Institute for Data, Process and Knowledge Management
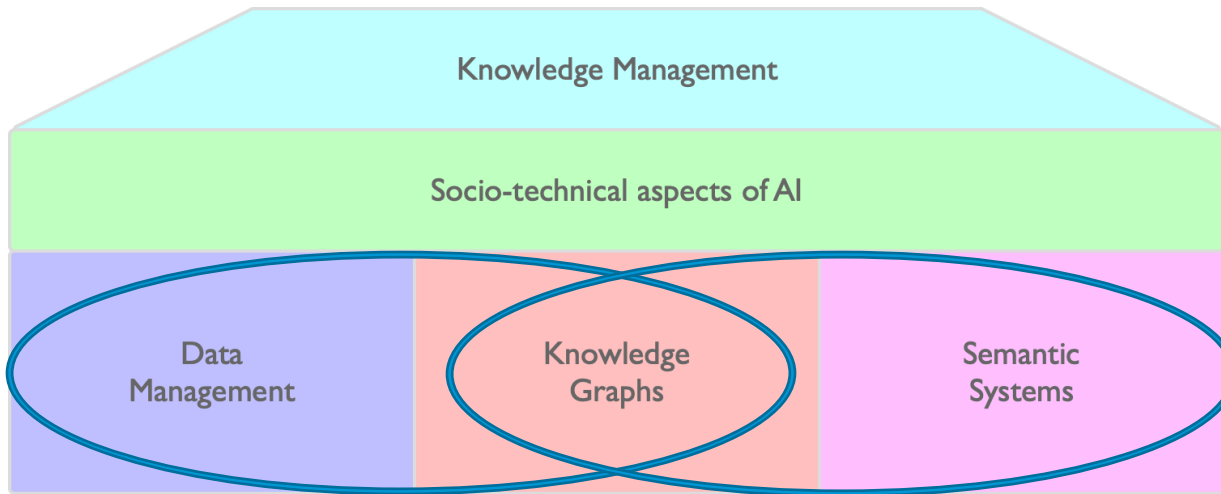
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www.wu.ac.at/dpkm

DPKM – at a glance

Division for Knowledge Management

| Knowledge Management |
| Socio-technical aspects of AI |

| Data Management | Knowledge Graphs | Semantic Systems |

Data Management Group
(Axel Polleres)

Semantic Systems Group
(Marta Sabou)

AI areas of interest:

| Hybrid AI Systems |
| Digital Humanism and AI |
| AI for Engineering |
| AI for Data Ecosystems/ Data Ecosystems for AI |

DPKM/SemSys

Research Communities

Machine Learning

SEMANTIC SYSTEMS

Semantic Web

Human Computation

Research Topics

- Auditable SWeML Systems
- SWeML-based System Explainability
- Knowledge Infusion for ML (DL) - **new!**
- HC for KG Quality Improvement
- Exploratory Search Systems

Research Projects

- Horizon Europe PERKS (2023-2026)
- Siemens ORE (2022-2023)
- FFG SENSE (2023-2025)
- FWF HoNEST (2020-2025)
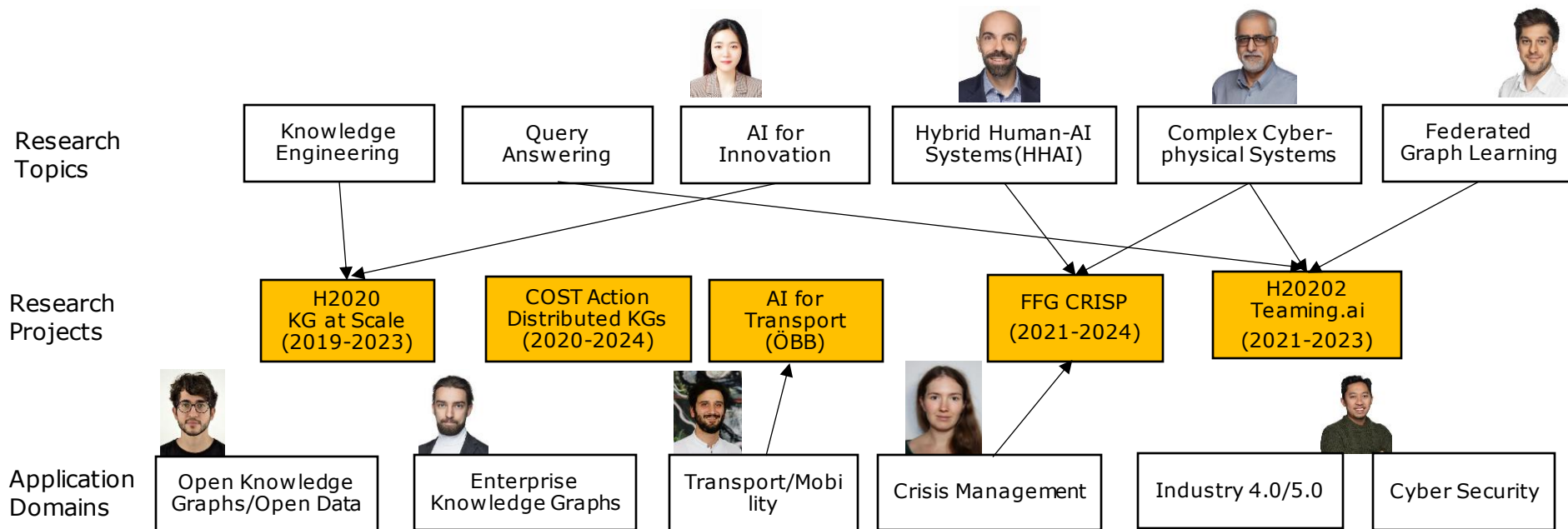- H2020 OntoTrans (2020-2024)

Application Domains

- Manufacturing
- Engineering
- Smart Energy Grid
- Material Engineering

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DPKM/Data Management Group:

Research Topics

| Knowledge Engineering | Query Answering | AI for Innovation | Hybrid Human-AI Systems(HHAI) | Complex Cyber-physical Systems | Federated Graph Learning |

Research Projects

| H2020 KG at Scale (2019-2023) | COST Action Distributed KGs (2020-2024) | AI for Transport (ÖBB) | FFG CRISP (2021-2024) | H20202 Teaming.ai (2021-2023) |

Application Domains

| Open Knowledge Graphs/Open Data | Enterprise Knowledge Graphs | Transport/Mobility | Crisis Management | Industry 4.0/5.0 | Cyber Security |

Thanks for your attention!