



## Want to travel independently?

OASIS is able to support you during your trips!

### > AUTONOMOUS MOBILITY SCENARIO

#### DAILY SITUATION

Stella is 72 but still very fit with only slight memory problems and some deterioration of her hearing. She loves travelling, but cannot travel as often as she used to. Nevertheless she manages some local weekend trips and takes long walks choosing the most picturesque, green and quiet routes possible.

This weekend Stella has planned a trip to Edipos, a tourist village in Evia, with the support of the OASIS tourism services that has arranged accommodation for her in a quiet hotel with specific facilities for people with hearing impairments.



Picture provided by CERTH-HIT

#### PROVIDE OASIS SUPPORT

##### Pre-trip travel support

###### SERVICES:

- > Personalised tourist services;
- > Trip-planning facilities;
- > Route choice.

###### FEATURES & INNOVATION:

- > Pull mechanism for info on trips;
- > Wide choice of devices;
- > Integration with social/health info.

During the weekend, Stella decides to have a walk and takes with her the PDA with the OASIS elderly friendly route guidance application. It is really easy to use, with simple voice commands. The information is summarised in a short text and it is easy to navigate maps with all Points of Interest marked with large letters.

OASIS suggests a nice walk in the forest ending up at a lake. While planning her walk, she can see on her PDA all the refreshment points that exist along the way, as well as the closest medical centre.

While on her walk, Stella receives a notification on her PDA from the OASIS home control service that her favourite series is on. Unless it is recorded, she will miss it. Of course! She had forgotten to program the video recorder. Using her PDA she connects to the home network and arranges for the video recorder to start recording.



Picture provided by CERTH-HIT

##### On-trip travel support

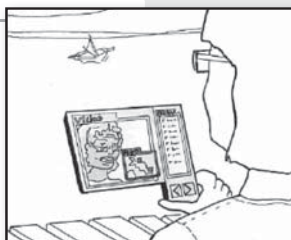
###### SERVICES:

- > Elderly-friendly route guidance;
- > Dynamic adaptation of mobility services according to user location;
- > Self-adaptivity to age-related physical decline;
- > OASIS remote environmental control.

###### FEATURES & INNOVATION:

- > Special attention to elderly-friendly presentation;
- > Standardised 'easy to recognise' interface;
- > Urgent info sent with 'push' mechanism.

Since Stella really loved the walk in the forest, she decides to bookmark this route and re-visit it soon with her close friend, Anny. Stella can also use the OASIS social communities service to open a discussion session with Anny about her walking experience, share with her photos that she took along the way and show her on the OASIS detailed map the exact bookmarked path available for the next time.



Picture provided by CERTH-HIT

##### Post trip support

###### SERVICES:

- > OASIS social activities support;
- > Historical data on preferences, destinations, etc.

###### FEATURES & INNOVATION:

- > Creation of profiles to facilitate info supply;
- > Cross-service data security (protection).

#### INNOVATION

- > Nice-looking activity and health monitoring.
- > Monitoring transmission to activity and health personalised services.
- > Proactive physical activity planning service.
- > Smart home environment control.
- > Participation in social activities thanks to innovative web experiences.
- > Personalised tourist services.

- > Significant enrichment of the travel information content.
- > Elderly-friendly route guidance.
- > Dynamic adaptation of mobility services according to user location.
- > Self-adaptivity to age-related physical decline.
- > Integration of home based and mobile information services.

#### THE OASIS CONSORTIUM

33 Partners from 12 countries, 2 of which are Newly Associated States (Romania and Bulgaria) and 2 are non-European (China and Mexico) form the OASIS consortium. It comprises 9 Large Industries, 6 SMEs, 6 Universities, 7 Research Centres, 3 NPOs, 1 Public Organisation and 1 Healthcare Centre.



Project Coordinator: Silvio Bonfiglio, Philips FIMI (Italy) • Technical Manager: Evangelos Bekiaris, Centre for Research & Technology Hellas (Greece) • External Contact Point: Oliver Jung, POLIS • Project name: Open architecture for Accessible Services Integration and Standardisation • Acronym: OASIS • Grant Agreement no. 215754 – Strategic Objective: ICT and Ageing • Length: 4 years (1 January 2008 – 31 December 2011)

For further information, please visit [www.oasis-project.eu](http://www.oasis-project.eu) or contact [info@oasis-project.eu](mailto:info@oasis-project.eu)




## Living at home at an older age? Wanting to stay active and independent?

OASIS is able to support you through its Independent Living services.



### DAILY SITUATION

### PROVIDE OASIS SUPPORT

DAILY HEALTH SUPPORT	<p>John is 69 years old and has a high cholesterol level, so he needs to pay attention to what and how much he eats. Being alone, he does need guidance on what he should eat, while he would also like to have the option to order dietary meals and have them delivered at home. To realise this, John accesses the daily health support services of OASIS, which provide him a personalised schema to ensure he eats healthy, well balanced, and with respect to his dietary needs.</p>  <p><small>Picture provided by CERTH-HIT</small></p>	<p><b>Personalised services for daily health support</b>, delivered through internet/TV</p> <p>SERVICES:</p> <ul style="list-style-type: none"> <li>&gt; Dietary support;</li> <li>&gt; Ordering of diet meals via integrated catering service.</li> </ul> <p>FEATURES &amp; INNOVATION:</p> <ul style="list-style-type: none"> <li>&gt; Personalised services through profiling;</li> <li>&gt; Seamlessly interacting services.</li> </ul>
	<p>John is overweight and has been told by his dietician that he needs daily exercise. However, he is not very confident about doing this on his own, but is pleased when he OASIS presents him with an individualised training plan service that matches his needs, and that also interacts with his daily health support service. OASIS even reminds him throughout the day of specific exercises he should undertake.</p>  <p><small>Picture provided by CERTH-HIT</small></p>	<p><b>Individualised training plans and personalised virtual activity coach service</b></p> <p>SERVICES:</p> <ul style="list-style-type: none"> <li>&gt; Reminders;</li> <li>&gt; Motivation messages in daily exercises;</li> <li>&gt; Customised exercise sessions;</li> <li>&gt; Customised dietary menu.</li> </ul> <p>FEATURES &amp; INNOVATION:</p> <ul style="list-style-type: none"> <li>&gt; Personalised services through profiling;</li> <li>&gt; Seamlessly interacting services.</li> </ul>
	<p>John will soon be 70. Being worried about his memory, he uses the memory exercises provided by OASIS. These supportive exercises are not only stimulating his memory, but also enabling him to improve his digital skills.</p>	<p><b>The memory reinforcement programme</b></p> <p>SERVICES:</p> <ul style="list-style-type: none"> <li>&gt; "Exercise" the user's brain on a daily basis.</li> </ul> <p>FEATURES &amp; INNOVATION:</p> <ul style="list-style-type: none"> <li>&gt; Personalised services through profiling.</li> </ul>
INTERACTION WITH COMPATIBLE SERVICES	<p>John is interested in any service that can improve the quality of his daily life and would like to be informed about what is available. OASIS interface presents John with all existing, but also new services to which he can subscribe, while also offering the possibility to combine certain services.</p>	<p>A "virtual coach" service:</p> <p>SERVICES:</p> <ul style="list-style-type: none"> <li>&gt; Identify services to which the user is subscribed;</li> <li>&gt; Suggest other services;</li> <li>&gt; Combine both services.</li> </ul> <p>FEATURES &amp; INNOVATION:</p> <ul style="list-style-type: none"> <li>&gt; Seamless integration of services;</li> <li>&gt; User friendly service discovery and subscription.</li> </ul>
	<p>John is very keen on using the different OASIS services, and does so with much ease. He uses only one remote control, with a user-friendly user interface, to control all appliances such as heating, air-conditioning, domotic appliances, etc. whether he is at home, or outside the house.</p>  <p><small>Picture provided by CERTH-HIT</small></p>	<p><b>The comfort control unit:</b></p> <p>SERVICES:</p> <ul style="list-style-type: none"> <li>&gt; Seamlessly/remotely interact with appliances in the house;</li> <li>&gt; Centralising operation through one single device or interface.</li> </ul> <p>FEATURES &amp; INNOVATION:</p> <ul style="list-style-type: none"> <li>&gt; Centralised interaction;</li> <li>&gt; User friendly interface, with specific attention to needs of elderly.</li> </ul>
	<p>John's GP (general practitioner) would like to use data such as John's weight, blood pressure, etc. on a daily basis. However, John believes this is a rather tricky task and is afraid he will forget sometimes to collect this data and provide it to his doctor. He therefore relies on OASIS which collects all data daily and transfers this through the internet in a secure way to his GP.</p>	<p><b>The house's intelligent environment:</b></p> <p>SERVICES:</p> <ul style="list-style-type: none"> <li>&gt; Collect data via various manners;</li> <li>&gt; Usage of data in integrated health monitoring system.</li> </ul> <p>FEATURES &amp; INNOVATION:</p> <ul style="list-style-type: none"> <li>&gt; Seamless data collection;</li> <li>&gt; Secure data transfer.</li> </ul>

### INNOVATION

- > Orchestration of different services to obtain a goal.
- > Data importing of heterogeneous services to improve the outcome of a specific service for the elderly.
- > Architecture for integration of different Independent Living Applications.
- > Use of a shared domain of ontologies for context sharing and service orchestration.
- > Advanced domotics and wireless control for building a smart house.
- > Innovative and accessible user interfaces for interaction with the applications.
- > Use of tools for developers, for the service design and development based upon the use of ontologies.
- > 3D multimedia engines for daily activities simulation.
- > Use of wireless sensor network for monitoring health and activity status.
- > User profiling and characterisation of nutritional habits, activity habits, and social abilities.
- > Intelligent semantics engines for the assessment of the user activities.
- > Web 2.0 trends for social relationship platform.

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