

# D5.6 – Dissemination report

A RECEILING IBLE
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Project acronym	l'CityForAll			
Project name Strategic objective: Project Duration:	Age Sensitive ICT Systems for Intelligible City For All Socio-acusis ICT solutions for a better social well- being of Ederly People July, 1st 2012 – Dec, 31th 2015 (42 months)			
Co-ordinator:	CEA: Commissariat à l'Energie Atomique et au	x		
	Energies Alternatives			
Partners: UPD: Université Paris Descartes				
	ENEA: Agenzia Nazionale per le Nuove tecnologie, l'EnergiA e lo sviluppo economico sostenibile D5.6 TUM: Technische Universität München			
	CRF: Centro Ricerche FIAT	Version:	1.00	
	CENTICH: Centre d'Expertise National de Technologies de l'Information et de l	a Delivery Date:	31-12-2015	
	Communication pour l'autonomie	Due date:	31-12-2015	
	Active Audio	Task:	5.1	
		Leader: CEA		
		Dissemination status	s: PU	

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D5.6	Executive Summary	
This document reports the performed dissemination activities of the I'CityForAll project. The		
main objective being to raise awareness towards any potentially interested parties and to ensure		
that the final outcomes of the project are communicated in the most persuasive way. The three		
main dissemination activities are scientific publications, public conferences participation and in		
terms of results: one patent concerning the main technological achievement of the project. The		
dissemination report ends by a description of the updated marketing materials including the		
project website that are to be shared with the	ne different partners.	

Dissemination Level of this deliverable (Source: l'CityForAll Technical Annex p20 & 22)PUPublic

**Nature of this deliverable (***Source: I'CityForAll Technical Annex p20 & 22***)** 

R	Report and marketing materials :1 full project presentation and flyer/product and
	and flyer/project

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1	Prepared	CEA_LinkLab/Dridi	15-12-2015
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## **1.Introduction**

#### 1.2 I'City for All-overview and expected impact

The project l'CityForAll (Age Sensitive ICT Systems for Intelligible City For All) aims at enhancing the sense of safety and self-confidence of presbycusic people, whose hearing degradation increases with age.

Two situations are considered: mobility in public confined spaces and mobility in urban space. For public confined spaces, the ICT solutions consist in intelligent loudspeakers for better intelligibility of vocal messages.

For urban mobility, I'CityForAll partners will develop a system embedded in vehicles for better localization of alarm sounds (e.g. ambulances, police cars, fire trucks, etc.) and studied an appropriate enhancement of car signal alarms (e.g. safety belt warning, lane change warning), as the hearing degradation alters not only perception of distance and direction of sound sources but also and diminishes gradually the sound volume and frequency perception.

These systems will be "transparent" and embedded in mass products for the large public. We target the design of embedded solutions in mass products at reasonable cost for people with pseudo-normal and presbycusic hearing without impacting normal hearing people (concept "for All").

The 4 main steps of ICityForAll project are described below and illustrated by figure 1.

Hereafter, we start by describing the groups targeted by our dissemination strategy. Chapter 3 gives the different dissemination channels used to target these groups are specified. Chapter 4 presents the website dedicated to the project. Chapter 5 gives an overall assessment of the dissemination channels impact either by commonly used metrics (impact factor, classification...) or by quantifying the reached audience. Finally, chapter 6 presents the updated marketing materials.

Survey on users' requirements	<ul> <li>In France CENTICH</li> <li>In <u>Italy ESCOOP</u></li> <li>With the collaboration of EPFL, CRF and Active Audio</li> </ul>
Algorithms	<ul> <li>Audio compensation in Public space/car: LinkLab</li> <li>Alarm detection localization : ENEA, TUM, UPD, LinkLab</li> <li>Intelligibility criteria : UPD, LinkLab, EPFL</li> </ul>
Integration	•Car : <b>CEA, CRF</b> •Public <u>space</u> : Active Audio
Assessment in Lab / in Vivo	<ul> <li>In France : CENTICH, CEA, Active Audio</li> <li>In <u>Italy</u> : ESCOOP, CRF</li> </ul>

Figure 1. I'CityForAll main steps

## 2. Target groups

#### End-user groups and associations

this target group refers mainly to end users who will find in the solutions developed by the l'CityForAll - opportunities for new approaches and for new, more effective ways of performing their tasks. The dissemination activities targeting this group is being achieved by the two end-users organizations partnering with l'CityForAll project: CENTICH (France) and ESCOOP (Italy).

#### - Industry sector,

including large enterprises and SMEs, operating in various areas where the introduction of new solutions for hearing impaired community could represent an important differentiating element and a significant added value; The addressed players will include manufacturers and vendors of both hardware and software solutions, service providers, *etc.* The dissemination activities targeting this group are being achieved by Active AUDIO (FRANCE) and CRF (ITALY).

#### - The scientific community

*i.e.* research and academic organizations, scientific journals, committees, Internet forum and other working groups operating in fields similar or related to the technologies developed by I'CityForAll. The dissemination activities targeting this group are being achieved by EPFL (SUISSE), ENEA (ITALY), TUM (GERMANY) and CEA (France).

#### -General public / opinion makers

the dissemination activities addressed to them will have the objective of generating awareness of and interest in the new applications which will be made possible through the use of an innovative approach in interacting with the computing and telecommunication devices. The dissemination activities targeting this group are being achieved by mixed end-users organizations.

- **Other relevant Projects funded** or planned to be funded by the EU as well as other EU sponsored activities, this group is targeted through AAL meetings and forums.

#### - The Consortium staff itself.

## **3. Dissemination channels**

#### **3.1 Scientific papers and conferences**

In the course of research dedicated to I'CityForAll, the following results were published and presented in specialized conferences.

- [CEA1], C. Megard, V. Le Guelvouit, S. Strachan, C. Mercier, C.Bolzmacher "Directional identification of sirens and warnings in a simulated driving task: Comparison of two loudspeaker technologies", 7th International Conference on Applied Human Factors and Ergonomics 2016, Florida, USA, July 27-31, 2016,
- [CEA2], Y. MZAH, S. Maarfi, R. Ghozzi, M. Jaidane"Non-monotonic impact of occupancy level on reverberation indicators: case of a public confined eating establishment", AES 60th International Conference, Leuven, Belgium, *February 2016*.
- [CEA3], C. Bolzmacher, V. Le Guelvouit "Transforming car glass into microphones using piezoelectric transducers", Microsystem Technologies, Springer, *December 2015*.
- [CEA4], A. Ben Jemaa, N. Mechergui, G. Courtois, A. Mudry, S. Jaziri-Larbi, M. Turki, H. Lissek, M. Jaidane "Intelligibility Enhancement of Vocal Announcements for Public Address Systems: A design For All through a Presbycusis Pre-compensation Filter", Interspeech, Dresden, Germany, September 2015.
- [CEA5], C. Bolzmacher, V. Le Guelvouit\, "Car glass microphones using piezoelectric transducers for external alarm detection and localization", 7th Smart Sensors, Actuators, and MEMS conference at the SPIE Microtechnologies Symposium, Barcelona, Spain, May 2015.
- [ENEA1], M. Paoloni, A. Zanela, "Supporting Presbycusic Drivers in Detection and Localization of Emergency Vehicles: Alarm Sound Signal Processing Algorithms", Proceedings of the Conference-Workshop Bio-inspired Robotics, Frascati, May 2014.
- [UPD1], T. Bouchara, G. Mahe "Evaluation de la saillance d'annonces vocales par un paradigme de double-tâche", Congrès Français d'Acoustique, Poitiers, France, April 2014.
- [TUM1], C. Hage, T. Habigt, M. Kleinsteuber "Sparse DOA Estimation of Wideband Sound Sources Using Circular Harmonics", Online <u>http://arxiv.org/abs/1403.1501v1</u>, March 2014.
- [ENEA2], A. Zanela, "Il progetto l'CityForAll: Age Sensitive ICT Systems for Intelligible City For All ", CUP 2014, Rome Italy *March 2014*.
- [CEA-LinkLab], N. Mechergui, N. El Haouij, Y. Mzah, A. Ben Jemaa, M. Jaidane, S. Larbi, S. Ghalila, D. Malouche, K. Lecoz, Y. Belouard, M. Turki, R. Ghozi, C. Mercier, J. Hajjam, S. Erve, A. Brescia, "AAL: Intelligible City for All Evaluation of Ecological Intelligibility Test for Normal Hearing and Hearing Impaired", 6th Workshop on Speech in Noise: Intelligibility and Quality (SPIN) Marseille, France, January 2014. (http://www.icityforall.eu/publications/poster spin modif.pdf

Hereafter, we present a table that evaluate the impact of the scientific production by giving the different key metrics that assess the dissemination channels quality.

#### Table 1

Dissemination channel	Impact factor/conference ranking/affiliation/number of attendees
[CEA1]	A
[CEA2]	0.875
[CEA3]	A
[CEA4]	A
[ENEA1]	ENEA
[UPD1]	French Society of Acoustics
[TUM1]	Free access
[ENEA2]	Nearly 250 participants
[CEA-LINKLAB]	Nearly 400 participants

#### **3.2 AAL Events**

- [CEA-LinkLab, CENTICH], K. Le Coz, "Audio and Elderly Mobility needs in the City: survey on Speech Intelligibility and Sound Alarm Localization", AAL Forum, September 2013. (http://www.icityforall.eu/publications/poster\_aal\_stockholmlinklabv3.pdf).
- [CEA-LinkLab], S.Sevestre-Ghalila, M.Jaidane "demonstration of the l'CityForAll products through the use of loudspeakers", AAL workshop, *Raising the awareness of AAL JP activities* and AAL JP projects among European regions, Brussels, November 2013.

#### Table 2

Hosting Event	Number of participants
[CEA-LinkLab, CENTICH]	Nearly 800
[CEA-LinkLab]	Nearly 250 participants

#### **3.3 Project presentations**

- [CENTICH], J.Hajjam, "« IcityForAll » Les TIC pour une meilleure audition dans la cité pour tous ", La semaine du son, January 2015. (Event organized by CENTICH)
- [EPFL], H. Lissek, "Age Sensitive ICT Systems for Intelligible City For All: l'CityForAll", Swiss Society of Acoustics meeting, Lausanne, May 2014. (http://www.icityforall.eu/publications/140515\_ssa\_herbsttagung\_icityforall\_presentation\_hliss ek.pdf)
- [TUM], C. Hage, "Detecting, Localizing, and Tracking Alarm Signals in Traffic using a Microphone Array", Swiss Society of Acoustics meeting, Lausanne, May 2014.
- [UPD], G. Mahe, "Age Sensitive ICT Systems for Intelligible City For All: l'CityForAll", VITE'14: Vivre et se mouvoir dans la ville grâce aux nouvelles technologies, Paris, France, 5 *February* 2014. (<u>http://www.icityforall.eu/publications/vite14-2.pdfhttps://www-icityforall.cea.fr/lib/exe/fetch.php?media=vite14-2.pdf</u>) (event co-organized by CENTICH)
- [CRF], E. Bianco, "Age Sensitive ICT Systems for Intelligible City For All: l'CityForAll", Meeting on interior comfort and accessibility, CRF-Torino, December 2013. (http://www.icityforall.eu/publications/icityforall\_workshop\_high\_comfort\_usability\_20131213.p df)

#### Table 3

Hosting Event	Number of participants
[CRF]	Nearly 800
[UPD]	85 participants
[EPFL]	
[TUM]	Between 200-450
[CENTICH]	300-400 participants

#### **3.4 Brochure**

IcityForAll produced its own brochure that was distributed in the following events

- AAL Kongress, Berlin, January 2013.
- AAL Info day, Brussels, February 2013.
- AAL network dinner, Munich, 2013



I'CityForAll brochure

#### 3.5 Patent

As a direct outcome of l'City For all project, a patent titled "Procédé et système de réhaussement d'un signal audio" was submitted on august 2015 to the INPI date base under the references V/Réf: BD16536 - N/Réf: 069994 FR PHA/MGU.





Code de la propriété intellectuelle - Livre VI

DÉSIGNATION D'INVENTEUR(S)



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 Vos références pour ce dossier
 69994 FR PHA

 N° D'ENREGISTREMENT NATIONAL
 Intre de l'Invention

 Titre de l'Invention
 PROCEde et systeme de rehaussement d'un signal audio

 Le(s) DEMANDEUR(s)
 COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

 DÉSIGNE(NT) EN TANT QU'INVENTEUR(s)
 Désigne(nt) en tant

Patent

## **3.5 Other forms of dissemination**

#### Cerignola Festival

The I'CityForAll project was presented during the "New economies and new jobs festival" (*Festival delle Nuove economie e dei nuovi lavori*) in Cerignola, Italy from the 18<sup>th</sup> to the 20<sup>th</sup> of December 2015. The project was presented by Mr. Paolo Tanese, ESCOOP chairman during a talk. The poster presented during this festival was used at many other occasions by the project partners such as in in-vivo field trials of the project in Italy



I'CityForAll participation to Cerignola festival

#### AAL forum September 2015 in Ghent, Belgium

From September 22nd to 24th, more than 600 experts, researchers and entrepreneurs from all over Europe gathered in Ghent to discuss and showcase innovative ICT solutions for a healthier, happier and more independent lifestyle for older adults. The AAL Programme, IWT and iMinds hosted this year's successful and largely-attended edition of the annual AAL Forum, whose main focus was interactivity.

The program featured interactive sessions covering the central themes of education and training, the roll-out of solutions and trialing, connecting supply and demand, meeting the needs and hopes of older people, interoperability and the future of AAL.

Demonstrations of AAL solutions were another key part of the event, with projects and industry members able to showcase and test their products before a receptive audience of older people, who were asked to evaluate and rate them.

The I'City For All project was invited to participate to the session on "**Co-creation of markets for AAL-solutions**". Apart from a brief, 5-minute introduction, the I'City For All representative was given the opportunity to present the audience with questions, ideas, statements we were facing in the commercialization and upscaling of our AAL solution. The answers of the audience (who get to vote on ourr statements) were highly valuable to further the market entry of our AAL-solution.



I'city For All presentation during AAL forum

#### Media coverage

The l'CityForAll project was cited in the quarterly publication of the « Association de Réadaptation et Défense des Devenus-Sourds (ARDDS) which is an association working to improve the rehabilitation and protection of persons with hearing problems on its April 2015 issue.



## 4. The project website *www.icityforall.eu*

Internet represents an important tool in terms of information dissemination to a wide audience in a fast and accessible manner. The website represents an immediate and easy-to-access entry point which is open to all relevant stakeholders, and thus able to create awareness and interest about the project by making the most important information publicly available in a concise but exhaustive manner. The project website was updated recently with a better design and a more user-friendly interface. The products brochures as well as the project results were included with a detailed description.



l'CityForAll website

## 5. Quantification of dissemination activities:

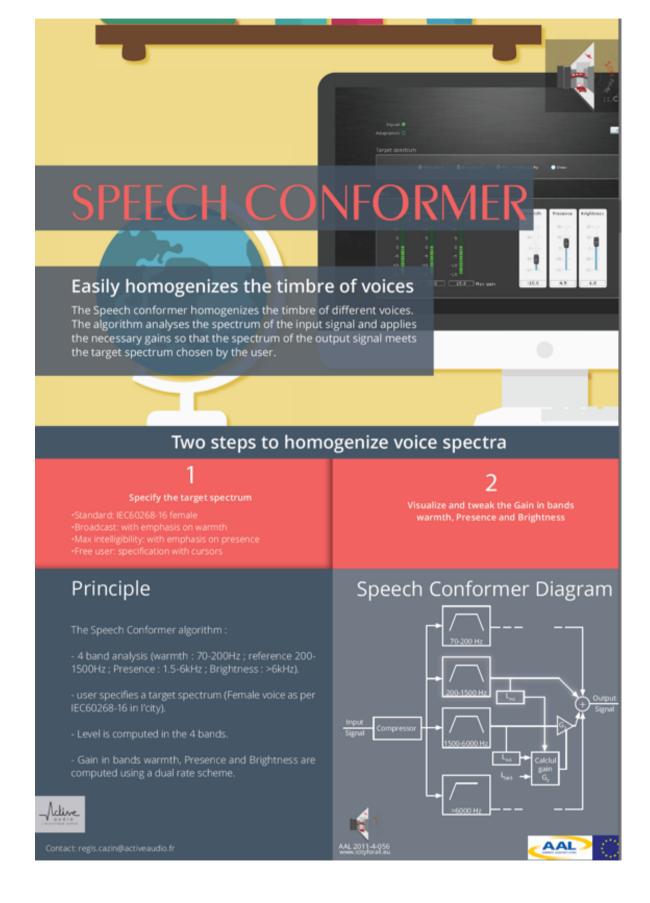
DISSEMINATION ACTIVITY	IMPACT INDICATOR
Publications and conferences	Table 1
Posters	Table 2
Presentations	Table 3
Patent	200.000 visitors of INPI website can potentially be impacted
Cerignola Festival	150 attendees
Media coverage	6 millions potential readers ©
AAL Forum, Ghent Belgium	1000 participants

## 6. Updated marketing material:

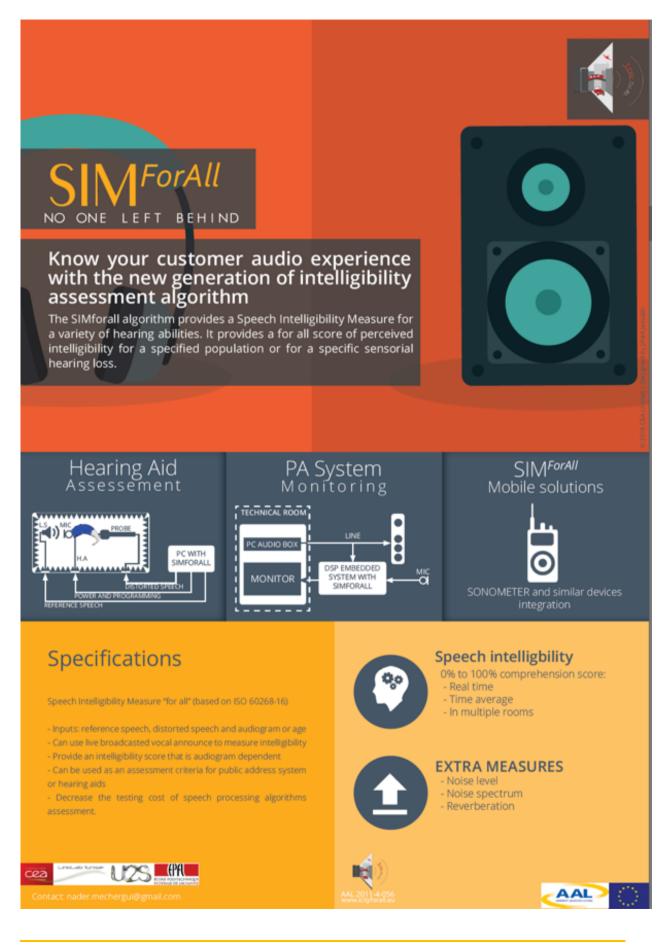
So far numerous marketing materials has been updated as part of the dissemination activities of the work package WP6. As a matter of fact, four brochures has been prepared for every product of the I'CityForAll project, *namely PerceiveAll, SIMForAll, AlarmSniffer* and *Speechconformer*. Moreover, project website has been updated into a more aesthetic and user-friendly version. Finally, a twenty-slides presentation exposing the I'CityForAll project In all of its details was prepared as well as a two-slides presentation summing up the project in a concise way. These are planned to be sent to each of the project partners. (See appendix fir marketing materials)

## Appendix

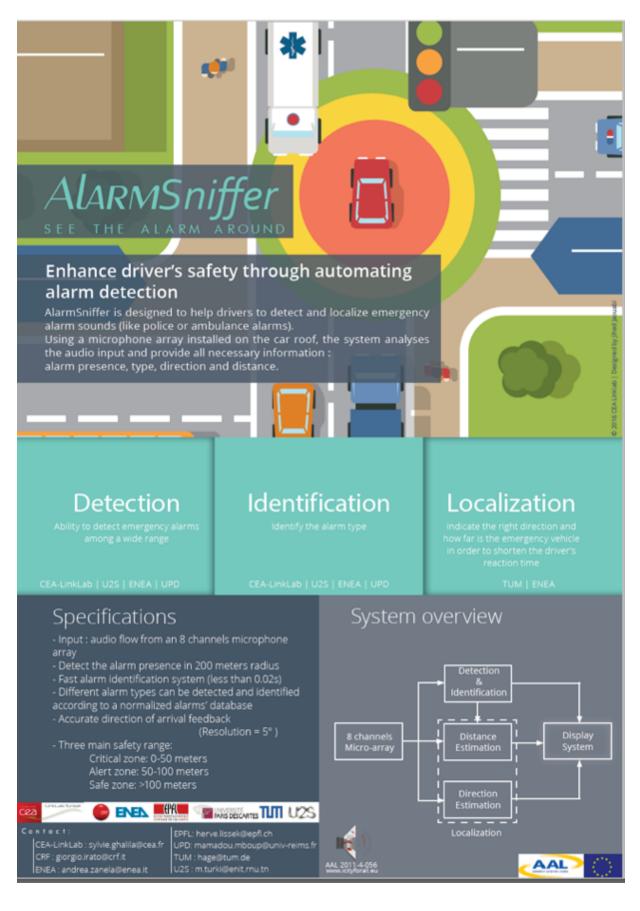
## SpeechConformer Product



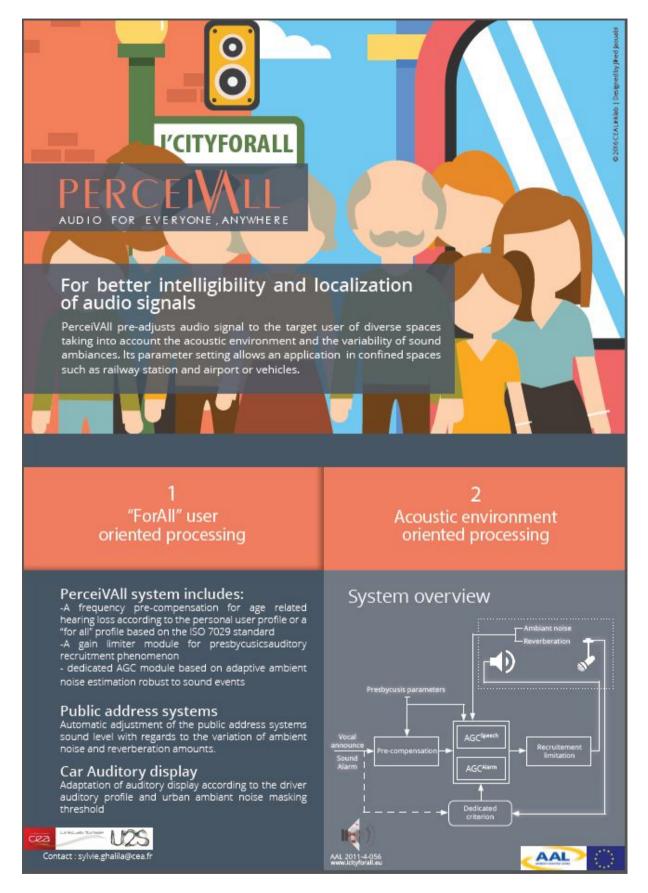
## SIM<sup>ForAll</sup> Product



#### **AlarmSniffer Product**



#### **PerceivAll Product**



## l'CityForAll Overall review

