eScop
Knowledge-Driven Manufacturing

Sari Räsänen, Project Manager, Tampere University of Technology
10 & 11 March, 2015, Berlin, Germany
Open Knowledge-Driven Manufacturing Execution System

- To increase competitiveness and productivity
- To produce more diverse, customized products
Key Benefits

- Reduce time and cost for realizing or updating production systems solutions
- Flexible re-configuration and knowledge update of equipment
- Fast new product introductions
  - short product life cycles without the need the total restructuring of the production system
Technological innovations - Project Solution

- Ontology-based knowledge Management
- Service-oriented architecture
- Embedded devices
Market innovations

- Production of more diverse, customized products → Faster response to market needs

- New business models: manufacturing as a service
Next Steps

- Verification and validation of eScop components
- Evaluation of business models
- Implementation of eScop solution
  - FluidHouse Oy, Finland: 2016
  - INCAS Group, Italy: 2016
Thank you for your attention!

Sari Räsänen, sari.rasanen@tut.fi
www.escop-project.eu

Speaker Corner Ocean, at 14:00

Industrial Internet: A Facilitator for Knowledge-Driven Manufacturing