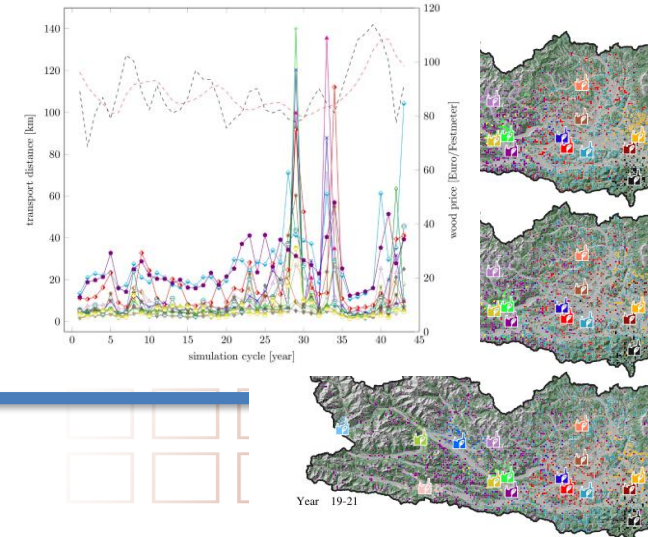


# Geoinformatics, Geo-Semantics & GeoAI for Smart Manufacturing



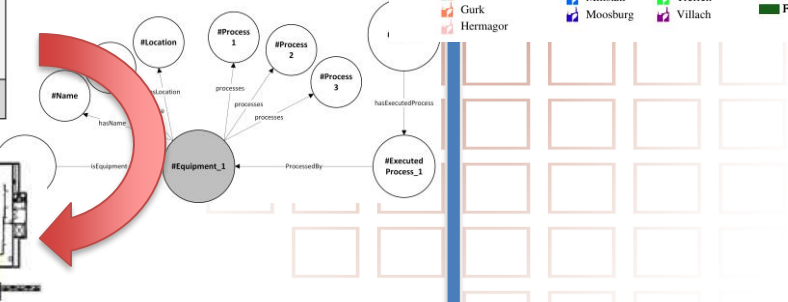
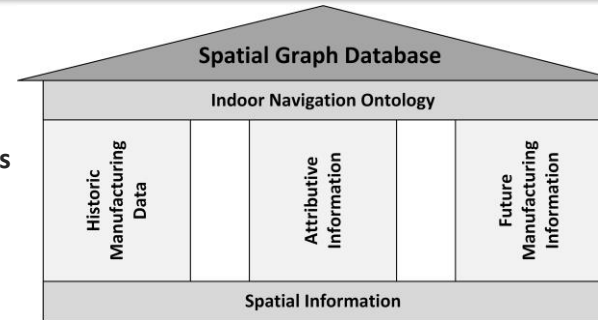
## Research Focus of Research Group Geoinformation

- Geospatial Artificial Intelligence
- Geo-Semantics
- Geographic Information Systems and Geo-IT
- Indoor Geoinformation
- Integration Geoinformation || Smart Manufacturing Systems (together with *National Institute on Standards and Technology - US Gov.*)



## Offering for Research Projects

- Geo-Knowledge Graphs for Data Integration & Analysis
- Analysis of **Spatio-temporal patterns (indoor and outdoor)** of e.g. supply chains
- Geo-semantic analysis of big data sets, for e.g.
  - Incident analysis
  - Bottleneck analysis
  - Supply chain monitoring and optimization
- Spatial **Agent-based Modeling and Simulation** with cognitive Agents for indoor production simulation
- Integration with **Extended Reality (XR) applications** – i.e. AR/MR/VR (collaboration with US National Institute of Standards and Technology)



## References

- Several projects (PhD, MSc) with Austrian Semiconductors, Timber Supply Chain, Agriculture
- Johannes Scholz was PI in FFG funded project „ASSIST 4.0“
- Several international publications

■ FFG - Big Data in der Produktion :: July 2021

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