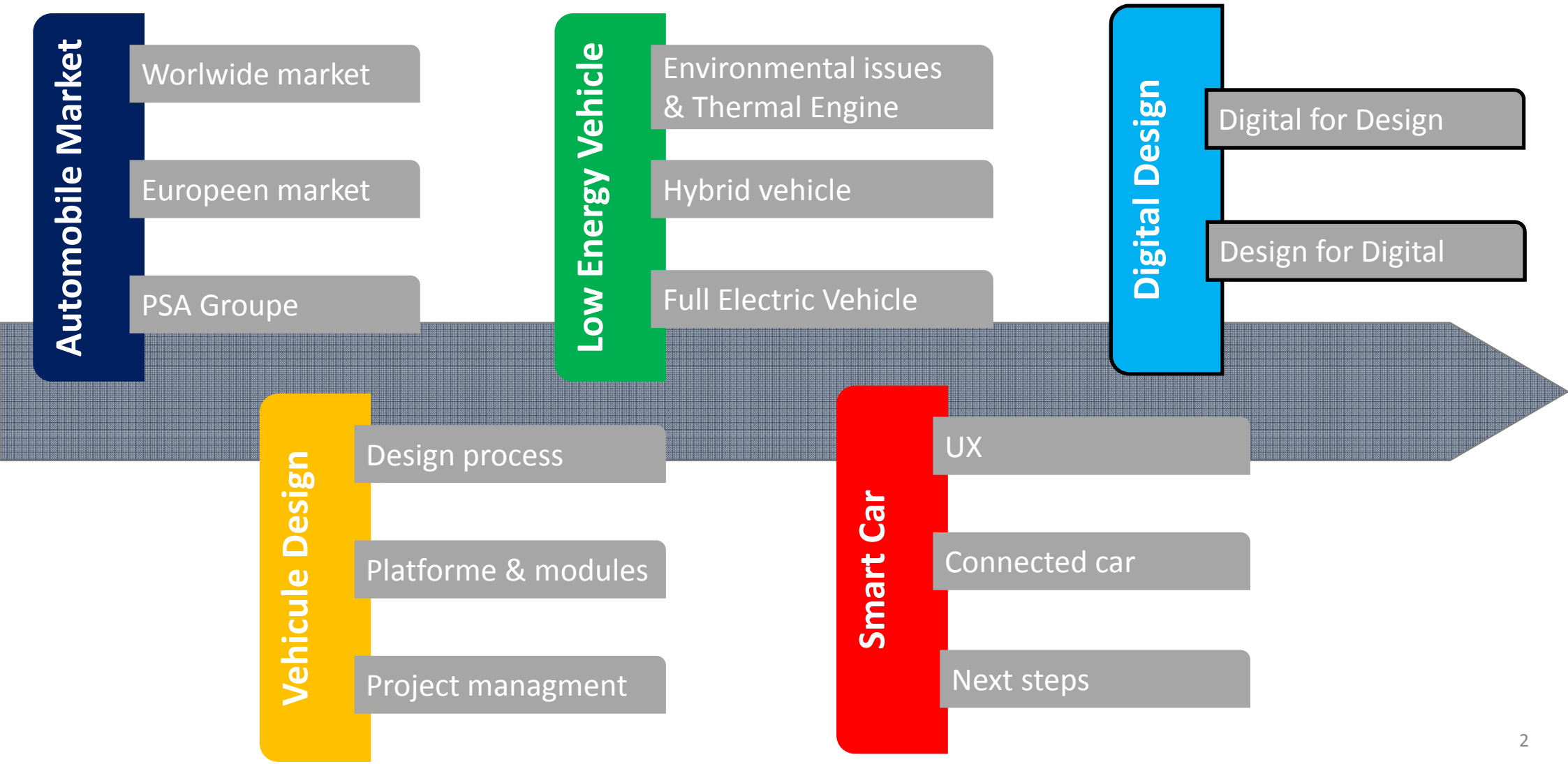
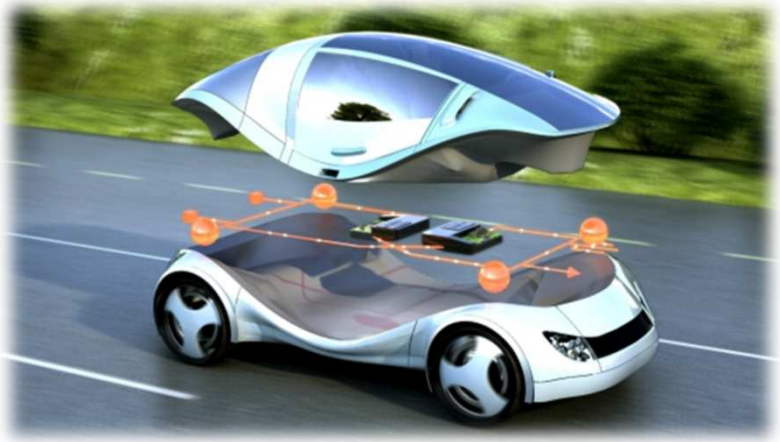
Vehicle System Design



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

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

Digital for Design – Opportunities

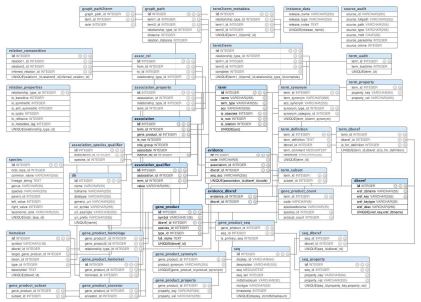
- **Virtual reality** - Style

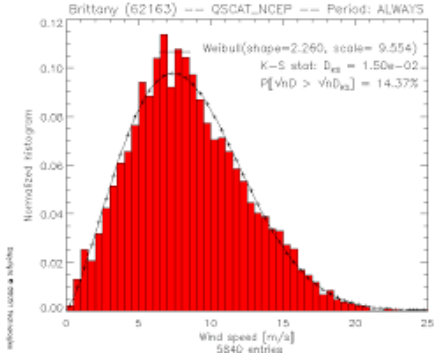
Digital for Design – Opportunities

- **Virtual reality** - Mounting

Digital for Design – Opportunities

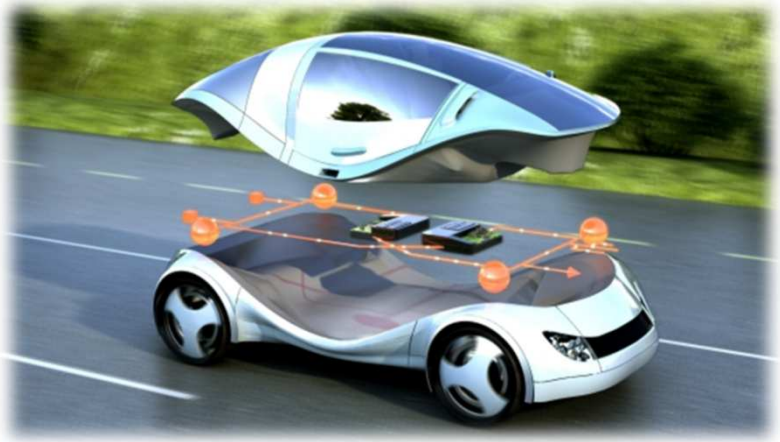
- Database from connected vehicle





A major tool for design = to know the customer behaviour

Summary



1- Digital for Design

2- **Design for Digital**

Design for Digital

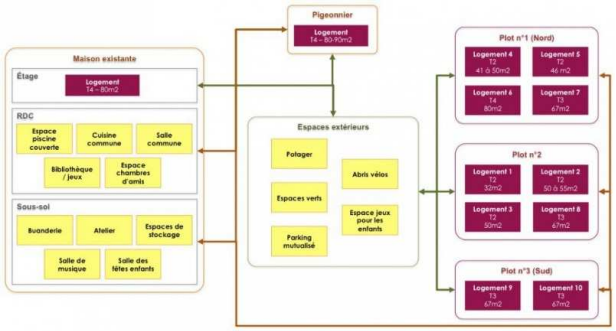
3 groups : choose a connected technology for vehicle

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

- 30 min : Groupe Synthesis

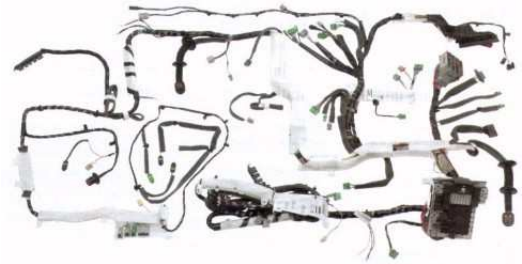
Design for Digital – New inputs

❑ Fonctional



❑ New components

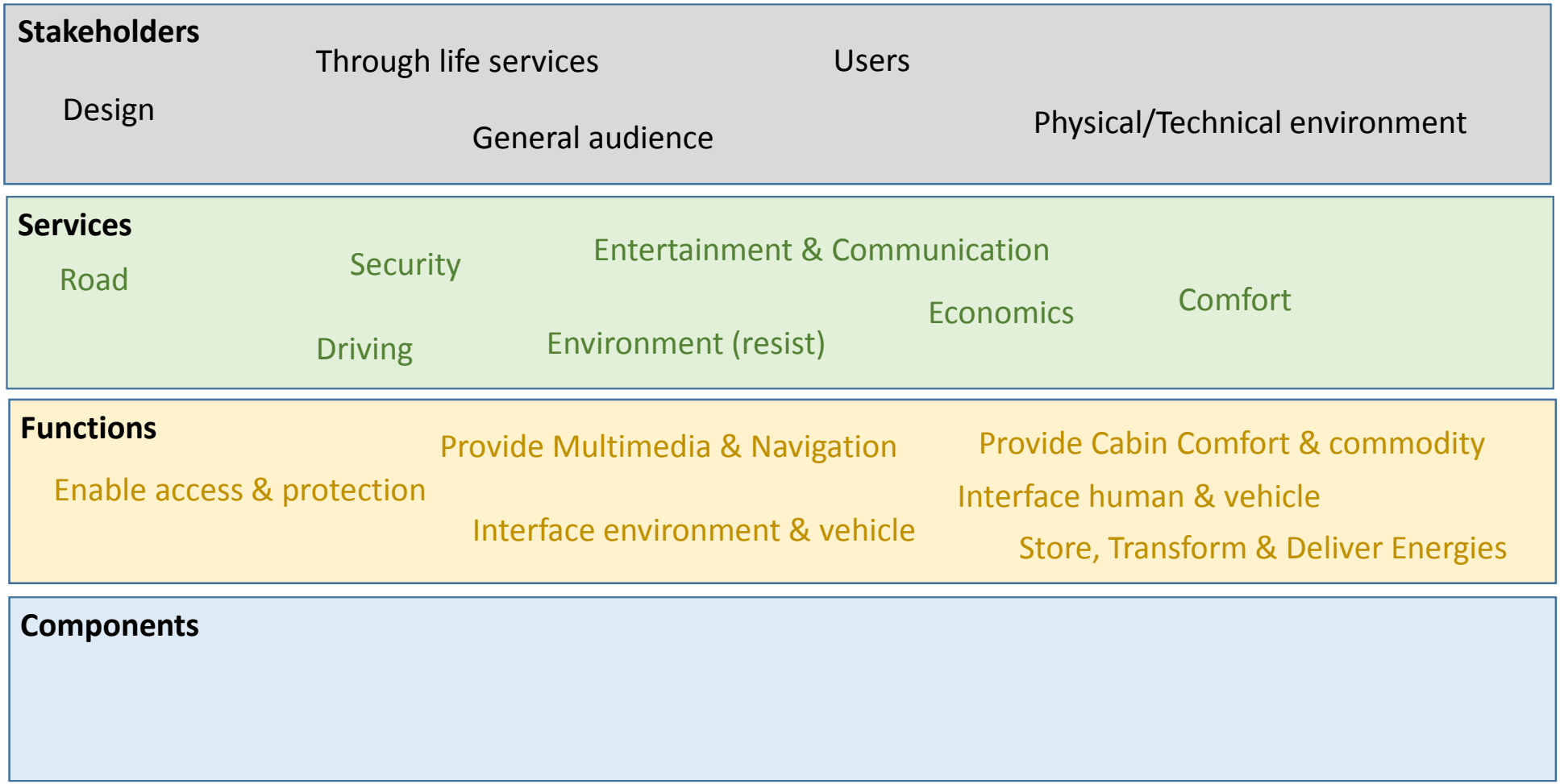
❑ Electrical architecture



❑ 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