The JIAC V Framework

JIAC (Java-based Intelligent Agent Componentware) is a standard based agent development framework that is actively developed under the premise to

- cover a wide spectrum of requirements and to further the industrial adoption process
- integrate intelligent agents with the Service Oriented Architecture (SOA) paradigm
- feature a methodology, a toolchain and a powerful management infrastructure
- provide reliable distribution, communication and interaction among large groups of agents

Example Project: EnEffCo

The EnEffCo software is an exemplary JIAC V application that was successfully used in an industrial context, namely, the automotive industry. Its main objective is the optimisation of manufacturing processes w.r.t. variable energy costs. It is designed as a distributed system consisting of:

- Process Editor
- Optimisation Clients
- Optimisation Servers
- Database
- Web Frontend

The Bigger Picture

- generic optimisation algorithms and meta model allow for use in other domains
- scheduling of many kinds of energy-related processes w.r.t. energy costs, availability of renewable energy sources, etc.
- currently adapted to electric vehicle charging and smart grid control

References
