
Preview 2015 | 37th AIM Conference in Vienna

“Human Centered Production in Cyber-Physical Production Systems”

Prof. Wilfried Sihm

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Vienna University of Technology

Institute of Management Science

Vienna University of Technology

- Rector: O.Univ.Prof. DI Dr. Sabine Seidler
- Founded in 1815
- Budget: >300 Mio. €
- 8 faculties, 54 institutes, 4.500 employees
- Students: ~ 27.000 (27% international, 26% woman)
- Degree programs: 18 Bachelor, 44 Master
- > 430 first enrolments in Industrial Engineering



Institute of Management Science

- Board: Univ.-Prof. Mag. Dr. Sabine T. Köszegi
- 60 employees
- Industrial and Systems Engineering (Prof. Sihn)
- Ergonomics and Organisation (Prof. Köszegi)
- Financial Management and Controlling (Prof. Schwaiger)
- Property and Facility Management (Prof. Redlein)



Fraunhofer Austria Research GmbH

Linking Science and Industry



TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology



Fraunhofer
AUSTRIA

Division Production and
Logistics Management



Commerce & Industry

Higher
Education

Research

Development

Realisation

Application

Fraunhofer Austria Research GmbH

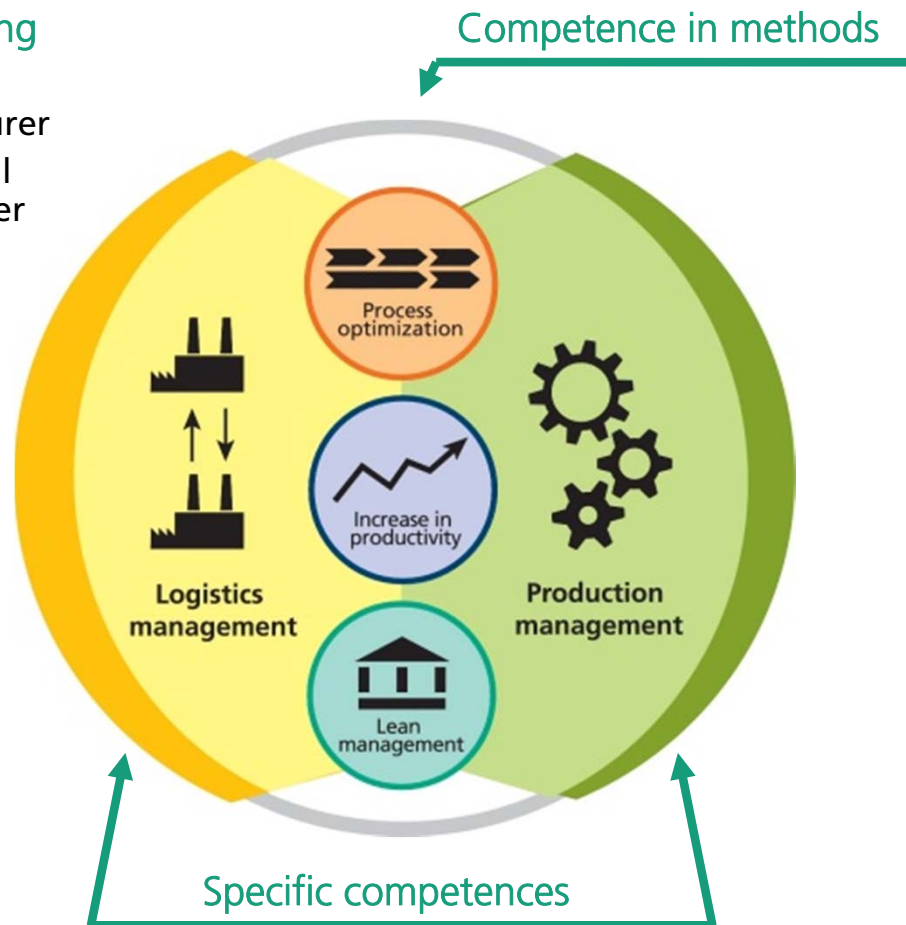
Division Production and Logistics Management

Comprehensive solutions in production and logistics

Tender: Research and consulting of operation management

Competences in following industries:

- Automotive manufacturer
- Vehicle and agricultural machinery manufacturer
- Machinery and plant engineering
- Electronics industry
- Metal industry
- Energy supplier



Managing Director
Fraunhofer Austria

■ Univ.-Prof. Prof. e.h. DI
Dr.-Ing. Dr. h.c. Wilfried Sihn

Division Leader
Production and Logistics
Management:

■ Dipl.-Ing.
Jürgen Minichmayr

Facts | 37th AIM Conference in Vienna

Key Information at a glance

Topic, Venue, Date & Accommodation

- Topic: *Human Centered Production in Cyber-Physical Production Systems*
- Date: 17-20 September 2015
- Venue: Vienna University of Technology
Institute of Management Science
Theresianumgasse 27, 1040 Vienna
- Accommodation: Clima Cityhotel
Theresianumgasse 21a, 1040 Vienna

Planned Side-Program

- Visit of Schönbrunn Palace (palace and park)
- City tour along the famous „Ring Road“
Vienna Opera, Hofburg Palace, Old Townhall ,...
- Visit of a typical Viennese wine tavern („Heuriger“)

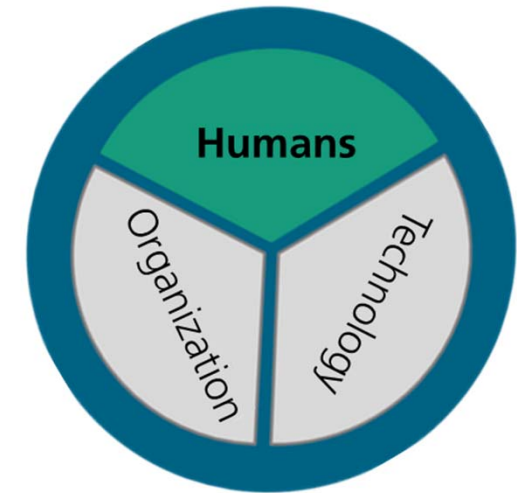


Topic | “Human Centered Production in Cyber-Physical Production Systems”

Humans as central success factor for Industry 4.0

Cyber-Physical Production Systems (CPPS) as „open socio-technical systems“

- collect and analyze information from the environment and adapt to changing contexts or requirements of users.
- enable human-oriented design of working organization, including:
 - demographic and economic challenges,
 - the meaning of self-organization and autonomy,
 - supportive learning work equipment & communicable forms of work,
 - solutions for autonomous resource-efficient and effective optimization

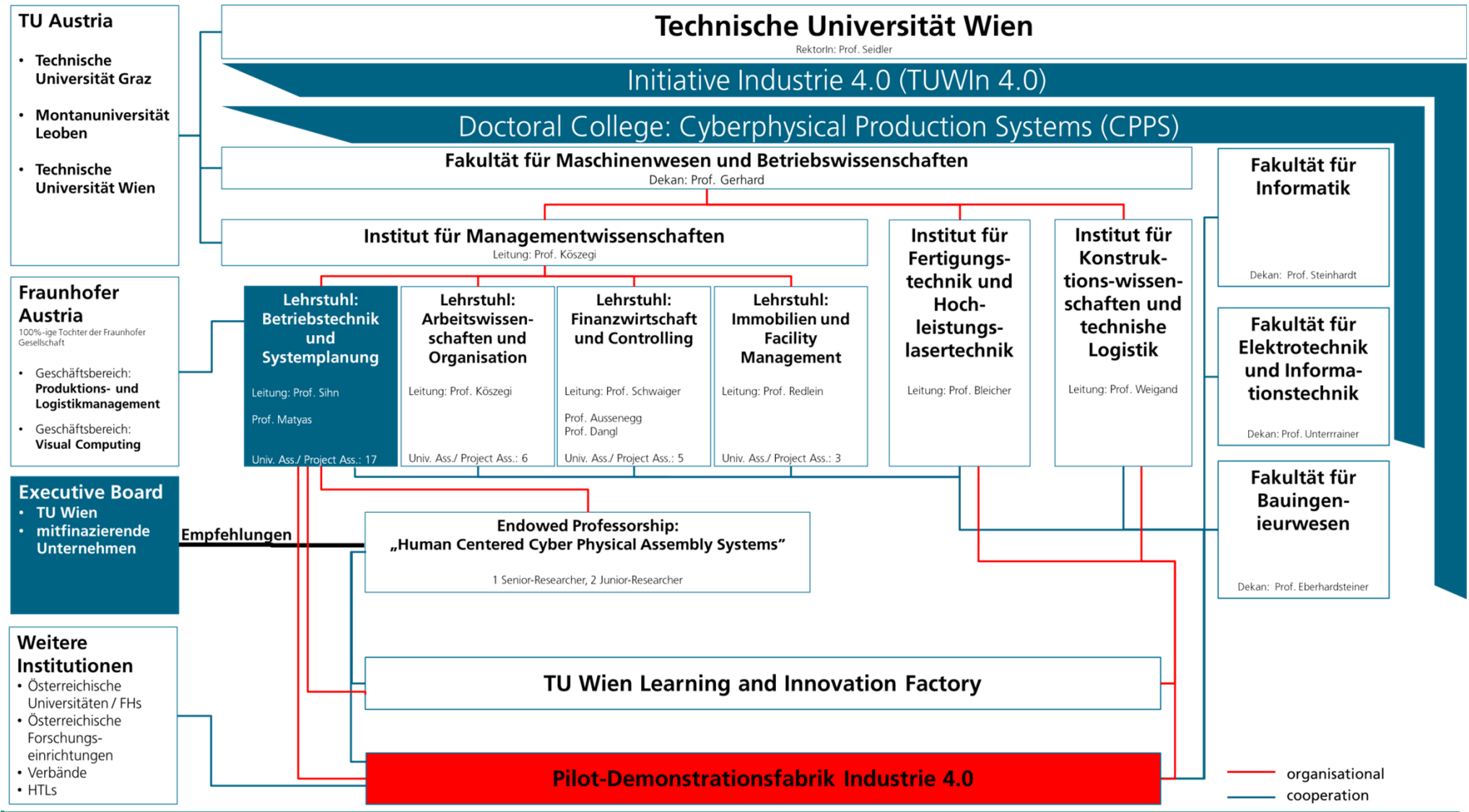


“Learning factories” as a neutral environment to test and validate CPPS

- combine research activities in innovative high performance processes, sensor and actuator integration to manufacturing and new machine tool concepts
- provide training and education to fulfill urgent industrial needs in the areas of advanced manufacturing and integrated manufacturing systems
- enable close collaboration with industry by providing an excellent research infrastructure
- facilitate visibility across all steps of the value added chain

Topic | "Human Centered Production in Cyber-Physical Production Systems"

Interdisciplinary Research at TU Wien



Venue | Vienna

World's most liveable city*

Austria's capital offers a unique blend of imperial traditions and stunning modern architecture. It is famous for its cultural events, imperial sights, coffee houses, cozy wine taverns, and the very special Viennese charm.



*Source: Mercer, Quality of Living Survey

Thank you for your kind attention!

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