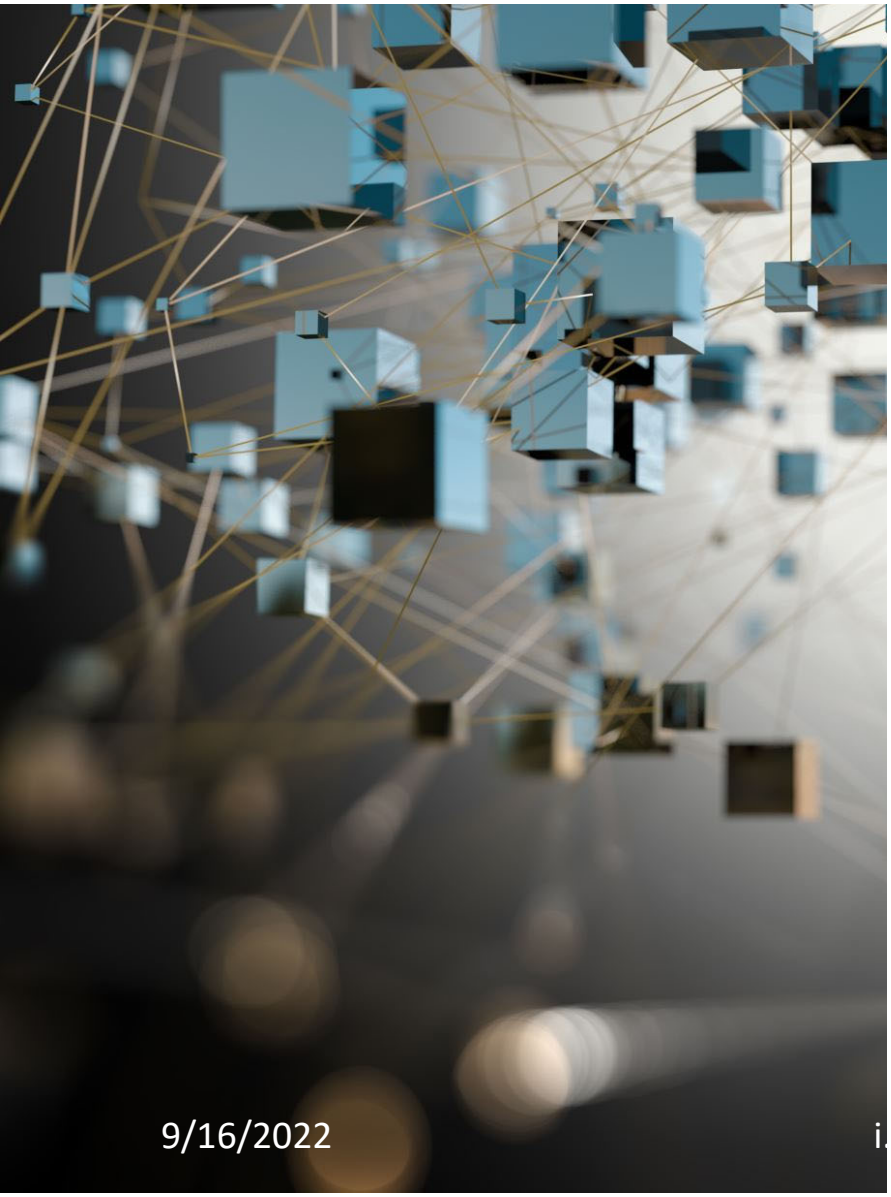
MDSE - Specialization



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-
- **We focus in particular on design and analysis methods of software systems:**
  - Algorithms and Visualization
  - Information Systems
  - ***Model Driven Software Engineering***
    - ***Digital Twins Technology***
  - Security and Embedded Networked Systems

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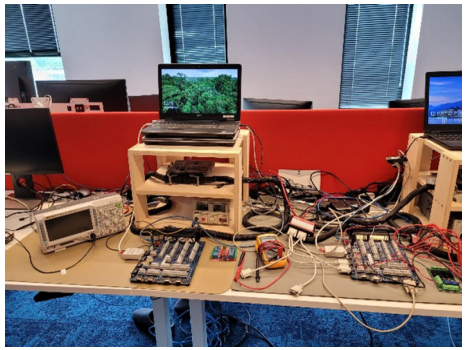
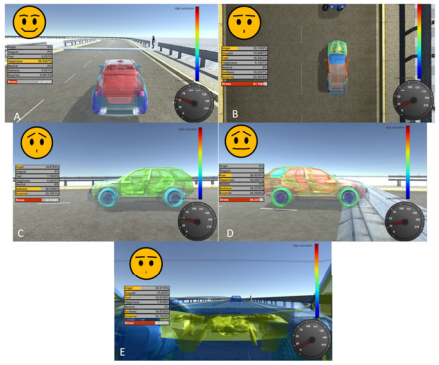
- **Model Driven System Engineering**
  - Automotive
  - Automotive Standards
- **Functional Safety**
- **AUTOSAR**
- **Digital Twin**
  - HIL, SIL, MIL
- **CarE-Model**
  - A vehicle framework based on emotion and awareness
  - Vehicle Personality
  - Integration in the Smart Cities





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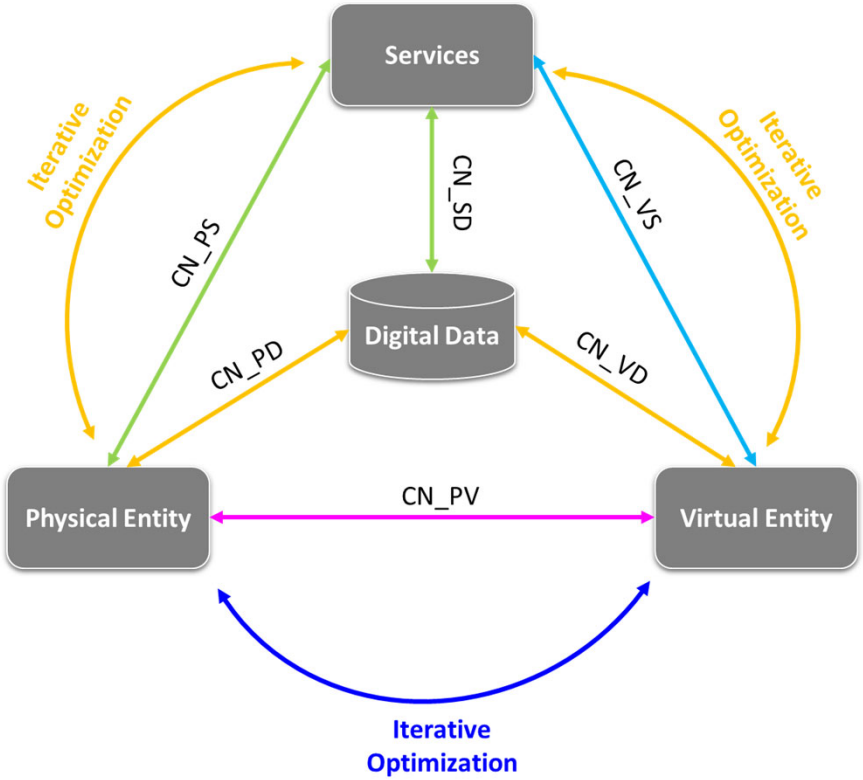

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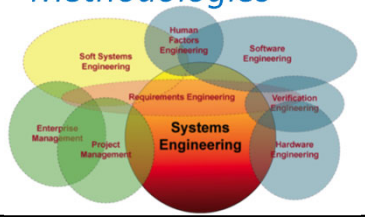
You get an "All Inclusive package"

Holistic Approach

Model Driven Systems Engineering

1. *Understanding the big picture*
2. *Structured approach to system development*
3. *Design Patterns*
4. *Tools – CASE*
5. *Methodologies*



Content

1. **Relevant and Applied Curriculum**
2. **Climate for Creativity and Innovation**
3. **Develop New Skills**
   - ***Collaboration, Heuristic Problem Solving***

Pedagogy

1. **Be Responsible**
2. **Establish great goals for your career/life**
3. **Be Tolerant**
4. **Be Courageous**
5. **Be Joyful**
6. **Be Ambitious (*Will Power*)**
7. **Learn to Smile**

Uhjlvwhu

- Fill in the form for MDSE Graduation
- Select the courses for Graduation

Automated reasoning
Algorithms for model checking
Hardware verification
Capita Selecta FSA
Architecture of Distributed Systems
Internet of things
Real-Time Systems
System Design Engineering
Seminar software engineering and technology
Software specification and architecture
Capita Selecta software engineering and technology
Programming

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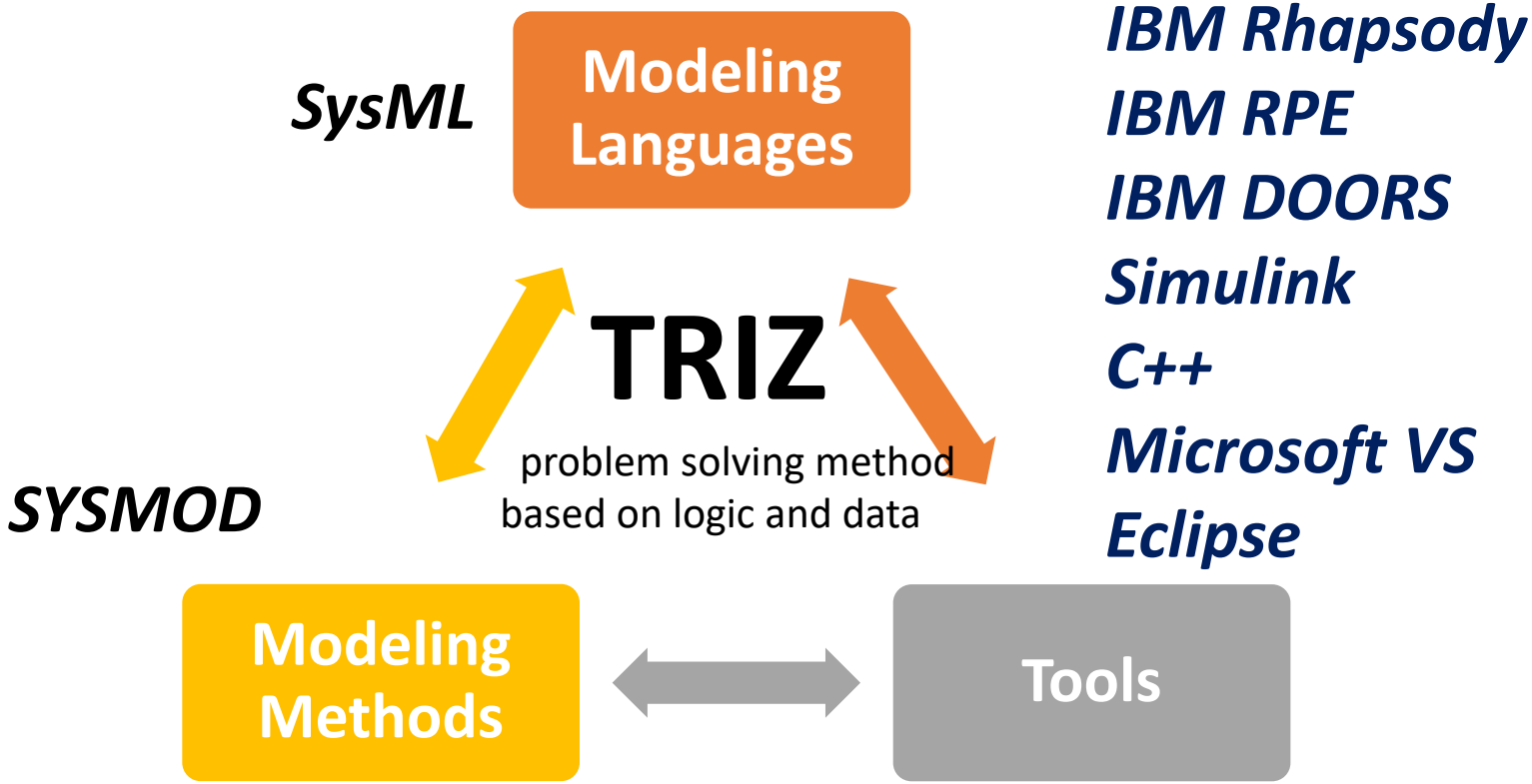

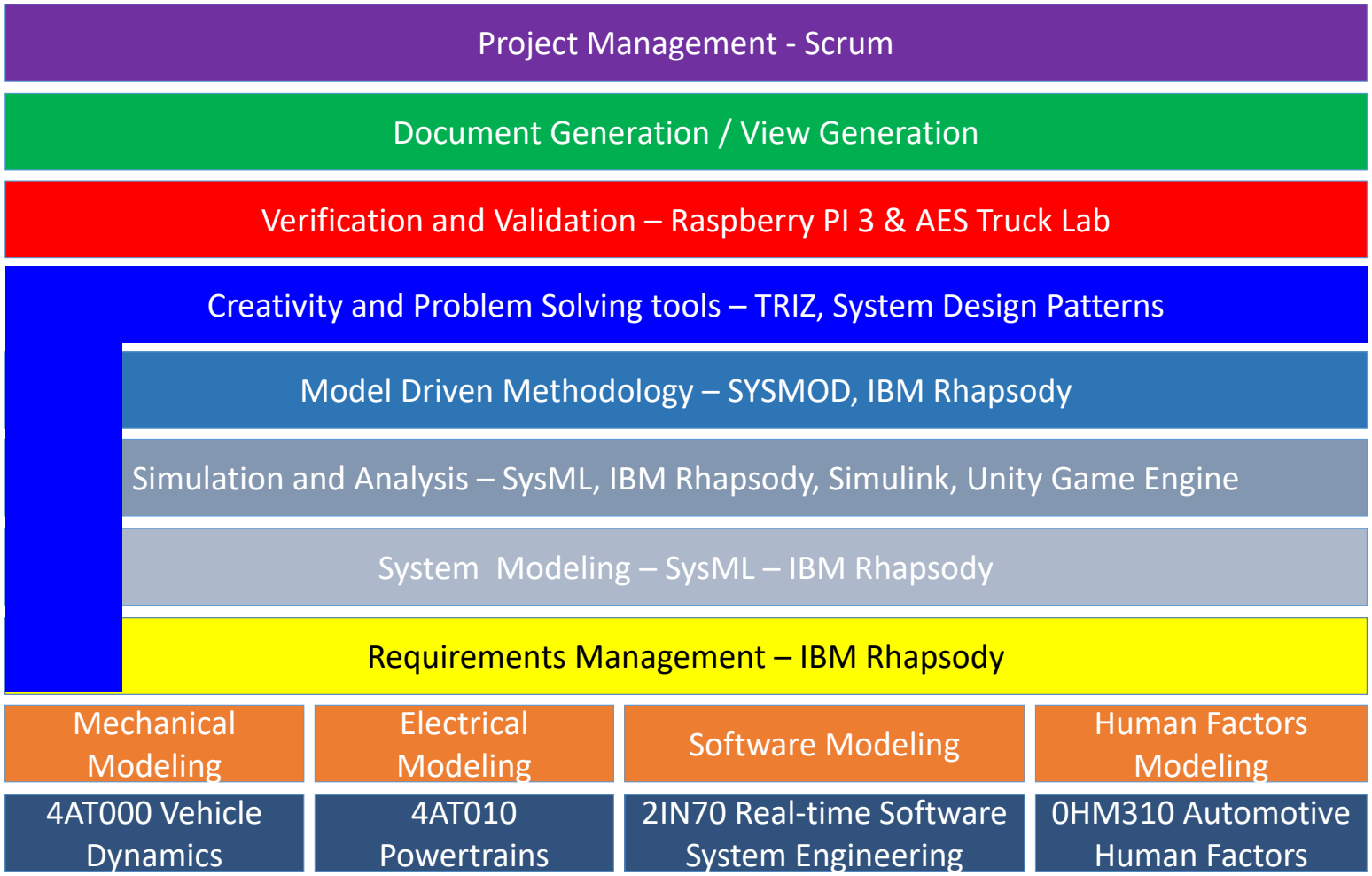

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TruckLab
Reset Simulation

MDSE - Specialization Meeting
Date: 19.09.2002
Time: 15:00
Location: MF6.131

Contact: *i.barosan@tue.nl*