Sentry (of Movement)

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**SWHARD** italian start-up. *Expertise:* Software, Hardware, R&D, innovation & development services for a wide range of industrial applications.
- Sensors study and algorithm optimization
- Hardware engineering
- Real-time, cloud computing
- Software for mobile and PC

**PROMIS@Service**, spin-off of EC research results. *Expertise:*
- Open Innovation 2.0: eGovernment, eCompetence, eBusiness, Marketing
- Circular Economy of Knowledge
- Multilingual Integrated Compliance
- Multilingual Big Data, Enterprise 4.0
- Multichannel ePlatforms
- Dissemin. & Rollout of R&D results

**University of Genoa** (DINOGMI - Dept. of Neuroscience). *Expertise:*
- movement kinematic
- Motoric control, education and re-education
- Motoric performance in sport & rehabilitation
- Joints disease prevention
- Scientific Coordination
**The Problem**

Articular and movement diseases are increasing with age causing problems like:

- Pain and isolation,
- Lack of self-confidence
- Monitoring and Assistance in home environment
- Miscommunication caused by different languages and cultures
- High costs
- Lack of standards

**The Solution**

Wearable Sensors Net for monitoring limb’s movement during everyday life.

- Indoor/outdoor, portable & easy to use
- Non invasive
- Connected (with doctor, family, ...)
- Help in monitoring activity, mobility, diseases and rehabilitation
- 3D VR/AR
- Third age fitness
- Multilingual Big Data Platform
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The Innovation

**Technology innovation:** e.g. Kinematic, Artificial Intelligence, Multiplayer games, Cognitive Science, Multilingual Big Data, Open Innovation 2.0, Circular Economy of Knowledge, e-Mentoring

**Socio-economic innovation:** e.g. Improving Quality of Life, Preserve Health and Functional Capabilities, Guided Exercises, Remote Assistance, Increased Socialisation, Experience & Knowledge Transfer, boosting Health-Care Economy
**Partnership**

- Users and early adopters from all the UE
  - Hospitals
  - Medical and rehabilitation clinics
  - Homecare providers
  - Applications in other fields

- Orthopedic industries
- Physiotherapists
- Roll-Out partners

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