## **COMET FACTSHEET**



# **COMET PROJECT**

[DIMO-NEXT - NEXT LEVEL OF DIGITAL MOTION IN SPORTS, FITNESS AND WELL-BEING]

Main location: Salzburg (Salzburg)

Other locations: No

Thematic area: Digitalization | ICT

(according to <a href="www.ffg.at/comet/netzwerk">www.ffg.at/comet/netzwerk</a>)



#### Thematic focuses

- Human Motion Analytics
- On-body sensor networks
- Feedback learning
- Human Computer Interaction
- Smart textiles and printed electronics

## Planned realisation and outcomes

The research program addresses three major topics in the field of motion data analysis, with the aim of improving fitness and well-being as well as long-term physical and mental performance in everyday movement, recreational sports and competitive athletes. In addition, DiMo-NEXT focuses on injury prevention and guided movement with prostheses and exoskeletons to promote digitally supported guided movement. DiMo-NEXT comprises the following research areas: (1) Analysis of human movement behavior with a focus on everyday movement habits, endurance & performance training & development of novel interaction concepts for users during exercise (unobtrusive user experience during activity) (2) Development of sensor and actuator systems with a focus on smart textiles and printed electronics for the detection of human movement and vital parameters (3) Analysis of movement data (from DiMo-NEXT prototypes and available wearable technologies).



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# Selected company partners (max. 10):

- 1. Atomic Austria GmbH, AT
- 2. Datwyler, CH
- 3. Infineon Technologies Austria AG, AT
- 4. KARL MAYER STOLL R&D GmbH, DE
- 5. Pierer Innovation GmbH, AT
- 6. sanSirro GmbH, AT
- 7. Saphenus Medical Technology GmbH, AT
- 8. UNIQA Österreich Versicherungen AG, AT
- 9. WINTERSTEIGER AG, AT
- 10. Zanier-Sport Gesellschaft m.b.H., AT

# Selected scientific partners (max. 5):

- 1. Salzburg Research Forschungsgesellschaft mbH, AT
- 2. Universität Salzburg, Interfakultärer Bereich Sport- und Bewegungswissenschaft, AT
- 3. Universität Salzburg, Human Center of Interaction, AT
- 4. JOANNEUM RESEARCH Forschungsgesellschaft mbH, AT
- 5. Linz Center of Mechatronics GmbH, AT

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

- 1. adidas AG, DE
- 2. École Polytechnique Fédérale de Lausanne, FR
- 3. Department of Textile Technology / Swedish School of Textiles University of Borås, SE
- 4. Human Physiology and Sports Physiotherapy research group (MFYS) Vrije Universiteit Brussel, BE
- 5. University of Strasbourg, FR

**Duration:** 01.04.2024 to 31.03.2028 (4 years)

**Staff employment:** 45 project employees, thereof 10 PhDs + 2 Post-Docs

Management: Univ.-Doz. Dr. Siegfried Reich, managing director

DI(FH) Elisabeth Häusler, project lead

Contact: Salzburg Research Forschungsgesellschaft mbH

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<sup>&</sup>lt;sup>1</sup> Partners with headquarters outside Austria