



Process Oriented Knowledge Engineering

Domain-Specific AI Governance in Disaster Resilience and Cybersecurity



Anna Sumereder

anna.sumereder@boc-group.com



Robert Woitsch

robert.woitsch@boc-group.com

BOC Products & Services AG – Company Profile

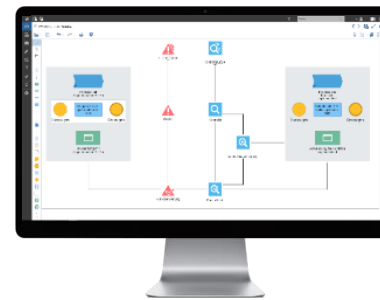
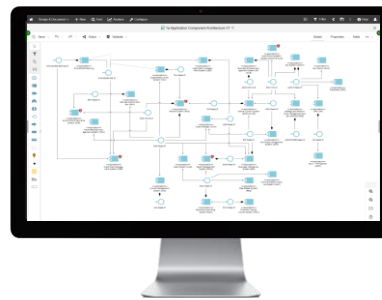
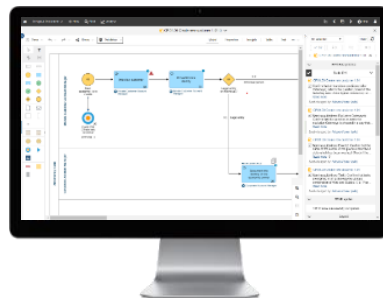


Contacts – Dr. Robert Woitsch (robert.woitsch@voc-group.com), Anna Sumereder (anna.sumereder@voc-group.com)

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

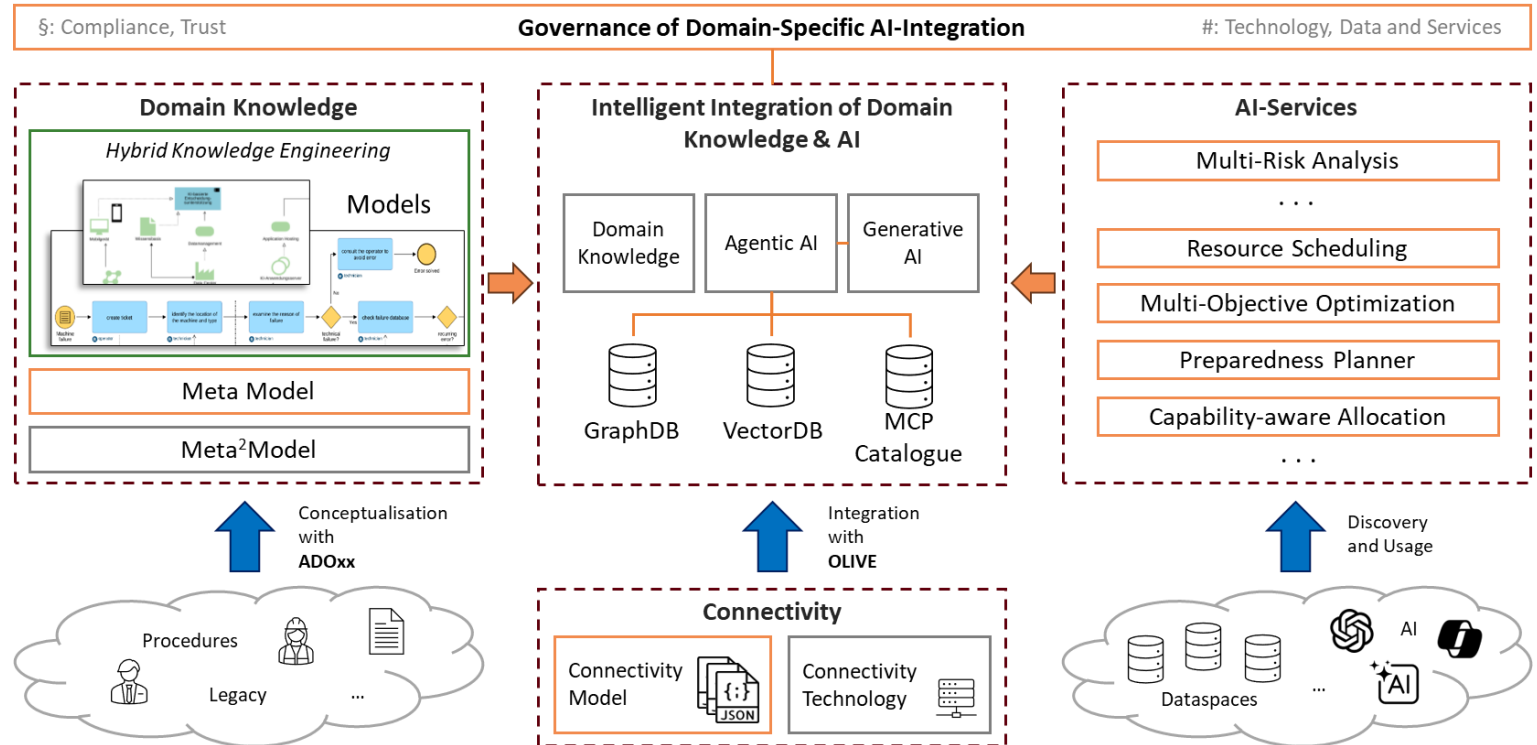
Governing the AI Integration in DRS & CS

Contacts – Dr. Robert Woitsch (robert.woitsch@voc-group.com), Anna Sumereder (anna.sumereder@voc-group.com)

Related Calls of Interest: DRS-01, DRS-02, DRS-03, DRS-04, DRS-05 and CS-01, CS-02

Related Research Ideas:

- ▶ **Domain-specific knowledge** using graphical concept model to support hybrid knowledge engineering.
- ▶ **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



Contacts – Dr. Robert Woitsch (robert.woitsch@voc-group.com), Anna Sumereder (anna.sumereder@voc-group.com)

- ▶ **Use case partners and end users with relevant challenges**
 - ▶ such as emergency response organizations, firefighters, police, ... for DRS
 - ▶ such as critical infrastructure providers, utility services, Security Operation Centers (SOC), Computer Security Incident Response Team (CSIRT), cross-country/cross-border organizations, ... for CS

- ▶ Other relevant partners within the **European Society**
 - ▶ such as regional and/or local authorities and/or communities, voluntary organizations, Non-Governmental Organizations (NGOs), Civil Society Organisations (CSOs), general public (enhanced citizens, local-decision makers), ...

- ▶ **Regulatory experts and/or authorities** for relevant regulations, standards or policies
 - ▶ such as AI Act, GDPR, NIS2 Directive, Cyber Resilience Act (CRA), Environmental-Social-Governance Reporting (ESG), ...

However, also any other potential partners interested in research collaborations are welcome to get in touch!

Scientific and Technological Expertise



Contacts – Dr. Robert Woitsch (robert.woitsch@voc-group.com), Anna Sumereder (anna.sumereder@voc-group.com)



Selected Success Stories and Certifications



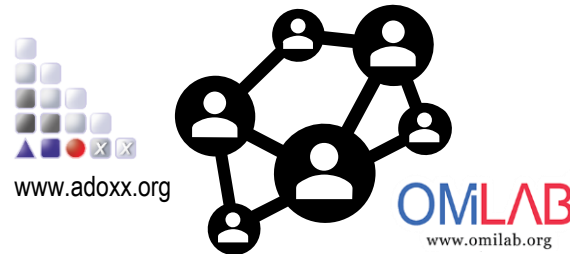
Selected Publications



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