

## COMET PROJECT

### [N!CA – DIGITALISATION OF INNOVATIVE CARE PROCESSES TO UNBURDEN AND EMPOWER NURSES]

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**Main location:** Graz (Styria)

**Other locations:** none

**Thematic area:** Life sciences

(according to [www.ffg.at/comet/netzwerk](http://www.ffg.at/comet/netzwerk))

#### Thematic focuses

- Investigate the potential of unburdening nurses by re-thinking and re-designing current nursing processes
- Develop multiple new and innovative AI (Artificial Intelligence) models based on Real World Data (RWD)
- Empower nurses regarding their professional skills by developing evidence-based digital decision support

#### Planned realisation and outcomes

The main aim of N!CA is to relieve the burden on nursing staff by optimizing nursing processes and reducing the amount of documentation required and to enable evidence-based decision-making by providing new tools. This should lead to an increase in the job satisfaction of nursing staff and the length of time spent in the nursing profession. Digital solutions for patient engagement, decision support systems for diabetes discharge management and patient self-management are being investigated for feasibility and a decision support system for pain management is being designed. A standardized data format will be developed to create the technical basis for the cross-sectoral use of RWD to develop and validate AI models for personalized risk prediction, semi-automated care assessments and the classification of the need for care through the use of federated learning. The AI models will be evaluated in terms of performance, trustworthiness and usability.

## COMET FACTSHEET

### **Selected company partners** (max. 10):

1. decide Clinical Software GmbH
2. Gepflegt Wohnen Thal GmbH
3. ilvi GmbH
4. Predicting Health GmbH
5. Steiermärkische Krankenanstaltengesellschaft mbH

### **Selected scientific partners** (max. 5):

1. Medical University of Graz
2. Joanneum Research Forschungsgesellschaft mbH
3. FH Upper Austria in Hagenberg - Department of Medical and Bioinformatics
4. Umit Tirol – Institute of Medical Informatics
5. University of Vienna

### **Selected international<sup>1</sup> partners** (max. 5):

1. Vetterli, Roth & Partners

<b>Duration:</b>	01.03.2024 bis 29.02.2028 (4 years)
<b>Staff employment:</b>	6 FTE, thereof 30 scientists
<b>Management:</b>	Dr. Katharina Lichtenegger BSc, MSc, Projektleitung
<b>Contact:</b>	Medical University of Graz Auenbruggerplatz 15, 8036 Graz +43 316 385 72766 katharina.lichtenegger@medunigraz.at Website

Status 12.02.2024

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[www.ffg.at/comet](http://www.ffg.at/comet)

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<sup>1</sup> Partners with headquarters outside Austria