



Process Oriented Knowledge Engineering

Domain-Specific AI Governance in Manufacturing



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BOC Products & Services AG – Company Profile

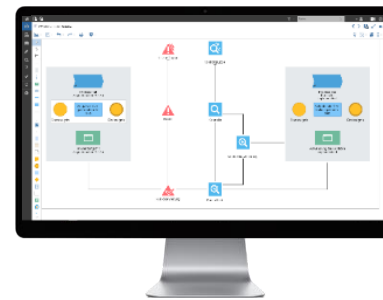
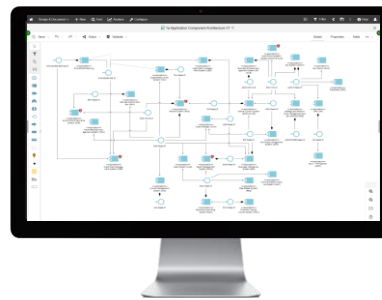
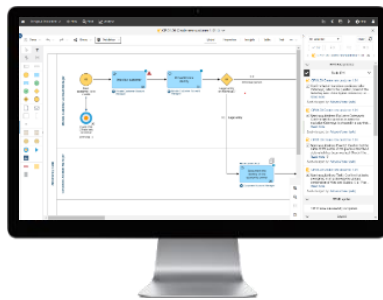


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BOC emerged 1995 as a Spin-off of the University of Vienna and develops Modelling Software for

- „**Operational Excellence**“ supporting Business Process Management ([ADONIS](#)),
- „**Leverage Technology**“ supporting Enterprise Architecture Management ([ADOIT](#)) and
- „**Secure Business**“ supporting Governance Risks and Compliance Management ([ADOGRC](#)).

*The combination of **Meta-Modelling, Knowledge, Connectivity** and **AI** enables trustworthy and domain-specific decision support.*



1.900+ customers
275.000+ users worldwide
12.000+ customer-projects
40+ EU-projects
300+ employees
located in Athens, Berlin, Dublin, Madrid, Paris, Vienna, Warsaw, Winterthur
90+ partners around the globe
considered as leader by Gartner and Forrester

Governing the AI Integration in Manufacturing

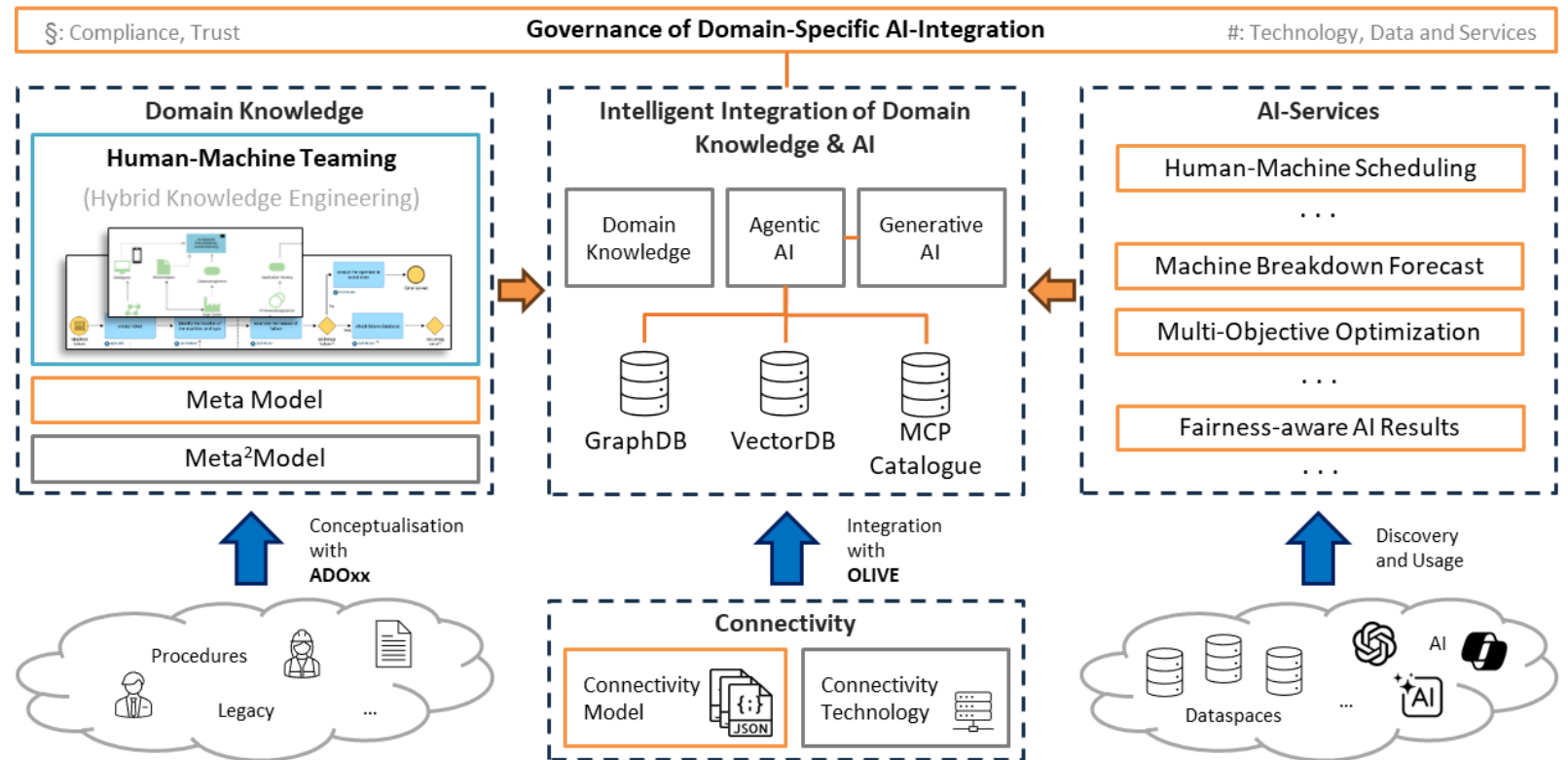
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Calls of Interest 2026: DE-02, DE-03, DE-51, DE-53, DE-09, DATA-06, HUMAN-01 and HUMAN-02

Calls of Interest 2027: DE-52, DE-05 and DATA-03

BOC Research Ideas:

- **Domain-specific knowledge** using graphical concept model to support human and machine teaming.
- **AI-Services** that are discovered and used in a domain-specific manner.
- **Integration of AI and domain-specific knowledge** using graphical concept representation, generative approaches and agentic AI.
- **Governance of domain-specific AI integration** using connectivity models to enable intelligent integration of domain knowledge and AI.



Searching for Partners

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- ▶ **Use case partners and end users** from manufacturing, process, and critical industries with operational, circularity and sustainability challenges, for example:
 - ▶ **Discrete manufacturing:** automotive, electronics & PCBA, white goods, machinery, industrial equipment
 - ▶ **Process industries:** chemical & pharmaceutical production, metallurgical & materials processing
 - ▶ **Critical infrastructure:** refineries, mining and raw material extraction

- **Organisations (research & technology)** interested for Horizon Europe and/or Digital Europe Programme
 - with competences e.g. in AI and data analytics for sustainability and efficiency, Knowledge Graphs, LLMs and Agentics
 - crazy ideas welcome

- Any other potential partners or consortia interested in research collaborations are invited to get in touch!

Scientific and Technological Expertise



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Selected Success Stories and Certifications



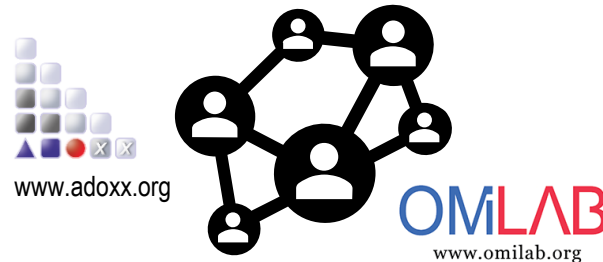
Selected Publications



Selected Projects from 30 Years of Research in National and International Initiatives



Industrial OMiLAB Innovation Corner at BOC Vienna in Austria



Communities and Partner Networks



Events and Conference Participations