



WP2 meeting

Brussels – March 27, 2008

Meeting organization

<u>Address</u>	<i>Regione Marche offices</i> Rond Point Schuman 14, 7 th floor 1040 Brussels Belgium
<u>Metro Station</u>	Schuman
<u>Time</u>	09:30 – 16:45
<u>Attendance</u>	All partners

Objectives of the meeting

- 1- Get a clear understanding of all algorithms requirements, and their impact on system design (choice of micro-controllers, sensors, actuators, wireless technology and communication protocol)
- 2- Presentation of highlights of state-of-the-art surveys
- 3- Based on algorithm requirements and state-of-the-art surveys, identify key trade-offs between application requirements and technical feasibility. Raise all system design questions and sketch possible solutions for consideration by all partners.
- 4- First proposal for validation strategy

Agenda

Morning session (plenary)(8th floor, Room LOGO)

- 9:30** Welcome (Antonella Passarani, Marche Region Offices, Brussels)
- 9:40** Opening of the meeting
- 9:50** Algorithm requirements and impact on system design (20min for each algorithm)
- 9:50 Walking Phase analysis (EPFL)
 - 10:10 Control of shoe motors (IMEC)
 - 10:30 Detection of emergency situation (IMEC)
 - 10:50 Task Performance Analysis (SoM/Ab.Acus)
 - 11:10 Adaptation of training program (SoM/Ab.Acus)
 - 11:30 User Feedback (Ab.acus/SoM)
 - 11:50 Gait and balance analysis (EPFL)
 - 12:10 Generation of perturbation (TUKE)
 - 12:30 Training program definition (SoM/Ab.Acus)

Lunch

12:50- 13:45

Afternoon sessions (parallel)

SESSION 1 – Validation procedures (**7th floor, Room DANTE**)

13:45–16:00

- 13:45 Preparing for IRB (SoM)
- 14:05 Inclusion/exclusion criteria and classification of elderly (CHUV)
- 14:30 Tests and Measurements of Performance (MISHAN)
- 15:00 User perspective and safety issues (INRCA)
- 15:20 Equipment to measure time/distance parameters of gait in each site (GCKOSICE, SoM)

Regulatory procedures for IRB ???

SESSION 2 – System design , (**8th floor, Room LOGO**)

13:45–16:15

- 13:45** Highlights of state-of-the-art surveys
- 13:50 Motorized mechanisms (STRATH)
 - 14:10 Sensors (EPFL)
 - 14:30 Micro-controllers (UNIBO)
 - 14:50 Wireless communication modules (IMEC)
 - 15:10 Power supply units (UNIBO)
- 15:30** Discussion on system design choices
- 15:30 Trade-offs between algorithm requirements and technical solutions (IMEC/STRATH)
 - 16:00 Preparation Glasgow meeting (IMEC/STRATH)

Closing session (plenary) (8th floor Room LOGO)

16 :00 -16:15 Regulatory aspects in Ethical Approvals (SOM)

16:15 Conclusions and action plan