

DOMEO
Call AAL-2008-1

DOMESTIC ROBOT FOR ELDERLY ASSISTANCE



Budapesti Műszaki és Gazdaságtudományi Egyetem (BME)

DOMEO: Domestic robot for elderly assistance

DOMEO wants to find out, evaluate and demonstrate:

- The relevance and efficiency of an evolutionary integration platform.
- The needs in robotics, sensors and 24/7 communication services for the elderly.
- The deployment of the proposed system in realistic environments.

DOMEO: Partners consortium

8 Partners involved in the project:

- The «French» group
 - **ROBO** (FR) – ROBOSOFT
Robot manufacturer, coordinator of the project
 - **CHUT** (FR) – Centre Hospitalier Univ. de Toulouse
Hospital, medical partner for experimentation
 - **ISIR** (FR) – Inst. des Syst. Intelligentes & Robotique
Robotics laboratory
 - **TAS** (FR) – Thales Alenia Space
Communication infrastructure

Folie 3

VD3

découper en 3 morceaux, un par pays

Vincent Dupourqué; 24.09.2009

DOMEO: Partners consortium

8 Partners involved in the project:

- The «Austrian/Hungarian» group
 - **TUW** (AU) – Vienna University of Technology
Technical and experimental partner
 - **NIMR**, (HU) – Nat. Inst. of Medical Rehabilitation
Rehab. centre, medical partner for experimentation
 - **BME** (HU) – Budapest Univ. of Technol. & Economics
Robotic and technological partner
 - **MED** (HU) – Meditech
Manufacturer of medical equipment and sensors

Folie 4

VD9

découper en 3 morceaux, un par pays

Vincent Dupourqué; 24.09.2009

DOMEO: Some figures ...

- *DOMEO is a 3 years project*
- *Total budget is of : 2.230 k€*
- *Project starting date: 1st July 2009*



Objectives of the project

- Validation/Evaluation of 2 robotics systems

- RobuWalker



- RobuMate



- 2 robots in France, 2 in Hungary, 2 in Austria

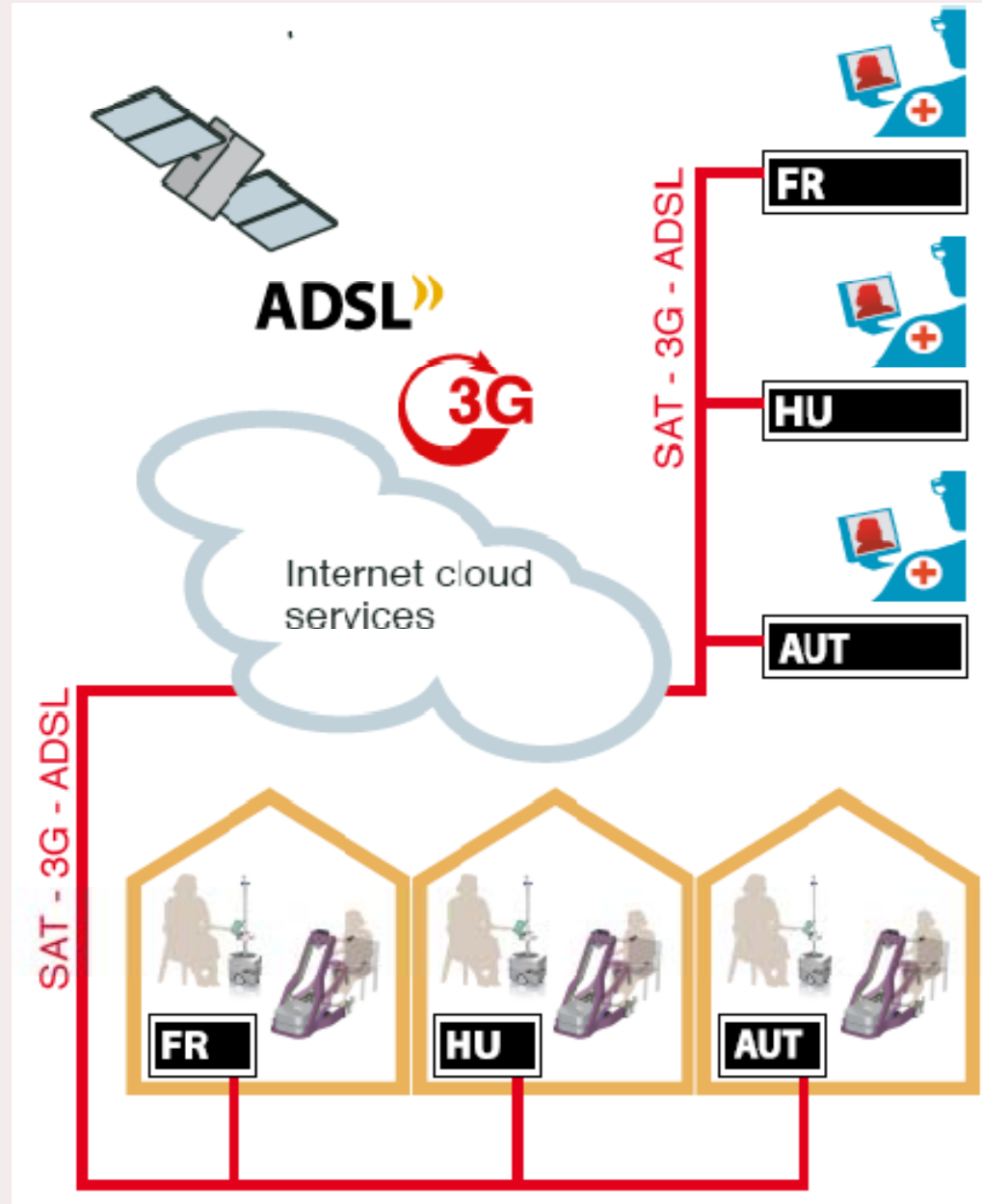
- Priority to experimentation

- Duplication of experimentation (several sites)

- Definition of standardized tests.

- Overall project goal: to have products available at the end of the project

Objectives of the Project



Folie 7

VD6

à palcer plus haut, avant les robots, pour expliquer en premier l'archi

Vincent Dupourqué; 24.09.2009

DOMEO: The two assistive robots



RobuMate: verbal and visual interactions with the user.

The RobuMate evaluation addresses:

- Human Robot Interaction (cognitive and memory assistance)
- Sending video stream for scene analysis in case of emergency alarm,
- Stimulation for doing physical exercises and watching user behaviour.

DOMEO: The two assistive robots



RobuWalker: a robotic walker, physical interaction with the user.

The RobuWalker evaluation addresses:

- Physical Human Robot Interaction (assisting the sit-to-stand and walking)
- Supervising
- Monitoring the heart rate and sending data to processing centre.



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Information & questions:
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Thank you