Future vehicle technologies

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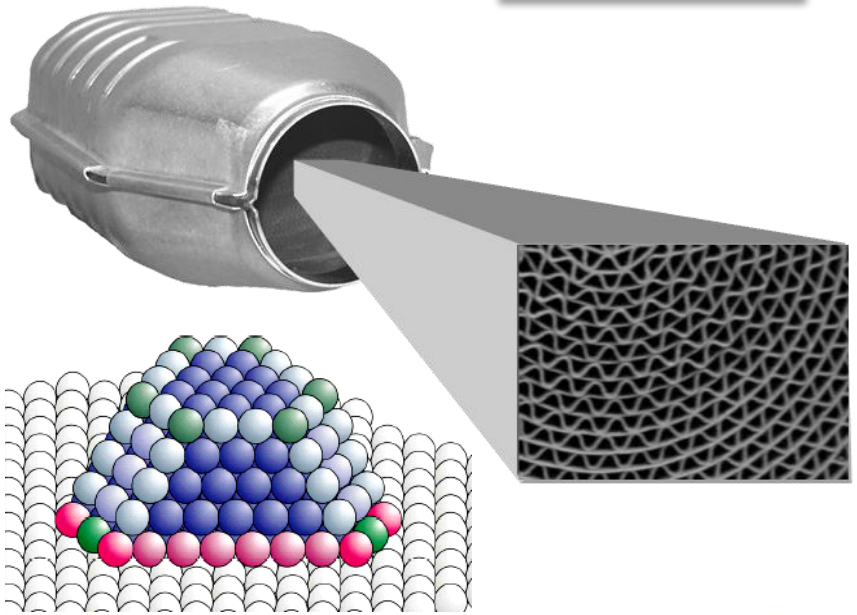
Introduction

Pasi Junell

Education:
- M.Sc (Tech.), Electrical engineering
- D.Sc (Tech.), Surface Science

Work experince:
- Research scientist and part time teacher, Tampere University of Technology (~6 years)
- Principal lecturer, Seinäjoki University of Applied Sciences (~15 years)
- Head of degree program, mechanical engineering

In total:
- Participation in 12 research projects
- 6 journal articles, 13 conference articles, 12 professional articles and 3 editorial memberships



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Future vehicle technologies (FVT)

- Sustainable and intelligent solutions for the transportation of people and goods
- After sales: Maintenance organizations, circular economy, authority interface
- Outdoor robotics: Intelligent mobile work machines and ancillary systems

Future vehicle technologies (FVT)

Sustainable road transport:

- New technology: emission control, propulsion, driving autonomy
- Aftermarket: maintenance, equipment, repair,…
- Circular economy

Work machines:

- Navigation
- Automatic control
- Outdoor automation and robotics

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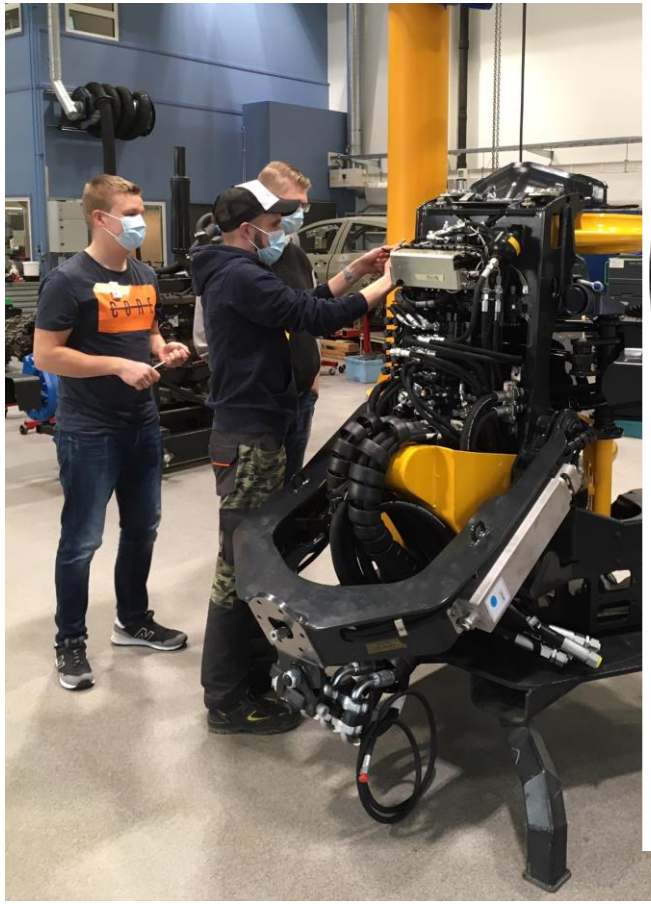

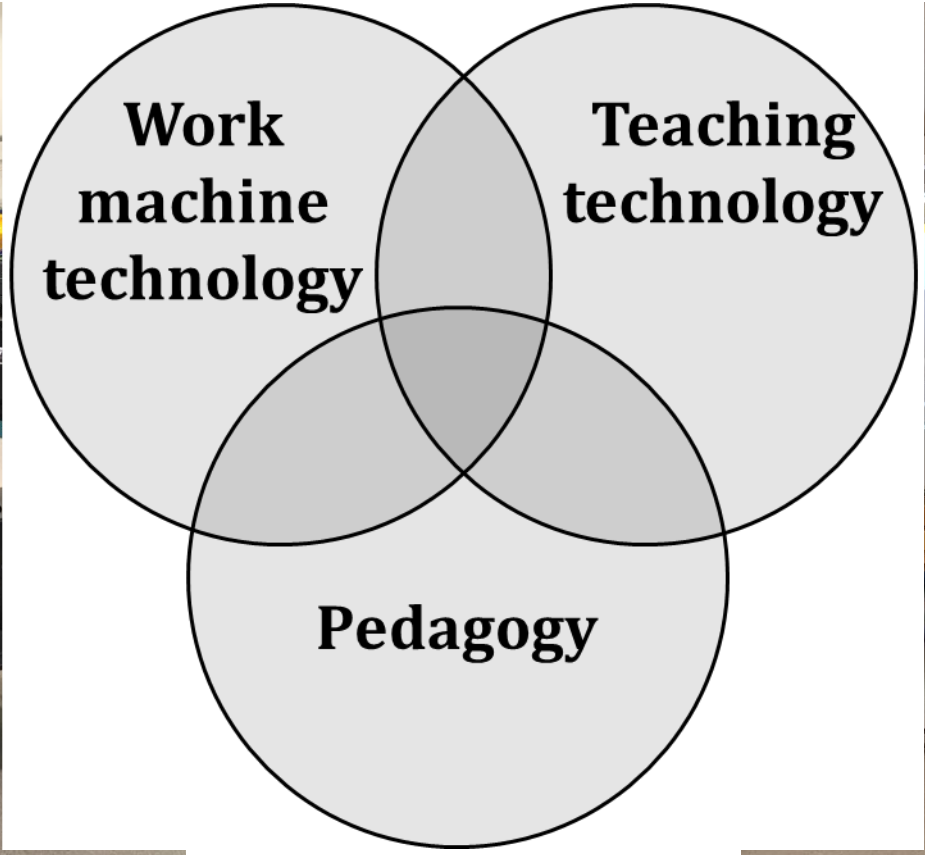

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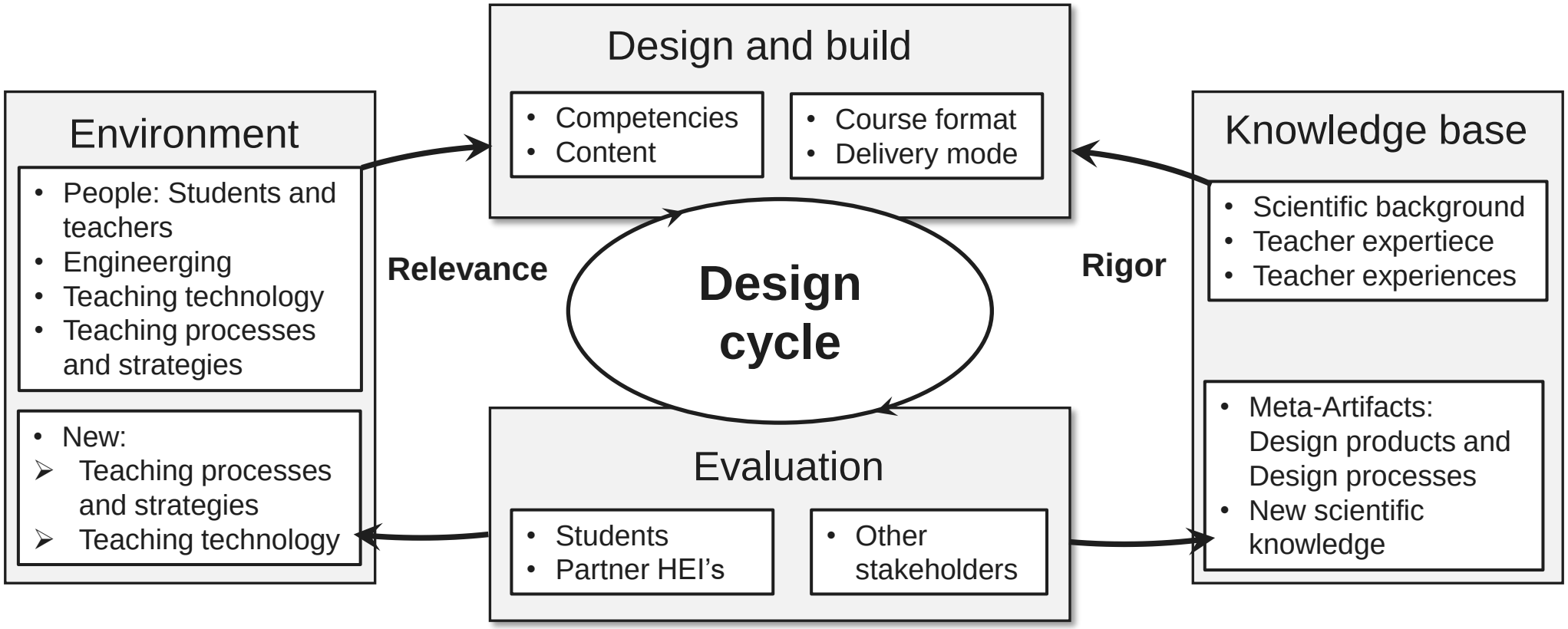
EDR (=Educational Design Research)



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Towards outdoor robotics

- Sensors
- Machine vision
- IoT, Data Analytics
- Machine situational avareness
- Security issues
- Acceptability