

## COMET PROJECT

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

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**Main location:** Salzburg (Salzburg)

**Other locations:** No

**Thematic area:** Digitalization | ICT

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



#### 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).

## COMET FACTSHEET

### 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. Tyromotion GmbH, 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
- 6.

**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  
DJ<sup>in</sup>(FH) Dr.<sup>in</sup> Elisabeth Häusler, project lead

**Contact:** Salzburg Research Forschungsgesellschaft mbH  
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Status 13.05.2025

The COMET Project is funded within COMET – Competence Centers for Excellent Technologies – by BMIMI, BMWET as well as the co-financing federal provinces [federal province 1, federal province 2, federal province 3]. The COMET programme is managed by FFG. [www.ffg.at/comet](http://www.ffg.at/comet)

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