

New Service and Life-Cycle Perspective Product(ion)s using Artificial Cognition

Acronym:
PERSPECTIVE
Type: Integrated Project

Tseng Mitchel M., „Industry Development Perspectives“ CIRP, Montreal 2003

PROFACTOR Produktionsforschungs GmbH

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Research for Success

Project Motivation and Scope

- **Impact manufacturing:** Eurostat Yearbook 2005:
 - 41.5% (=€1535 Billion) Value Creation 30.4% (=34 Million) Jobs
- **Cross sectoral (>20!) transformation of (manufacturing) Industry**
 - By New Business Models
 - By Life Cycle Orientation
 - By Service Dimension and Extended Products a.s.o.
- **Target: Beyond Production**
 - From extreme customization to service component
- **Contribution of this IP**
 - Technol. breakthrough in CBMs (n. levels of autonomy/cooperat.)
 - Adaptive/Autonomous equipm. w. robust cognition where needed
 - Extending technology base that Europe leads
- **Prove of concept**
 - Application confidential
 - Methaphor application: cooperative human-robot car repair

Project Team & Partnership

➤ Current team/partnership:

- 3 companies
- PROFACTOR+ VTT
- 1 University

➤ Team Extension

- **Allready covered:** Robotics, sensing, recognition, interpretation, control, autonomy, automated planning, PbD, compliance, low-level skill learning,...
- **More expertise seeked:** Artificial cognition, open ended learning, acquiring and “understanding” high-level task/application models/knowledge, intention intepretation
- -> 2-4 Academic Institutions

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