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**EasyTV: Easing the access of Europeans with disabilities to converging media and content.**

## D7.3 Initial Report on Dissemination Activities

### EasyTV Project

*H2020. ICT-19-2017 Media and content convergence. – IA Innovation action.*

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# Executive Summary

In this document, we present the dissemination activities performed during the first 15 months of the project (i.e. middle of project) based on the Internal Dissemination Plan of the EasyTV project. Furthermore, an overview of the overall dissemination strategy that is applied in the project is also presented. Finally, an evaluation of the mid-term dissemination activities of the project is performed and goals for the dissemination activities for the rest of the project are set. To this end, this document aims to clearly define:

- dissemination objectives,
- target audiences,
- dissemination channels,
- planned activities,
- targeted journals/conferences,
- dissemination activities until M15 of the project and
- evaluation metrics/indices.

The dissemination activities presented in this document will be used by the EasyTV consortium as the basis for evaluation of the dissemination of the EasyTV project to interested parties and the general public during the first 15 months of the project, identification of additional and/or complimentary ways of dissemination and construction of a solid dissemination plan for the rest of the project.

## 1. INTRODUCTION

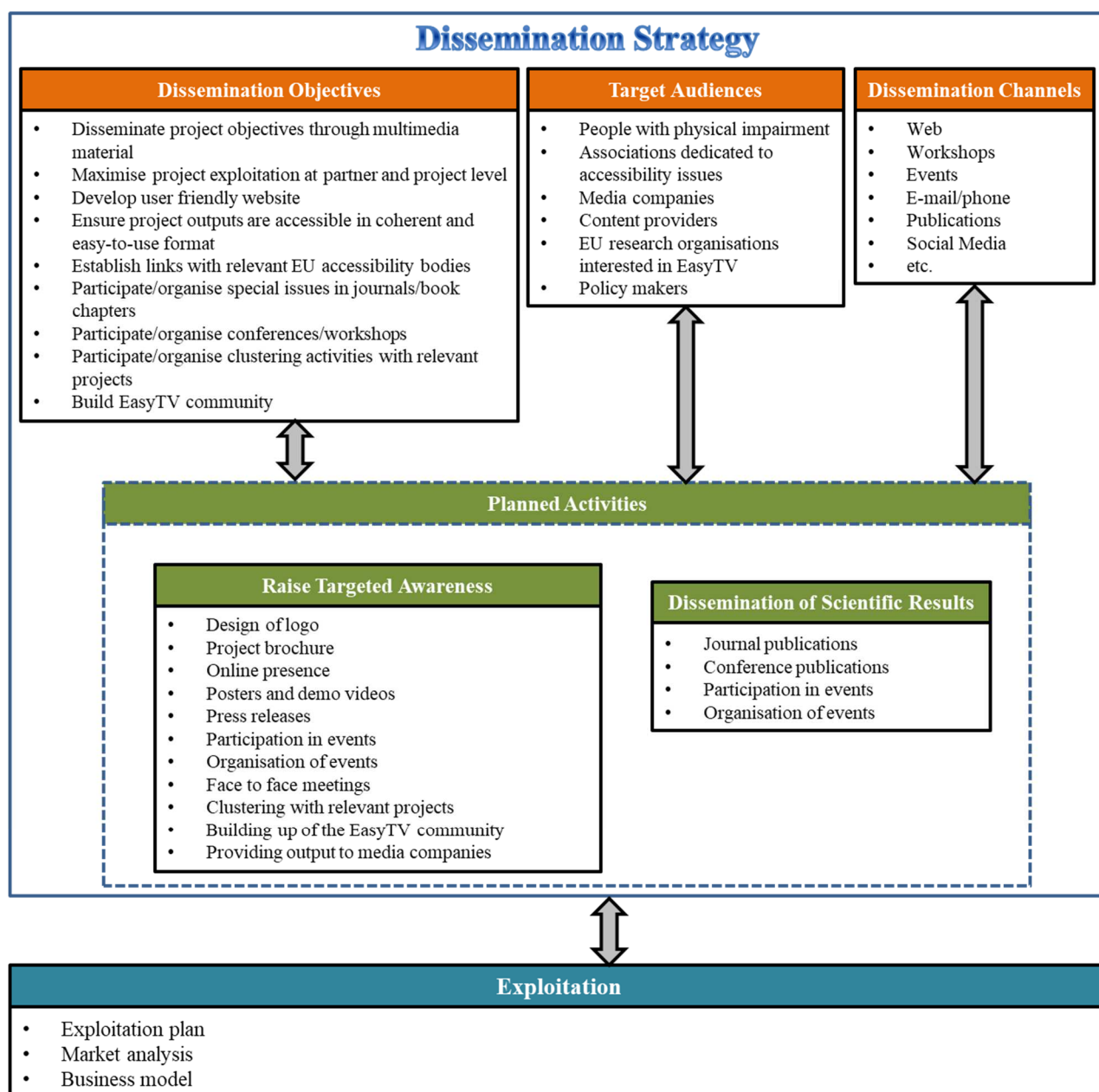
To ensure the effective dissemination of the project information, a specific work package, WP7 “Dissemination and Exploitation”, has been included in EasyTV Description of Work. To this end, an internal dissemination plan was formulated by the EasyTV consortium that analyses in detail the elements of the dissemination strategy proposed to best disseminate this project.

Specifically, the internal dissemination plan aims to ensure that EasyTV objectives and results will be effectively disseminated to the widest audience possible and especially to potential stakeholders and the scientific community. This plan will set the basis for the dissemination activities that will be performed in the entire duration of the project and will be analysed in the current and the next deliverables D7.3-D7.4 “Initial/Final Report on Dissemination Activities” (at months M15 and M30).

This document presents in detail the mid-term dissemination activities of the EasyTV consortium in their efforts to disseminate the results of the project on potential stakeholders, researchers, deaf and blind associations and the general public. More specifically, this document begins with a brief presentation of the dissemination strategy as formulated in the Internal Dissemination Plan. Afterwards, all mid-term dissemination activities (i.e. until M15 of the project) are presented in detail. These activities are then evaluated in order to assess whether the goals of the dissemination plan were achieved in the mid-term of the project. Finally, this document sets the goals for the dissemination activities for the rest of the project.

## 2. DISSEMINATION STRATEGY AND PLAN

EasyTV dissemination strategy aims at providing third parties outside the consortium with information relevant to the project to increase interest from stakeholders as well as to support the exploitability of the EasyTV system. A sound communication and dissemination strategy needs to be planned well in advance in order to maximise its benefits. Therefore, the action plan proposed in the Internal Dissemination Plan considers the necessary elements for developing an efficient dissemination strategy: establishing objectives, identifying stakeholders, users and potential investors/buyers, selecting channels and planning activities.



**Figure 2-1** Dissemination strategy and Planned activities

### 2.1. Dissemination objectives

The identification of the project objectives is a crucial issue for an efficient dissemination strategy. EasyTV (Easing the access of Europeans with disabilities to converging media and content) is a response to the EC Call for proposals H2020-ICT-19-2017 addressing topic Media and content

convergence – IA Innovation action. The main goal of EasyTV is to develop media improved access services for all users, especially to those with various degrees of disabilities (visually, hearing and mobility impaired) and enable the distribution of novel audio-visual accessibility features by making the more cost-efficient and flexible and easy to use. More specifically, the main objectives of EasyTV project that require the formulation of a suitable dissemination strategy in order to be achieved are listed below:

- To provide innovative and improved access services for enhanced multimedia visual and sound experience for people with disabilities by allowing image adaptation (contrast/edge enhancement, colour highlighting, etc.) and improved content description (narratives adapted to different play pace, cleaner audio, voice presentation of information, etc.).
- To offer improved personalisation of the content experiencing and interaction, towards a hyper-personalised experience to all. User profiles together with context information (application, device, content) will allow suggested assistive technologies and automatic user interface personalisation and adaptations to be implemented.
- To develop novel technologies to break the sign language barrier by performing sign language translation in different languages through a multilingual ontology that will map signs to ontology concepts, more realistic sign language avatar animation and improved gesture/gaze recognition to control the TV set and TV applications.
- To implement a technical platform (running either on a cloud environment or at a content broadcaster's premise) that is able to integrate different services (even those developed by third-parties via the EasyTV service development toolkit) and aims at allowing users with disabilities to access contents in a simple and intuitive manner via different terminals.
- To validate EasyTV resulting technologies using a user-centred design approach, thus ensuring that the design of any development, improvement or adaptation is based upon an explicit understanding of users, tasks and environments.
- To share information of the project development and offer results to relevant European accessibility bodies (i.e., technical standard agencies, broadcasters, regulators, user associations, etc.).
- To create the necessary impact in the European disability communities, allowing and easing the access to converged content in different devices (i.e., TV, smartphone and tablet).

Based on the above main project objectives, some concrete objectives of the EasyTV dissemination strategy can be defined as follows:

- To reach wide dissemination of project objectives, outputs and outcomes through effective and multimedia dissemination material in order to make the knowledge generated by the project available to the widest possible audience.
- To maximise the project exploitation at the level of each partner and of the project partnership as a whole, in order to support the development of their own activities, and to possibly enable the launch of new activities.
- Develop an interactive and user friendly website to inform the general public and all stakeholders about EasyTV.
- Ensure that all tangible project outputs are accessible in a coherent, attractive and easy-to-use format.
- Establish good links with relevant European accessibility bodies, such as technical standard agencies, broadcasters, regulators and manufactures in order to assist in the development of enhanced access services and offer EasyTV results towards standardisation.
- Participate in and/or organise special issues in journals as well as books and/or book chapters on issues related to ICT-based media and content coverage for people with disabilities.

- Participate in and/or organise special sessions, conferences, workshops to inform the scientific community about EasyTV, its goals and achievements and to gather valuable information on the same issues.
- Participate in and/or organise networking and clustering activities with relevant National and EU projects and stakeholders that are active in the areas of ICT-based technologies in the media industry for people with disabilities.
- Build an EasyTV community by establishing active groups of sign language experts and initiating dialog between the developers and the users of the EasyTV system so as to ensure the widest possible dissemination and acceptance of the system by its users and create strong impact.

## 2.2. Target audiences

The audiences and potential stakeholders have already been identified and classified into the following categories:

- All citizens, especially people with disabilities, including elderly
- Associations and organisations dedicated to disability and accessibility issues
- Media companies (broadcasters, streamed media etc.)
- Content providers
- Any EU research organisations potentially interested in EasyTV (who could join the community, use facilities, contribute to their developments, etc.)
- Policy makers at national and European levels who could take advantage of EasyTV outputs

## 2.3. Selecting dissemination channels

In order to effectively reach the dissemination objectives, a broad spectrum of dissemination channels will be used (e.g. websites, publications, brochures, etc.). Furthermore, a carefully chosen list of events and conferences that bring together the target audiences is also significant for disseminating information. After defining the list of target audiences, it is important to consider the specific characteristics of each group in order to use the appropriate means (channels) of dissemination towards each group. Existing dissemination channels of the project partners (e.g. partner newsletters, web-sites, networking activities/offices, etc.) will also be used for the dissemination purposes of the project.

## 2.4. Planned activities

The dissemination strategy needs to take into account a list of relevant planned activities that are considered to be key elements for successful dissemination. The main goal of these activities is to raise targeted awareness, disseminate the project's results and exploit the EasyTV products.

### 2.4.1. Project logo

At the very beginning of the project, the consortium defined a coordinated image for the project through the characterisation of a series of communication elements (brand, logo, colours and graphical layout of document templates). Given the high expectations of the project in terms of exploitation of results, this phase was subject of much scrutiny. All partners were involved in a creative process aimed at eliciting attributes, properties, vision aspects that the project's logo should convey and express.



Figure 2-2: The EasyTV logo

#### 2.4.2. Online presence

Online presence is succeeded by the project's website and related accounts to social media. The project website will be a strategic medium for dissemination and promotion of project's results and will also constitutes an "entry doorway" to get to the EasyTV Service Catalogue (T5.3). Main objectives of the web site are:

- to collect and diffuse all public deliverables and materials produced by the consortium in order to give them the broadest diffusion;
- to give visibility to the partners taking part in the consortium.

The website will provide all the information about the entities that form the consortium and every noticeable activity worthy to be published on the website. In addition, if needed, each partner will give its support for translating the website contents in its own language.

#### 2.4.3. Project brochure and posters

A brochure and a number of posters dedicated to the project will describe project methodology, main objectives, results and relevant information about consortium organisation and its funding system. The target audience is the same of the other media. Our aim is to cover all relevant communication channels for this kind of domain.

Posters will be used at events such as conferences, exhibitions and international fairs to which partners participate. All posters will have the same look and feel as the website and brochure, and will follow a similar design approach. All posters will include the EU flag, the logo of the H2020 programme and the EasyTV logo.

#### 2.4.4. Organisation of events

EasyTV will organise a series of interactive presentations during specific events to ensure the use of the EasyTV services is spread among a vast community of users with disabilities for an effective field testing, and for new use cases to be raised to project partner's attention; innovation workshops to bring together users and liaise with organisations different from those involved directly in the project (either as project partners or as supporting entities) and webinars linking to tutorials on how to use the EasyTV services.

#### 2.4.5. Participation in events

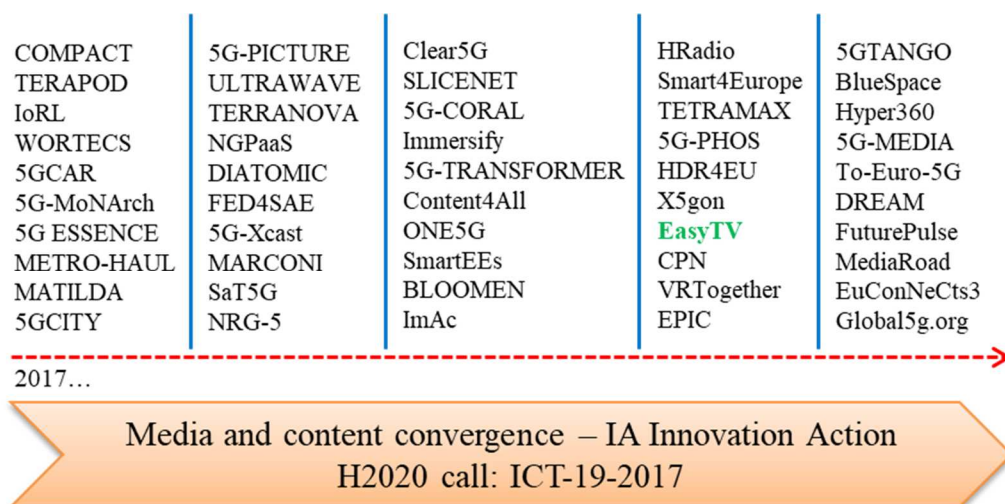
EasyTV will present the results of the project in international and national fairs, exhibitions, conferences, workshops and other events. The events where EasyTV partners participate will be published on the project website, along with additional information about the event, the number of attendees and photos. During these events, attending partners will distribute the brochures of the project, show video demos, presentations and generally inform the interested parties about the project and its results.



#### 2.4.6. Clustering with relevant projects

Clustering with related projects, especially those performing research on ICT technologies for people with disabilities in the media industry and beyond will be actively pursued throughout the project duration. In this context, common areas of interest will be identified and potential fields of co-operation and synergies with respect to these areas will be elaborated.

More specifically, links can be established with Immersive Accessibility (ImAc) [1], a H2020 programme aiming to explore how accessibility services can be integrated with immersive media. Furthermore, knowledge exchange can be performed with Content4All [2] that will develop technologies and algorithms to achieve automatic sign-translation capabilities. Other projects that are potential candidates for clustering activities are: ADLAB PRO [3], ACT [4], UMAQ [5] and I4ALL [6]. Links can also be established with several other projects of the same call as shown in Figure 2-3. Furthermore, potential collaboration with Vital Media and I3 projects will be explored. MediaVoice has also established relationships with Reveal, a spin-off of Univerità Tor Vergata in Rome, with which clustering activities can be organized. Finally, FCNSE will establish relationships and pursue clustering activities with ACANTO [7] and CONSIGNOS [8] projects, while CERTH will seek joint clustering activities with 5G-Media [9], Hyper360 [10], VR-Together [11] and CAREGIVERSPRO [12].



**Figure 2-3: Projects in the Media and content coverage – IA Innovation Action field of the H2020 call ICT-19-2017.**

We strongly believe that by supporting the knowledge and technology exchange between EasyTV and other related projects, we can maximize the project impact and the dissemination efficiency and significantly increase its chances for successful future exploitation.

#### 2.4.7. Face to face meeting and private communication

Face to face meetings along with private communication (tele-conferences, phone calls and e-mails) with experts, users and important stakeholders in the field are some of the most efficient dissemination activities for raising awareness about the concept of the EasyTV project. Furthermore, contacting and establishing links with national associations or organisations (e.g. sign language associations) can obviously contribute to a great extent for raising awareness about EasyTV within the corresponding communities.

#### 2.4.8. Publications

All consortium members will be informed by the EasyTV web-site about relevant events, in order to identify possible future events, where they would like to submit a publication. Publications include all documents that describe technologies, algorithms or systems developed within the project as

well as their results. Such documents can be: scientific articles, papers, posters or slide presentations/talks in conferences, press releases and news articles.

In the following, a tentative (non-exclusive) list of relevant journals and conferences follows, where EasyTV or articles about EasyTV work could be presented in order to achieve wide dissemination among the scientific community. This list will be regularly updated throughout the project, also taking into account their focus and impact.

#### 2.4.8.1 Journals

List of scientific journals which are considered as suitable for EasyTV publications:

##### **Image Processing/Computer Vision/Pattern Recognition**

- IEEE Transactions on Image Processing
- IEEE Circuits and Systems for Video Technology
- IEEE Pattern Analysis and Machine Intelligence
- IEEE Multimedia
- IEEE Transactions on Multimedia
- IEEE Transactions on Systems, Man, and Cybernetics
- Elsevier Signal Processing: Image Communication
- Elsevier Pattern Recognition
- Elsevier Pattern Recognition Letters
- Elsevier Computer Vision and Image Understanding
- Elsevier Image and Vision Computing
- International Journal of Computer Vision
- Machine Vision and Applications
- Pattern Analysis and Applications
- Journal of Real-Time Image Processing
- Journal of the Optical Society of America A: Optics and Image Science, and Vision
- Electronic Letters on Computer Vision and Image Analysis
- Journal of Mathematical Imaging and Vision
- Eurasip journal on advances in signal processing

##### **Data Fusion and Semantic Analysis**

- IEEE Intelligent Systems Magazine
- Elsevier Information Fusion
- Elsevier Expert Systems with Applications
- Elsevier Knowledge-Based Systems
- Elsevier Engineering Applications of Artificial Intelligence
- Journal of Intelligent Information Systems
- Multimedia Tools and Applications



## Journals on Accessibility and Disability Studies

- Babel
- Cad. de Trad.
- Information Design Journal
- International Journal of Translation
- inTRAlinea
- Jostrans
- Journal of CyberTherapy & Rehabilitation
- Journal of Specialised Translation
- Journal of Visual Impairment & Blindness
- Meta: Translator's journal
- Minor Translating Major
- Perspectives
- Quaderns de Traducció
- Rivista internazionale di tecnica della traduzione
- Sensors
- Skase. Journal of Translation and Interpretation
- Technology and disability
- The journal of specialised translation
- Trans. Revista de traductología
- Translating Today
- Translation Studies
- Translation Watch Quarterly
- UABDivulga
- European Journal of Communication
- Global Media & Communication
- International Journal of Communication
- Media, Culture & Society
- Media Studies
- Technology and Society
- Communicatio
- Learning, Media and Technology
- Journal of Educational Television
- The Information Society
- Information, Communication & Society
- Innovations in Education & Training International
- Critical Studies in Media Communication
- Information Design Journal
- British Journal of Visual Impairment
- Development and Society
- Disability and health journal
- Disability and society
- Disability Studies Quarterly
- International Journal of Cultural Studies
- Journal of Accessibility and Design for All
- Journal of Disability Policy Studies
- Journal of Media Psychology and Rehabilitation
- Journal of Visual Impairment & Blindness
- Quaderns del CAC
- Review of Disability Studies: An International Journal

- Social Science & Medicine
- Universal Access in the Information Society

### Journals on Language Representation

- Springer Language Resources and Evaluation
- SEPLN “Procesamiento del lenguaje natural”

#### 2.4.8.2 Conferences

A list of potential scientific conferences/congresses/workshops where EasyTV could be presented is shown below:

| Conference name  | Description  |
|--|--|
| INTERACT   | It deals with the interaction between humans and computing devices.  |
| IHCI   | It aims to explore and discuss innovative studies of technology and its application in interfaces and welcomes research in progress, case studies, practical demonstrations and workshops.   |
| IEEE International Conference on Multimedia                            | It serves as a forum to promote the exchange of the latest advances in multimedia technologies, systems, and applications.   |
| ACM Multimedia   | It is the worldwide premier multimedia conference and a key event to display scientific achievements and innovative industrial products.   |
| Languages and the Media  | It is a key conference organised every two years for both industry and academia in relation to broadcast and media accessibility.  |
| Media4ALL  | It is worldwide conference on media accessibility organised every two years and it is about creating and mediating understanding in an increasingly complex mediascape.  |
| ARSAD  | It is the only monographic worldwide conference specialised in audio description.  |
| ACM CHI  | It is one of the leading international events for the presentation of innovative approaches for enhancing human experience in regards to the interaction with modern technologies.   |
| International ACM Conference on Computers and Accessibility (ASSETS)   | It explores the design, evaluation, and use of computing and information technologies to benefit people with disabilities.   |
| International Cross-Disciplinary Conference on Web Accessibility (W4A) | It has focused over the years in a plethora of areas of accessibility such as online education and contributed to the underlining of innovative approaches that could alleviate difficulties of people with disabilities.  |
| Extended Semantic Web Conference (ESWC)                                | It is one of the leading conferences in the Semantic Web area which covers many disciplines of computing related to data and information management, knowledge engineering, machine intelligence, human knowledge and languages (specifically, issues related with multilingualism). |
| European Signal Processing Conference (EUSIPCO)                        | It addresses the latest developments in research and technology for signal processing and its applications.  |
| Iberian Association for Translation and Interpreting                   | The name of the conference, Translatum nostrum – Hybridity from the Mediterranean seeks to encourage a   |

|   |   |
|---|---|
| Studies International Conference.   | deep and rigorous analysis of the current situation and future perspectives of Translation and Interpreting Studies.  |
| ACT Unlimited!  | The ACT project is working on the definition of a new professional profile, that of the “Media Accessibility Expert/Manager for the Scenic Arts”, and also on the various types of qualifications required for this profession in order to provide high quality training for professionals in the field.  |
| Understanding Media Accessibility Quality.  | The UMAQ Conference aims at gathering together, for the first time, all the key actors involved in research on quality in MA and its implementation in industry and policy, in order to provide a deeper understanding of the issues involved, and boost a coordinated research programme at the international level.   |
| TransMedia International Meeting.   | TransMedia Catalonia International Meetings (TIM) are internal events in which the group's present and future research is discussed. They normally feature an invited talk by an external speaker, presentations by group members, and a final discussion.  |
| Language Resources and Evaluation Conference (LREC)   | Since the first LREC held in Granada in 1998, LREC has become the major event on Language Resources (LRs) and Evaluation for Language Technologies (LT). The aim of LREC is to provide an overview of the state-of-the-art, explore new R&D directions and emerging trends, exchange information regarding LR and their applications, evaluation methodologies and tools, ongoing and planned activities, industrial uses and needs, requirements coming from the e-society, both with respect to policy issues and to technological and organisational ones. The International Conference on Language Resources and Evaluation is organised by the European Language Resources Association biennially. |
| International Symposium for Young Researchers in Translation, Interpreting, Intercultural Studies and East Asian Studies. | The International Symposium for Young Researchers is aimed at students who have recently begun their research as M.A. students, PhD students or those who have recently completed their PhD theses. The purpose of this symposium is to provide a scientific forum within which the next generation of researchers can exchange ideas and present their current research in the field of Translation, Interpreting, Intercultural Studies or East Asian Studies.  |
| SEPLN   | The Spanish Society for Natural Language Processing yearly conference about the diverse range of the natural language processing (morphologic, syntactic, semantic and pragmatic analysis, computational lexicography, automatic translation, speech technology, person-machine communication in natural language, documentary and linguistic management of corpus).  |
| Workshop on the Representation and Processing of Sign Languages   | Workshops on sign language representation and processing at the last day of LREC are now a tradition. Over the years, the workshop was dedicated to sign notation, sign writing, image processing, information technology in learning sign language or learning with sign language, corpora, interactions between corpus and lexicon, corpus mining, etc.   |
| ICCE Berlin   | The IEEE international Conference on Consumer Electronics: Boundaries between disciplines are breached  |

|  |  |
|--|--|
|  | and CE is a perfect example of multidisciplinary, interdisciplinary, and cross-technology work in action. The seed starts in fundamental sciences, nurtured via tools, management, units and empowered by services and systems, tailored by needs and desires, until it matures to off the shelf products. |
| AMADIS   | This Spanish conference is organized biennially by the Royal Board on Disability through CESyA (Spanish Centre of Subtitling and Audio description) and focuses on the accessibility to audiovisual media for people with disabilities.  |
| Global Summit and Expo on Multimedia & Artificial Intelligence | Leading conference for international community of academic experts, scholars and business people in the field of Multimedia & Artificial Intelligence Technologies.  |
| 3DTV conference  | The conference involves a wide range of disciplines: imaging and computer graphics, signal processing, telecommunications, electronics, optics and physics.  |
| World Congress of the World Federation of the Deaf             | This International Congress organized by the World Federation of the Deaf (WFD) and hosted by the Fédération Nationale des Sourds de France (FNSF).  |

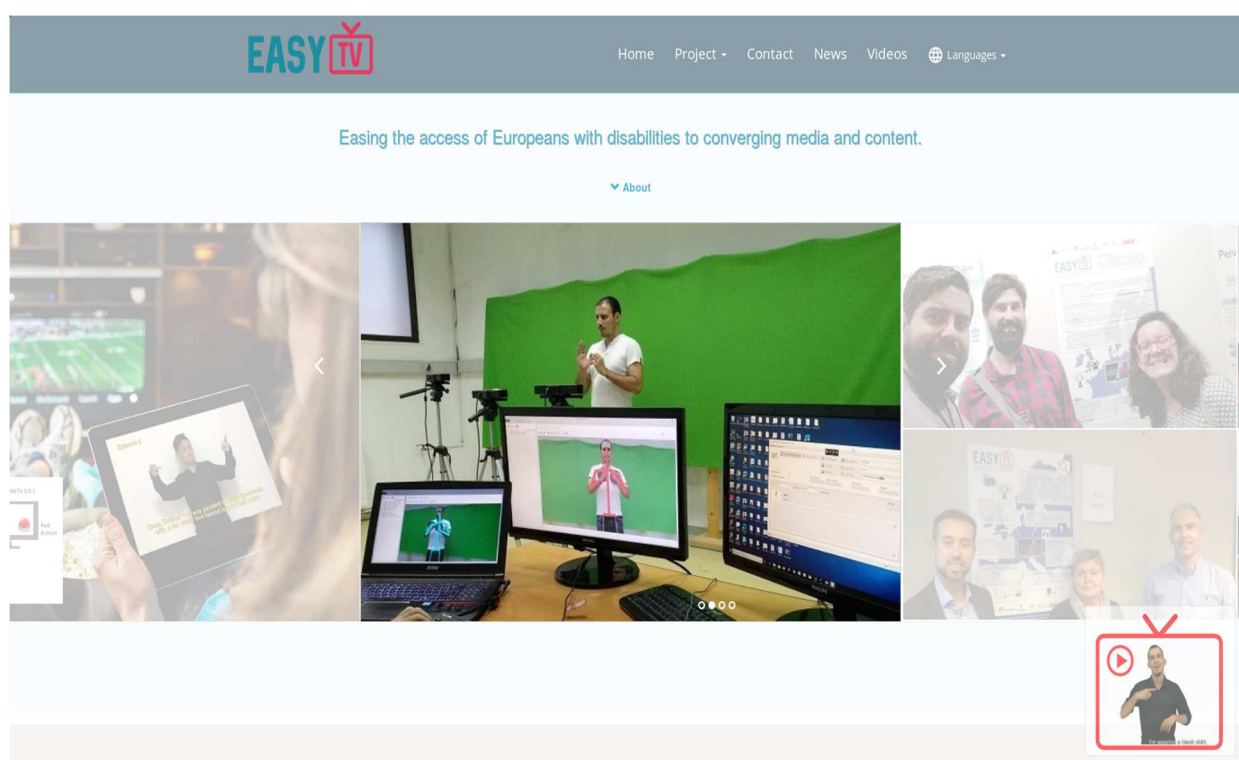
**Table 2-1: List of potential conferences EasyTV could be presented**

### 3. MID-TERM DISSEMINATION ACTIVITIES

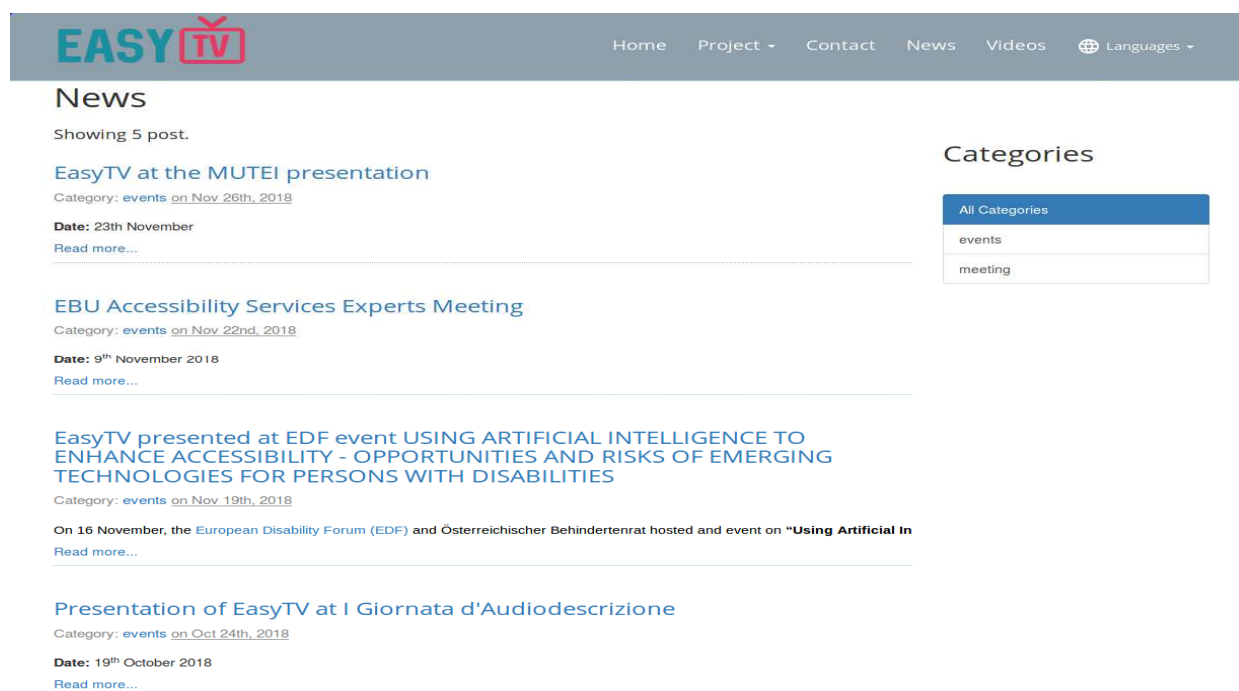
In this section, we present information and photos from all activities performed by the partners of the EasyTV consortium towards disseminating the results in the first 15 months of the project. More specifically, these activities include:

#### 3.1. Project website

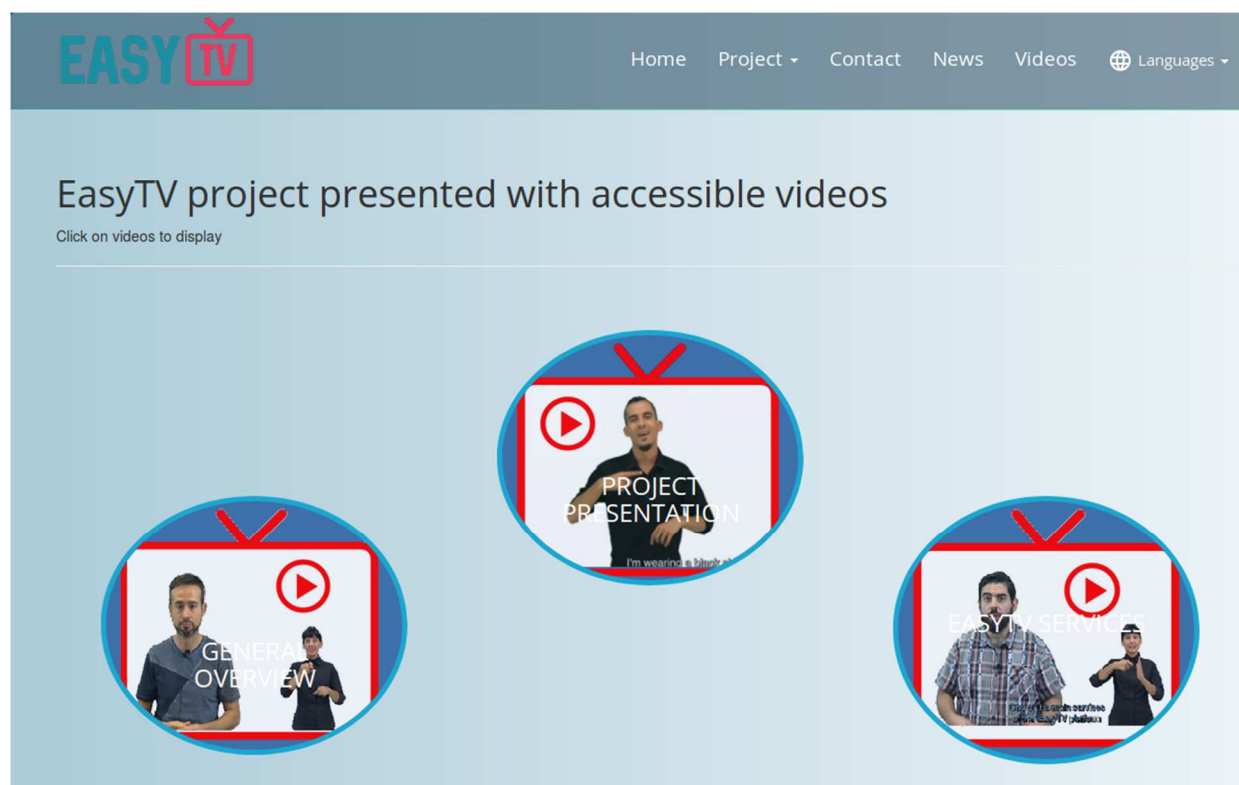
The project website can be found in <https://easytvproject.eu> and is a portal, where any interested party can find information about the EasyTV project and contact with the EasyTV consortium. The project website is updated with new material, such as publications, participation and organisation of events and videos in a regular basis. The content of the website is available in 5 different languages (i.e. English, Greek, Catalan, Spanish and Italian), thus enabling the results of the EasyTV project to reach a wider audience. The project website comprises the most significant medium for the dissemination of the results of the EasyTV project. A few screenshots of the EasyTV website are shown below:



**Figure 3-4: The Home page of the EasyTV website with images describing the work done in the context of the project.**



**Figure 3-5: The News page of the EasyTV website describes all events and meeting of the EasyTV partners.**



**Figure 3-6: The Videos page of the EasyTV website contains accessible videos that describe the project.**

### 3.2. Project brochure and poster

The project brochure was created based on the contributions of all EasyTV partners and describes the methodology, goals and system architecture of the EasyTV project. The brochure should be distributed by the EasyTV partners in all events where the project is presented. The brochure aims



to further disseminate the importance and goals of the EasyTV project to all interested parties. The following images present the EasyTV brochure.

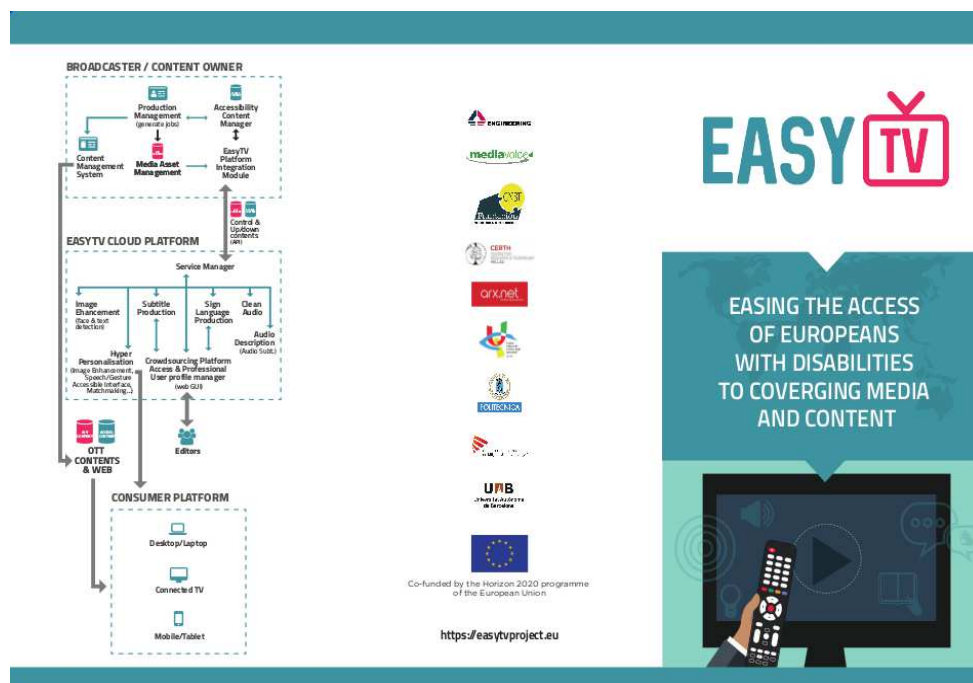


Figure 3-7: The first page of the EasyTV brochure presents the system architecture.

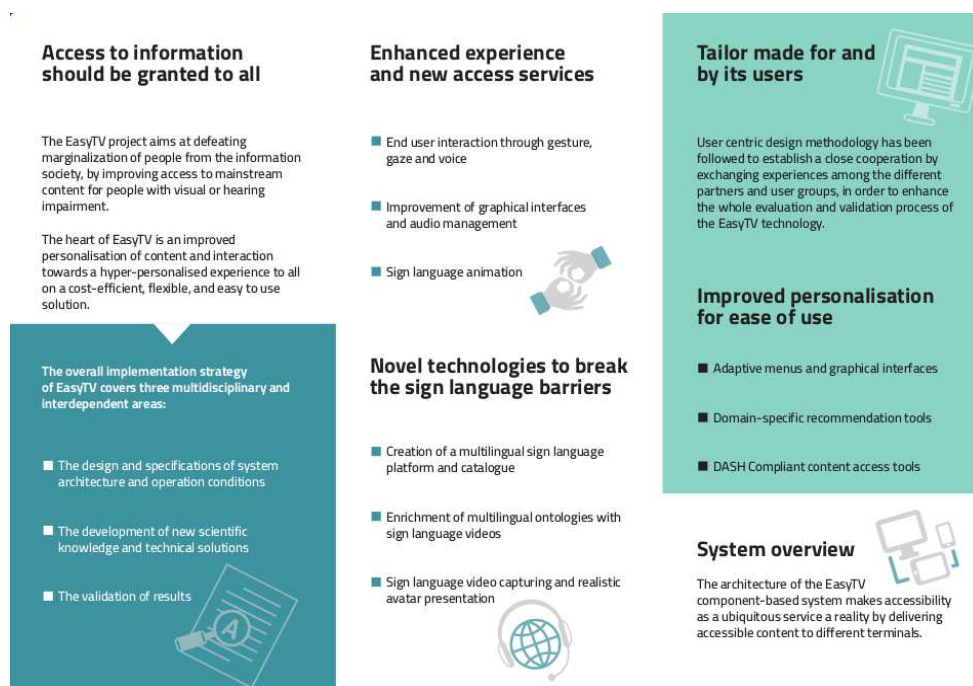


Figure 3-8: The second page of the EasyTV brochure presents goals and services.

Additionally, a poster describing the main objectives and architecture of the EasyTV project was created and presented at the H2020 Media Projects Workshop in Brussels, Belgium on October 17th, 2017. The poster is presented in Figure 3-9.

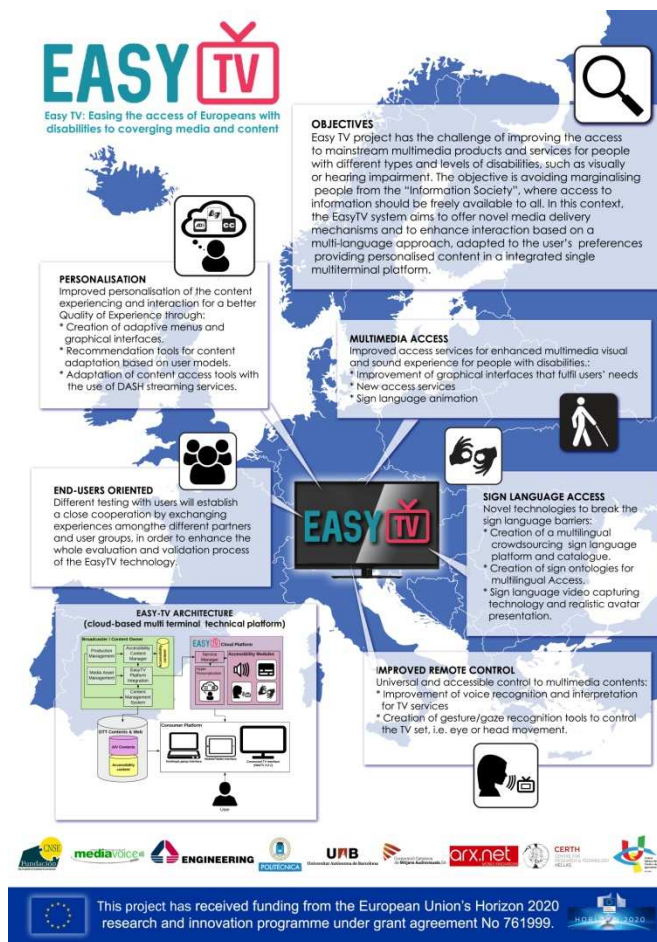


Figure 3-9: Poster of the EasyTV project presented at the H2020 Media Projects Workshop (17th October 2017).

### 3.3. Online videos

Several accessible videos have been created by the EasyTV partners in order to present the objectives, services and first results of the EasyTV project. Videos have been following Accessible Cinema guidelines, so the Audio description is included in the video, and they also have subtitles and SL. These videos can be split in two main categories:

- **General videos:** These videos describe the EasyTV objectives, general methodology and services that will be developed in the context of the project. These videos are made accessible (i.e. signed) so as blind and deaf associations can become acquainted with the EasyTV project. These videos are publicly available on the Videos page of the EasyTV website. A few screenshots from these videos are shown in Figure 3-10.





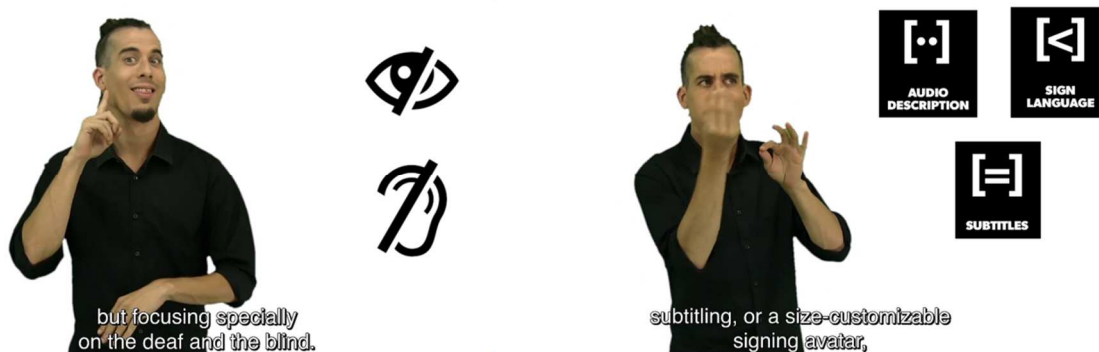


Figure 3-10: Screenshots from the general accessible videos located in the project website.

- Intermediate tests videos:** These videos were created in order to describe the EasyTV modules or services that were developed in the mid-term of the project. The purpose of these videos is to be employed in intermediate tests and evaluated by blind and deaf associations as far as the usability of the services is concerned. Furthermore, these videos will be used for dissemination purposes in order to enhance the visibility and impact of the EasyTV project. A few screenshots from these videos are shown in **Figure 3-11**.

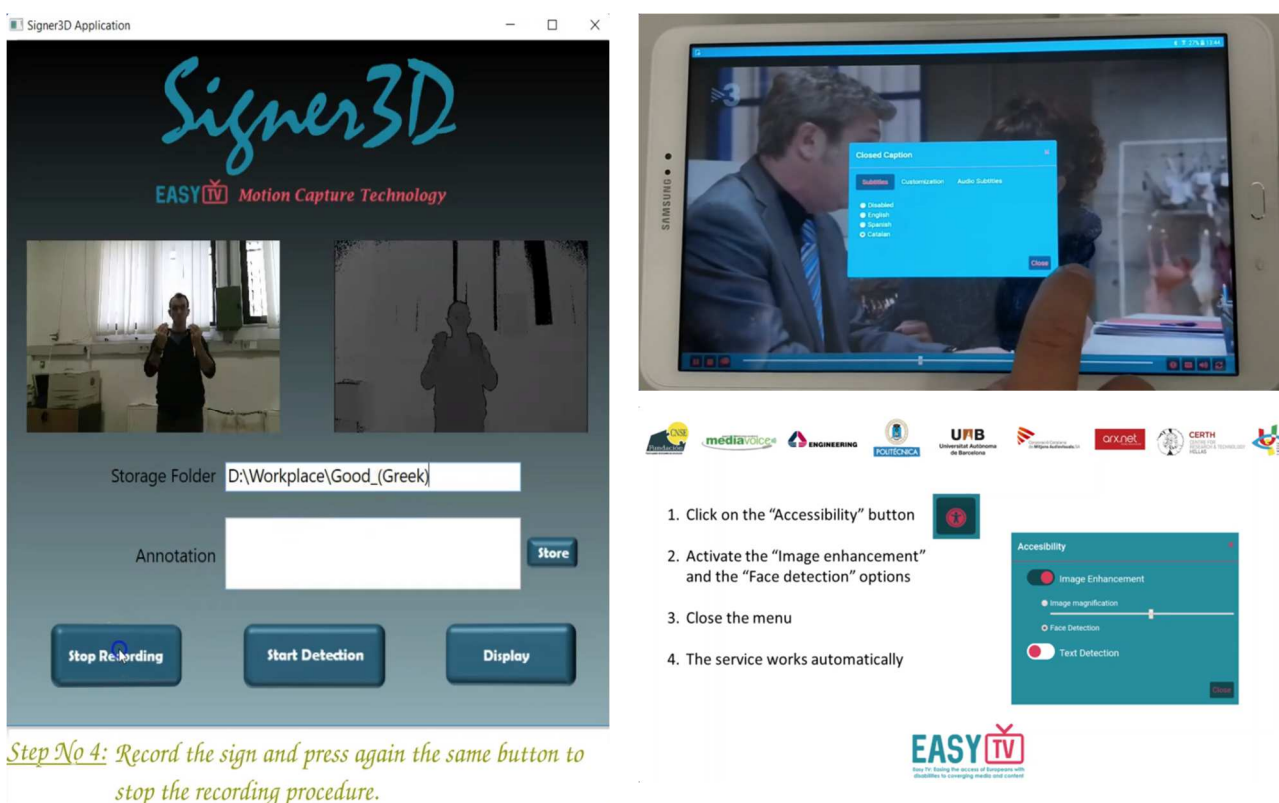


Figure 3-11: Screenshots from the intermediate test videos describing EasyTV services.

### 3.4. EasyTV accessible visiting cards

In the context of the EasyTV project, the EasyTV consortium designed accessible visiting cards that contain the project name and logo, partners' logos and a link to the EasyTV website. But most importantly, the cards contain the name of the EasyTV project in Braille code, enabling the dissemination of the project to reach blind and visually impaired people as well. The purpose of these visiting cards is to be distributed by the members of the EasyTV consortium to all interested

parties during external meetings and events, thus bypassing any communication or disability barrier.

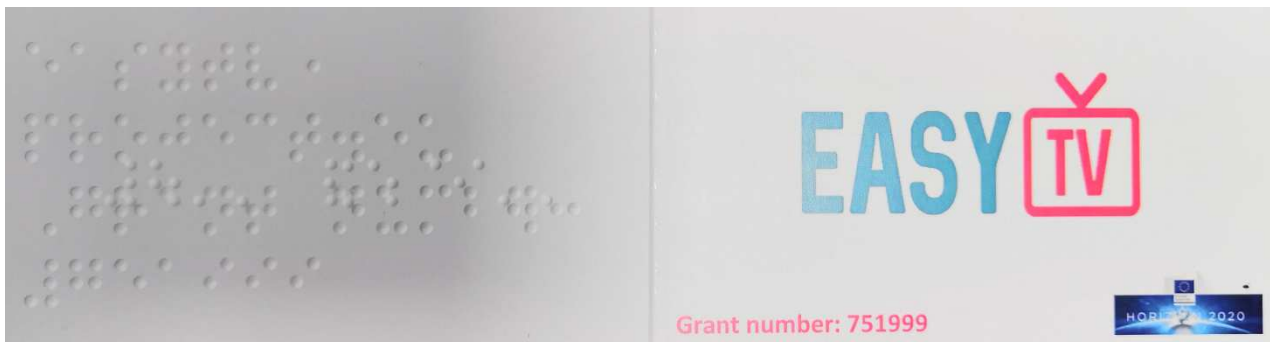


Figure 3-12: Front page of the EasyTV accessible visiting cards.



Figure 3-13: Back page of the EasyTV accessible visiting cards.

### 3.5. Organisation of events

#### 3.5.1. Agent workshop at Petra 2019 conference (June 5th-7th, 2019, Rhodes, Greece)

CERTH, along with UPM, will organise a workshop at the Petra 2019 conference [39], named “Multimodal siGnal sensing and analysis for assistive EnviroNments for improving qualiTy-of-life (AGENT)” in cooperation with the H2020 EU projects: PROTEIN and i-PROGNOSIS. This workshop is dedicated to studies, applications, algorithms and new methodologies in the multidisciplinary field of unobtrusive assistive environments that can improve the quality of daily living. The workshop will focus on novel technologies that are applied on real or virtual environments and aims to enhance the quality of daily living, especially for people with disabilities or patients suffering from chronic conditions. It aims to attract an interdisciplinary group of researchers who are involved in research related to early detection, assessment and monitoring of human health, habits and behaviour.



Figure 3-14: Banner of the Petra 2019 conference that will take place in Rhodes, Greece.

### AGENT Workshop: Multimodal signal sensing and analysis for assistive Environments for improving quality-of-life

Extracting health and behavioral indicators is very crucial for the early detection, monitoring and prevention of physical and mental disorders and harmful habits and behaviors. New advances in sensing technologies, including wearables, depth sensors, cameras etc. and machine/deep learning techniques open up new opportunities for researchers to capture and collect data in order to: i) offer early detection, monitoring and prevention of many disorders; ii) identify harmful habits and behaviors; iii) ensure a barrier-free life for people with disabilities and; iv) provide early interventions for improving quality of life and encouraging behavior change towards adopting and maintaining a healthy lifestyle. The new ways of sensing and analyzing these signals can constitute the basis for the development of innovative interactive solutions for personalized support (e.g., game-based interventions), helping patients, disabled, and older adults to improve their quality-of-life and enhance their performance in a wide range of settings.

#### Topics

This workshop is dedicated to studies, applications, algorithms and new methodologies in the multidisciplinary field of unobtrusive assistive environments that can improve the quality of daily living. Papers for this workshop must address relevant topics in the design, implementation or study of interactive applications based on sensors, natural human-computer interaction, virtual environments, machine/deep learning and artificial intelligence techniques.

Topics of interest include, but are not limited to:

- Sensor Technologies for Disabled Users
- HCI for the Elderly
- Motion Analysis for Rehabilitation with Elderly
- Data Analysis for Game-Based Interventions
- Multimodal Signal processing and analysis for assistive technologies
- Mobile and Wireless technologies
- Human-computer interaction for disabled people
- Sign language recognition
- Intelligent Assistive Technologies
- Internet-of-things (IOT) and Assistive Environments
- Feature extraction and fusion
- Sensor fusion
- Machine/Deep learning techniques
- Conversational agents for Improving Quality-of-Life

#### Organizers

- Petros Daras  
Centre for Research and Technology Hellas - CERTH, Greece - [daras@iti.gr](mailto:daras@iti.gr)
- Kosmas Dimitropoulos  
Centre for Research and Technology Hellas - CERTH, Greece - [dimitrop@iti.gr](mailto:dimitrop@iti.gr)
- Leontios Hadjileontiadis  
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- Federico Alvarez  
Technical University of Madrid, Spain - [fag@gatv.ssr.upm.es](mailto:fag@gatv.ssr.upm.es)

The workshop is organized in cooperation with the H2020 EU projects: PROTEIN, i-PROGNOSIS, and EasyTV.

**Figure 3-15: Organisation of AGENT workshop from CERTH and UPM as part of the Petra 2019 conference.**

### 3.5.2. 7th TransMedia Catalonia International Meeting (October 25th, 2018, Barcelona, Spain)

On October 25th, 2018 the Faculty of Translation and Interpreting of Autonomous University of Barcelona (UAB) organised the 7th TransMedia Catalonia International Meeting [15], an academic meeting. Around 20 participants attended the meeting, including UAB's PhD students, researchers from the TransMedia Catalonia Research Group and invited researchers.

UAB presented information about current and new projects, including EasyTV. More specifically, the current state of the EasyTV project was presented, including its services, current work carried out by UAB and future goals.





**Figure 3-16: UAB presents current state of EasyTV at the 7th TransMedia Catalonia International Meeting.**

### **3.5.3. TransMedia Catalonia Open Day in Global Accessibility Awareness Day (May 17th, 2018, Barcelona, Spain)**

May 17 is the Global Accessibility Awareness Day [20], in which organisations and institutions around the world organise simple meetings to raise awareness on accessibility, mainly web/digital. Events are organised by Google, Microsoft, Yahoo, universities, associations, etc... The TransMedia Catalonia research group celebrated the Global Accessibility Awareness Day by launching the first TransMedia Catalonia Open Day in the campus of the Universitat Autònoma de Barcelona, Bellaterra. The information about the event was sent to UAB's press center and it was also spread through TransMedia Catalonia (TMC) research group's community manager and UAB Department of Translation and Interpreting and East Asian Studies' community manager. The details of the event were also forwarded towards (a) different associations of citizens with functional diversity TMC has been working with, (b) Translation and Interpreting Faculty's web manager, (c) Ramon Lamiel (Barcelona's Institute of Persons with Disabilities), (d) UAB's Research Vice-rectorate (to make the information circulate among all the campus) and (e) Ricard Fernández Ontiveros (Barcelona City Council Department of Social Rights' manager).

The group's researchers presented research projects they are currently working on (including EasyTV) and accessibility progresses in the areas of immersive technologies, audio description, subtitling, electrophysiological research, quality models, and development of an app for media accessibility.

The event was organised in collaboration with the EU funded projects UMAQ (project n. 752659.), ACT (project n. 2015-1-ES01-KA203-015734), ImAc (project n. 761974), EasyTV (project n. 761999), ADLAB PRO (2016-1-IT02-K203-024311), the Spanish-funded project NEA (project FFI2015-64038-P), and the Polish-funded project ADDit! (1311/MOB/IV/2015/0).

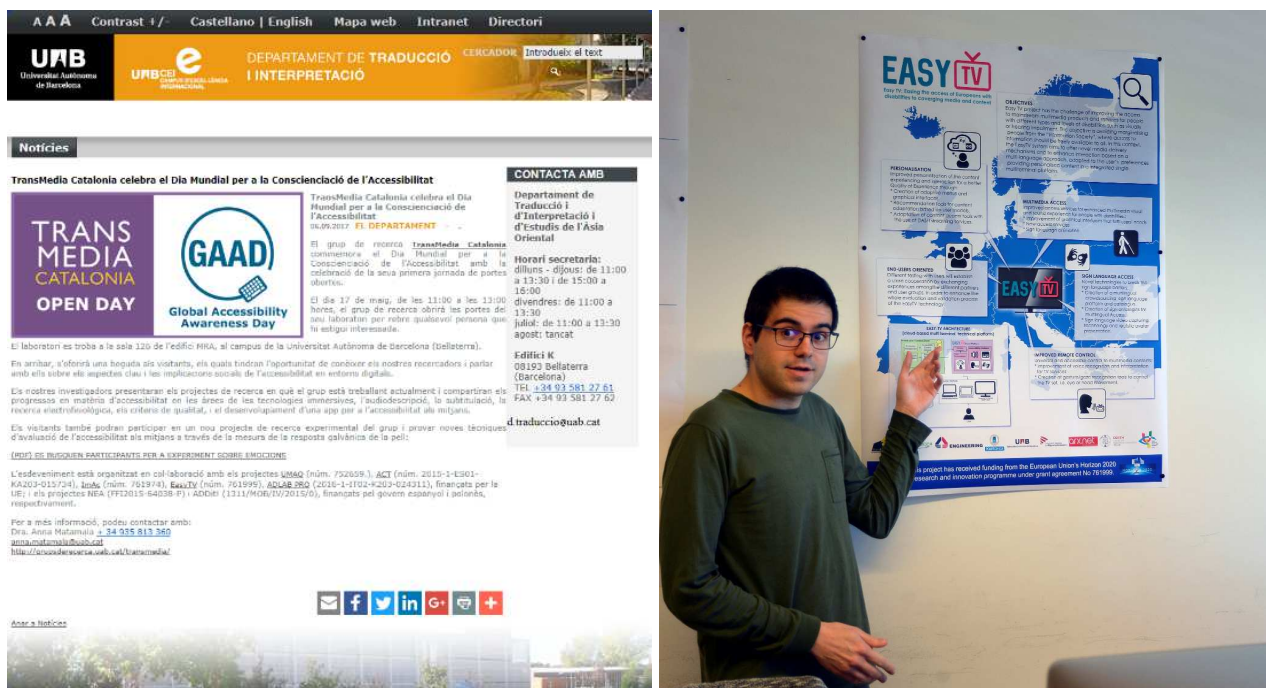


Figure 3-17: Presentation of the EasyTV project at TransMedia Catalonia Open Day.

### 3.5.4. Colombia Digital TV sessions (May 10th, 2018, Barcelona, Spain)

On May 10th, 2018, CCMA held a number of training sessions for the implementation of DTT for public television in Colombia (European Project) [19]. More specifically, Francesc Mas from CCMA led a session about “Functionalities of HbbTV standard for SmartTV and European Projects”. Due to Colombian Public Media is aiming to adopt HbbTV as the interactive standard, Francesc Mas dedicated the session to show HbbTV functionalities and possibilities for a new Digital TV market.

Colombian TV CEO's and public media managers attended the sessions and had the opportunity to be informed about both old European projects, such as HBB4ALL and TV-RING and new European projects, such as EasyTV, in which CCMA is participating. In particular, Francesc Mas explained how EasyTV project is going to impact the market thanks to a User Centered Design that will allow the development of new accessibility production and delivering tools adapted to the digital TV.



Figure 3-18: Francesc Mas from CCMA presents EasyTV at a training session on May 10th, 2018.

### 3.5.5. 6th TransMedia Catalonia International Meeting (March 21st, 2018, Barcelona, Spain)

On March 21st, 2018 the Faculty of Translation and Interpreting of Autonomous University of Barcelona (UAB) organised the 6th TransMedia Catalonia International Meeting [15], an academic meeting. Twelve participants attended the meeting, including UAB's PhD students, researchers from the TransMedia Catalonia Research Group and invited researchers. The event was also shared through the researchers and the TMC's twitter account. Daniel Segura Giménez delivered a presentation on his PhD dissertation, called "Reception Study on the Users of a Crowdsourcing Platform for Catalan Sign Language Interpretation Videos". During this presentation, he explained the sign language related technologies that are being developed in the context of the EasyTV project. Furthermore, Irene Tor presented her on-going research on audio description, the methodology of which is inspired by EasyTV regarding user profiling.



**Figure 3-19: Irene Tor and Daniel Segura Giménez of UAB presenting their work related to EasyTV at the 6th TransMedia Catalonia International Meeting.**

### 3.5.6. Focus group about future trends in accessibility (January 17th, 2018, Madrid, Spain)

Fundación CNSE (FCNSE) organised a Focus Group in order to gather requirements and opinions about technologies that should be developed within the scope of the EasyTV project. Emilio Ferreiro, FCNSE manager, chaired the session and Juan Pedro López attended the meeting to clarify any technological doubts of the attendees.



**Figure 3-20: FCNSE gathers requirements/opinions about EasyTV at the focus group about future trends in accessibility.**



### 3.6. Participation in events

#### 3.6.1. ITU-EC Forum for Europe on “Accessible Europe: ICT for ALL” (December 13th, 2018, Vienna, Austria)

This regional event for Europe [38] is being jointly organized by the Telecommunication Development Bureau (BDT) of the International Telecommunication Union (ITU) and European Commission (EC), and hosted by United Nations Vienna. This Forum focuses on further promoting the development of accessibility in countries and institutions, through the effort and cooperation of stakeholders and sharing successful outcomes of projects and initiatives already implemented, in order to interchange resources and solutions and make Europe region a more inclusive society. The event also highlights the relevance of joining efforts to remove barriers and enable human development and social inclusion of persons with disabilities and special needs and other groups of people with specific needs, either through cooperation, programs and projects development, and generate partnerships, and training.

Pilar Orero (UAB) participated in this event, which was attended by approximately 200 participants, and talked about EU funding towards research and training in media and presented some projects the research group TransMedia Catalonia is currently working on, among which is EasyTV.



Figure 3-21: Pilar Orero (UAB) talks about EasyTV at the ITU-EC Forum for Europe on “Accessible Europe: ICT for ALL”.

#### 3.6.2. MUTEI presentation event (November 23rd, 2018, Barcelon, Spain)

On November 23rd, 2018 an academic event was organised at the Autonomous University of Barcelona (UAB) [31], where several presentations were made on various projects that the UAB research group TransMedia Catalonia is currently carrying out. EasyTV was among those projects and EasyTV's first results and future goals were disseminated to the attendants.



Figure 3-22: Logo of the MUTEI presentation event.

#### 3.6.3. European Disability Forum event (November 16th, 2018, Vienna, Austria)

On November 16th, 2018, the European Disability Forum (EDF) and Österreichischer

Behindertenrat hosted the event “Using Artificial Intelligence to enhance accessibility – Opportunities and risks of emerging technologies for persons with disabilities” [30]. The aim of this event was to fully explore the potential of emerging technologies. It focused on technologies, such as Artificial Intelligence and aimed to debate and promote a universal design approach in their development, supporting enhanced accessibility for persons with disability. The event was sponsored by Microsoft, Facebook, Google, Amazon, My Handicap and Essl Foundation.

Pilar Orero (UAB) participated in the event and presented the EasyTV project as an example of personalization and how AI could go beyond when designing interaction to TV content. At the end of the event, input was collected from more than 100 participants towards a new report on emerging technologies describing the opportunities, challenges and risks that these new technologies may entail for persons with disabilities, in which several ICT players have contributed with interviews. and risks that these new technologies may entail for persons with disabilities, in which several ICT players have contributed with interviews.



Figure 3-23: UAB presents EasyTV at the EDF event.

#### 3.6.4. 7th HbbTV Symposium and Awards (November 14th-15th, 2018, Berlin, Germany)

On November 14th-15th, 2018 more than 300 professionals were gathered at the ESMT (Business School) in Berlin for industry meetings and conferences with marketers, advertisers, broadcasters, digital platform suppliers, manufacturers, app & service developers and several additional industry stakeholders in the context of the 7th HbbTV Symposium and Awards [33].

This event provided the unique platform to listen to and discuss with high level speakers all relevant topics in the HbbTV universe. Demonstrations of the most recent and future services provided an insight to the technologies enabled by HbbTV. Francesc Mas (CCMA) offered a speech entitled “HbbTV, an excellent partner in the path of innovation”, in which he presented several projects related to the HbbTV technology, as is the application for smart TVs “Super3 Channel Red Button” that has allowed multiplying the consumption of children's content on compatible TVs by eight. Francesc Mas also explained the advances made in the European project EasyTV, where the second screen will allow the consumption of audiovisual contents or accessibility services enriching the broadcast on HbbTV televisions.





**Figure 3-24: Francesc Mas (CCMA) presents the advances carried out in the context of EasyTV at the 7th HbbTV Symposium and Awards.**

### 3.6.5. EBU Accessibility Services Experts Meeting (November 9th, 2018, Geneva, Switzerland)

Every year, the European Union of Broadcasting (UER - EBU) organizes a meeting of experts on access services [28]. The objective is to raise the most important questions during a plenary session that has become, over the years, the best meeting point for those who work in accessibility services through member organizations of the EBU. This meeting took place on November 9th, 2018 in Radio Télévision Suisse in Geneva, Switzerland and it was attended by more than 85 participants (access services experts). This meeting is a great opportunity to meet other professionals who work on accessibility and share projects, exchange best practices, points of view and innovative proposals.

This year, Francesc Mas, project manager of Engineering, Research and Innovation of the CCMA, presented the advances of the European project EasyTV through a demonstration stand, where users could experiment with the tasks and first results carried out within the EasyTV project, which will increase and improve the automated production of accessible content.



**Figure 3-25: CCMA presents EasyTV advances at EBU Accessibility Services Experts Meeting.**

### 3.6.6. I Giornata d'Audiodescrizione (October 19th, 2018, Parma, Italy)

On October 19th, 2018, Dr Pilar Orero (UAB) participated in the I Giornata d'Audiodescrizione [27] that was organised by the Università Degli Studi di Parma in Parma, Italy. About 65 people from all universities across Italy attended this academic event. UAB presented the EasyTV project, its current advances and future goals to the attendants of the event.



Figure 3-26: Dr Pilar Orero (UAB) presents EasyTV at the I Giornata d'Audiodescrizione.

### 3.6.7. International Conference on Imaging Systems and Techniques (IST 2018) (October 16th-18th, 2018, Krakow, Poland)

The IST conference [36] aims to provide a forum for prestigious specialists and scholars in order to share their experiences and demonstrate frontier research results in all aspects of imaging technologies, systems and techniques. Engineers and scientists from industry, government, academia and healthcare are invited to report novel scientific results and technological and clinical advances in the multidisciplinary areas of imaging systems and interact with major worldwide experts.

Dimitrios Konstantinidis (CERTH) participated in the IST 2018 conference, in which he performed an oral presentation about the ongoing work in the context of the EasyTV project. More specifically, a deep learning methodology was proposed that extracts several different and complimentary types of features (i.e. rgb, optical flow, skeletal) from video sequences and combines them in an optimal way in order to achieve accurate and robust sign language recognition results.



Figure 3-27: Logo of the IST 2018 conference.

### 3.6.8. ITU Intersector Rapporteur Group on Audiovisual Media Accessibility – 13th meeting (October 16th, 2018, Geneva, Switzerland)

On October 16th, 2018 the United Nations specialized agency for information and communication technologies (ITU) [17] organised the 13th meeting in Geneva, Switzerland in order for accessibility professionals to study topics related to audiovisual media accessibility and develop draft recommendations for “Access Systems” that can be used for all media delivery systems, including broadcast, cable, Internet, and IPTV. Pilar Orero (UAB) and Francesc Mas (CCMA) attended this IRG AVA meeting again and presented the new advances achieved since last meeting in EasyTV project. Their presentation focused on innovation, adaptation and improvement of the processes of production and distribution of accessibility services in the new environments of digital consumption.

At the same time their presentation also showed the future steps of the EasyTV project, which will allow the creation and recommendation of new standards in the area of audiovisual accessibility, from production to distribution and consumption, and the elimination of barriers to access content thanks to the introduction of collaborative work techniques through the construction of a crowdsourcing platform.

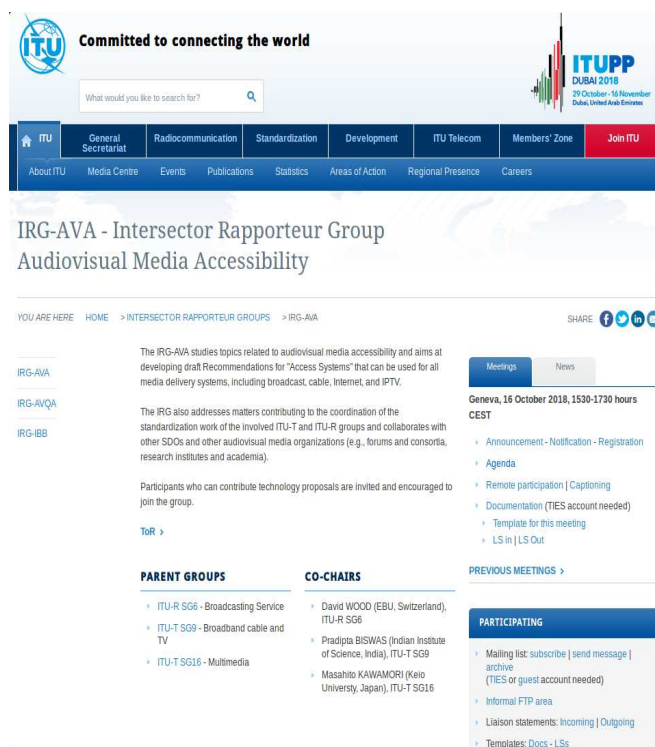


Figure 3-28: Webpage of the ITU IRG-AVA meetings.

### 3.6.9. ASBU EBU Week of Technology (October 10th, 2018, Tunis, Tunisia)

On Thursday, October 10th, 2018 Francesc Mas, project manager of the Research and Innovation Engineering of the CCMA, participated in the technological conferences organised within the framework of the ASBU EBU Week of Technology [26] to present the new challenges in accessibility to the audiovisual content, in which the CCMA works. The conferences took place at the premises of the Arabian States Broadcasting Union (ASBU) in Tunis and about 40 broadcast professionals from several Arab States attended it.

In his speech, Francesc Mas presented the various projects that have allowed the CCMA to have a recognized system of production, management and dissemination of accessibility services, such as subtitling and audiodescription. He also summarised the existing recommendations and guidelines that allow to offer content of accessibility of quality without the cost being increased. In the same session, he showed the work carried out within the EasyTV project, which will allow the automated production of accessible content to increase.



Accessibility is an indisputable right for everyone that allows audiovisual content of the media to be available to all citizens, regardless of their sensory capacities. With this objective, Arab States, through the Arabian States Broadcasting Union (ASBU) and in collaboration with the European Broadcasting Union (EBU-UER), have initiated a project to introduce accessibility services to all its public television channels.



**Figure 3-29: CCMA presents the work performed in the context of EasyTV at the ASBU EBU Week of Technology.**

### 3.6.10. IX Conference Congress on audiovisual media accessibility for people with disabilities, AMADIS 2018 (October 8th-9th, 2018, Madrid, Spain)

On October 8th-9th, 2018 the 9th edition of AMADIS conference [25] was held at the headquarters of the National Commission on Markets and Competition in Madrid, Spain. The conference was organized by the Royal Board on Disability (Real Patronato sobre Discapacidad), Carlos III University of Madrid and the National Commission on Markets and Competition (CNMC: Comisión Nacional de los Mercados y la Competencia). The main theme of the conference was the accessibility services in broadcasting and audiovisual media and the innovation in accessibility technologies applies to cultural, formative and accessible media environments for people with sensitive disabilities. The review of trends in research and technological development in the context of audiovisual accessibility for people with disabilities took place in the conference, with special attention to the tools and processes for quality assessment in the application of captioning, subtitling and audiodescription. The conference was attended by 100-150 people from professionals and final users' associations in the accessibility environment.

Within the programme of the Conference, the group GATV of the Universidad Politécnica de Madrid (UPM) actively participated with the presentation of the advances in the EasyTV project that is coordinated by UPM. The presentation was the responsibility of the researcher Silvia Uribe, in which she highlighted the technologies and main innovations implemented in the context of the project. Furthermore, Silvia Uribe presented the advances in the new standard for Connected TV HbbTV 2.0.1, which allows the interconnection and synchronization of broadcasted contents with second screen devices for the consumption of accessible contents to improve the Quality of Experience (QoE) of people with disabilities. The lecture was transmitted by streaming through the internet, and simultaneously translated into sign language and subtitles.



Figure 3-30: UPM presented the EasyTV project at AMADIS 2018 conference.

### 3.6.11. Languages and the Media (October 3rd-5th, 2018, Berlin, Germany)

On October 3rd-5th, 2018 the 12th International Conference on Audiovisual Language Transfer in the Media, named “Languages and the Media” [37] was organised in Berlin, Germany. In its sessions and workshops, the conference examined in detail the various developments, innovations and changes that are setting the framework for the future of the audiovisual media industry and the role of languages in it. Around 375 participants from over 40 countries attended this academic and industry-related event.

Pilar Orero (UAB) participated in the event and presented the EasyTV project, services, initial work and future goals at the “Panel discussion: Quality in Media Accessibility: Current Issues and Future Challenges”.



Figure 3-31: Pilar Orero (UAB) presents EasyTV at the “Languages and the Media” conference.

### 3.6.12. **Terpsichore summer school in ICL 2018 conference (September 25th, 2018, Kos, Greece)**

On September 25th, 2018, a Terpsichore summer school was organised during the International Conference on Interactive Collaborative Learning (ICL). At this summer school, Dr. Kosmas Dimitropoulos (CERTH) delivered a presentation named “An introduction to human motion analysis: From capturing to recognition”, in which he described the work and first results on human motion analysis research that is carried out in the context of the EasyTV project.



**Figure 3-32: Dr. Kosmas Dimitropoulos (CERTH) presents the work performed by CERTH in the context of EasyTV at Terpsichore summer school.**

### 3.6.13. **26th European Signal Processing conference (Eusipco 2018) (September 3rd-7th, 2018, Rome, Italy)**

Eusipco [35] is the flagship conference of the European Association for Signal Processing (EURASIP) and offers a comprehensive technical program addressing all the latest developments in research and technology for signal processing and its applications. It features world-class speakers, oral and poster sessions, keynotes and plenaries, exhibitions, demonstrations, tutorials, demo and ongoing work sessions and satellite workshops. It attracts many leading researchers and industry figures from all over the world.

Kosmas Dimitropoulos (CERTH) participated in the conference and presented a poster on the ongoing work carried out by CERTH in the context of the EasyTV project. More specifically, he presented a novel deep learning methodology that employs different spatial and temporal representations of skeletal data in order to achieve accurate action recognition results.





**Figure 3-33: Kosmas Dimitropoulos (CERTH) presents the work carried out in the context of EasyTV at the 26th EUSIPCO 2018 conference.**

#### 3.6.14. ISO meeting (August 27th-31st, 2018, Okayama, Japan)

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization. Twice a year there is a meeting of the ISO/IEC JTC 1/SC 35. This stands for Joint Technical Committee (JTC)1 dealing with Information technology, and its Subcommittee (SC) 35, User interfaces.

EasyTV was presented in the Work Group (WG) 06 User interfaces accessibility of the SC 35. The project was presented by Pilar Orero (UAB), as members of the Spanish National Standardisation Agency UNE ([www.une.org](http://www.une.org)). EasyTV was presented to the WG who is revising the ISO/IEC 24786 Ed.2 - Information technology — User interfaces — Accessible user interface for accessibility settings on information devices. Standards need to be updated from time to time, and this second edition cancels and replaces the first edition (ISO/IEC 24786:2009), which had been technically revised, and needs updating.

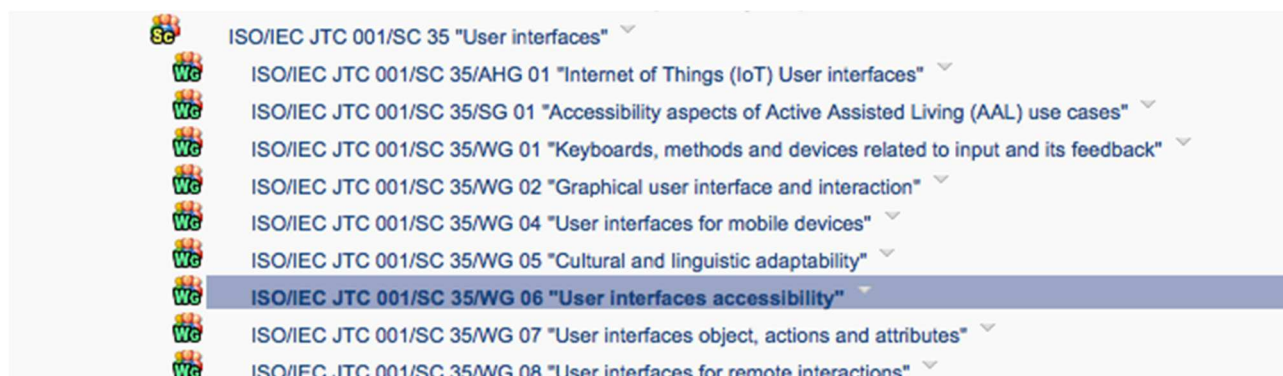


Figure 3-34: The WG 06 of the SC 35, in which EasyTV was presented is highlighted.

### 3.6.15. 9th International Symposium For Young Researchers in Translation, Interpreting and East Asian Studies (June 29th, 2018, Barcelona, Spain)

On June 29th, 2018 the 9th International Symposium For Young Researchers in Translation, Interpreting and East Asian Studies [24] was held in the Faculty of Translation and Interpreting of the Autonomous University of Barcelona (UAB). This was an academic event, in which about 54 people participated, most of which were PhD students and university staff.

Daniel Segura Giménez of UAB delivered a presentation on the possibilities of crowdsourcing technology as a way to provide accessibility services. Among many other examples, the researcher mentioned the sign language crowdsourcing service being developed in the EasyTV project, and he talked about the objectives and scope of the whole project as well.



Figure 3-35: UAB presented the EasyTV project at the 9th International Symposium For Young Researchers in Translation, Interpreting and East Asian Studies.

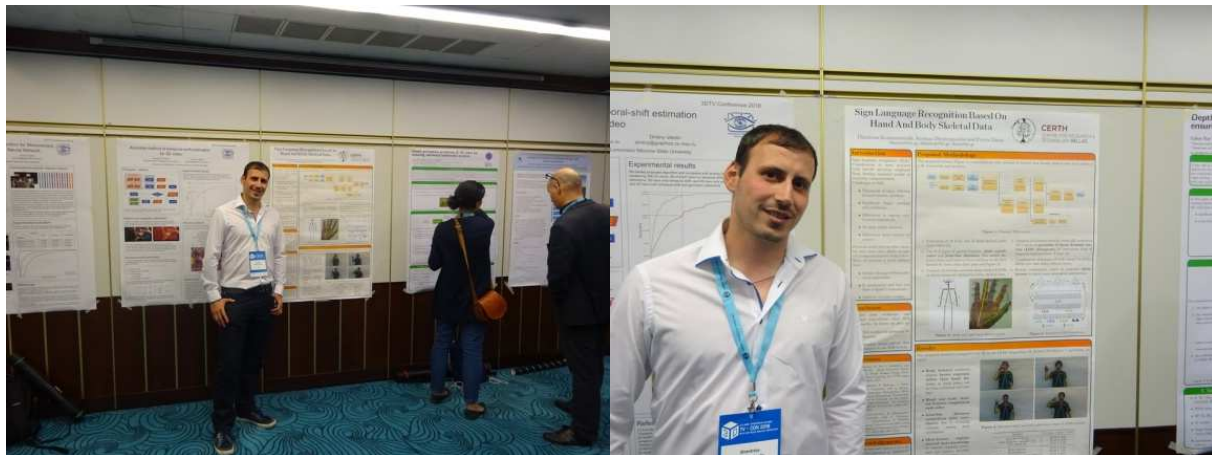
### 3.6.16. 3DTV conference (June 3rd-5th, 2018, Stockholm, Sweden)

The 3DTV conference [34] is organised by Tampere University of Technology, Finland and Mid Sweden University, Sweden and involves a wide range of disciplines: imaging and computer



graphics, signal processing, telecommunications, electronics, optics and physics.

Dimitrios Konstantinidis (CERTH) participated in the conference and presented a poster about sign language recognition based on skeletal data. His work was carried out in the context of the EasyTV project and involved the use of deep learning techniques for the extraction of hand and body skeletal data from signed videos, which are then processed in order to achieve accurate and robust sign language classification results.



**Figure 3-36: Dimitrios Konstantinidis (CERTH) presents the work carried out in the context of EasyTV at the 3DTV conference.**

### 3.6.17. 25th NEM General Assembly (May 30th, 2018, Brussels, Belgium)

The NEM Initiative – New European Media Initiative – was established as one of the European Technology Platform aiming at fostering the convergence between consumer electronics, broadcasting and telecoms in order to develop the emerging business sector of networked and electronic media. In order to respond to new needs and requirements of the Horizon 2020 programme, the NEM initiative enlarged its focus towards creative industries and changed its name from Networked and Electronic Media Initiative to New European Media, dealing with Connected, Converging and Interactive Media & Creative Industries, driving the future of digital experience.

The NEM constituency includes all major European organisations working in the networked and electronic media area, including content providers, creative industries, broadcasters, network equipment manufacturers, network operators and service providers, academia, standardisation bodies and government institutions. Those actors share a common vision and have been producing a Strategic Research and Innovation Agenda (SRIA) as well as position papers, in order to accelerate the innovative development of the new sector in a harmonised and fruitful way and to place European industry at the forefront of the information era. In the 25th NEM General Assembly Pilar Orero (UAB) was elected for the NEM Steering Board and was also given the opportunity to present and promote the EasyTV project as a new technology that can shape the future of digital experience for people with disabilities. The NEM Steering Board involves a representative set of players of all domains of the Networked and Electronic Media. They define the strategic vision and the key orientations of the initiative, aiming at converting the NEM Vision into a strategic agenda, and setting the operational goals for achieving this agenda. The Steering Board members, through their participation at this level, are displaying their commitment to significant research investment in the NEM domain over at least the next 5 to 10 years. The Steering Board may decide to set up NEM Working Groups with focused activities open to all members of the NEM General Assembly, with the specific goal of progressing one or more parts of the NEM SRA or other work items.



**Figure 3-37: UAB presented EasyTV at the 25th NEM General Assembly.**

### 3.6.18. IRT Subtech 1 – Symposium on Subtitling Technology (May 24th-25th, 2018, Munich, Germany)

The SubTech 1 symposium [22] is organized by IRT, which is the central research and development center of the public broadcasters of Germany, Austria and Switzerland. The purpose of this symposium is to bring subtitle technology to a common technical base. The problem of different subtitle technologies lies on the fact that on one hand standard organizations like W3C, EBU, ATSC, and ARIB that are publishing new subtitle standards to cope with the changes in the field of media technology, but on the other hand North America, Europe and Asia have to deal with different subtitling traditions and legacy technologies. Moreover, in each region broadcasters, studios and streaming providers need to solve sector specific problems, which they approach with subtitle equipment from different vendors, often with missing interoperability.

As a result, the SubTech 1 symposium is an international forum, in which new standards, new software systems and best practices in subtitling technology are highlighted and studied across and media sectors and engineers and technical experts from standard organizations, studios, broadcaster, subtitling vendors or streaming providers are met to talk about what has been established, what is coming up and how to manage transition.

During this year's Subtech Symposium, EasyTV project was shown in a booth specially dedicated to present the objectives and initial results to the attendees of the symposium, which consisted of 70 subtitling professionals, including broadcasters, OTT service providers and audiovisual and accessibility production companies. More specifically, CCMA demonstrated the possibility to play contents synchronously on a SmartTV and a companion screen with subtitles and video magnification.



Figure 3-38: CCMA presents the EasyTV project in a booth at the IRT Subtech 1 symposium.

#### 3.6.19. Bit Audiovisual (May 8th-10th, 2018, Madrid, Spain)

On May 8th-10th, 2018 the Bit Audiovisual [18] was organised at Ifema in Madrid, Spain. This event is a trade fair concerning audio-visual technology, in which 80 exhibitors participated, including distributors, exporters, importers, manufacturers, organizations and associations and trade press. EasyTV was selected together with 9 more initiatives to be presented as a poster in the I+D+Bit, the Research and Innovation section of the event by UPM. Furthermore, EasyTV was chosen, as one of the most interesting initiatives among them, to be presented as a short oral presentation on May 9th in the event forum. A few photos from the event are presented below:



Figure 3-39: UPM presents the EasyTV project at Bit AudioVisual on May 8-10, 2018.

#### 3.6.20. 11th Language Resources and Evaluation Conference (LREC 2018) (May 7th-12th, 2018, Miyazaki, Japan)

LREC [32] provides a unique forum for researchers, industrials and funding agencies from across a wide spectrum of areas to discuss problems and opportunities, find new synergies and promote initiatives for international cooperation. The topics of the conference include investigations in language sciences, progress and innovation in language technologies and development of corresponding products, services and applications, and standards.

On May 7th-12th, 2018, UAB participated in the 11th LREC conference that was about “Improving social inclusion using NLP: Tools, Methods and Platforms. UAB presented a paper that examines the best practices for the design of a user-centric approach in accessibility research projects, taking two European projects as an example: ImAc (Immersive Accessibility) and EasyTV (Easing



the access of Europeans with disabilities to converging media and content). Both H2020 projects aim to investigate access services, such as audio description, audio subtitling, subtitling/captioning or sign language interpreting in media content. The paper explains the many and varied documentation required to comply with existing ethical issues in Europe, while an overview is also presented about user profiling in previous accessibility projects in the field of media accessibility, and shows good practices based on the two ongoing projects. Finally, the paper presents an example of how users have been defined and how they have been involved in the initial stages of both ImAc and EasyTV, by summarizing the methodology developed for a series of focus groups with end users and presenting recommendations when involving users in accessibility research.



Figure 3-40: Logo of the LREC 2018 conference.

#### 3.6.21. **SIGHTCITY 2018 (April 26th-28th, 2018, Frankfurt, Germany)**

On April 26th-28th, 2018, SIGHTCITY 2018 [42] was held in Frankfurt, Germany. SIGHTCITY is one of the biggest exhibitions with a scope on technologies that aid blind and visually impaired people. In this exhibition, experts and concerned persons share their knowledge of recent scientific and medical developments as well as information about social legislation in the field of low vision with those interested. SIGHTCITY also includes daily patient symposia with general discussions about the latest research findings on diagnosis and therapy of low vision. After these symposia, concerned persons and their relatives have the opportunity to ask questions to exhibitors.

Mediavoice participated in SIGHTCITY 2018 and performed one-to-one meetings to present its products and innovative projects for blind and visually impaired people. Other than Speaky Facile (i.e., a commercial multilingual product), Mediavoice had the opportunity to present its current research projects, among which is I4All and EasyTV.



Figure 3-41: Logo of the SIGHTCITY 2018 event.

#### 3.6.22. **Innovation and High Technology Fair (BIAT 2018) (Naples, Italy, April 19th-20th, 2018)**

On April 19th-20th, 2018 the Borsa dell'innovazione e dell'Alta tecnologia (Innovation and High Technology Fair) (BIAT 2018) [41] was held in Naples, Italy. The main objective of BIAT is to enhance innovation and research activities of the companies from the Italian Southern Regions (Campania, Calabria, Puglia, Sicily, Abruzzo, Molise, Basilicata, Sardinia), in order to transform these activities into products and services to be placed on the foreign markets. There are several companies from sectors, such as aerospace, environment, biotechnologies, renewable energies,

ICT, nanotechnologies, innovative materials, etc. that participate in this technology fair.

Mediavoice, which a member of the EasyTV consortium, participated in BIAT 2018 and presented the goals and services of the EasyTV project. Furthermore, discussions were made on how the work carried out by MV in the context of the EasyTV project can be transformed into a final product or service.



Figure 3-42: Logo of the BIAT 2018 Innovation and High Technology Fair.

### 3.6.23. ITU Intersector Rapporteur Group on Audiovisual Media Accessibility – 12th meeting (April 17th, 2018, Geneva, Switzerland)

ITU is the United Nations specialized agency for information and communication technologies (ICTs). ITU allocates global radio spectrum and satellite orbits, develop the technical standards that ensure networks and technologies seamlessly interconnect, and strive to improve access to ICTs to underserved communities worldwide. ITU is committed to connecting all the people around the world— wherever they live and whatever their means. Through their work, ITU protects and supports everyone's fundamental right to communication. ITU is an organization based on public-private partnership since its inception and currently has a membership of 193 countries and almost 800 private-sector entities and academic institutions. ITU is headquartered in Geneva, Switzerland.

On April 17th, 2018 the IRG AVA meeting [17] was organised by ITU in order for accessibility professionals to study topics related to audiovisual media accessibility and develop draft recommendations for “Access Systems” that can be used for all media delivery systems, including broadcast, cable, Internet, and IPTV. Two partners from EasyTV (CCMA and UAB) attended the IRG AVA meeting. Pilar Orero (UAB) and Francesc Mas (CCMA) presented the advances achieved in EasyTV project and focused on innovation, adaptation and improvement of the processes of production and distribution of accessibility services in the new environments of digital consumption.

At the same time the presentation also showed the future steps of EasyTV project, which will allow the creation and recommendation of new standards in the area of audiovisual accessibility, from production to distribution and consumption, and the elimination of barriers to access content thanks to the introduction of collaborative work techniques.



Figure 3-43: CCMA and UAB present EasyTV at the 12th IRG AVA meeting in Geneva, Switzerland.

#### 3.6.24. 9th Annual International Translation Conference (March 27th-28th, 2018, Doha, Qatar)

On March 27th-28th, 2018 UAB participated in the 9th Annual International Translation Conference [16] that took place in Doha, Qatar. The topic of the conference was “Translation in the Digital Age: From Translation Tools to Shifting Paradigms” and 42 people, consisting of academic researchers, industry and representatives of user associations, attended the event. Dr. Pilar Orero from UAB had the opportunity to present the EasyTV project and the work on sign language translation to the participants of the conference.



Figure 3-44: Dr. Pilar Orero from UAB presents EasyTV at the 9th Annual International Translation Conference.

#### 3.6.25. TV Innovation Forum Arqiva (March 6th, 2018, London, UK)

On Tuesday, March 6th, 2018 Arqiva hosted a TV Innovation Forum [14] about broadcast innovation and invited a number of their commercial television customers, including the Public Service Broadcasters at the iconic IET London Savoy Place in London, UK. The purpose of the event was to update Arqiva’s customers about Arqiva’s latest innovations and particularly the DTT platform. The audience of the Forum consisted mostly of main UK audiovisual and broadcast commercial customers. Francesc Mas represented CCMA and as a speaker talked about CCMA HbbTV services within the presentation “HbbTV and the opportunities it presents to broadcaster”. Furthermore, CCMA exposed future projects in the scope of the audiovisual accessibility, such as EasyTV.





Figure 3-45: Photos from the TV Innovation Forum Arqiva in London, UK.

### 3.6.26. Jornades ACAPPS 17 (November 4th, 2017, Barcelona, Spain)

CCMA participated in Jornades ACAPPS 17 [13], which is a conference day for the deaf in oral form. The conference took place in Auditori Fort Pienc in Barcelona, Spain on November 4th, 2017. About 60 users with co-clear implant or their relatives attended the conference. CCMA was given the opportunity to present its accessibility services in broadband & broadcast services. Rosa Vallverdú, the person in charge of Accessibility, and Francesc Mas from the Engineering Research & Innovation department, explained the subtitling of contents in the CCMA. Francesc Mas did a practical demonstration of how to activate the subtitles in the applications and how the subtitles can be customized based on the taste of each user (position, font size, etc.). CCMA dedicated the last part of the presentation to talk about future projects in the scope of the audiovisual accessibility, such as EasyTV.



Figure 3-46: CCMA presents EasyTV at Jornades ACAPPS 17 conference in Barcelona, Spain.

### 3.6.27. H2020 Media Projects Workshop (October 17th, 2017, Brussels, Belgium)

On October 17th, 2017 Federico Álvarez (UPM), Pilar Orero (UAB) and Chrysostomos Bourlis (ARX.NET) took part in the event H2020 Media Projects Workshop: Collaboration Towards the Future of Media in Brussels, Belgium. They presented the initial poster of the EasyTV project and had the opportunity to foster synergies with other relevant projects, such as ImAc (Immersive Accessibility), which is coordinated by i2CAT.





**Figure 3-47: UPM, UAB and ARX.NET presents the EasyTV poster at H2020 Media Projects Workshop.**

### 3.7. Publications

All publications related to EasyTV for the first 15 months of the project (mid-term report) are listed below:

#### Journals

1. Matamala, A. and Orero, P., *“Standardising accessibility: Transferring knowledge to society,”* Journal of Audiovisual Translation , 1(1), 139-154. 2018.

#### Conferences

1. Konstantinidis, D., Dimitropoulos, K. and Daras, P., *“A Deep Learning Approach for Analyzing Video and Skeletal Features in Sign Language Recognition,”* IEEE IST, Krakow, Poland, 16-18 October, 2018.
2. Uribe, S., López, J.P, Llorente, Á., Moreno F., Álvarez, F., and Menéndez, J.M. *“EasyTV: Mejorando la accesibilidad de los servicios audiovisuales en el ámbito de la televisión conectada,”* AMADIS, Madrid, Spain, 8-9 October, 2018.
3. Konstantinidis, D., Dimitropoulos, K. and Daras, P., *“Skeleton-based Action Recognition Based on Deep Learning and Grassmannian Pyramids,”* EUSIPCO 2018, Rome, Italy, 3-7 Sept. 2018.
4. Konstantinidis, D., Dimitropoulos, K. and Daras, P., *“Sign Language Recognition Based on Hand and Body Skeletal Data,”* 3DTV Conference, IEEE, Stockholm, Helsinki, 3-5 June 2018.
5. Matamala, A., Orero, P., Rovira-Esteva, S., Casas-Tost, H., Morales, L.F., Soler-Vilageliu, O., Agulló, B., Fidyka, A., Segura, D. and Tor-Carroggio, I., *“User-centric approaches in access services evaluation: profiling the end user,”* Language Resources and Evaluation Conference (LREC), Miyazaki (Japan), 7-12 May 2018.

#### Book chapters

1. Orero, P. and Tor-Carroggio, I. *“User Requirements When Designing Learning e-Content: Interaction for All,”* In E. Kapros y M. Koutsombogera (Eds.) Designing for the User Experience in Learning Systems , pp. 105-122, Cham: Springer Nature. 2018.

From the published papers in conferences, journals and books, some interesting statistics can be produced. The total number of views of these papers is equal to **567** (based on the statistics of the

Researchgate), while the average number of views per paper is equal to **113.4**. Furthermore, the paper that made the most impact as far as the number of views is concerned is:

1. Konstantinidis, D., Dimitropoulos, K. and Daras, P., “*Sign Language Recognition Based on Hand and Body Skeletal Data*,” 3DTV Conference, IEEE, Stockholm, Helsinki, 3-5 June 2018. **(292 views)**

### 3.8. Clustering activities

At the 2018 DG Connect Concentration meeting, an Accessibility Cluster was generated among three funded H2020 European projects: EasyTV coordinated by UPM, Immersive Accessibility (**ImAc**) [1] coordinated by i2CAT and Personalised Content Creation for the Deaf Community in a Connected Digital Single Market (**Content4All**) [2] coordinated by FINCONS.

The three projects decided that their cooperation will be based on three main pillars. The first pillar involved the use of cross-references from each project to the other in their URLs in order for the interested parties to get familiar with the work of all projects. The second pillar addressed the collaboration in standardisation so as all three projects provide inputs to both ISO and ITU agencies. Finally, the third pillar involved common activities to boost communication and dissemination in high-level events, such as EBU Accessibility Experts Meeting in Geneva, IBC in Amsterdam, Google in Brussels or ITU Access Europe at UN Vienna.

The clustering among the three projects has not just added up, but multiplied the possibilities for raising awareness about accessibility. By working together, the three projects have shown the financial backing to media accessibility by EC and they additionally formulated a clear policy and roadmap towards accessibility and the adoption of the AVMSD directive.

Moreover, collaboration is set up between EasyTV and Understanding Media Accessibility Quality (**UMAQ**) on the topic of media accessibility. The two projects had the opportunity to exchange ideas and know-how at the TransMedia Catalonia Open Day during the Global Accessibility Awareness Day (May 17th, 2018) and at the Languages and Media round table (October 5th, 2018), in which current issues and future challenges on the quality of media accessibility were addressed.

Furthermore, CERTH foster synergies with **i-Prognosis** [40] and **PROTEIN** in order to achieve knowledge transfer among the three H2020 projects in the areas of health monitoring and early intervention and accessibility. Such cooperation will help all projects develop more effective dissemination strategies towards all interested parties. The workshop at the Petra 2019 conference comprises the first step towards a fruitful cooperation among these European projects.

EasyTV is in close collaboration with Internet for All (**I4All**), which is an Italian R&D project with Università Sapienza and Reveal (Spin-off of Università Tor Vergata) in Rome. I4All will allow every blind and visually impaired person to navigate and consume web content without implementing an ad-hoc vocalization with every page navigated since it will use an innovative Artificial Intelligence (AI) algorithm and Machine Learning (ML) techniques to extract content and services from web pages, classify them and generate a structured voice user interface between the end user and the web page. EasyTV will take profit from I4All since some of the AI and ML techniques will be applied to the dialog system of the speech recognition module that will be part of the universal and accessible remote control that EasyTV offers.

Finally, MV is part of **Artes 4.0 - Italian Competence Center (CC)**, a highly specialized network, within the areas of advanced robotics and its enabling technologies that consists of 130 companies (large and SME) and 15 research centers and universities. The CC will provide technologies and services to businesses and particularly to SMEs, promoting projects, training, innovation activities, industrial research and experimental development. The CC was formed on December 10th, 2018 and MV started to present the EasyTV project to CC partners.

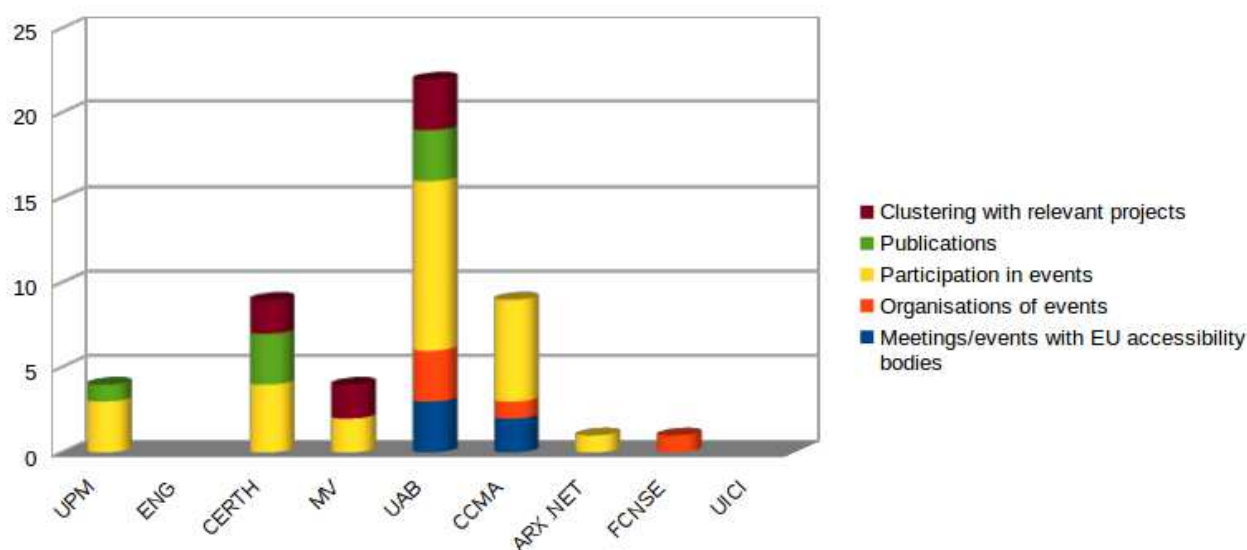
## 4. DISSEMINATION EVALUATION

This section presents the overall dissemination activities carried out by the EasyTV consortium during the first 15 months of the project (i.e. mid-term report). A detailed description of the activities, in which each partner was engaged, is presented in Appendix I. The following table summarises the dissemination activities of all partners of the EasyTV project.

| Dissemination activity                       | UPM | ENG | CERTH | MV | UAB | CCMA | ARX.NET | FCNSE | UICI |
|--|-----|-----|-------|----|-----|------|---------|-------|------|
| Meetings/events with EU accessibility bodies | 0   | 0   | 0     | 0  | 3   | 2    | 0       | 0     | 0    |
| Organisations of events                      | 0   | 0   | 0     | 0  | 3   | 1    | 0       | 1     | 0    |
| Participations in events                     | 3   | 0   | 4     | 2  | 10  | 6    | 1       | 0     | 0    |
| Publications                                 | 1   | 0   | 3     | 0  | 3   | 0    | 0       | 0     | 0    |
| Clustering with relevant projects            | 0   | 0   | 2     | 2  | 3   | 0    | 0       | 0     | 0    |

**Table 4-2: Mid-term report on dissemination activities for each partner of the EasyTV project.**

The information presented in **Table 4-2**, is visualised in **Figure 4-48**.



**Figure 4-48: Visualisation of dissemination activities for each partner of the EasyTV project.**

**Table 4-3** presents the total number of dissemination activities per category based on **Table 4-2**, after discarding duplicate activities attended/organised by more than one partners. **Table 4-3** is used to determine whether the mid-term dissemination goals of the EasyTV project have been achieved. It should be noted that the meetings/events with EU accessibility bodies and the organisation of local events are excluded from the number of external events that the EasyTV consortium has participated in.

| Dissemination activity | Total number |
|------------------------|--------------|
|------------------------|--------------|

|  |    |
|--|----|
| Meetings/events with EU accessibility bodies | 5  |
| Organisations of events                      | 5  |
| Participations in events                     | 22 |
| Publications                                 | 7  |
| Clustering with relevant projects            | 7  |

**Table 4-3: Total number of dissemination activities per category during the first 15 months of the project (mid-term report).**

Based on the key performance indicators (KPIs) defined on the deliverable “D1.2 – EasyTV system requirements specification” and **Table 4-3** that reports the total dissemination activities of the EasyTV consortium, a mid-term evaluation of the dissemination of the EasyTV project and whether or not the dissemination goals have been achieved, can be performed. **Table 4-4** performs a comparison between the dissemination goals per year and mid-term and the activities performed by the EasyTV consortium during the first mid-term period.

| Dissemination activities                             | Target per year | Mid-term (M15) target | Mid-term (M15) performed |
|--|-----------------|-----------------------|--------------------------|
| KPI-12: Meetings/events with EU accessibility bodies | 3               | 4.5                   | 5                        |
| KPI-13: Publications                                 | 4               | 6                     | 7                        |
| KPI-14: Participations in external events            | 2               | 3                     | 22                       |

**Table 4-4: Comparison of the dissemination goals with the reported mid-term dissemination activities.**

From **Table 4-4**, it can be concluded that all dissemination goals (i.e. KPI-12, KPI-13 and KPI-14) set in D1.2 have been achieved. More specifically, the partners of the EasyTV consortium have participated in 5 meetings or events with EU accessible bodies (the goal was set to 4.5) and published 7 papers in conferences, journals and books (the goal was set to 6). Finally, the partners of the EasyTV consortium have participated in 22 external events, a number significantly bigger than the corresponding dissemination goal that was set to 3. As a result, the mid-term dissemination report shows that the EasyTV project managed to fulfil its dissemination goals and create a huge impact on the academic society, industry, EU and local accessibility bodies and the general public.

## 5. CONCLUSIONS

This document initially presents an overview of the dissemination plan, along with the means, tools and approaches to best disseminate EasyTV in scientific community, potential stakeholders and general public, as it was formulated in the Internal Dissemination Plan. Then, the document

presents in detail the clustering activities and events that the EasyTV consortium organised or participated during the first 15 months of the project. Finally, the dissemination results are evaluated and reveal that all dissemination goals set in D1.2 have been successfully achieved.

## 6. REFERENCES

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- [5] UMAQ project: <http://pagines.uab.cat/umag/>
- [6] I4ALL project: <https://www.i4all.usamv.ro/>
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## APPENDIX I

In Appendix I, we present the individual dissemination activities of all partners of the EasyTV consortium.

| Partner Name:  | UPM   |
|--|---|
| Meetings/events with EU accessibility bodies<br>(Date, Place, Description) |   |
| Organisation of events<br>(Date, Place, Description)                       |   |
| Participation in events<br>(Date, Place, Description)                      | 1) BIT Audiovisual (8th -10th May 2018, Madrid, Spain)<br>2) IX Conference Congress on audiovisual media accessibility for people with disabilities, AMADIS 2018 (8th and 9th Oct. 2018, Madrid, Spain)<br>3) H2020 Media Projects Workshop (October 17th, 2017, Brussels, Belgium) |
| Publications   | 1) Uribe, S., López, J.P, Llorente, Á., Moreno F., Álvarez, F., and Menéndez, J.M. “EasyTV: Mejorando la accesibilidad de los servicios audiovisuales en el ámbito de la televisión conectada”, AMADIS, Madrid, Spain, 8-9 October, 2018.   |
| Clustering with projects<br>(Project name/website/Clustering activities):  |   |
| Other  |   |

| Partner Name:  | ENG |
|--|-----|
| Meetings/events with EU accessibility bodies<br>(Date, Place, Description) |     |
| Organisation of events<br>(Date, Place, Description)                       |     |
| Participation in events  |     |

|  |   |
|--|---|
| <b>(Date, Description)</b>                           |   |
| <b>Publications</b>                                  |   |
| <b>Clustering with projects</b>                      |   |
| <b>(Project name/website/Clustering activities):</b> |   |
| <b>Other</b>   | <p>Internal press release in English, Italian and Portuguese version</p> <p><a href="https://www.eng.it/mercati/dettaglio-progetto.dot?com.dotmarketing.htmlpage.language=1&amp;ch.lang=true&amp;catMercatoId=475ca29c-fd34-4f46-83a3-0bea16c3d5e4&amp;inode=f0e2b6c0-0b2d-44f7-93fa-d094354ca4b9">https://www.eng.it/mercati/dettaglio-progetto.dot?com.dotmarketing.htmlpage.language=1&amp;ch.lang=true&amp;catMercatoId=475ca29c-fd34-4f46-83a3-0bea16c3d5e4&amp;inode=f0e2b6c0-0b2d-44f7-93fa-d094354ca4b9</a></p> |

|   |   |
|---|---|
| <b>Partner Name:</b>                                | <b>CERTH</b>  |
| <b>Meetings/events with EU accessibility bodies</b> |   |
| <b>(Date, Description)</b>                          |   |
| <b>Organisation of events</b>                       | 1) Agent workshop at Petra 2019 conference (June 5th-7th, 2019, Rhodes, Greece)   |
| <b>(Date, Description)</b>                          |   |
| <b>Participation in events</b>                      | 1) International Conference on Imaging Systems and Techniques (IST 2018) (October 16th-18th, 2018, Krakow, Poland)<br>2) Terpsichore summer school in ICL 2018 conference (September 25th, 2018, Kos, Greece)<br>3) 26th European Signal Processing conference (Eusipco 2018) (September 3rd-7th, 2018, Rome, Italy)<br>4) 3DTV conference (June 3rd-5th, 2018, Stockholm, Sweden)  |
| <b>(Date, Description)</b>                          |   |
| <b>Publications</b>                                 | 1) Konstantinidis, D., Dimitropoulos, K. and Daras, P., "A Deep Learning Approach for Analyzing Video and Skeletal Features in Sign Language Recognition," IEEE IST, Krakow, Poland, 16-18 October, 2018.<br>2) Konstantinidis, D., Dimitropoulos, K. and Daras, P., "Skeleton-based Action Recognition Based on Deep Learning and Grassmannian Pyramids," EUSIPCO 2018, Rome, Italy, 3-7 Sept. 2018.<br>3) Konstantinidis, D., Dimitropoulos, K. and Daras, P., "Sign Language Recognition Based on Hand and Body Skeletal Data," 3DTV Conference, IEEE, Stockholm, Helsinki, 3-5 June 2018. |

|   |                              |
|---|------------------------------|
| <b>Clustering with projects</b><br><b>(Project name/website/Clustering activities):</b> | 1) i-PROGNOSIS<br>2) PROTEIN |
| <b>Other</b>  |                              |

| <b>Partner Name:</b>   | <b>Mediavoice S.r.l. (MV)</b>  |
|--|--|
| <b>Meetings/events with EU accessibility bodies</b><br><b>(Date, Place, Description)</b> |  |
| <b>Organisation of events</b><br><b>(Date, Place, Description)</b>                       |  |
| <b>Participation in events</b><br><b>(Date, Place, Description)</b>                      | 1) BIAT 2018 – Naples 19-20 April 2018. Borsa dell'innovazione e dell'Alta tecnologia (Innovation and High Technology Fair)<br>2) SIGHTCITY 2018 – Frankfurt (Germany) 24-26 April 2018. Exhibition for Aids for the blind and the visually impaired                 |
| <b>Publications</b>  |  |
| <b>Clustering with projects</b><br><b>(Project name/website/Clustering activities):</b>  | 1) I4All (Internet 4 All) – Italian project with Università Sapienza (Rome) – Reveal (Spin-Off) Università Tor Vergata (Rome)<br>2) Artes 4.0 - Italian Competence Center public granted with 130 companies (large and SME) and 15 research centers and universities |
| <b>Other</b>   |  |

| <b>Partner Name:</b>   | <b>Universitat Autònoma de Barcelona (UAB)</b>  |
|--|---|
| <b>Meetings/events with EU accessibility bodies</b><br><b>(Date, Place, Description)</b> | 1) ISO meeting (August 27th-31st, 2018, Okayama, Japan)<br>2) European Disability Forum (EDF) and Österreichischer Behindertenrat's "Using Artificial Intelligence to enhance accessibility - Opportunities and risks of emerging technologies for persons with disabilities". Brussels, Belgium, 16 November 2018<br>3) ITU-EC Forum for Europe on "Accessible Europe: ICT for ALL" (December 13th, 2018, Vienna, Austria) |
| <b>Organisation of events</b><br><b>(Date, Place, Description)</b>                       | 1) 6th TransMedia International Meeting. UAB, Barcelona, Spain, 21 March 2018   |

|   |  |
|---|--|
| <b>Description)</b>   | <ul style="list-style-type: none"> <li>2) Global Accessibility Awareness Day. UAB, Barcelona, Spain, 17 May 2018</li> <li>3) 7th TransMedia International Meeting. UAB, Barcelona, Spain, 25 October 2018</li> </ul>   |
| <b>Participation in events</b><br><b>(Date, Place, Description)</b>                     | <ul style="list-style-type: none"> <li>1) H2020 Media Projects Workshop (October 17th, 2017, Brussels, Belgium)</li> <li>2) 9th Annual International Translation Conference, 27-28 March 2018</li> <li>3) ITU Intersector Rapporteur Group on Audiovisual Media Accessibility – 12th meeting (April 17th, 2018, Geneva, Switzerland)</li> <li>4) Language Resources and Evaluation Conference (Improving Social Inclusion Using NLP: Tool, Methods and Platforms). Miyazaki, Japan, 7-12 May 2018)</li> <li>5) New European Media (NEM) General Assembly, 30 May 2018</li> <li>6) 9th International Symposium for Young Researchers in Translation, Interpreting, Intercultural Studies and East Asian Studies. UAB, Barcelona Spain, 29 June 2018</li> <li>7) Languages and the Media. Berlin, Germany, 3-5 October 2018</li> <li>8) ITU Intersector Rapporteur Group on Audiovisual Media Accessibility. ONU-ITU, Geneva, 16 October 2018</li> <li>9) I Giornata d'Audiodescrizione. Università Degli Studi di Parma, Italy, 19 October 2018</li> <li>10) MUTEI presentation. UAB, Barcelona, Spain, 23 November 2018</li> </ul> |
| <b>Publications</b>   | <ul style="list-style-type: none"> <li>1) Matamala, A. and Orero, P., “Standardising accessibility: Transferring knowledge to society,” <i>Journal of Audiovisual Translation</i>, 1(1), 139-154. 2018.</li> <li>2) Matamala, A., Orero, P., Rovira-Esteva, S., Casas-Tost, H., Morales, L.F., Soler-Vilageliu, O., Agulló, B., Fidyka, A., Segura, D. and Tor-Carroggio, I., “User-centric approaches in access services evaluation: profiling the end user,” <i>Language Resources and Evaluation Conference (LREC)</i>, Miyazaki (Japan), 7-12 May 2018.</li> <li>3) Orero, P. and Tor-Carroggio, I. “User Requirements When Designing Learning e-Content: Interaction for All,” In E. Kapros y M. Koutsombogera (Eds.) <i>Designing for the User Experience in Learning Systems</i>, pp. 105-122, Cham: Springer Nature. 2018.</li> </ul>  |
| <b>Clustering with projects</b><br><b>(Project name/website/Clustering activities):</b> | <ul style="list-style-type: none"> <li>1) Immersive Accessibility (ImAc)</li> <li>2) Personalised Content Creation for the Deaf Community in a Connected Digital Single Market (Content4All)</li> <li>3) Understanding Media Accessibility Quality (UMAQ)</li> </ul>   |
| <b>Other</b>  |  |

| Partner Name:  | CCMA   |
|--|--|
| Meetings/events with EU accessibility bodies<br>(Date, Place, Description) | <ol style="list-style-type: none"> <li>1) EBU Accessibility Services Experts Meeting (November 9th, 2018, Geneva, Switzerland)</li> <li>2) ASBU EBU Week of Technology (October 10th, 2018, Tunis, Tunisia)</li> </ol>   |
| Organisation of events<br>(Date, Place, Description)                       | <ol style="list-style-type: none"> <li>1) Colombia Digital TV sessions (May 10th, 2018, Barcelona, Spain)</li> </ol>   |
| Participation in events<br>(Date, Place, Description)                      | <ol style="list-style-type: none"> <li>1) 7th HbbTV Symposium and Awards (November 14th-15th, 2018, Berlin, Germany)</li> <li>2) ITU Intersector Rapporteur Group on Audiovisual Media Accessibility – 13th meeting (October 16th, 2018, Geneva, Switzerland)</li> <li>3) IRT Subtech 1 – Symposium on Subtitling Technology (May 24th-25th, 2018, Munich, Germany)</li> <li>4) ITU Intersector Rapporteur Group on Audiovisual Media Accessibility – 12th meeting (April 17th, 2018, Geneva, Switzerland)</li> <li>5) TV Innovation Forum Arqiva (March 6th, 2018, London, UK)</li> <li>6) Jornades ACAPPS 17 (November 4th, 2017, Barcelona, Spain)</li> </ol> |
| Publications   |  |
| Clustering with projects<br>(Project name/website/Clustering activities):  |  |
| Other  |  |

| Partner Name:  | ARX.NET   |
|--|---|
| Meetings/events with EU accessibility bodies<br>(Date, Place, Description) |   |
| Organisation of events<br>(Date, Place, Description)                       |   |
| Participation in events  | <ol style="list-style-type: none"> <li>1) H2020 Media Projects Workshop (October 17th, 2017,</li> </ol> |



|  |               |                    |
|--|---------------|--------------------|
| <b>(Date, Description)</b>                           | <b>Place,</b> | Brussels, Belgium) |
| <b>Publications</b>                                  |               |                    |
| <b>Clustering with projects</b>                      |               |                    |
| <b>(Project name/website/Clustering activities):</b> |               |                    |
| <b>Other</b>   |               |                    |

|  |   |
|--|---|
| <b>Partner Name:</b>                                 | <b>Fundación CNSE (FCNSE)</b>   |
| <b>Meetings/events with EU accessibility bodies</b>  |   |
| <b>(Date, Description)</b>                           | <b>Place,</b>   |
| <b>Organisation of events</b>                        | 1) Focus group about future trends in accessibility (January 17th, 2018, Madrid, Spain) |
| <b>(Date, Description)</b>                           | <b>Place,</b>   |
| <b>Participation in events</b>                       |   |
| <b>(Date, Description)</b>                           | <b>Place,</b>   |
| <b>Publications</b>                                  |   |
| <b>Clustering with projects</b>                      |   |
| <b>(Project name/website/Clustering activities):</b> |   |
| <b>Other</b>   |   |

|   |               |
|---|---------------|
| <b>Partner Name:</b>                                | <b>UICI</b>   |
| <b>Meetings/events with EU accessibility bodies</b> |               |
| <b>(Date, Description)</b>                          | <b>Place,</b> |
| <b>Organisation of events</b>                       |               |
| <b>(Date, Description)</b>                          | <b>Place,</b> |
| <b>Participation in events</b>                      |               |
| <b>(Date, Description)</b>                          | <b>Place,</b> |

|   |  |
|---|--|
| Description)  |  |
| Publications  |  |
| Clustering with projects<br>(Project<br>name/website/Clustering<br>activities): |  |
| Other   |  |