

A PROJECT BY THOMAS MORE, KU LEUVEN, UPORTO, THE HAGUE UAS, UNIVERSITY WEST AND RVO-SOCIETY



D9.2 Compendium of projects' results



Lifelong Learning Programme

1.	CSE projects' database	4
2.	Results of the pilot year of the postgraduate course 2014-2015	4
3.	Results of the pilot year of socially ingenious 2015-2016.....	5
3.1	Smart Glasses	5
3.1.1	Problem definition	5
3.1.2	Goal definition	5
3.1.3	Description	5
3.1.4	Project results	5
3.2	Labour Interest Test	6
3.2.1	Problem definition	6
3.2.2	Goal definition.....	6
3.2.3	Description – promotor.....	6
3.2.4	Project results:	6
3.3	Travel and Communication assistant	7
3.3.1	Problem definition	7
3.3.2	Goal definition.....	7
3.3.3	Description	7
3.3.4	Project results	7
3.4	Rocking Bed.....	7
3.4.1	Problem definition	8
3.4.2	Goal definition.....	8
3.4.3	Description	8
3.4.4	Project results	8
3.5	Pour and enjoy	9
3.5.1	Problem definition	9
3.5.2	Goal definition.....	9
3.5.3	Description	9
3.5.4	Project results	9
3.6	Easy Pay.....	10
3.6.1	Problem definition	10
3.6.2	Goal definition.....	10
3.6.3	Description	10



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3.6.4	Project results	10
4.	Results of the consortium – presentations at conferences	10
4.1	Presentations at the Engineering4Society conference – first edition	10
4.2	Presentations at the Engineering4Society conference – second edition	11



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1. CSE PROJECTS' DATABASE

The CSE projects' database allows to find the compendium of project results. Partners have agreed to set the status of a completed project to finished and add the URL to the final presentation of the student.

The database can be reached via: <http://www.cse-projects.eu/>

The button 'discover' allows you to search through the database.

2. RESULTS OF THE PILOT YEAR OF THE POSTGRADUATE COURSE 2014-2015

The results of the students of the first test year of CSE have been published on the website of the curriculum in Belgium.

The website can be reached via this link: <http://www.cse-education.be>.

The results can be found on this page: <http://www.cse-education.be/results-2014---2015.html>.

Project 1: an app for people with early dementia to train their memory. The tool is built on the theory of memory palaces. One could state that the project contributes to the wellbeing and activities of daily living of the elderly, i.e. remembering the names of their closest relatives. But the app has also proven to contribute to the learning ability of the older person.



[Download File](#)

Project 2: has contributed to a bigger and longer open innovation project Thomas More has developed and broken up in between deliverables. This project is called [Viamigo](#). Viamigo is a tool that allows persons with intellectual disabilities to travel independently. The trajectory is pre-mapped and registered via a smartphone. If the disabled person deviates from the path, a parent or supervisor receives a text message and he can check if everything is going well via the Viamigo website. The student further developed the Viamigo tool and created **an add-on for communication between the coach and end user with pictograms** within the CSE pilot run, one of the wishes of the parents of the users. Whereas before this addition the person with a disability could not send a message, this is now possible.



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Project 3: worked for the suicide hotline in Brussels. The student developed a **communication and cooperation platform** for the suicide hotline volunteers. These volunteers often long to share their experiences. This is not evident or possible because of their oath of secrecy and because they nowadays operate from their home environment instead of a call center. On top of this platform this student created an **e-learning module on suicide prevention** and developed a **technology management plan** for the organisation.



[Download File](#)

Project 4: has built **construction toys apted to children with mental-motor disabilities**. After all children with a disability want to play with the same toys as their brothers and sisters. The presentation is presented on Prezi. You can download it [here](#).

3. RESULTS OF THE PILOT YEAR OF SOCIALLY INGENIOUS 2015-2016

3.1 SMART GLASSES

3.1.1 PROBLEM DEFINITION

Blind people face a lot of problems: reading a book/newspaper, finding the right product in the store, finding the way in and around the traffic,...

3.1.2 GOAL DEFINITION

To create one tool that can solve all of above mentioned problems: Smart glasses. These are a wearable computer that adds information to what the wearer sees. Smart glasses consists of four elements: camera, micro-computer, headset and glasses.

3.1.3 DESCRIPTION

We see the smart glasses as a combination of four elements. The camera to see and capture the information. This information is send to the micro-computer that processes this information and creates a spoken text that is transferred with the headset to the blind person. This is mounted on glasses because it's easier to focus the camera on the text or environment.

3.1.4 PROJECT RESULTS



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[Presentation Smart Glasses](#)

3.2 LABOUR INTEREST TEST

3.2.1 PROBLEM DEFINITION

In order to find suitable jobs for persons with intellectual disability It is important to find out which job activities they like /dislike

3.2.2 GOAL DEFINITION

To create a web application which is available on different platforms, for different types of users, which questions the kind of activities the target group likes/dislikes. Tutors must have easy acces to test results.

3.2.3 DESCRIPTION – PROMOTOR

Organisation: MPI Oosterlo

Website: <http://www.mpi-oosterlo.be/>

Country: Belgium

Region: 2260 Oosterlo

3.2.4 PROJECT RESULTS:

A web app (first versions) has been created.

Mockups are chosen

Future plans:

- Page for creating tests
- Excel export
- Graphics and more

[Presentation 1: Labour interest test](#)

[Presentation 2: Labour interest test](#)



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3.3 TRAVEL AND COMMUNICATION ASSISTANT

3.3.1 PROBLEM DEFINITION

People with mental disabilities cannot use a standard smart phone. They cannot send text messages, use SMS or other apps since they cannot read or write. They therefore lack social contacts.

3.3.2 GOAL DEFINITION

Create a communication app, so that people with a disability can

- send messages in pictograms or text,
- send quick messages
- call

3.3.3 DESCRIPTION

Organisation: Nadezhda, rehabilitation centre for people with mental disabilities

3.3.4 PROJECT RESULTS

Future plans:

- Analysis of last warded person's action
- Testing at rehabilitation center «Nadezhda» with different people with mental disabilities
- Special device blocking

[Presentation Travel and Communication Assistant](#)

3.4 ROCKING BED



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3.4.1 PROBLEM DEFINITION

The Care-ethical lab de Spiegeling, is looking for an electrically powered rocking bed. The bed should be designed for restless elderly. The rocking motion can bring peace of mind and prevent shouting. Unfortunately, no standard rocking bed for adults exists. Sometimes people with this shouting behaviour are sedated. A rocking bed is a much better alternative. Possibly the bed can also play a role for people with physical inactivity, such as elderly people who are bedridden or those with prolonged paralysis. Existing models are designed for the garden but these models are not suitable for a care centre. Here other aspects prevail: safety (fall prevention), ergonomics (adjustable height, wheels) and hygiene (incontinence).

3.4.2 GOAL DEFINITION

We are working in an hospital environment. Here other aspects prevail: safety (fall prevention), ergonomics (adjustable height, wheels) and hygiene (incontinence). We also have to think about the noise when the bed is rocking because the intention is that the patient is asleep .

3.4.3 DESCRIPTION

Organisation: Care ethical lab 'De Spiegeling'

Website : <http://www.rtc-antwerpen.be/detail.php?id=678>

Country: Belgium

Region: 2300 Turnhout

3.4.4 PROJECT RESULTS

There is a first prototype. We made a few modifications to an existing bed so it's possible to make it rock.

[Presentation Rocking Bed](#)

These students got press attention with an article published in Gazet van Antwerpen 14/01/2016



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Geel

De jeugd is de toekomst, een cliché dat vooral in de schoolbanken tot een waarheid moet uitgroeien. Dat de tieners en adolescenten van nu de wereld van morgen vormgeven, komt reigers beter tot uiting dan op de campus van een hogeschool. Bij Thomas More in Geel stelden tientallen studenten uit het eerste jaar Elektrotechnica hun eerste ideeën voor een betere maatschappij voor. Van simpelweg leuk tot een aanzienlijke verbetering van het menselijke lot.

Bed wiegt mensen met dementie in slaap

Internationale belangstelling om schommelbed te fabriceren

Un het ontwerp van de schommelbedden worden de gebruikers behoeften in kaart gebracht. Het gaat om mensen met dementie die moeite hebben met slapen. Het ontwerp moet rekening houden met de fysieke en mentale beperkingen van deze groep. Het ontwerp moet ook rekening houden met de veiligheid van de gebruikers. Het ontwerp moet ook rekening houden met de duurzaamheid van de producten.

Men heeft het project hiervoor toegevoegd aan de lijst met projecten van de Europese Commissie. Het project wordt gefinancierd door de Europese Commissie en de Vlaamse Gemeenschap. Het project wordt uitgevoerd door de Universiteit van Antwerpen en de Hogeschool Thomas More in Geel.

De eerste prototypes zijn nu in ontwikkeling. Het ontwerp wordt verder verfijnd op basis van de feedback van de gebruikers. Het ontwerp wordt ook getoond aan andere universiteiten en hogescholen. Het ontwerp wordt ook getoond aan de Vlaamse Gemeenschap en de Europese Commissie.

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Parking Assistant lost campusprobleem op



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Tool-o-matic sorteert uw gereedschappen



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Laat uw hond zichzelf met apport vermaken



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"U kan uw baby vanop afstand wiegen"



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Steekwagentje heft zware voorwerpen op



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3.5 POUR AND ENJOY

3.5.1 PROBLEM DEFINITION

Tremor can be caused by different diseases like MS and Parkinson. Facilitate the activities of daily life of elderly people with tremor.

3.5.2 GOAL DEFINITION

To design a pouring system, which met almost all the demands of the clients (a simple, qualitative, user-friendly system)

3.5.3 DESCRIPTION

3.5.4 PROJECT RESULTS

Design of a pouring system, which met almost all the demands of the clients (a simple, qualitative, user-friendly system)

This project needs further refinement as to the speed of pouring.



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<http://gietengeniet.weebly.com/over-ons.html>

3.6 EASY PAY

3.6.1 PROBLEM DEFINITION

People with intellectual disabilities often experience problems whenever they want to pay for purchased goods. They have difficulties reading prices, choose the right coins or bills, calculate what their change should be etc.

3.6.2 GOAL DEFINITION

Our challenge is to facilitate this process by creating something simple, unbreakable and personalized.

3.6.3 DESCRIPTION

3.6.4 PROJECT RESULTS

During the weekend “Socially ingenious” (march 2016) students got the opportunity to test their design. They invited people with intellectual disabilities to join them so that they could talk to them, ask questions, observe how they use their designs and get feedback.

[Presentation Easy Pay](#)

4. RESULTS OF THE CONSORTIUM – PRESENTATIONS AT CONFERENCES

CSE partners have presented a lot of test results of pilots at various conferences.

In this report we link to the various full papers that have been written and presented about CSE project work.

4.1 PRESENTATIONS AT THE ENGINEERING4SOCIETY CONFERENCE – FIRST EDITION

<http://www.engineering4society.org/2015>

Memory Palaces Improving the Life Quality of People with Dementia. **Annemie Morel**, Belgium

[View presentation](#) (761.22 KB)



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Home-based System for Rehabilitation: Improving Quality of Life through Engineering Solutions. **Serena Ponte**, Portugal

[View presentation](#) (1.19 MB)

Viamigo project. **Danny Wouters**, Belgium

[View presentation](#) (556.86 KB)

Human Warmth Online: Case Studies of the Use of Social Media and Social Learning in Suicide Prevention. **Sonia Van Ballaert**, Belgium

[View presentation](#) (224.67 KB)

Establishing a Collaboration between Careproviders and Engineers. **Greet Baldewijns**, Belgium

[View presentation](#) (546.21 KB)

Designing for the homeless in the Product and Industrial Design Master at FEUP. **Daniela Carriço**, Portugal

[View presentation](#) (4.05 MB)

Able-To-Include: Focus groups with Persons with IDD and their Coaches. **Annelies De Vlieghe**, Belgium

[View presentation](#) (1 MB)

4.2 PRESENTATIONS AT THE ENGINEERING4SOCIETY CONFERENCE – SECOND EDITION

<http://engineering4society.org/>

Paul van den Berg and Mirjam Zijderveld. From Individual Moral Reasoning to International Ethical Resilience: Engineering Ethics at HHS/Delft, 2006-2016 - [Video](#)

Nele Bosch, Jo Daems, Jan Dekelver and Steven Solberg. AbleChat: Development of a chat app with pictograms for people with Intellectual Disabilities - [Video](#)

Lieven Billiet, Thijs Swinnen, Rene Westhovens, Kurt de Vlam and Sabine Van Huffel. SPARKLE@Home: Bringing Health Technology to Daily Life - [Video](#)

Francesca Gelpi, Amalia Villa, Hilde Goossens and Kristien Rombouts. A specific activity center for adult people with multiple disabilities - [Video](#)

Vasco Canavarro, Bárbara Rangél, Jorge Lino Alves. Coffee Powder Reused as a Composite Material - [Video](#)

Technology and family care relationships (Dorien Voskuil, Haagse Hogeschool, NL) - [Video](#)

Daniela Monteiro, Bárbara Rangél, Jorge Alves and António Teixeira. Design as a vehicle for using waste of fishing nets and ropes to create new products - [Video](#)

Ine D'Haeseleer, Bart Vanrumste, Dominique Schreurs, Christopher Buckingham, An Mondelaers and Vero Vanden Abeele. Attitudes of Older Adults towards Self-Assessment of Mental Health, Safety and Wellbeing - [Video](#)



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Leen Sevens, John O'Flaherty, Ineke Schuurman, Vincent Vandeghinste and Frank Van Eynde. E-Inclusion of Functionally Illiterate Users by the use of Language Technology - [Video](#)



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