

**TAILOR**

Funded by the  
ICT-48



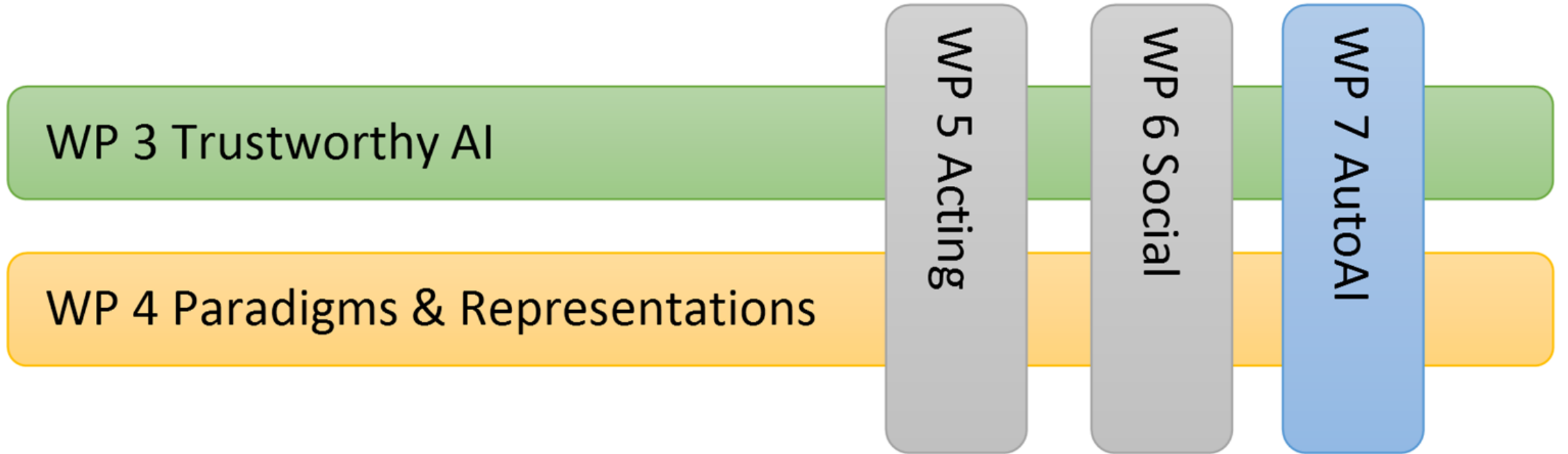
# TAILOR ICT-48 Network

Foundations of  
Trustworthy AI  
integrating Learning,  
Optimisation and  
Reasoning

**Fredrik Heintz**  
**Linköping University, Sweden**

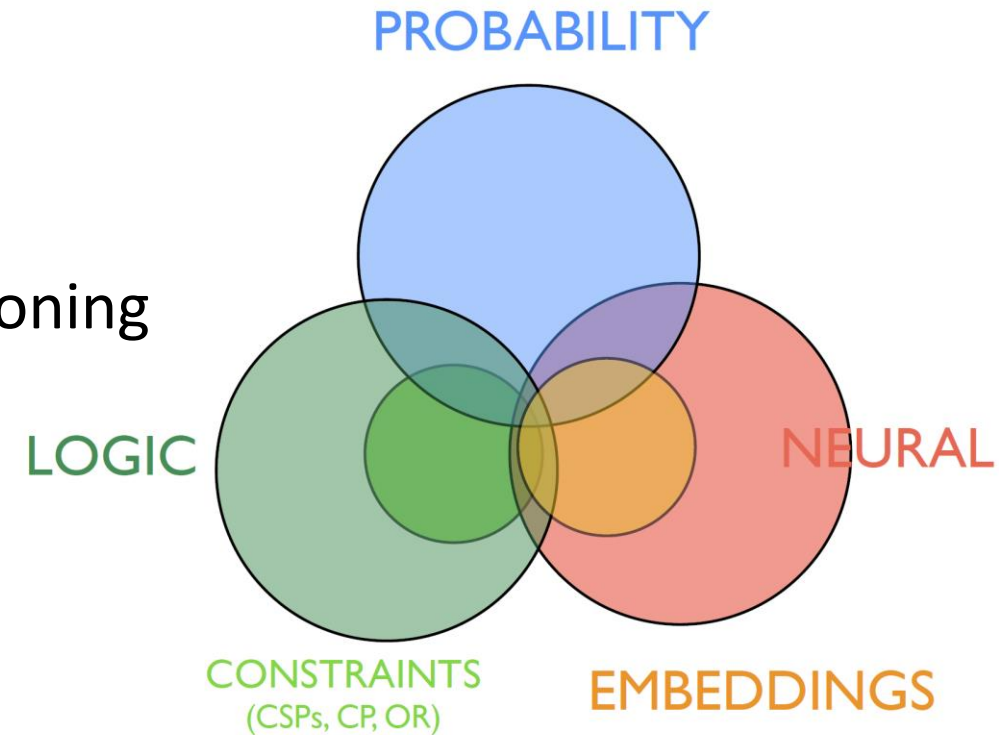
Develop the scientific  
foundations for **Trustworthy AI**  
integrating learning, optimisation  
and reasoning.

# Basic Research Program



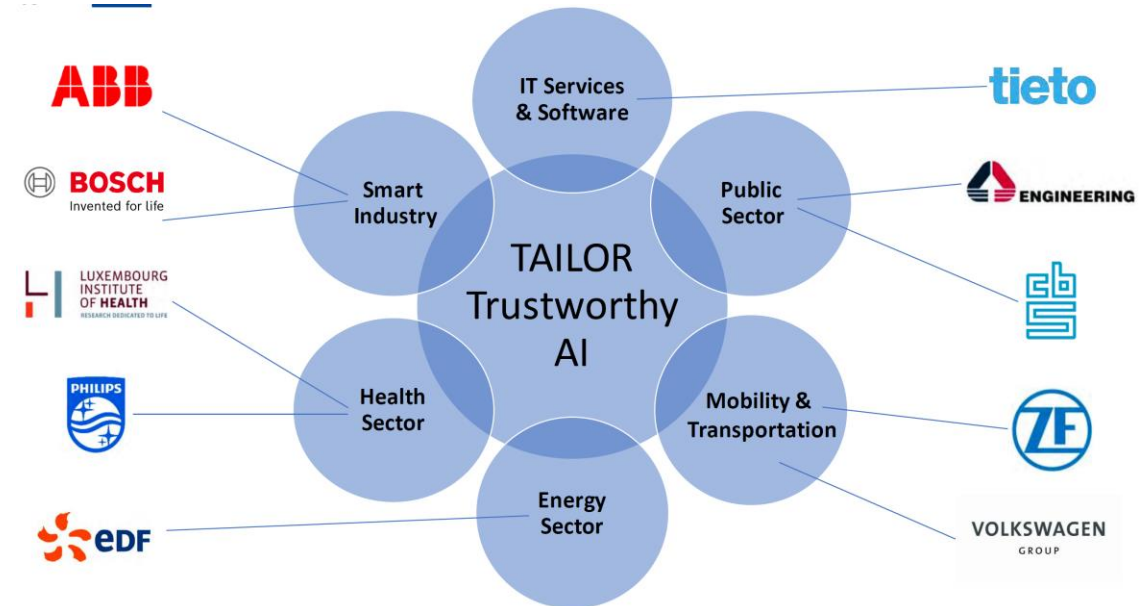
# Most important topics

- Trustworthy AI
- Machine Learning
- Knowledge representation and Reasoning
- Planning and Scheduling
- Integration of learning, optimization and reasoning
- Multi-Agent Systems
- Human-Machine Collaboration
- Natural Language Processing
- Robotics
- AutoML / AutoAI



# Important Application Areas

- Efficient and safe transportation
- Advanced healthcare
- Smart industry (production, services, logistics, ...)
- Effective and sustainable agriculture
- Next-generation learning and education
- Energy (production, storage, distribution, management, ...)
- Environment (protection, monitoring, management, ...)
- Accelerated scientific research
- Financial markets and services (incl. fintech)
- Public sector and citizen services (incl. govtech)
- Media and entertainment
- Safety and security



# What Topics are Missing?

- **Trustworthy AI**
- *Machine Learning*
- *Knowledge representation and Reasoning*
- *Integration of learning, optimization and reasoning*
- **Multi-Agent Systems**
- **Human-Machine Collaboration**
- **Natural Language Processing**
- **Robotics**
- **AutoML / AutoAI**

