



Introduction VIRTUAL VEHICLE

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Organisation & Business Development

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E-Mobility – a highly complex system

Energy supply
Energy feed

Services
Charging

User behavior
Fulfilling needs

Battery charging
Power reverse feeding

Develop excellent technical
solutions: Operating range,
battery cooling, interior...

Saving energy in the entire system

System behavior: Realistic Digital Twins

Co-simulation, Credibility, Sensor data, Sustainable digital innovation...



Functional orientation: Software-defined systems

Functions, dependencies, security, interaction, system description...



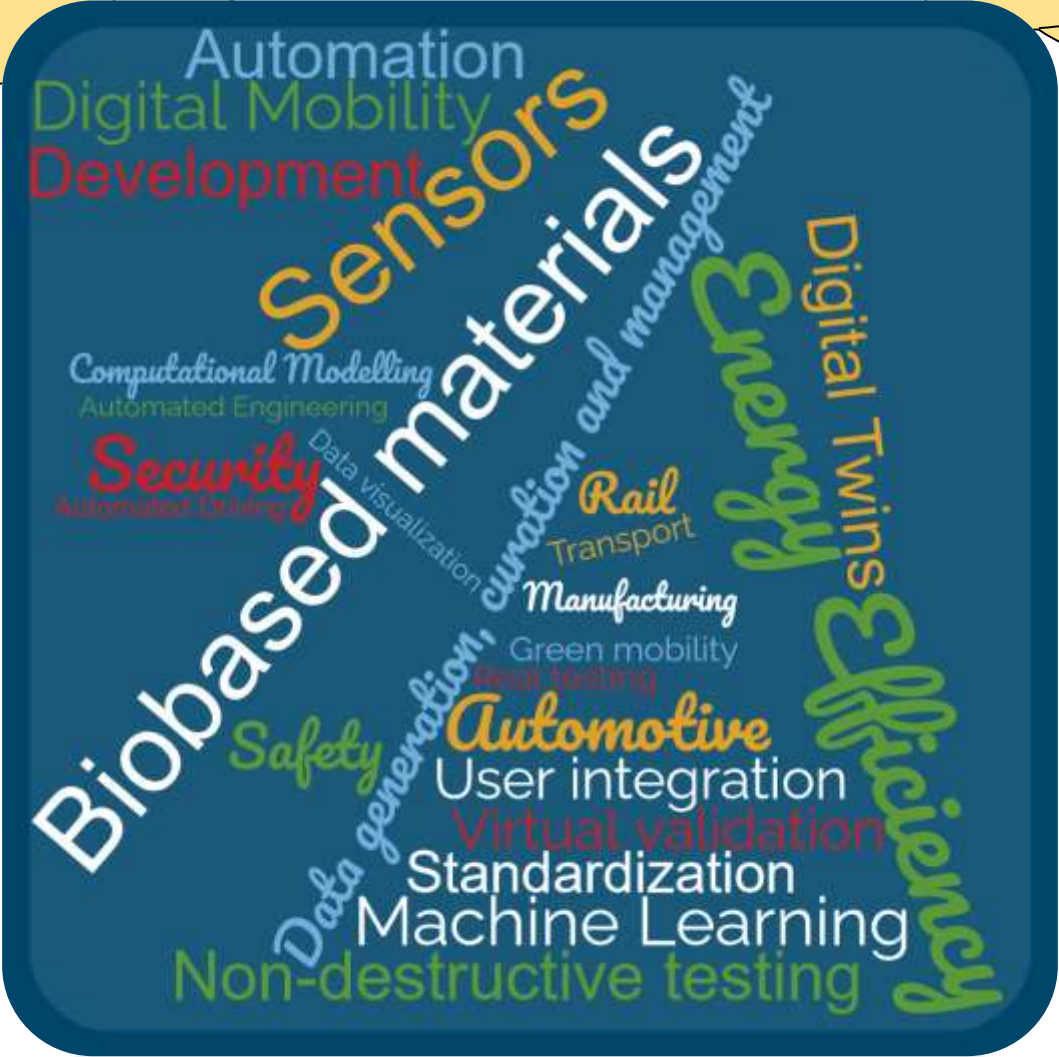
Knowledge from data: Connect & integrate databases

Graph-based semantic data, Artificial Intelligence, Data Analytics, ...



Data & Sustainability

Enabling Technologies



THE CENTRE

AUTOMOTIVE



RAIL



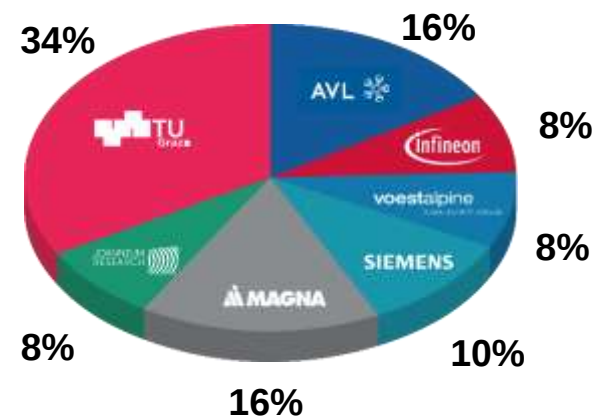
INTERNATIONAL PARTNER NETWORK



VIRTUAL VEHICLE is Europe's leading research center for virtual vehicle development.

Founded: 2002
Staff: 300+
Operating income: 27 Mio. EUR
Location Graz

Shareholders



Dr. Jost Bernasch Managing Director
Prof. Hermann Steffan Scientific Director

Bridge Between Science and Industry

COMET K2



- Digital Mobility
- Long term co-operative research activities
- Attractive leveraging of invest

FUNDED PROJECTS



- 40+ ongoing EU Projects
- 70+ successfully completed
- High international visibility and reputation (Initiator, Coordinator)

CONTRACT WORK



- Research & Development
- Test Bed & Demonstrators
- Industry agreements

Efficient Collaboration is our key for Innovation.

Comprehensive knowledge of

~300 in-house experts

GREEN & INTEGRATED TRANSPORT



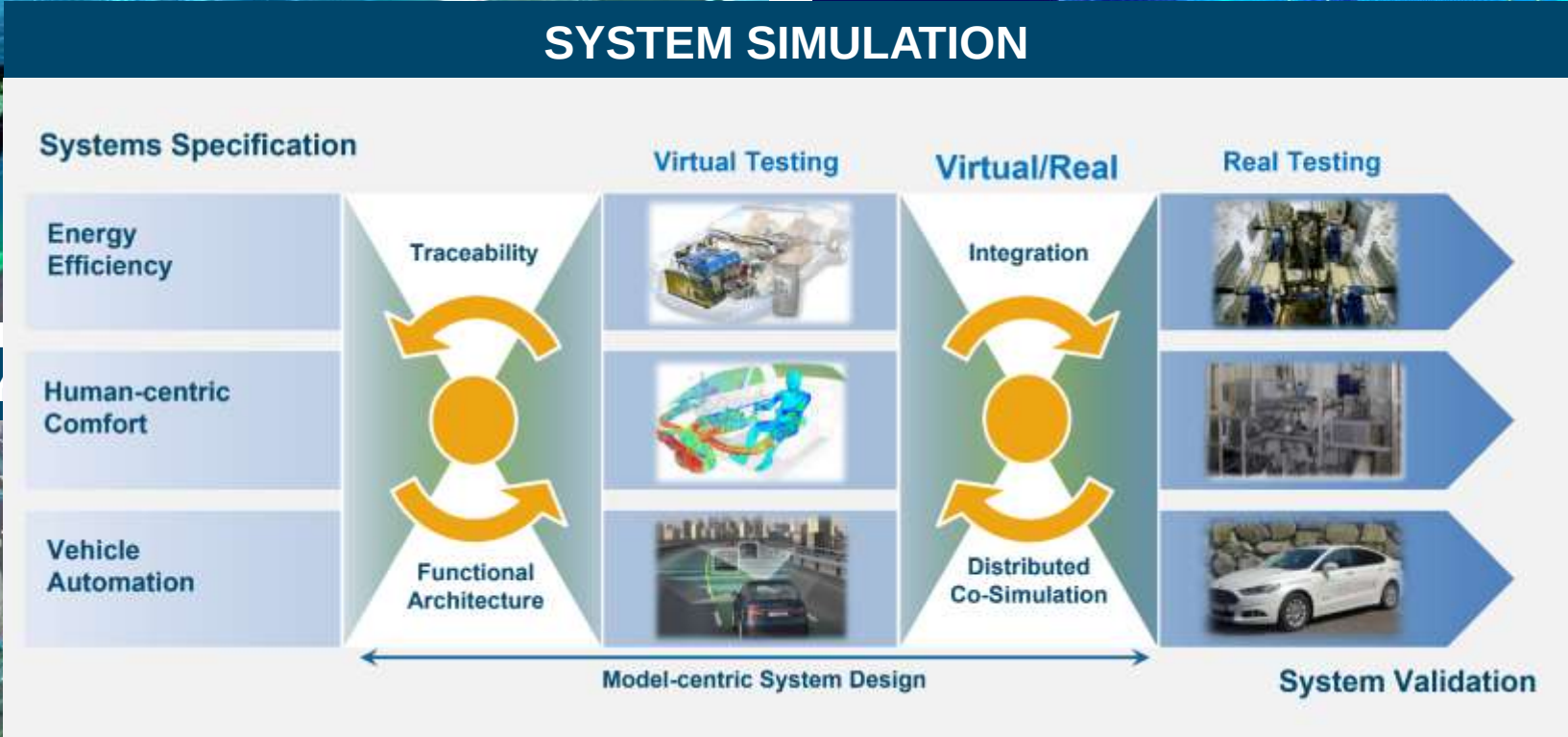
RAIL SYSTEMS



AUTOMATED SYSTEMS



SAFETY & SECURITY



BNN Focus Areas

- Data & Sustainability
- Enabling Technologies

Realistic
Digital
Twins

Software-
defined
systems

Knowledge
from data

...

www.v2c2.at

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