IDE Project

Deliverable 9.2: Revision of Dissemination Plan and Report Year 1

11/01/2016

AIDE

Adaptive Multimodal Interfaces to Assist Disabled People in Daily Activities

Project number: 645322

Start of the project (duration): February 1st, 2015 (36 months)

Research and Innovation Action

HORIZON 2020 Programme

LEIT Pilar KET ICT

Revision: V1.0

Project co-funded by the European Commission within the Horizon 2020 Programme (2014-2020)	
Dissemination Level	
PU Public	**X**
PP Restricted to other programme participants (including the Commission Services)	
RE Restricted to a group specified by the consortium (including the Commission Services)	
CO Confidential, only for members of the consortium (including the Commission Services)	

List of reviewers

Issue	Date	Implemented by	Control of Changes
v.0.1	11/01/2016	UMH	Revision of Dissemination Plan
v.0.2	28/01/2016	UMH	Implementation of changes suggested by the partners
V1.0	01/02/2016	UMH	Final approval

Indicate any document related to this deliverable (report, website, ppt etc) and give file name

DOCUMENT NAMES

QUALITY ASSURANCE PLAN
DATA MANAGEMENT PLAN
EXPLOITATION PLAN
ETHICAL GUIDELINES

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EXECUTIVE SUMMARY

This deliverable has two main purposes:

a) To update the first version of the dissemination plan (D9.1) of the AIDE project, introducing the changes that have been implemented during the first year of the project.
b) To compile and report the dissemination activities executed during the first year of the project.

With this aim, the contents of deliverable 9.1 have been adapted to produce this document. Sections 1 to 5 correspond to the revision of the original Dissemination Plan. The changes that have been included in this revision with respect to the original Dissemination Plan are:

1. Introduction: Includes the description of the regular meetings that have been implemented by the Exploitation and Dissemination Committee (EDC)
2. Dissemination Strategy and Goals: List of responsible partners for specific dissemination activities has been updated.
3. Dissemination Target Groups: No changes have been made with respect to D9.1.
4. Dissemination Activities, Materials and Methodologies
   The new logotypes of the project (created by ZED's design department) have been included and the dissemination materials have been updated with the new logotype.
5. Indicators: No changes have been made with respect to D9.1.

Section 6 corresponds to the report of the dissemination activities performed during the first year of the project. This section also includes a list of the most important activities that have been forecasted by the EDC for the year 2.

1. INTRODUCTION

Dissemination of the results is envisioned as a priority by the AIDE consortium. AIDE partners are well aware about the opportunity arising from a well-designed Communication and Dissemination Strategy, and so it has become a key element of the AIDE strategic objectives.

The EDC, composed by four members of the Executive Board (EB), is the AIDE board in charge of preparing the Dissemination Plan (DP) and the Exploitation Plan (EP) to show the potential developed by the project and the possible exploitation routes of results. The EDC will be responsible for monitoring the implications of AIDE achievements in terms of knowledge dissemination and further industrialization and/or commercialization of results. Due to the specific requirements and tasks of this board, the EDC has been designed including members from the next four beneficiary entities of the AIDE consortium:

BENEFICIARY ENTITY	PERSON IN CHARGE
ZED	Teófilo Redondo
BJ Adaptaciones	María Peña
UMH	Nicolás García-Aracil
UCBM	Loredana Zollo

The EDC has established a regular meeting in a monthly base, which is held via Skype with two main purposes:

- Revision of WP9 progress
- Monitoring of dissemination strategy

This deliverable describes the Dissemination Plan to be developed during the life of the AIDE project. This is therefore an evolving document that will be frequently updated to include the results of the dissemination activities, the evaluation of the dissemination strategy and the actions taken to improve it.

This document is also a guide for the members of the AIDE project, helping them to identify the different audiences of the different methodologies and dissemination actions, as well as providing them with tools to collect, organize and present the results of the AIDE project.

Finally this deliverable, in conjunction with the AIDE Quality Assurance Plan (QAP, D2.4) will provide a set of indicators and guidelines to evaluate the dissemination strategy, stating those responsible of each activity and how to address deviation of the proposed objectives as a part of the continuous improvement process implemented in the AIDE project.

2. DISSEMINATION STRATEGY AND GOALS

As described in the introduction, dissemination activities are an important aspect of the AIDE project. The consortium as a whole is concerned about the importance of translating to the society the results of the public investments made on scientific research and the fundamental role of dissemination to maximize the return on the received investment.

According to the European Commission, dissemination of scientific research results should be one of the defining principles for Europe's research landscape. Therefore, AIDE project puts a special effort to disseminate the gained knowledge as much as possible. On the other hand, the protection of any technologies developed by partners is fundamental for the successful exploitation of project outcomes. The AIDE consortium will always give priority to the protection over dissemination to ensure the exploitation of project results. The following sections describe the AIDE dissemination and exploitation strategy, which has been designed to maximize the impact of the project.

A set of simple recommendations provided by the EC to engage with the public will be the basis of this Dissemination Plan:

- Focus on communicating results rather than process.
- Be interactive. Listening and adapting the message regularly according to the response obtained from the audience and to the expected/obtained results of the activity (see **Section 5: Indicators** and **Quality Assurance Plan** for a description of the continuous improvement approach of the project).
- Activities should be selective and targeted to maximize impact. Avoid communicating on matters with little or no interest to the outside world.
- Particular emphasis will be put on "going local", using partner's contacts, contacting local press…
- Tailor communication to different audiences by responding to the issues that matter locally
- Position the project research within a broader socio-economic and policy context, so that it could be easier to explain the results and their relevance to policymakers and citizens.

2.1. OBLIGATION TO DISSEMINATE RESULTS

According to the Article 29 of the GA, the results generated during the project **must** be disseminated as soon as possible, unless it goes against the legitimate interests of the beneficiaries. Dissemination of the results to the public will be performed through the appropriate means (other than those resulting from protecting or exploiting the results), including scientific publications (in any medium).

This obligation has been assumed by the AIDE consortium, as reflected in the Quality Policy described in the QAP:

- *All non-confidential project results shall be published via appropriate channels/media in a timely manner.*
- *Major activities shall be planned and recorded, including all dissemination activities.*

2.2. DISCLOSING OF RESULTS AND IP PROTECTION ISSUES

The protection of any technologies developed by the AIDE consortium partners is fundamental for the successful exploitation of the project outcomes. The management of the generated knowledge will be performed according to the rules established in the Grant Agreement (GA) and in the Consortium Agreement (CA). GA and CA will be used as the IPR reference documents.

The obligation to disseminate the results of the project will always be subjected to the obligation to protect results, the confidentiality, security obligations and personal data protection obligations described in the Articles 27, 36, 37 and 39 of the GA, all of which apply preferably to the obligation to disseminate results.

If a beneficiary intends not to protect its results, it may need to formally notify the *Commission* before dissemination takes place.

NOTIFICATION PROCEDURE

A beneficiary that intends to disseminate its results must give advance notice to the other beneficiaries of at least 45 days, together with sufficient information on the results it will disseminate.

Any other beneficiary may object within 30 days of receiving notification, if their legitimate interests in relation to the results or background would be significantly harmed. In such cases, the dissemination may not take place unless appropriate steps are taken to safeguard these legitimate interests.

URGENCY NOTIFICATION PROCEDURE

The notification of any dissemination action according to the previously disclosed notification procedure (which is included in the GA) will be mandatory.

For exceptional cases where this period could exceed the deadlines for a dissemination action, the Management Board has approved an Urgency Notification Procedure that shortens notification and objection periods as follows:

- Notification period: At least 20 days before the publication date.
- Objection period: 15 days after receiving the notification.

In order to apply to this Urgency Procedure, the partner responsible of the dissemination action shall communicate it to the Exploitation and Dissemination Committee.

2.3. TASKS OF THE PROJECT TEAM MEMBERS

The AIDE consortium, composed by industrial and academic partners with high expertise in EU-funded projects, has defined the dissemination of the project results as a transversal task of the project. In this sense, the dissemination guidelines defined in this document affect to all the aspects of the project, being therefore not only responsibility of the Exploitation and Dissemination Committee, but also of every consortium partner.

The consortium as a whole will closely collaborate in the dissemination activities described in this document in order to raise awareness, build a brand image and a significant community around the AIDE brand.

The exploitation and dissemination activities in AIDE Project will be mainly tailored to develop an ecosystem of stakeholders to allow the proper marketing of the Project results. The EDC will be the board in charge of coordinating exploitation and dissemination activities to avoid conflicts of interest and maximize the outcomes of those activities.

Even when all the consortium partners will have to collaborate in the communication activities, the EDC has nominated a responsible for each task, ensuring a fair distribution of the work load between the partners.

The main foreseen communication activities are detailed in the list below. The responsible for each activity was designated in the first meeting of the committee (month 6):

- Maintenance of the Web Page **(UMH)**
- Workshop organization **(UCBM)**
- Congress and Symposia communications **(All Partners)**
- Fairs and specialised events assistance and representation **(BJ/ZED)**
- Communications with strategic audience sectors (policy makers, physicians, caregivers, patients and relatives…) **(BJ/ZED/CEDAR)**
- Elaboration of contents for the newsletter **(All Partners, Coordinator: UMH)**
- Facebook account management **(All Partners, Coordinator: ZED)**
- Twitter account management **(All Partners, Coordinator: ZED)**

- LinkedIn account management **(All Partners, Coordinator: ZED)**
- YouTube/Vimeo account management **(All Partners, Coordinator: ZED)**
- Dissemination Material Design **(UMH, ZED)**
- Scientific publications **(UCBM)**
- Relationships with the media **(All Partners)**

3. DISSEMINATION TARGET GROUPS

An analysis of the target groups of audience of the Dissemination Plan has been performed. The following main target groups and key actors have been identified, including not only the final end-users to adopt or apply the results of the project, but also those that could be interested in the evolution and advances of the project itself:

1. General Public
2. Professional and Patient communities in the Healthcare sector
3. Public sector players (such as public administration, organizations, municipal authorities, etc.)
4. Healthcare Industry and SMEs
5. Public And Private R&D communities (academic and private researchers, public research bodies, companies in the healthcare value chain, specially start-up companies) with a focus on European stakeholders
6. Other EU funded projects and initiatives
7. Robotics and Healthcare Hardware and Software user communities
8. Robotics and Healthcare Hardware and Software Working Groups
9. Government bodies and institutions (local and regional authorities, ministries of European countries, European Commission, UNESCO) and more specifically their research departments
10. Policy and decision makers (including the EC) at the EU and International levels
11. Other stakeholders active in the different layers of Robotic Rehabilitation and Healthcare e.g. standardization, trust & security experts, etc.
12. Journalists and Media

Attending at their level of specialization and area of interest, the target audience of the AIDE project can be divided into four categories:

- Professionals of the robotics field, with a high level of technical background and interests focused on the technical advances
- Patients and healthcare professionals, with medium/low level of technical background and a main interest on the advantages provided by the end product to the end user

- Government bodies, policy makers and industrial sectors, with a medium/high level of technical background and a main focus on the maturity level of the end product, marketability, legal and ethical issues…
- General public and media, with variable technical background and a wide informational/educational interest that encompasses all the previous areas

In order to maximize the diffusion of the results, the dissemination plan will be implemented at two strategic levels:

- Each partner organization will get in charge of developing the dissemination plan at a regional level on his respective state
- The consortium as a whole will tailor and develop the dissemination activities at an International level, with a primary focus on the EU region.

Previous to the development of any dissemination activity, an analysis of the target audience, theirs interest and level of specialization will be made to elaborate specific strategies using targeted messages, means and language.

4. DISSEMINATION ACTIVITIES, MATERIALS AND METHODOLOGIES

4.1. DISSEMINATION MATERIALS

4.1.1. INFORMATION ON EU FUNDING

According to the Article 29 of the GA, unless the Commission requests or agrees otherwise or unless it is impossible, any dissemination of results (in any form, including electronic) must:

a) display the EU emblem and
b) include the following text:
"This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 645322" (See **Figure 1**).

Any dissemination of results must indicate that it reflects only the author's view and that the Commission is not responsible for any use that may be made of the information it contains.

Figure 1. Information on EU Funding and EU Emblem

4.1.2. LOGOS

A successful communication strategy requires building an easily recognizable and attractive corporative image. Accordingly, we have designed a new logo of the project (**Figure 2**) that will be used in every document, communication, website, deliverable and prototype produced in the frame of the project to provide a well-defined graphical identity to the dissemination materials and for better reaching the target audience. **The H2020 and the EU emblem will be displayed together with the AIDE logo, giving to the EU emblem appropriate prominence**. The logotypes will be available in a private repository accessible to all the members of the project.

AIDE LOGOS

Figure 2. AIDE Logos

4.1.3. PROMOTIONAL MATERIAL

Promotional materials are a key part of the dissemination tasks as they contribute to increase the awareness about the project and maximize the impact of the dissemination actions. The use of these materials in conjunction with the promotion at the website will suppose a great increase on the visibility of the project itself as well as of the activities of the project.

The promotional materials designed for the AIDE project are especially relevant because they provide the information on EU funding, according with the Grant Agreement. It is strongly encouraged for the partners to make use of them in any dissemination activity related to the project to maximize the visibility of the EU funding information and raise the awareness on H2020.

This section shows a draft of the different promotional materials that have been designed to promote the project, especially during the assistance/organization to workshops, congresses, conferences, media appearances, etc. With the exception of the Project Presentation, the promotional materials produced for the AIDE project have been designed to be used in printed version and disseminated at external events where the project has to be represented.

All the dissemination and communication materials will be publicly available through the website and on the project internal collaboration space:

- Roll-up banner and Project business cards Concept of a standard project exhibition booth
- Project Factsheet
- Video trailer
- PowerPoint Corporate presentation
- PowerPoint templates.

A first version of the project trailer has been uploaded on Vimeo. The following dissemination materials are only drafts proposals, so they can be adapted for its use in a concrete activity.

PROJECT FLYERS, ROLL-UP, POSTERS

Promotional flyers will be created and distributed in events where the AIDE communication forms part of a scheduled program. **Figure 3** shows the front of the AIDE flyer. The back of the flyer will be used to state the name and type of dissemination activity, the person in charge of it, his/her affiliation and the scheduled time of the event.

Figure 3. Front of the AIDE project promotional flyer

Considering the variety of events where the project will have to be represented, a generic Roll-up (**Figure 4**) has been designed to make visible the image of the project and the logotypes of the partner organizations and the EU funding acknowledgement. This concept will evolve to the design of a stand if the project would have to be represented in a fair. In that case, it is also envisioned to develop posters representing the key aspects of the project.

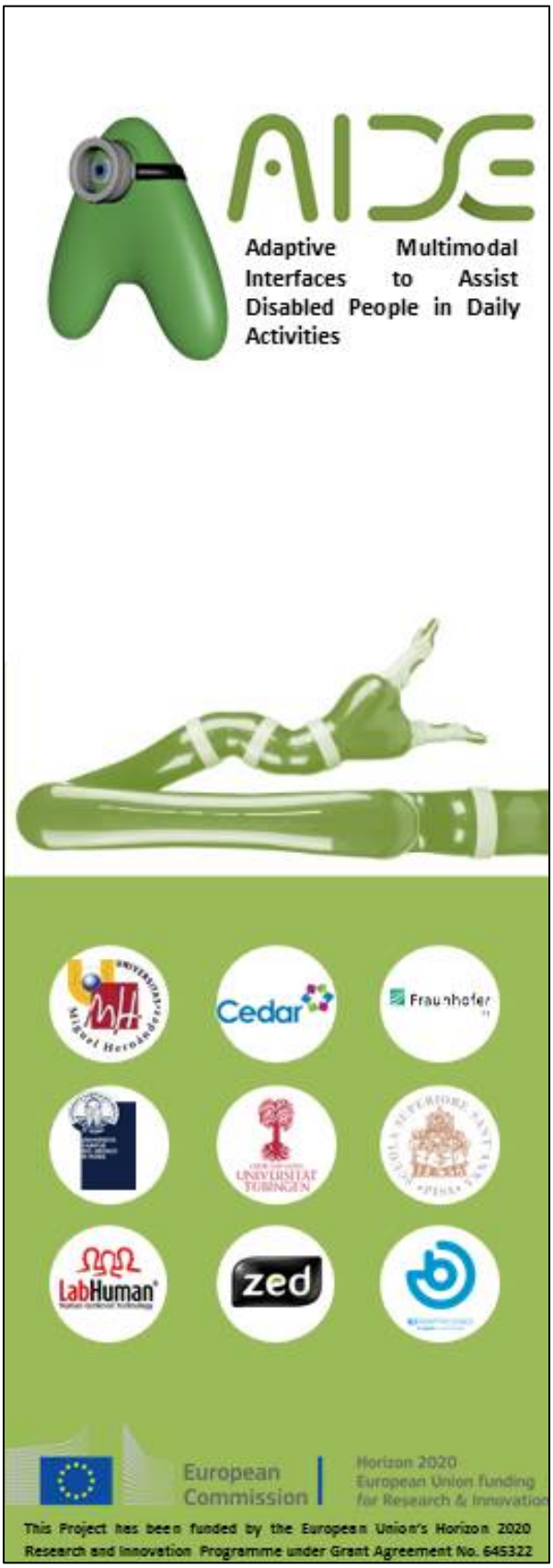

Figure 4. AIDE project promotional Roll-up

PROJECT FACTSHEET

Figure 5. AIDE project Factsheet

The project factsheet has been prepared as a promotional material intended to be distributed at congresses, conferences, workshops and other oral communications where it could be interesting to offer a background about the project to the public prior the communication. The front of the leaflet contains the EU funding acknowlegment, the logos of the partners and the logo of the project (**Figure 5**). The back of the leaflet contains the description of the background, objectives and the expected impact of the project on the society.

PROJECT VIDEO TRAILER

A trailer of the project has been prepared as a presentation and it has been made available on the website homepage and on the Vimeo channel of the project. The video (**Figure 6**) is accompained by a brief description of the project to serve as an introduction for those arriving for the fisrt time to the website of AIDE.

Figure 6. Promotional video of AIDE at the main page of the project's website.

POWERPOINT TEMPLATES

To keep a well-defined graphical identity in the project presentations, a PowerPoint template has been produced. This template includes the first and last slides of the presentation (**Figure 7**) and a general slide template, showed in **Figure 8**.

Figure 7. First and last slides of the presentation.

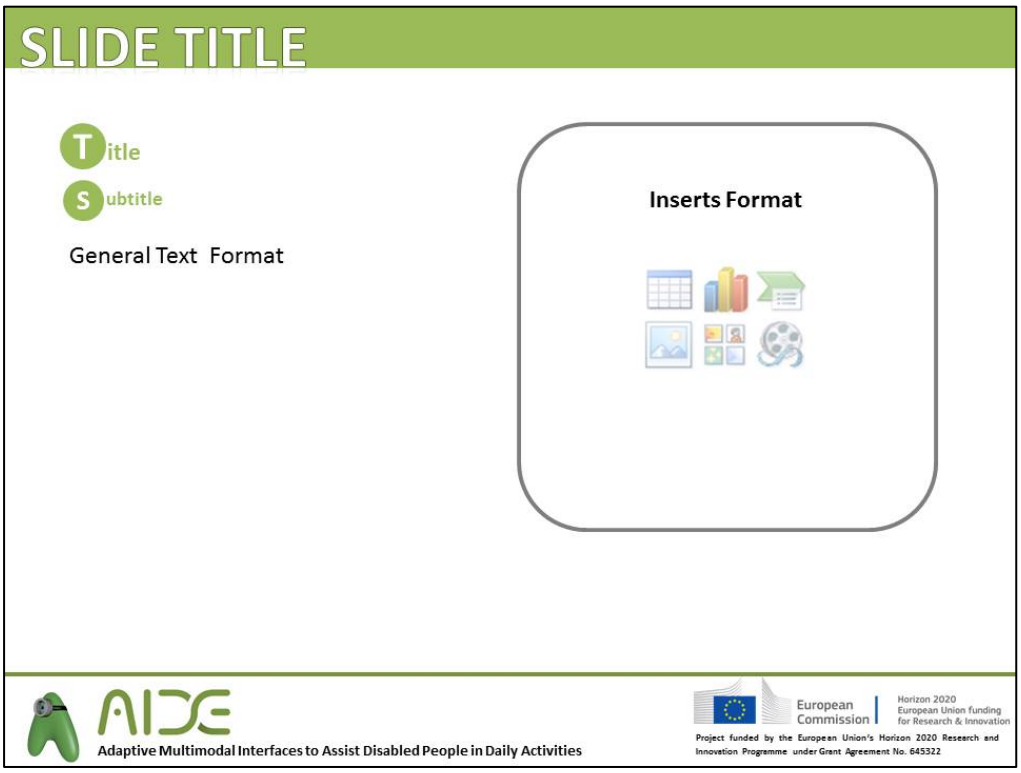

Figure 8. Template for a slide of a PowerPoint presentation.

4.2. DISSEMINATION METHODOLOGY

4.2.1. GENERAL METHODOLOGY

Based on the continuous improvement approach described in the QAP, the AIDE consortium has developed an approach to design, execute and evaluate the dissemination strategy of the project. This strategy is summarized in the table below:

Planning	Development of a strategic plan for the dissemination activity, based mainly on the target audience and the expected outcomes.
Corporative Image	Create a brand image for the project (logo and templates for the dissemination materials) and publicize it properly in all the dissemination actions.
Promotion	Design of promotional materials (both for online and physical distribution)
Distribution	Ensure the appropriate distribution (in terms of channels and

	promotional materials) of the information related to the dissemination activities to maximize their impact
Representation	In general, the partners will try to ensure a proper representation of the project in the key specialized and generalist activities such as congresses, workshops, international meetings, patient or medical associations meetings…
Evaluation	Description of indicators to evaluate and monitor each activity once executed
Implementation	Modification of the dissemination strategies based on the results of the previous evaluation step

The appropriate dissemination methodology will vary depending on the dissemination activity and the target audience. Sometimes, many methodologies could be combined to maximize the effect of the dissemination activity. Each activity will be carefully planned and only those methodologies that could add value, increase the target audience, increase the impact of the activity, etc… will be implemented. The table below shows a list of examples of methodologies that can be used either to enable interpersonal dialogue (two-way communication) or to disseminate the advances of the project and increase its share of voice in a massive way (one-way communication).

One-way communication	**Two-way communication**
- Scientific publications	- Dialogues, face-to-face conversation
- Newspapers and magazines	- Group discussions
- Press releases	- Conferences
- Newsletters	- Brokerage events
- Manuals	- School visits
- Brochures, booklets, flyers	- Round tables
- Letters	- Exhibitions
- Radio, Television	- Meetings
- Video	- Workshops

- Posters - Banners - Social Media - Website - Policy briefs	- Open days - Demonstrations and prototypes - Telephone calls - E-mail information (question and answer) - Social Media, Internet debate
Characteristics	
Potentially large audience Uses the credibility of the mass media	Smaller audience, lower costs, more effort Interactive, good for acquiring input Flexible (easy to change tone, strategy and content)

These methodologies are not exclusive and its combination will be considered to maximize the impact of each dissemination activity. For example, considering a conference of an AIDE member during an international meeting, previous diffusion to that activity could be offered in the project website, through the communication agencies of each partner institution, in the AIDE newsletter, social media… project brochures and flyers could be brought to the meeting and, if possible, the members of the project could participate in round tables, workshops, etc. and try to arrange personal meetings with key players of the sector (policy makers, collaborators, industry members…). Finally, a report of the activity could be published again in the project website, newsletter, social media…

As explained in the previous section, the strategy, methodologies and allocation of resources will be carefully planned with sufficient time to implement properly the adopted measures.

5. INDICATORS

According to the continuous improvement approach described in the **Quality Assurance Plan,** the outcomes of every dissemination action will be evaluated to modify/adapt the strategy (message, language, audience, materials, channels…) according to the results. Every dissemination activity will be carefully planned and its

results will be reported and evaluated in order to achieve the continuous quality improvement goal proposed in the **Quality Assurance Plan**.

To do so, a set of indicators has been established to define the expected results of each dissemination action. These indicators can make reference to a whole set of activities (e.g., the number of communication in international conferences per year) or to a concrete activity (impact of a communication in an international conference).

Once finished, any dissemination activity shall be appropriately described by the responsible of the activity in a written report. Those reports will be submitted to the EDC for its evaluation. The EDC will take the necessary actions to modify/adapt each dissemination strategy according to the previously obtained results. The EDC will also register each dissemination activity in the Dissemination plan and in the list of accomplished indicators.

QUALITY INDICATORS OF SCIENTIFIC DISSEMINATION

No.	Dissemination Activity	Way to measure	Dissemination achieved Runtime of the Project	Dissemination achieved One year after the end of the experiment
1	***Journal on Multimodal User Interfaces***	***Nº of Papers***	***2 Published***	***0***
2	***Plos One***	***Nº of Papers***	***2 Published***	***2 Published***
3	***Disability and Health Journal***	***Nº of Papers***	***1 Published***	***2 Published***
4	***Sensors***	***Nº of Papers***	***3 Published***	***0***
5	***Expert Systems with Applications***	***Nº of Papers***	***1 Published***	***2 Published***
6	***Journal of Neuroengineering and Rehabilitation***	***Nº of Papers***	***2 Published***	***2 Published***

7	***Assistive Technology***	***Nº of Papers***	***1 Published***	***1 Submitted***
8	***IEEE Robotics and Automation Magazine***	***Nº of Papers***	***0***	***1***
9	***Artificial Intelligence in Medicine***	***Nº of Papers***	***1 Published***	***2 Published***
10	***Computer Methods and Programs in Biomedicine***	***Nº of Papers***	***2 Published***	***2 Published***
11	***International Journal of HumanEComputer Studies***	***Nº of Papers***	***1 Published***	***0***
12	***Book Springer, Biosystems & Biorobotics Series***	***Number***	***0***	***1***
13	***Conferences***	***Nº of Papers***	***28***	***10***
14	***Conferences-Organization Workshops-Special Sessions***	***Number***	***6***	***2***
15	***New PhD theses***	***Number***	***5***	***3***

6. REPORT YEAR 1

6.1 DISSEMINATION ACTIVITIES

According with the objectives presented on the first version of the dissemination plan (D9.1), the AIDE consortium has put special care not only into communicating the project's result to the scientific community, but also into increasing the awareness about the project between the general society and specially among the patients and caregivers sector of the population.

These goals have been achieved by dividing our external dissemination activities into two main groups: scientific and generalist public. For each group, the pieces of information were selected according to their interests and the language, media and technical description were also adapted to the target audience. This way, scientific dissemination has been carried out mainly through the publication of scientific articles and presentation of results at international conferences. The general public as well as sectors of the audience that can be considered as important stakeholders for the project (patients, caregivers, industry, regulators…) have been reached via mass media appearances, presence in social networks and the project's website.

All these dissemination activities have been not isolated actions. According to the Dissemination Plan, they have been treated as complementary activities, in such a way that their impact has been maximized and the share of voice of each action has been increased thanks to the diffusion of each individual action through the rest of the project's dissemination channel (i.e. the assistance of a member of the consortium to a conference gains impact by getting published in the project's social networks, while the contribution to the conference appears into the conference proceedings book and this is linked into the project's website).

AIDE WEBSITE

The AIDE project website was made public during the fourth month of life of the project. Since the beginning, this website has been under constant development and the Consortium has put special care to keep it updated on a day-to-day basis with news and event announcements related to the AIDE project.

The main structure of the website consists of the following elements, which can be accessed by tabs placed on the top of the site (**Figure 9**):

- Main page which provides the overview of the project, events iCalendar, Twitter add-on and RSS channel link
- Consortium description
- Management Structure

- Scientific Structure and Work Packages description: this section shows the content of each Work Package and its distribution between the different phases of development of the project.
- Deliverables and Publications: The scientific publications related to the project and the Deliverables submitted to the European Commission are cited here. Links to the open access publications are also provided in this section
- News: This section will show the different events organized in the frame of the project or those where the consortium partners assist to in representation of the project.
- Press and Media: This section shows the appearances in mass media of the project.

Figure 9. Website home page and Menu Bar

With the objective of measuring the impact of the dissemination activities in the visibility of the project, the statistics on the number of visits are recorded on a monthly base to better measure the impact of the different dissemination activities carried out in the frame of the project. The metrics selected for the analysis have been:

1. **Visit:** The number of individual visitors that have browsed the project's web site. This parameters registers all visitors, independently of how many times the same visitor has visited the site.
2. **Unique Visit (Visit by Cookie):** Number of visits received by the IP address of a computer (always that cookies are enabled on the visitor's computer).
3. **Page View** (**Impression).** Measurement of the individual pages of the web site that are browsed during a visitor view.

The table below and **Figure 10** show the evolution of visits to the AIDE project's web site during the first year of the project:

Month	Unique Visit (Visit by Cookie)	Total Visits	Page View (Impressions)
May 2015	88	148	1539
June 2015	95	125	266
July 2015	111	136	265
Aug 2015	102	118	203
Sept 2015	172	214	2276
Oct 2015	171	229	752
Nov 2015	77	123	336
Dec 2015	79	129	780
Jan 2016	60	89	725
Total	**955**	**1311**	**7142**

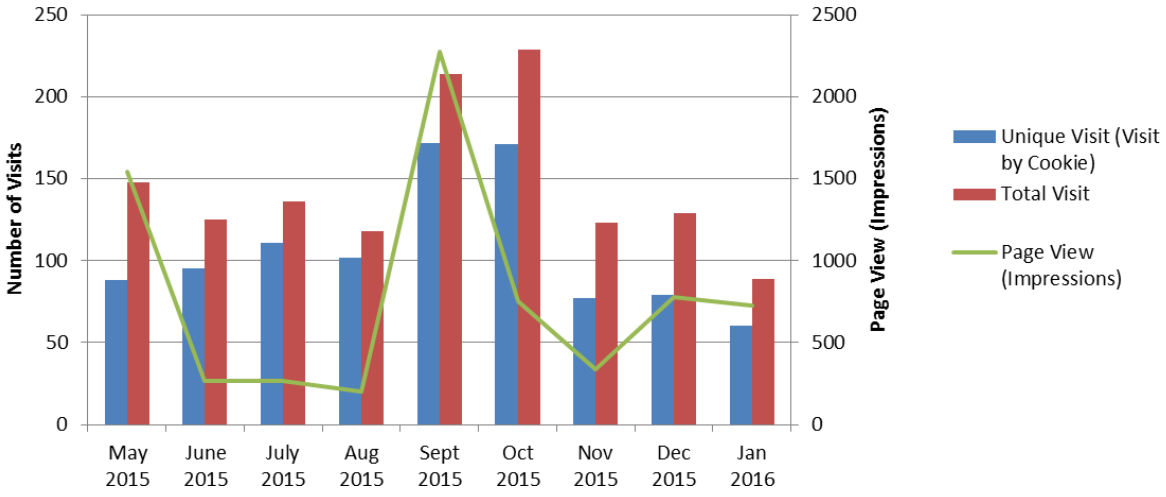

Figure 10. Analytics of the website visits

Since its online availability at the beginning of May 2015, the website has attracted over 1.311 visits with 7.142 impressions (page views).

Highest number of visits was recorded during the months of September and October, just after the creation of the Facebook account and the presentation of the project at two of the most important international Conferences on the topic:

- Engineering in Medicine and Biology Society (EMBC), 2015 37th Annual International Conference of the IEEE
- ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics

It is important to remark that the project was presented also during the Global Rehab Workshop that was hold at the 14th edition of the IEEE/RAS-EMBS International Conference on Rehabilitation Robotics (ICORR 2015), considerably increasing the impact of the dissemination action.

The total ciphers of visits show a constant stream of visitors and also reflect the effectivity and complementarity of the different dissemination media (congresses, social networks, website…).

We are aware that the project has started now to generate results, so the impact reached until now is consistent with the lifecycle of the project. However, it is the aim of the consortium to increase the number of visits for the second reporting period.

SOCIAL NETWORKS

To support overall dissemination and communication objectives during the first year of AIDE Project we have created specific accounts for social networks: **Twitter** (active from May 2015) and **Facebook** (from October 2015). AIDE presence in social networks can be accessed from (figures given are as of 15/01/2016):

- Twitter account: @aideproject (https://twitter.com/aideproject)

Followers: 57

Following: 131

Tweets: 70

- Facebook account: AIDE Project Community

Likes: 60

Total reach: 427

The criteria followed in these social networks to include information relevant for AIDE have been the most relevant information related to the topics of AIDE Project

as well as the activity of their partners related to the project. To convey a coherent message through social networks it is necessary to define the target groups that each social network aims to reach, namely:

- Professional and Patient communities in the Healthcare sector.
- Healthcare industry.
- Robotics and Healthcare Hardware and Software user communities.

Given past experience in dissemination using social networks, the strategies chosen to maximize impact have been the following:

- To try to make all the tweets informative and useful.
- To get more followers searching on Twitter to find people with similar interests and following those people. Then create interesting and relevant replies to their tweets, so they will reply back and at some point they will follow you back.
- To add hashtags to the tweets in order to target content relevant to the project.
- To create conversations mentioning the profiles involved in the tweet.
- To analyse the timelines of our followers in order to know when to tweet in order to reach the maximum number of followers and so engage with our community more effectively and obtain a larger number of retweets and replies.

The main objectives achieved in these first months of the project are the following:

- ✓ The profiles have been created.
- ✓ The profiles receive and publish interesting and relevant contents related to the topics of AIDE with periodic regularity.
- ✓ The monitoring of AIDE social networks has been based on community management tools, such as Twitter Analytics, Facebook Insights or SocialBro so we can measure users' reaction to our content and create a higher impact in social networks.
- ✓ The number of followers and impressions has grown steadily along the months.

The impact reached can be seen analysing the **Tweet Impressions** (how many times a tweet has been seen) summarized in **Figure 11**:

Month	Tweets Impressions
May	66
June	18
July	440
August	729
September	772
October	3051
November	2580
December	3786
TOTAL	11442

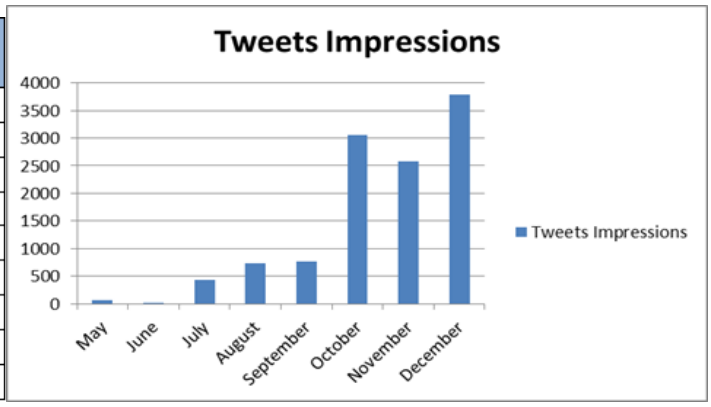

Figure 11. Twitter impressions

Another important milestone has been to get as influence followers the accounts of *@KimSerafini* with 14.500 followers (in September 2015) and *@eInclusionEU* with 1.795 followers (in December 2015), increasing our potential scope (see **Figure 12**)

Figure 12. Top Followers (influencers) of AIDE Twitter

We have also reached a high impact in the following **Tweets** (**Figure 13**) which achieved a high number of impressions and interactions of the followers.

Definitions:

- Retweet : The act of sharing another user's Tweet to all of your followers by clicking on the Retweet button.
- Like (formerly Favorite) : Liking a Tweet indicates that you appreciate it. You can find all of your likes by clicking the likes tab on your profile.

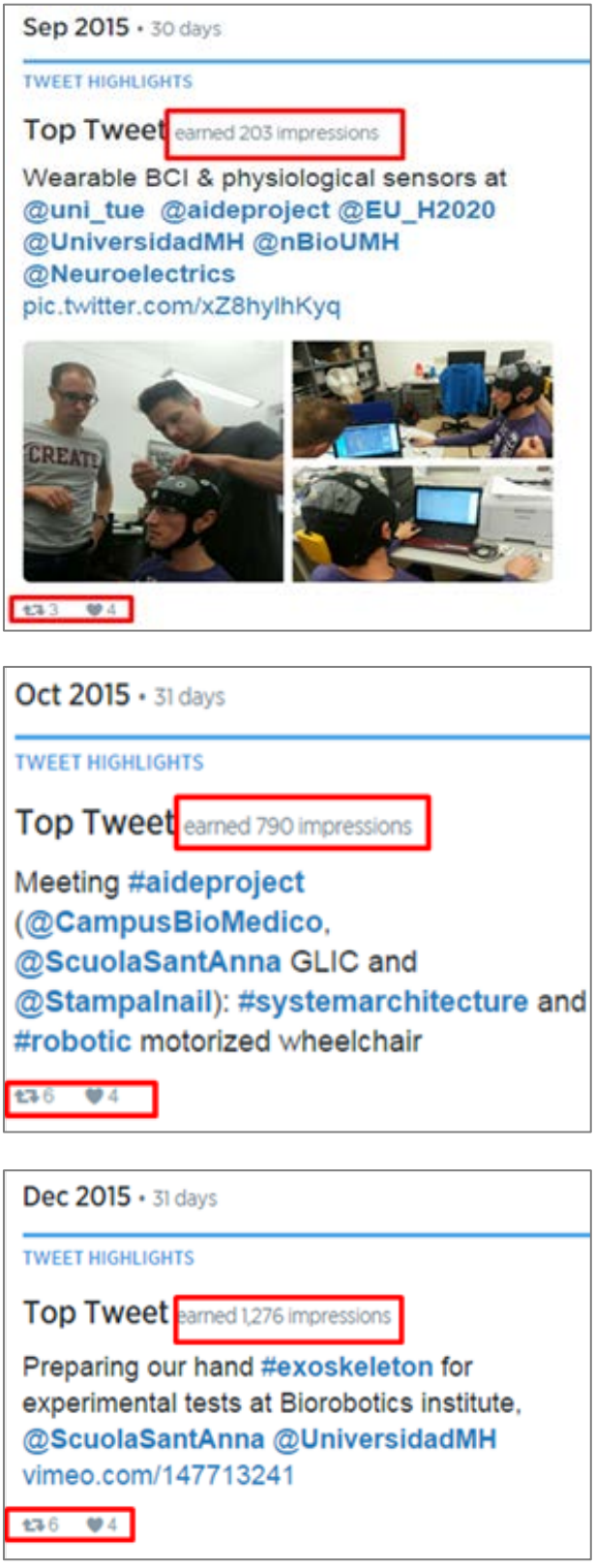

Figure 13. AIDE tweets that have obtained a higher impact

The impact reached in **Facebook** can be seen analysing the data shown in **Figure 14**:

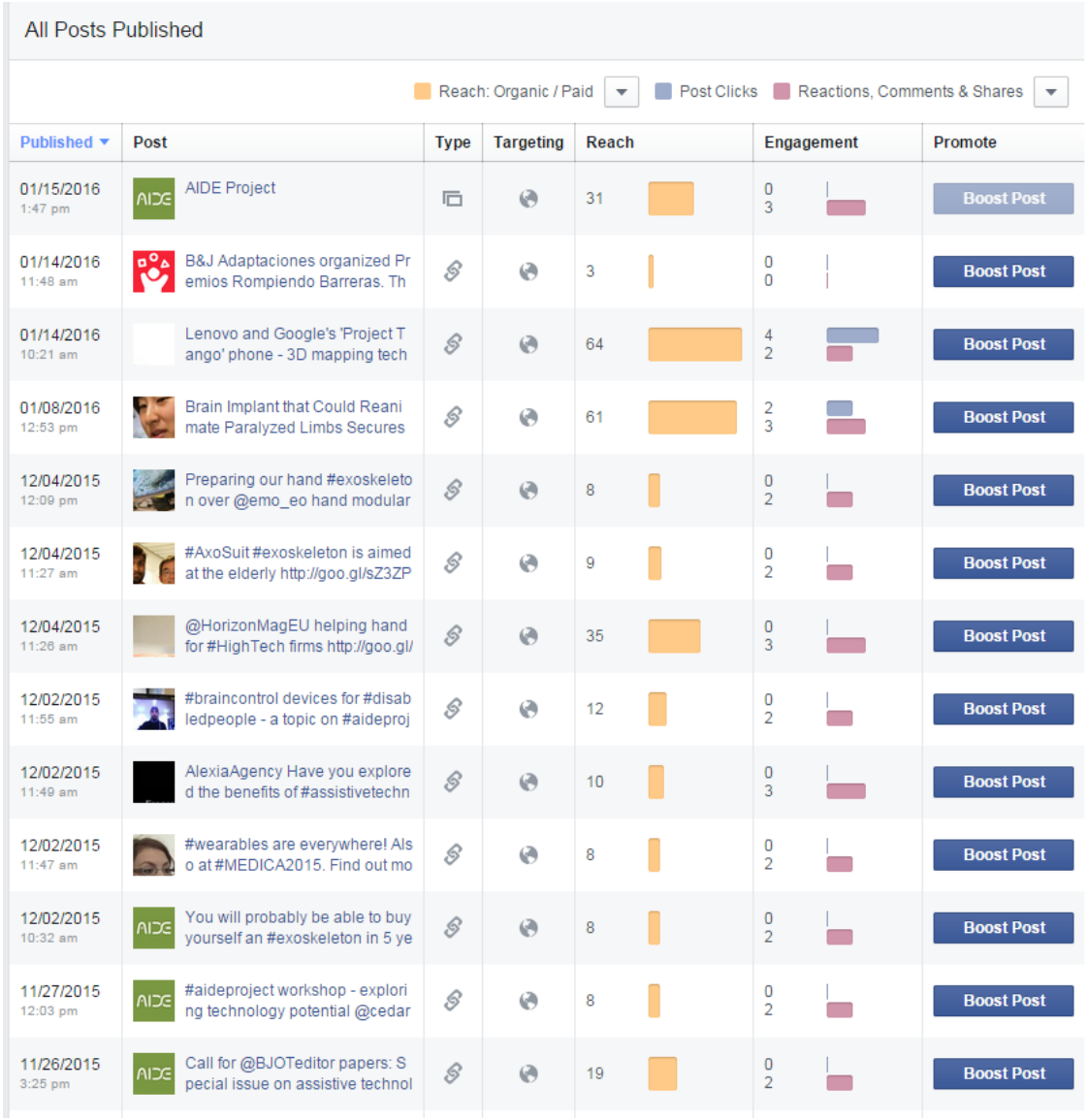

Figure 14. Impact reached in Facebook

The **Total Reach** of the Facebook posts is 427 impressions. Regarding the **Engagement** column, in most posts there are interactions, as reflected in the graph of Reactions, Comments and Shares. As we can see the impact of Twitter is much higher than Facebook, due to the fact that Twitter is a social network more oriented to technology and fits better in our area of work.

MASS MEDIA

As described in *Section 2: DISSEMINATION STRATEGY AND GOALS*, the AIDE partners are well aware about the importance of communicating the results of the project to the society. Undoubtedly, Mass Media (including TV and radio channels, printed and online press, blogs, podcasts…) are the most powerful tools to reach a wider sector of audience and to keep citizens informed about the objectives and results of the project.

In this sense, the Project Coordinator has tried to give visibility to the project during the first year of the project both at international and at national level. After the kick-off meeting, many press releases were submitted (See Annex II):

- Press release on "PANEUROPEAN NETWORKS HORIZON 2020: PROJECTS", July 2015. Press release on "Geriatric Area", February 2015.
- Press release "La Verdad", February 2015.
- Press release "La Vanguardia", February 2015.
- Press release on "Las Provincias", February 2015.
- Press release on "RUVID", February 2015.

The most remarkable publication is the press release on *Horizon2020projects.com,* along with the digital publication *Horizon 2020 Projects: Portal,* which are published by Pan European Networks Ltd (PEN). The objective with this publication has been to give visibility to the AIDE project at a European level, objective that we can consider as achieved thanks to the international distribution of the publication and to its target public (leading scientists, researchers and policy makers).

Five more press releases were published during the first year, three of them in generalist Spanish newspapers, one in the web portal of Valencian Network of Universities for the promotion of Research, Development and Innovation and another one in a specialized web portal for professionals of the geriatric sector.

The AIDE consortium aim is to highly increase the number of mass media appearances during the second year of the project, where the achieved goals will attract the attention of mass media and the general public. The discoveries and achievements of the research teams will be communicated to local, national and international mass media by press releases through the communication offices of the different entities. Each partner will manage independently their relationships with the local press.

It is also important to note that the project information was also published in "Community Research and Development Information Service (CORDIS). Projects & Results Service" in May 2015 (see Annex V).

SCIENTIFIC PUBLICATIONS

The scientific productivity and excellence of the research papers published by the AIDE consortium members is the main dissemination channel among the scientific community. Although a preliminary selection of scientific magazines and conferences was made in the proposal (See Section 5), some other publications and conferences have been included (Annex I and IV) whenever their scope exactly matches with the topics addressed by the project and their quality/impact factor reaches the minimum quality standards required by the AIDE consortium. Annex I shows a list of the scientific publications produced in the frame of the project. Annex III shows the detailed information about the "Assistive Technologies and Neuro-Rehabilitation" workshop that was organized jointly with the project's Kick-off meeting. Annex IV shows a list of the participation of the consortium members in International Conferences and Fairs. The table below shows a summary of the scientific dissemination activities performed during the first year of life of the AIDE project:

AIDE dissemination activities	Number
N° of Journal papers	3
N° of Conference papers	5
Conference/Fair participation	7
Organized Workshops	1
Awards	1

The number of scientific publications, considering both Scientific Journals and Proceedings ascends to a total of 8 communications. This number is quite close to the objective proposed by the consortium of publishing 10 journal papers per year. Having in mind that 8 publications have been made during the initial stage of the project, we foresee to highly surpass our estimations during the second and third years.

Our Quality Indicators also considered the attendance to international conferences and organization of workshops. A total of 28 communications to international conferences and the organization of 6 workshops have been estimated for the whole project. We have reached 1/4 of the scientific communications indicator during this first period of the project and 1 of the 6 foreseen workshops has also

been organized during 2015. Again, we expect an increase of these two indicators for the next period, associated with a more developed technical part of the project (See also Section 6.3 FORESEEN ACTIVITIES FOR YEAR 2)

A remarkable achievement during this first year of the project has been the award received by the Biorobotics Institute of Scuola Superiore Sant'Anna in Pisa, who received the KUKA Innovation Award 2015 for their development "ReTeLINK: Reciprocal Teleoperation of the LBR iiwa and an Interactive Exoskeleton" the 17 April 2015 in Augsburg/Hannover (Germany). The awarded development corresponds to a first version of the wearable exoskeleton that will be adapted for the AIDE project.

6.2 INTERNAL COMMUNICATION

Internal dissemination is an essential aspect of this project. The consortium has created all an internal dissemination environment in order to favour the share of knowledge and to ensure cohesion within the consortium. A series of internal dissemination activities have been implemented during the first year of the project fostering the exchange of information and promoting productive collaboration by sharing a common scientific and technological framework (e.g. via skype meetings among the partners, private repository on the project website).

The following actions have been accomplished:

- A dedicated email address (disseminationaide.ucbm@gmail.com);
- A Google Group of the consortium (dissemination_aide@googlegroups.com);
- Monthly Skype meetings for each WP
- Extraordinary Skype meetings of the different management boards
- Follow-Up Meetings:
    - Kick-off meeting (February 18-19th, 2015 Elche, SPAIN);
    - Belfast meeting (July 22-23th, 2015 Belfast, UK);
    - Tübingen meeting (January 21-22th, Tübingen, GERMANY);
- Creation of a collaborative repository in Google Drive.

6.3 FORESEEN ACTIVITIES FOR YEAR 2

The AIDE Exploitation and Dissemination Committee has designed a calendar recovering the most important events to disseminate the results of the project. This calendar has been divided in two categories: Conferences and Special Issues of scientific Journals. Apart from those activities, the 2016 dissemination calendar includes the creation of a LinkedIn profile, the attendance to trade fairs, the organization of workshops/conferences and the publication of the project results in the CORDIS magazine "*Research*EU Results*":

- **Call For Papers – Conferences:**
  - **Assistive Technology Conference of New England:** http://www.assistivetechnologyconference.com
    Call for papers will begin in January 2016
  - **International Conference on Computers Helping People with Special Needs**:
    http://www.icchp.org
    Deadline for paper: February 1, 2016
    Deadline for Special Thematic Sessions: February 1, 2016
    Deadline for Meetings and Project Presentations: June 1, 2016
    Deadline for Exhibition and Posters: July 1, 2016
  - **Annual Rehabilitation Engineering and Assistive Technology Society of North America RESNA:**
    http://www.resna.org/news-events/annual-meeting/promoting-access-assistive-technology
    Deadline for paper: February 17, 2016
  - **Annual International Conference of the IEEE Engineering in Medicine and Biology Society:**
    (http://embc.embs.org/2016/)
    Deadline for Workshops, Tutorials, Invited Sessions, Mini-Symposia and Special Sessions: February 1, 2016
    Deadline for paper: February 22, 2016
  - **7° Forum Italiano di Ambient Assisted Living**:
    http://www.foritaal2016.it/
    Deadline for paper: February 29, 2016
  - **IEEE/RSJ International Conference on Intelligent Robots and Systems:**
    http://www.iros2016.org/
    Deadline for paper: March 1, 2016
    Deadline Workshop proposal: March 7, 2016
  - **Fifth International Symposium on New Frontiers in Human-Robot interaction:**
    http://www.mahasalem.net/AISB2016/HRI-AISB2016-Symposium.html
    Deadline for paper: March 1, 2016
  - **IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics:**
    http://www.ieeebiorob2016.org/
    Deadline for paper: March 4, 2016
    Deadline for workshop proposal: March 4, 2016
  - **International Symposium on Wearable Robotics:**
    http://www.werob2016.org/
    Deadline for paper: April 1, 2016
  - **3rd International Conference on NeuroRehabilitation**:
    http://www.icnr2016.org
    Deadline for paper: April 1, 2016

- **Call For Papers – Journals:**

  - **Special Issue on Cognitive Agents and Robots for Human-Centred Systems: New models, methods and successful applications.**
    http://www.tech.plym.ac.uk/SoCCE/CRNS/staff/adinuovo/TAMD/Special_issue_TAMD_call_for_papers.htm
    Deadline: March 1, 2016
    The special issue will be published in the IEEE Transactions on Cognitive and Developmental Systems (new name of IEEE Transactions on Autonomous Mental Development) (IF: 1.478)
    Scope: The aim of this special issue is to collect innovative research and developments investigating all the aspects of modelling and applying Cognitive Agents and Robots in Human-Centric environments, such as novel engineering principles, models and applications of cybernetic systems capable to autonomously progress their capabilities in an open-ended process while socially interacting with human beings or with other artificial agents in a real environment to benefit humans. The special issue particularly welcomes all the contributions in the area of Artificial Cognitive Systems applied to human-centric environments, with particular interest (but not limited to) the following topics:
    • The development of perceptual, motor, cognitive, emotional, social, and communication skills in artificial systems and robots
    • Computational models of human cognition and interaction
    • Engineering applications of Developing Cognitive Systems
    • Use of robots in applied human-centred settings
    • Epistemological foundations and philosophical issues.
    • Artificial Agent cognitive development
    • Natural language understanding
    • Standard tools for the design of Cognitive Systems
    • Medical Systems and Diagnosis
    • Serious Games Theory and Applications
    • Evolutionary Robotics
    • Cognitive Systems for human wellbeing
    • Ambient Assisted Living via Cognitive Agents
    • Architectures for cognitive development and open-ended learning

  - **Special Issue on Rehabilitation and Assistive Robotics.**
    http://ade.sagepub.com/site/callforpapers/rehabilitation-assistive-robotics.xhtml
    Deadline: February 19, 2016
    The special issue will be published in Advances in Mechanical Engineering (IF: 0.575).

Scope: This special session aims to bring together robotic researchers performing leading research in the fields of Rehabilitation and Assistive robotics. Specific topics of interest include, but are not limited to:

- Upper-limb Rehabilitation robotics
- Lower-limb Rehabilitation robotics
- Multimodal interfaces
- Assistive robotics
- Wearable robotics
- Telerehabilitation
- Technologies to Enhance Mobility and Function for Individuals with Severe Disability (e.g. Spinal Cord Injury, ASL, Muscle Dystrophy, etc.)
- Robotic Prosthesis and Orthotics

- **Special Issue on Human-Robot Interaction**.
  http://ijr.sagepub.com/content/35/1-3/301.full
  Deadline: March 1, 2016
  The special issue will be published in The International Journal of Robotics Research (IF: 2.54).
  Scope: This issue seeks papers on computational approaches that demonstrably enable safe, efficient and seamless interaction between humans and robots. Research areas include physical human-robot interaction, supervisory control, shared autonomy in teleoperation and brain-machine interaction, and human-robot mixed-initiative planning and decision-making. Technical approaches include algorithms and frameworks for communication, learning, planning, decision-making, and control that enable robots to better collaborate with human partners. Methods and survey papers that demonstrate effectiveness of computational approaches across multiple research areas, or draw novel insights and relationships among works are also encouraged. Paper topics include methods for:
  - Physical and psychological safety in human-robot interaction;
  - Human-machine collaboration for assistive, wearable, and rehabilitation robotics;
  - Communication and coordination in distributed human-robot teams;
  - Recognition and prediction of human state;
  - Robot motion planning with consideration of human presence and motion;
  - Robot task planning with consideration of human activity prediction;

- Robot communication;
- Shared autonomy in human-vehicle interactions;
- Shared autonomy in dexterous manipulation.

o **Special Issue on Human-oriented Approaches for Assistive and Rehabilitation Robotics.**
www.journals.elsevier.com/robotics-and-autonomous-systems/call-for-papers/special-issue-on-human-oriented-approaches-for-assistive-and/
Deadline: June 1, 2016
The special issue will be published in Robotics and Autonomous Systems (IF: 1.256)
Scope: The special issue gathers knowledge from the disciplines mentioned above with respect to human-oriented approaches in assistive and rehabilitation robotics. With that it contributes to revealing goals considering the human and challenges emerging from this and finally fosters the elaboration of a systematic framework that covers human issues in development and operation. Contributions should emphasize on human-oriented approaches for application in robotic interventions and analysis as well as robot design and control.
Paper topics include:

- Technical developments (design, control, sensors, actuators, user interfaces, etc.)
- Investigations of the neural and psychological background
- Definition of safety, functionality, effectiveness, and acceptance requirements
- Methodical approaches to human-oriented design
- Structured assessment of intervention effectiveness in user studies
- Applications in prostheses, exoskeletons, and other wearable robotics

- **Official EU Dissemination Channels:**
Research*EU Results Magazine
http://cordis.europa.eu/research-eu/magazine_en.html
Foreseen date: As soon as the results generated allow to produce a communication in the line of this magazine, the consortium will contact with the editors to know the Special features that are foreseen during 2016. If there is foreseen to publish an Issue with a special feature aligned with the AIDE project topic, we will try to appear on it to maximize the impact.

- **Attendance to Trade Fairs:**
  - Name of the event: Rehacare
  - Place and location: Dusseldorf, Germany 28 Sep-01 Oct 2016
  - Website: http://10times.com/rehacare
  - Estimated number of visitors: 55,000
  - Estimated number of Exhibitors: 800
  - Topics: Rehabilitation, Prevention, Inclusion, Care
  - Forums and activities;
    - REHACARE Forum
    - Forum "Living with care @home"
    - Focal Topic "Training & Working"
    - Focal Topic "Brain + Eye + Ear"
    - Focal Topic "Mobility + Traveling"
    - Focal Topic "Sports, Fun + Culture"
    - Children at REHACARE

- **Workshop/Conference Organization:**

  - **INTERNATIONAL WORKSHOP ON ASSITIVE & REHABILTATION TECHNOLOGY**
    - Foreseen Date: July/September, 2016
    - The Workshop will be advertised in http://cordis.europa.eu/events

  - **VI ASSISTIVE TECHNOLOGIES CONFERENCE**
    - Yearly organized by BJ Adaptaciones
    - Foreseen Date: To be defined (April-May and Nov-Dec 2016)
    - Estimated number of visitors: 800
    - Attendee profiles: End users, professionals (therapists, caregivers, teachers from special education schools, social workers, etc.

- **Creation of a LinkedIn profile**

  Foreseen Date: March 2016 (The account has not been yet created due to issues with the ownership of the profile and the terms and conditions of LinkedIn. We have managed to solve this issue creating the profile via the UMH, so it will be available as soon as possible).

6.3 CONCLUSSIONS

This document shows a summary of the dissemination activities carried out in the frame of the AIDE project during the period comprised between February 2015 and January 2016.

All these activities have been planned and developed according to the Dissemination plan (Deliverable 9.1) that was presented on July 2016. The results of the activities carried out during the first year of the project goes beyond our expectations due to the fact that the project is just starting and the project still does not generates a considerable amount of publishable results.

There are no major areas of concern regarding the obtained results. All the consortium partners have shown a high commitment with the dissemination activities during this period.

According to the proposed dissemination activities for the next period and with all the knowledge gained in dissemination during 2015, we expect to highly increase the impact of the project during 2016.

ANNEX I SCIENTIFIC PUBLICATIONS

JOURNALS

TITLE	Supervised and Dynamic Neuro-Fuzzy Systems to Classify Physiological Responses in Robot-Assisted Neurorehabilitation.
AUTHORS	Lledó LD, Badesa FJ, Almonacid M, Cano-Izquierdo JM, Sabater-Navarro JM, Fernández E, Garcia-Aracil, N.
JOURNAL	PLoS ONE
VOLUME	10(5)
PAGES	doi: 10.1371/journal.pone.0127777
YEAR	2015
IMPACT FACTOR	3.534

TITLE	Upper-limb kinematic reconstruction during stroke robot-aided therapy
AUTHORS	Papaleo, E., Zollo, L., Garcia-Aracil, N., Badesa, F.J., Morales, R., Mazzoleni, S., Sterzi, S. and Guglielmelli, E.
JOURNAL	Medical & biological engineering & computing
VOLUME	53
PAGES	815-28
YEAR	2015
IMPACT FACTOR	1.726

TITLE	Multimodal adaptive interfaces for 3D robot-mediated upper limb neuro-rehabilitation: a bio-cooperative approach
AUTHORS	Davide Simonetti , Loredana Zollo , Eugenia Papaleo, Giorgio Carpino, and Eugenio Guglielmelli
JOURNAL	Robotics and Autonomous Systems, a Host Journal for the
YEAR	2016 (accepted)
IMPACT FACTOR	1.256

PROCEEDINGS

TITLE	Exploring the research into smart home environments: A review of the literature and highlighting opportunities for future work
AUTHORS	Martin, S. and Daly, J
PROCEEDING	Telemedicine & eHealth 2015: Wearables and the caring home, London (23rd- 24th of November 2015)
YEAR	2015

TITLE	The Smart Environment Controlled by the Intelligent Human: at the interface
AUTHORS	McCullagh, P. Daly, J and Martin, S.

PROCEEDING	5th Dutch Bio-Medical Engineering Conference
YEAR	2015

TITLE	Reconstrucción cinemática de las variables articulares del miembro superior en terapias asistidas por robots
AUTHORS	Arturo Bertomeu-Motos, Ricardo Morales, Jorge A. Díez, Luis D. Lledó, Francisco J. Badesa, Nicolas Garcia-Aracil.
PROCEEDING	V Congreso Internacional de Turismo para Todos: VI Congreso Internacional de Diseño, Redes de Investigación y Tecnología para todos DRT4ALL, 2015
VOLUME	1
PAGES	561-582
YEAR	2015

TITLE	**Kinematic reconstruction of the upper limb joints in planar robot-aided therapies**
AUTHORS	Arturo Bertomeu-Motos, Ricardo Morales, Jorge A. Díez, Luis D. Lledó, Francisco J. Badesa, Nicolas Garcia-Aracil.
PROCEEDING	ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics
PAGES	888 – 893 (D.O.I.: 10.1109/ICORR.2015.7281315)
YEAR	2015

TITLE	**"Kinematic reconstruction of the human arm joints in robot-aided therapies with Hermes robot"**
AUTHORS	Arturo Bertomeu-Motos, Ricardo Morales, Luis D. Lledó, Jorge A. Díez, Jose M. Catalan, Nicolas Garcia-Aracil.
PROCEEDING	Engineering in Medicine and Biology Society (EMBC), 2015 37th Annual International Conference of the IEEE
PAGES	1190 - 1193
YEAR	2015

ANNEX II MASS MEDIA APPEARANCES

TYPE OF EVENT	**Press release on "PANEUROPEAN NETWORKS HORIZON 2020: PROJECTS", a digital publication dedicated to the European Commission's latest research and innovation framework programme, covering developments in policy, ongoing projects and research investigations.**
PARTNER IN CHARGE OF THEAPPEARANCE	UMH
DATE	July 2015
LINK	http://aideproject.umh.es/files/2015/09/2020-horizon.pdf

PROFILE PROFILE

The gift of assistance

Navigating everyday life is something most people take for granted, but there are those who need assistance with basic tasks. The AIDE project works to bring independence to people with disabilities

Around 80 million people in the EU, a sixth of its population, have a disability. They are often hindered from full social and economic participation by various barriers related to physical, psychological and social factors. Moreover, poverty rates amongst people with disabilities are 20% higher than average.[1] Over 30% of people above the age of 75 are impaired to some extent, and over 20% are severely impaired. The percentage of people with disabilities is set to rise as the EU population ages.

According to Article 9 of the United Nations Convention on the Rights of Persons with Disabilities signed by the European Commission in 2010,[2] 'accessibility' is a basic right for all persons with disabilities. The purpose of accessibility is to enable persons with disabilities to live independently and to participate in all aspects of life.

Nowadays, the recent trends in assistive technology for supporting activities of daily living (ADL), mobility, communication and so on are based on the integration of the capabilities of the user and the assistive technologies.[3] The improvement of the interaction and co-operation between user and assistive technologies can be split into three main areas: 1) improvements of the assistive devices, such as mechanical parts, electronic parts, etc.; 2) improvements of the user technology interface; and 3) improved shared control between the user and assistive technology.

Fig. 1 Example of an AIDE multimodal perception system customised for users without functional control of the arm and/or hand and unable to speak (due to a speech disorder or aphasia). In this group of users, the multimodal interface could be composed of a hybrid brain machine interface system to send commands to the high level control of a robot, a wearable eye-tracking system (glasses) to interact with the user control software, a commercial wearable device for physiological signals' monitoring, and RGB depth cameras to sense and understand the environment and context to automatically recognise the necessary abilities for different activities of daily living.

The AIDE project has the ambition to strongly contribute to the improvement of the user technology interface by developing and testing a revolutionary modular and adaptive multimodal interface customisable to the individual needs of people with disabilities. It will, furthermore, focus on the development of a totally new shared control paradigm for assistive devices that integrates information from the identification of residual abilities, behaviours, emotional state and intentions of the user on one hand, and analysis of the environment and context factors on the other.

Consortium

The AIDE consortium consists of nine groups from four different countries (Italy, Spain, the United Kingdom and Germany):

- Five universities: Miguel Hernández University of Elche, Scuola Superiore Sant'Anna, Università Campus Bio-Medico di Roma, Universitat Politècnica de València, and Eberhard Karls Universität Tübingen;
- One research and development centre: Fraunhofer-Institut für Produktionstechnik und Automatisierung;
- One large industrial partner: ZED Worldwide S.A.;
- One SME: BS Adaptaciones; and
- One non-profit organisation working with disabled people: the Cedar Foundation.

The AIDE project co-ordinator is Professor Nicolas Garcia Aracil, who leads the Rehabilitation and Assistive Robotics Unit of the Biomedical Neuroengineering group at Miguel Hernández University of Elche and has already participated in other Seventh Framework Programme projects.

Concept and approach

The World Health Organization (WHO) introduced the International Classification Of Functioning (ICF),[4] Disability And Health to specify changes in body function and experiences of potential end users of the AIDE system. This classification allows evaluating what potential end users could achieve in a standard environment (level of capacity) and compares it with what they actually do in their usual environment (level of performance). Like the ICF, the AIDE concept focuses on health and functioning rather than on disability, synthesising the key elements and understanding derived from a medical and social model of disability.

The AIDE concept goes beyond the current state-of-the-art in using a novel modular multimodal perception system to customise an adaptive multimodal interface towards disabled people's needs (Fig. 1). The multimodal interface will analyse and extract relevant information from the identification of residual abilities, behaviours, the emotional state and intentions of the user, as well as from analysis of the environment and context factors. Finally, the human-machine co-operative system will be designed in accordance with specific user needs. A series of applications for the AIDE system have been identified across several domains in which disabled people could greatly benefit:

Fig. 2 NEMODrive system hanging from an external support which only has a weight-compensation system. The final aim of the AIDE project is to shift such support from the arrangement depicted into one included in the wheelchair structure

1 Communication: The main objective is to improve the communication of severely disabled people for social autonomy. The user will be assisted in communicating with her/his relatives and friends. Communication will be provided by using standard internet services such as email, Skype, WhatsApp and standard social networks (i.e. Facebook and Twitter). The developed system will provide support for web browsing, as well.

2 Home automation: The goal is to allow severely disabled people to interact with the devices present in their smart home environments. In short, the user will be supported by an AIDE multimodal interaction system in daily activities, including turning lights, radio and televisions on/off, answering or initiating telephone calls, locking or unlocking a door, closing or opening drapes, changing environmental settings, and in medical emergency situations.

3 Wearable robots for assisting in ADL: The aim here is to adaptively and dynamically modify the level of assistance provided by the intelligent robotic exoskeleton in accordance with specific user needs (Fig. 2); and

4 Entertainment: Severely impaired people have reported that participation in normal entertainment activities, e.g. playing a computer game or watching a movie, is an important need. Thus, a main objective is to support the user in playing computer games, expressing his/her feelings, playing music, and/or engaging in painting, and so on.

Impact

The AIDE project wants to spur a breakthrough in multimodal human-machine interaction technologies for empowering people with disabilities to participate in society, by adopting a multidisciplinary team of experts in multimodal interfaces, robotics, human sciences, computer science and neurosciences to carry out an in-depth investigation into modular, customisable and adaptive multimodal interfaces as a paradigm of 'assisting as needed', adapting the multimodal interface to the residual capabilities of the disabled persons, safeguarding self-perception, movement control and first-hand interaction.

Moreover, AIDE has the ambition of strengthening European industrial innovation capacity and competitiveness in the worldwide market of assistive ICT and assistive wearable robotics, developing a novel, adaptive, multimodal interface to break the 'bottleneck' of the seamless and efficient use of highly sophisticated and powerful assistive devices, including the current and future wearable robotic exoskeletons.

Social impact

AIDE primarily aims to precisely deliver and evaluate a revolutionary modular and adaptive multimodal interface that is customisable to, as to enable people with acquired brain injury, multiple sclerosis, and spinal cord injury to fully participate in society.

The disabilities outlined above have significant adverse socioeconomic impact for individuals but also society as a whole. These disabilities place restrictions on an individual's ability to participate in mainstream roles and specifically to engage in gainful work. Disabled people make up a growing percentage (between 12-16%) of the working-age population, but rates of employment remain low. AIDE will support participants to access resources and tools that may also improve their employability options.

References

1 European Commission (2013). People with disabilities have equal rights. 3rd European Disability Strategy 2010-2020. ISBN: 978-92-79-28184-6

2 United Nations. Convention on the Rights of Persons with Disabilities and Optional Protocol

3 Cesar R.C., Singh D. J., Erazquin M.L., Cruz L., Rodgers R.M., Federowicz D. J. (2012). Recent trends in assistive technology for mobility. Journal of Neuroengineering and Rehabilitation 9:20

4 World Health Organization (2002). Towards a common language for functioning, disability and health. Available at www.who.int/classifications/icf/beginnersguide.pdf?ua=1. Accessed 15 April 2014

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TYPE OF EVENT	**Press release on "*Geriatric Area*", a specialized web portal for professionals of the geriatric sector**
PARTNER IN CHARGE OF THEAPPEARANCE	UMH
DATE	04/02/2015
LINK	http://geriatricarea.com/investigan-interfaces-multimodales-para-la-asistencia-personas-con-discapacidad/

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By GeriatricArea | 4 febrero, 2015 0 Comments

Investigan interfaces multimodales para la asistencia a personas con discapacidad

Con el objetivo de mejorar las interfaces multimodales para la asistencia a **personas con discapacidad**, la **Universidad Miguel Hernández** (UMH) está coordinando un proyecto de investigación liderado por **Nicolás García**, profesor del Grupo de Investigación de **Neuroingeniería Biomédica** de esta universidad.

El sistema AIDE tiene el objetivo mejorar la autonomía de las personas con discapacidad mediante una serie de aplicaciones en distintos campos

El proyecto europeo de investigación "Interfaces multimodales adaptativos para asistir a personas discapacitadas en actividades de la vida diaria" (AIDE, en sus siglas en inglés), tiene como objetivo contribuir a la **mejora de la interfaz usuario-tecnología** mediante el desarrollo de una interfaz multimodal modular y adaptable a las necesidades individuales de las personas con discapacidad.

Para ello, este estudio desarrollará durante tres años un sistema multimodal que analizará y extraerá información relevante de la identificación de las capacidades residuales, de los comportamientos, del estado emocional y de las intenciones del usuario.

Además, extraerá información del análisis del entorno y de factores de contexto y desarrollará un sistema de control compartido de los dispositivos de ayuda, que integrará la información multimodal proporcionada por el interfaz, que **se adaptará a las necesidades específicas de cada usuario.**

En definitiva, el sistema AIDE tiene el objetivo de beneficiar a las **personas con discapacidad** mediante una serie de aplicaciones en distintos campos, uno de ellos la comunicación, donde la prioridad es mejorarla para que personas con discapacidad grave puedan **comunicarse con sus familiares y amigos** mediante el uso de servicios estándar de internet como el correo electrónico o las aplicaciones Skype o whatsapp. También, mediante redes sociales como Facebook y Twitter. El sistema desarrollado,, proporcionará además apoyo para la navegación web.

Asimismo, este proyecto tiene como objetivo dar soporte a las personas con discapacidad para **interactuar con sistemas domóticos**, que permiten automatizar las viviendas para el control de su entorno como apagar o encender las luces, la televisión, contestar o iniciar una llamada telefónica, así como comunicar situaciones de emergencia.

Y es más, con este programa as personas con discapacidad se beneficiarán de **robots vestibles para la asistencia en tareas cotidianas** mediante la modificación de forma adaptativa y dinámica del nivel de asistencia de un exoesqueleto robótico inteligente con arreglo a las necesidades específicas del usuario.

Este proyecto, liderado por la **Universidad Miguel Hernández** (UMH) y financiado por el programa de investigación e innovación de la Unión Europea Horizon 2020, tiene un presupuesto de 3,4 millones de euros y cuenta con la participación de 9 instituciones y empresas de Italia, Alemania, Gran Bretaña y España.

TYPE OF EVENT	**Press release on the regional edition of the Spanish national newspaper "*La Verdad*"**
PARTNER IN CHARGE OF THEAPPEARANCE	UMH
DATE	04/02/2015
LINK	http://www.laverdad.es/alicante/elche/201502/04/proyecto-europeo-para-asistencia-20150204015614-v.html

LA VERDAD

ELCHE

La UMH, en un proyecto europeo para asistencia a discapacitados

El profesor Nicolás García coordina el grupo AIDE, que desarrolla un sistema que mejorará la comunicación a través de internet y permitirá interactuar con robots

El profesor del Grupo de Investigación de Neuroingeniería Biomédica de la Universidad Miguel Hernández (UMH) de Elche Nicolás García coordina el proyecto europeo de investigación 'Interfaces multimodales adaptativos para asistir a personas discapacitadas en actividades de la vida diaria' (AIDE, en sus siglas en inglés).

El sistema tiene el objetivo de beneficiar a las personas con discapacidad mediante una serie de aplicaciones en distintos campos. Según los investigadores, uno de estos ámbitos es la comunicación, donde se busca que personas con discapacidad grave puedan comunicarse con sus familiares y amigos mediante el uso de servicios estándar de internet como el correo electrónico o las aplicaciones Skype o Whatsapp. También, mediante redes sociales como Facebook y Twitter. El sistema desarrollado, además, proporcionará apoyo para la navegación web.

Asimismo, este proyecto tiene como objetivo dar soporte a las personas con discapacidad para interactuar con sistemas domóticos, que permiten automatizar las viviendas para el control de su entorno como apagar o encender las luces, la televisión, contestar o iniciar una llamada telefónica, así como comunicar situaciones de emergencia.

Con este programa, además, las personas con discapacidad se beneficiarán de robots vestibles para la asistencia en tareas cotidianas mediante la modificación de forma adaptativa y dinámica del nivel de asistencia de un exoesqueleto robótico inteligente con arreglo a las necesidades específicas del usuario. Además, el sistema AIDE dará soporte a tareas de entretenimiento para poder jugar con un videojuego, ver una película, escuchar música o pintar.

El objetivo de este estudio es contribuir a la mejora de la interfaz usuario-tecnología mediante un desarrollo multimodal modular y adaptable a las necesidades individuales de las personas con discapacidad. El proyecto tiene un presupuesto de 3,4 millones de euros y en él participan nueve instituciones y empresas de Italia, Alemania, Gran Bretaña y España.

Este estudio está financiado por el programa de investigación e innovación Horizon 2020 de la UE y desarrollará durante tres años un sistema multimodal, que analizará y extraerá información relevante de la identificación de las capacidades residuales, de los comportamientos, del estado emocional y de las intenciones del usuario.

Además del profesor García, el equipo incluye a los investigadores de la UMH Eduardo Fernández y José María Sabater.

TEMAS Universidad Miguel Hernández (UMH) . Elche/Elx . Educación

TAGS proyecto, europeo, asistencia, discapacitados

comentarios Deja tu comentario

LO MÁS

TYPE OF EVENT	**Press release on the regional edition of the Spanish national newspaper "*La Vanguardia*"**
PARTNER IN CHARGE OF THEAPPEARANCE	UMH
DATE	03/02/2015
LINK	http://www.lavanguardia.com/local/valencia/20150203/54426804518/la-umh-lidera-un-proyecto-europeo-para-mejorar-la-vida-de-los-discapacitados.html

LA VANGUARDIA | Comunidad Valenciana

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Local Comunidad Valenciana

La UMH lidera un proyecto europeo para mejorar la vida de los discapacitados

Comparte en Facebook Comparte en Twitter

Temas relacionados: Whatsapp Skype Alemania Italia

03/02/2015 14:19

Elche (Alicante), 3 feb (EFE).- La Universidad Miguel Hernández (UMH) de Elche coordina un proyecto europeo de investigación con el que desarrollar diversas aplicaciones que permitan asistir a personas discapacitadas en las actividades cotidianas.

El proyecto, denominado "Interfaces multimodales adaptativos para asistir a personas discapacitadas en actividades de la vida diaria", tiene un presupuesto de 3,4 millones de euros, financiado por el programa de investigación e innovación de la Unión Europea Horizon 2020, en el que participan instituciones y empresas de Italia, Alemania, Gran Bretaña y España.

Un trabajo coordinado por el profesor del grupo de investigación de Neuroingeniería Biomédica de la UMH, Nicolás García, según han explicado hoy fuentes de este centro universitario.

Su objetivo es el de contribuir a la "mejora de la interfaz usuario-tecnología mediante el desarrollo de una interfaz multimodal modular y adaptable a las necesidades individuales de las personas con discapacidad", ha especificado.

Este sistema pretende beneficiar al colectivo de discapacitados mediante una serie de aplicaciones en varios campos, como la comunicación.

De esta forma, personas con discapacidad grave podrán comunicarse con familiares y amigos a través de servicios estándar de Internet como el correo electrónico, la navegación web, las aplicaciones Skype o Whatsapp, y las redes sociales (Facebook y Twitter).

También se les podrá dar soportes para interactuar con sistemas domóticos que permiten automatizar las viviendas para el control de su entorno, como apagar o encender las luces, la televisión, contestar o iniciar una llamada telefónica, así como comunicar situaciones de emergencia.

Además de beneficiarse de "robots vestibles para la asistencia en tareas cotidianas mediante la modificación, de manera adaptativa y dinámica del nivel de asistencia de un exoesqueleto robótico inteligente con arreglo a las necesidades específicas del usuario", según han señalado las mismas fuentes.

Incluso, dar soporte a tareas de entretenimiento para poder jugar con un videojuego, ver una película, escuchar música o pintar.

Durante tres años se desarrollará un sistema multimodal, que "analizará y extraerá información relevante de la identificación de las capacidades residuales, comportamientos, estado emocional y las intenciones del usuario", según las citadas fuentes.

1011235

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Marcela Topor, la nueva "primera dama" de Catalunya

Muere David Bowie a los 69 años

Anna Gabriel: "Se nos dijo que la cabeza de un israeli valía por diez de palestinos"

El Rey no recibirá a Carme Forcadell

TYPE OF EVENT	**Press release on the regional newspaper "*Las Provincias*"**
PARTNER IN CHARGE OF THEAPPEARANCE	UMH
DATE	03/02/2015
LINK	http://www.lasprovincias.es/agencias/valencia/201502/03/lidera-proyecto-europeo-para-303102.html

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La UMH lidera un proyecto europeo para mejorar la vida de los discapacitados

03 Febrero, 2

AGENCIAS

Elche , 3 feb .- La Universidad Miguel Hernández (UMH) de Elche coordina un proyecto europeo de investigación con el que desarrollar diversas aplicaciones que permitan asistir a personas discapacitadas en las actividades cotidianas.

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También se les podrá dar soportes para interactuar con sistemas domóticos que permiten automatizar las viviendas para el control de su entorno, como apagar o encender las luces, la televisión, contestar o iniciar una llamada telefónica, así como comunicar situaciones de emergencia.

Además de beneficiarse de "robots vestibles para la asistencia en tareas cotidianas mediante la modificación, de manera adaptativa y dinámica del nivel de asistencia de un exoesqueleto robótico inteligente con arreglo a las necesidades específicas del usuario", según han señalado las mismas fuentes.

Incluso, dar soporte a tareas de entretenimiento para poder jugar con un videojuego, ver una película, escuchar música o pintar.

Durante tres años se desarrollará un sistema multimodal, que "analizará y extraerá información relevante de la identificación de las capacidades residuales, comportamientos, estado emocional y las intenciones del usuario", según las citadas fuentes.

LO MÁS TOP

VISTO | COMENTADO | COMPARTIDO

AGENCIAS

1 'El Hormiguero': Alejandro Sanz visita el programa de Pablo Motos
2 ¿Por qué no hay agua Bezoya en los supermercados?
3 Un médico mata de un puñetazo a un paciente que faltó al respeto a una enfermera
4 El drama personal de Alejandro Nieto ('GH VIP')
5 Se suicida el padre que fue salvado por su hijo de 5 años
6 Imanol Arias, contra 'GH VIP': «Son capaces de hacer el mayor ridículo por unos euros»

TYPE OF EVENT	**Press release on "*RUVID*", the web portal of Valencian Network of Universities for the promotion of Research, Development and Innovation**
PARTNER IN CHARGE OF THEAPPEARANCE	UMH
DATE	03/02/2015
LINK	http://ruvid.org/wordpress/?p=17934

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Valencia | English

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EMPRENDEDORES

La tecnología al servicio de las personas con discapacidad

03/02/2015

El profesor del Grupo de investigación de Neuroingeniería Biomédica de la Universidad Miguel Hernández (UMH) de Elche Nicolás García coordina el proyecto europeo de investigación "Interfaces multimodales adaptativos para asistir a personas discapacitadas en actividades de la vida diaria" (AIDE, en sus siglas en inglés). El objetivo de este estudio es contribuir a la mejora de la interfaz usuario-tecnología mediante el desarrollo de una interfaz multimodal modular y adaptable a las necesidades individuales de las personas con discapacidad. El proyecto tiene un presupuesto de 3,4 millones de euros y en él participan 9 instituciones y empresas de Italia, Alemania, Gran Bretaña y España.

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Además del profesor García, el equipo de investigación de la UMH incluye a los miembros del Grupo de Investigación de Neuroingeniería Biomédica de la Universidad Eduardo Fernández y José María Sabater.

El sistema AIDE tiene el objetivo de beneficiar a las personas con discapacidad mediante una serie de aplicaciones en distintos campos. Según los investigadores, uno de estos ámbitos es la comunicación, donde la prioridad es mejorarla para que personas con discapacidad grave puedan comunicarse con sus familiares y amigos mediante el uso de servicios estándar de Internet como el correo electrónico o las aplicaciones *Skype* o *whatsapp*. También, mediante redes sociales como *Facebook* y *Twitter*. El sistema desarrollado, además, proporcionará apoyo para la navegación web.

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Fuente: UMH

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ANNEX III AIDE ORGANIZED WORKSHOPS

EVENT NAME	**ASSISTIVE TECHNOLOGIES AND NEURO-REHABILITATION.**
DATES	16/02/2015
LOCATION	ELCHE (ALICANTE) SPAIN
WEBSITE	http://aideproject.umh.es/2015/02/18/workshop-assistive-technologies-and-neuro-rehabilitation-18th-feb/

ANNEX IV AIDE PARTICIPATION IN CONFERENCES/FAIRS

EVENT NAME	**ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics**
TYPE OF PARTICIPATION	Poster
TITLE	"Kinematic reconstruction of the upper limb joints in planar robot-aided therapies"
AUTHOR(s)/SPEAKER(s)	Arturo Bertomeu-Motos, Ricardo Morales, Jorge A. Díez, Luis D. Lledó, Francisco J. Badesa, Nicolas Garcia-Aracil.
DATES	11 - 14 August 2015
WEBSITE	http://www.icorr2015.enabling-technology-festival.org/

EVENT NAME	**Workshop 6 "Affordable Rehabilitation and Assistive Robotics for Low Resource Settings and Developing Countries" at ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics**
TYPE OF PARTICIPATION	Invited talk
TITLE	"**AIDE: Adaptive Multimodal Interfaces to Assist Disabled People in Daily Activities**"
AUTHOR(s)/SPEAKER(s)	Nicolas Garcia-Aracil, Arturo Bertomeu-Motos.
DATES	11 - 14 August 2015

WEBSITE	http://www.icorr2015.enabling-technology-festival.org/
EVENT NAME	Workshop 8 "Motivational Patient-Tailored Therapy with Rehabilitation Robots" at ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics
TYPE OF PARTICIPATION	Invited talk
TITLE	"**Multimodal interfaces to improve and evaluate therapeutic outcomes in robot-assisted rehabilitation**"
AUTHOR(s)/SPEAKER(s)	Nicolas Garcia-Aracil, Arturo Bertomeu-Motos.
DATES	11 - 14 August 2015
WEBSITE	http://www.icorr2015.enabling-technology-festival.org/

EVENT NAME	**ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics**
TYPE OF PARTICIPATION	Workshop on "Robotic Systems for Training and Assistance of Walking"
TITLE	Invited presentation "Light-weight wearable robots for lower-limb assistance. Results from the CYBERLEGs Project"
AUTHOR(s)/SPEAKER(s)	SSSA
DATES	11 – 14 August 2015
WEBSITE	http://www.icorr2015.enabling-technology-festival.org/

EVENT NAME	**Engineering in Medicine and Biology Society (EMBC), 2015 37th Annual International Conference of the IEEE**
TYPE OF PARTICIPATION	Poster
TITLE	"Kinematic reconstruction of the human arm joints in robot-aided therapies with Hermes robot"
AUTHOR(s)/SPEAKER(s)	Arturo Bertomeu-Motos, Ricardo Morales, Luis D. Lledó, Jorge A. Díez, Jose M. Catalan, Nicolas Garcia-Aracil.
DATES	25 - 29 August 2015
WEBSITE	http://embc.embs.org/2015/

EVENT NAME	**ICORR 2015, IEEE 14th International Conference on Rehabilitation Robotics**
TYPE OF PARTICIPATION	Workshop on "Benchmarking lower limb robots: towards practical and evidence-based solutions"
TITLE	Invited presentation "Ergonomy of lower-limb exoskeletons".
AUTHOR(s)/SPEAKER(s)	SSSA
DATES	11 – 14 August 2015
WEBSITE	http://www.icorr2015.enabling-technology-festival.org/

EVENT NAME	**The internet of thing and future of factory**
TYPE OF PARTICIPATION	Invited Presentation
TITLE	Robot don't pray.
AUTHOR(s)/SPEAKER(s)	Eugenio Guglielmelli (UCBM)
DATES	3 September 2015
WEBSITE	http://www.ehu.eus/es/web/ja2015/plenarias

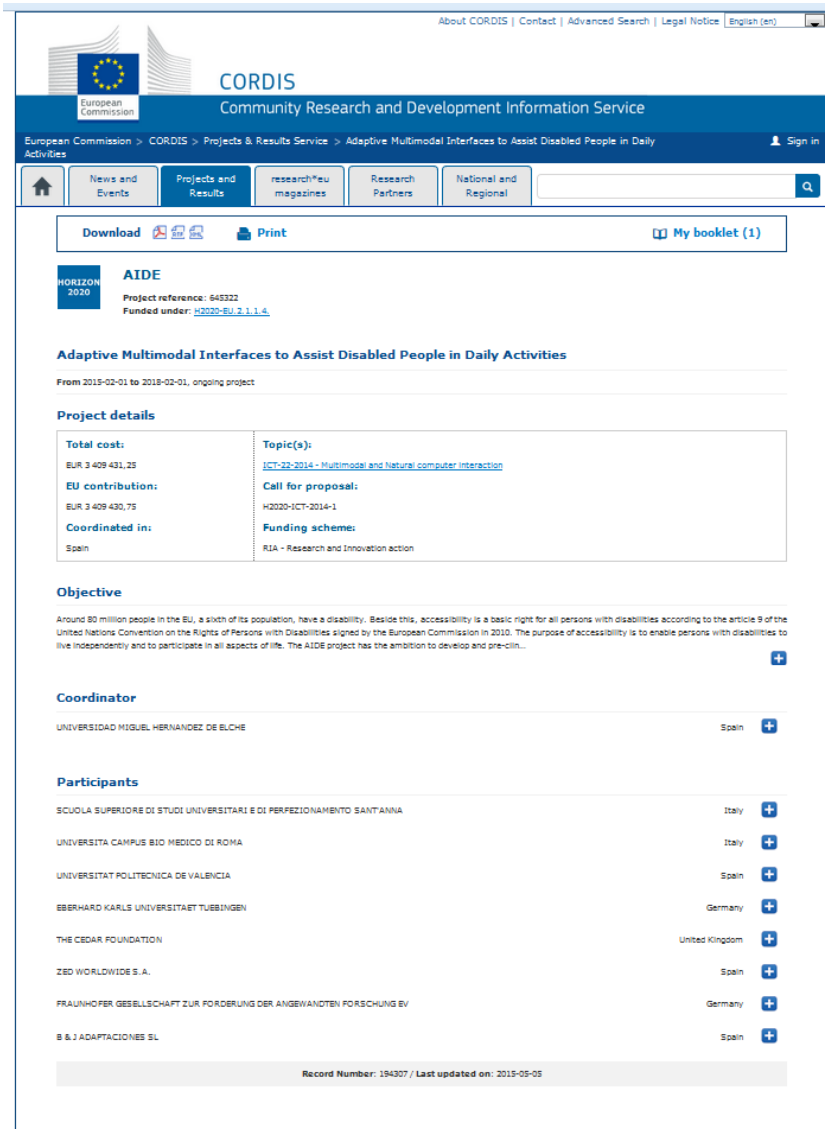
EVENT NAME	**Maker Faire 2015**
TYPE OF PARTICIPATION	Demonstration
TITLE	UCBM activities
AUTHOR(s)/SPEAKER(s)	UCBM
DATES	16 - 18 October 2015
WEBSITE	http://www.makerfairerome.eu/it/

EVENT NAME	**Italy-Japan Workshop 2015, sponsored by the Embassy of Italy in Japan, Waseda University, Tokyo, Japan**
TYPE OF PARTICIPATION	Workshop on "Can robots save the world economy?",

TITLE	Invited presentation “Wearable robots for sustainable ageing”
AUTHOR(s)/SPEAKER(s)	SSSA
DATES	November 30, 2015

ANNEX V AIDE PUBLICATIONS IN EU SUPPORTED CHANNELS

TITLE	**Adaptive Multimodal Interfaces to Assist Disabled People in Daily Activities**
CHANNEL	Community Research and Development Information Service (CORDIS). Projects & Results Service.
DATE	May 2015
WEBSITE	http://cordis.europa.eu/project/rcn/194307_es.html



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HORIZON 2020

AIDE

Project reference: 645322
Funded under: H2020-EU.2.1.1.4.

Adaptive Multimodal Interfaces to Assist Disabled People in Daily Activities

From 2015-02-01 **to** 2018-02-01, ongoing project

Project details

Total cost:	**Topic(s):**
EUR 3 409 431,25	ICT-22-2014 - Multimodal and Natural computer interaction
EU contribution:	**Call for proposal:**
EUR 3 409 430,75	H2020-ICT-2014-1
Coordinated in:	**Funding scheme:**
Spain	RIA - Research and Innovation action

Objective

Around 80 million people in the EU, a sixth of its population, have a disability. Beside this, accessibility is a basic right for all persons with disabilities according to the article 9 of the United Nations Convention on the Rights of Persons with Disabilities signed by the European Commission in 2010. The purpose of accessibility is to enable persons with disabilities to live independently and to participate in all aspects of life. The AIDE project has the ambition to develop and pre-clin...

Coordinator

UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE — Spain

Participants

SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO SANT'ANNA — Italy
UNIVERSITA CAMPUS BIO MEDICO DI ROMA — Italy
UNIVERSITAT POLITECNICA DE VALENCIA — Spain
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THE CEDAR FOUNDATION — United Kingdom
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B & J ADAPTACIONES SL — Spain

Record Number: 194307 / **Last updated on:** 2015-05-05

ANNEX VI AIDE AWARDS

AWARD	**KUKA INNOVATION AWARD 2015**
TITLE	ReTeLINK: Reciprocal Teleoperation of the LBR iiwa and an Interactive Exoskeleton
Winner	SSSA
DATES	April 17, 2015
LOCATION	Augsburg/Hannover