

COMET-MODUL

DDIA – DATA-DRIVEN IMMERSIVE ANALYTICS

Main location: Graz (Styria)

Other locations: none

Thematic area: Digitalization/ICT



Thematic focuses

- Immersive visualizations of digital twin data
- Embodied interaction with data visualizations in space
- Understanding digital twin through immersive analytics

Planned realisation and outcomes

This project builds new computational methods for immersive analytics, relying on i) data originating from a physical entity through a digital twin, ii) data originating in the user obtained with physiological sensors, and iii) data originating in the immersive experience, so called traces, recorded with software sensors. In a nutshell, the challenges we aim to address include how to present and interact with immersive data views, what physiological traits lead to perceptual optimization and personalization, and how to use traces of interactions in the environment to create recommendations and tutorials.

The ultimate goal is to offer personalized experience of data and analytics anchored in the real-world for individual participant or in collaboration with peers locally or remotely.

COMET FACTSHEET

Selected company partners (max. 10):

1. Imerys Talc Austria GmbH
2. Siemens AG (Germany)
3. Alphagate GmbH
4. Andritz AG

Selected scientific partners (max. 5):

1. Graz University of Technology, Institute for Computer Graphics and Vision
2. Graz University of Technology, Institute for Interactive Systems and Data Science
3. Graz University of Technology, Institute of Computer Graphics and Knowledge Visualization
4. Graz University of Technology, Institute of Neural Engineering

Selected international¹ partners (max. 5):

1. University of Konstanz, Datenanalyse und Visualisierung, Informatik und Informationswissenschaft
2. Stuttgart University, Visualization Research Center
3. Bohn-Rhein-Sieg University of Applied Sciences, Institute of Visual Computing

Duration: 01.01.2022 - 31.12.2025 (4 years)

Staff employment: 7 FTE, thereof 6 scientists

Management: Univ.-Prof. Dr.techn. MSc Eduardo Veas

Contact: Know-Center GmbH
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www.ffg.at/comet

¹ Partners with headquarters outside Austria