

# **D5.4** Communication and Dissemination report

31/04/2018



3D-games for TUNing and lEarnINg about hearing aids



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# **Abbreviations and Acronyms**

3DTI	3D Tune-In
KPI	Key Performance Indicator
ВАНА	Bone Anchored Hearing Aid
BTE	Behind The Ear
CIC	Completely In Canal
DMU	De Montfort University
D&C Team	Dissemination and Communication Team
EU	European Union
GN	GN Hearing
ICL	Imperial College London
NLK	Nerlaska, S.L.
Reactify	Reactify Music
SME	Small and Medium Enterprise
UMA	University of Malaga
UNott	The University of Nottingham
VIA	Vianet
WP	Work Package
XTeam	XTeam Software Solution



# **Executive Summary**

This is the public deliverable D5.4 of the H2020 project 3D Tune-In (3DTI - 644051). This work was carried out as part of WP5 Communication and Dissemination. This document presents the communication and dissemination results of 3D Tune-In up to month 36. Following a brief introduction and background of this deliverable in Section 1, the overall strategy is defined in Section 2. In Section 3, the dissemination channels together with a detailed analysis of the results are presented. Section 4 concludes the deliverable.



## 1. Introduction and background

This is the public deliverable D5.4 of the H2020 project 3D Tune-In (3DTI - 644051). This work was carried out as part of WP5 Communication and Dissemination. The strategy for the communication and dissemination channels and target audiences for the 3D Tune-In outcomes was defined in deliverable D5.1 Communication and Dissemination strategy. The overall objectives followed by the Dissemination and Communication strategy are to:

- Define and implement an integrated **strategy** for dissemination and exploitation. It will capture the project outputs and detail how to communicate and exploit them within target audiences in the scientific, technology and industrial communities.
- Promote results and **benefits** of the project to target audiences.

  The key audiences will be defined as the project develops, but initial groups will be found within the games industry and hearing communities.
- Provide regular **information** about the project and its results to target audiences via the website, social media, relevant publications, conferences, fairs and exhibitions.
- Collaborate with international research and professional **networks**, and ongoing EU and national projects.

This document is structured as follows: Section 2 reiterates the overall strategy including an action plan for the different phases of the project and a summary of the overall progress up to month 36. Section 3 defines changes to the dissemination channels together with a detailed analysis of the results. Section 4 presents the dissemination activities of the partners to date and Section 5 concludes the deliverable.



## 2. Overall strategy and progress

The phases of the overall communication and dissemination strategy (as defined in D5.1) were as follows.

**Phase 1** - Initial outreach: This was the initial phase of the project (M1-M12). The consortium produced the first deliverables and presented the 3DTI Project to the various target groups. A good number of dissemination materials were created and distributed across several communication channels. These materials were mostly focus upon the overall orientation of the project.

**Phase 2** - Consolidation: Phase 2 (M12-M24) was focused on an effective content marketing strategy and the production of new videos, demo videos, posters, articles, etc., but ensuring the IPR protection of the Toolkit and Applications development. The content generation and duration became increasingly important for all partners.

**Phase 3** - 3DTI Applications presented to the public: Phase 3 (M24-M30) required additional efforts and a double marketing strategy: all partners would invest more individual effort and the whole consortium prepared and designed new materials and guidelines for joint exploitation and an effective communication of these results and outputs.

**Phase 4** - Final results (everything released and evaluation): In this phase (M30-M36), the consortium presented its final reflections and recommendations, based upon the validation stage conducted during the project.

Besides these planned activities, partners had the opportunity to communicate project results and progress by other dissemination activities. In these cases, partners communicated<sup>1</sup> to NLK and the Coordinator all envisaged dissemination activities.

### 2.1. Overall progress up to M36

KPIs (Key Performance Indicators) measured the performance in terms of Communication and Dissemination for evaluating the outcomes of the 3D Tune-In project. Table 1 below shows the most important KPIs assessed, comparing activities up to M36 with estimates.

Estimates (36 months)Results (M1-M36)Journal articles22Conference publications318

Table 1. KPIs: results and estimates.

<sup>&</sup>lt;sup>1</sup> The procedures for accepting and submitting Dissemination and Communication activities are detailed in D5.1.



Other publications/articles	0	3
Scientific seminars and demonstrations	3	8
EU-projects networked	3	5
MSc Thesis	3	0
PhD Dissertation	1	1 in progress (Ms C. María Cuevas, UMA)

Table 2 and Table 3 show the overall progress in terms of deliverables, tasks, and dissemination and communication activities undertaken by the partners.

Table 2. Relation of undertaken work with Tasks and Deliverables.

Deliverable and	Title	Deadline	Short description of work
Task number			
D5.1 /T5.1.	Definition of the communication and dissemination strategy.	M13 -May 2016	Delivered (M4) with minor updates under discussion (pp.11-12).
D5.2 / T5.2.	Project dissemination: website, posters, brochures, videos.	M13 -May 2016	Delivered.
D5.3 / T5.3.	Dissemination activities: articles, conferences, events.	M18 - October 2016	Continuous assessment and data collection on impact indicators, communication and dissemination measurements and stats and activity reporting.
D5.4 / T5.4	Dissemination activities: articles, conferences, events.	M36 -April 2018	Final deliverable.

Table 3. Summary of undertaken activities.

	M1-M36
All scientific articles	5
Conferences	26
Diss/Com materials <sup>2</sup>	25
Non-peer reviewed articles	7
Press releases	8
Workshop, fairs and trade events	39
Newsletters	7

-

<sup>&</sup>lt;sup>2</sup> Banner, leaflet, roll up, Dartanan release (roll up, cover and banner), 7 post cards, pens, tote bag, 7 videos and 2 press-kits are being considered as dissemination materials.



## 3. Dissemination channels

As planned in D5.1, a set of public materials have been produced for the partners to be able to disseminate the project results without the need for specific approval from the consortium. This material was approved and distributed among the partners.

#### 3.1. Website www.3d-tune-in.eu

The website was set up and has been online since July 2015. A Dissemination and Communication Team (D&C Team) was formed by ICL, NLK and VIA. Its main role was to agree and establish the main Quality Assurance procedures and to coordinate the online dissemination activity. As part of the website management, the D&C Team met often during these 36 months. The procedure for the coordination of the website content was consolidated with a monthly meeting where agenda topics, communication actions and campaigns related to the website were discussed. The main procedures agreed for website revisions were the following:

- NLK checked the website weekly. The website check included looking for bugs, issues and malfunctions, such as missing images, format errors and response time. If Energy House Digital (web designers) support was required, NLK communicated the issue directly to ICL.
- The website was updated and new content was added at least once per month. Specifically, one new activity was expected to be published each month, which included videos, new sub-pages, etc. Language checks were agreed on for ensuring the highest quality standards; NLK would carefully check and review each news item to be published. Then, it was sent to either ICL, VIA or UNOTT for a final language review before its publication. The procedure was to send it out for internal review at least seven days in advance of the release deadline.
- Also, an anticipatory contingency plan was put in place. NLK asked partners for brief articles/topics to feed future news sections. ICL was willing to provide, when requested by NLK, updates about new technical items which could be considered good news topics. One news/article was always kept non-published to ensure a regular flow of news on the website in case novel news items were not available in that specific period.
- Regarding the updates on Application pages, NLK sent an email to all SMEs asking
  for updates and changes concerning the games and applications on a bimonthly basis.
  The toolkit page was being updated on demand: any change was communicated to
  NLK by UMA. ICL also provided additional information about the toolkit and
  applications updates relevant for the website.



- In addition, NLK will report the Diss/Com activity in a public document; this also contained the detected bugs and the modifications.



Figure 1: Website homepage.

### 3.1.1. Updates and modifications

The following sections formed the original website before M4 (Aug, 2014):



- Home: www.3d-tune-in.eu
- About: http://www.3d-tune-in.eu/about
  - Objectives, approach and impact: http://www.3d-tune-in.eu/about/h2020objectives-approach
  - o Consortium: http://www.3d-tune-in.eu/about/consortium
- News (blog): http://www.3d-tune-in.eu/news
- Applications [UPDATED DURING Y1Q3]: http://www.3d-tune-in.eu/applications
  - Musiclarity: http://www.3d-tune-in.eu/applications/hearing-aid-musical-listening
  - o Play & Tune: http://www.3d-tune-in.eu/applications/elderly-hearing-aid
  - Dartanan: http://www.3d-tune-in.eu/applications/hearing-aid-children-gamification
  - O Darius Adventure: http://www.3d-tune-in.eu/applications/hearing-educational-games
  - o AudGam PRO: http://www.3d-tune-in.eu/hearing-aids-calibration-game
- Open Access Research Data: http://www.3d-tune-in.eu/open-access
- Resources: http://www.3d-tune-in.eu/downloads-resources
  - o Project materials: http://www.3d-tune-in.eu/h2020-3dtunein-materials
  - o Project Public Deliverables: http://www.3d-tune-in.eu/Deliverables
  - o Audio Demos: http://www.3d-tune-in.eu/audiodemos-hearing-aid-loss
  - o 3D Tune-In presentation (English, Spanish and Italian): http://www.3d-tune-in.eu/animation
  - O Questionnaire for hearing aid users: http://www.3d-tune-in.eu/node/85

Website modifications and updates from M4 (Aug, 2014) to M36 (April, 2018):

- Introductory Video and AudioDemos: during Y1-Q3, ICL and NLK invested relevant time and resources to record and create a video to explain how hearing aids could help people with hearing loss to improve their lives. In addition, three introductory videos, available in English, Italian, and Spanish, were designed, created and uploaded. This high-value dissemination content can be found in the *Resources > Audio demonstrations* (http://www.3d-tune-in.eu/node/67); also, the videos can be found at *Resources > 3D Tune-In presentation* (English, Spanish and Italian): http://www.3d-tune-in.eu/animation.
- A new page, called *Related EU Projects*, linked from the main header menu, was published at http://www.3d-tune-in.eu/gamification-eu-projects
- Public deliverables are continuously being updated on the *Resources > Project Public Deliverables* page: http://www.3d-tune-in.eu/Deliverables
- Applications pages were updated in January 2016, in accordance with the current Future Scenarios specified in the D1.1. (More information at http://www.3d-tune-in.eu/applications).

New pages were linked in the main menu, as sub-menu items below Applications, instead of the previous ones. The future applications and videogames to be developed by all SME partners were



explained on the website, including some screenshots, sketches and concept-game charts where it is needed. The Applications subpages were regularly updated as the project advances.

- Project materials were regularly uploaded to the website on *Resources* > *project materials*, at http://www.3d-tune-in.eu/h2020-3dtunein-materials
- Format issues, typos and bugs were checked weekly by NLK and the D&C Team in accordance with the procedures specified above.
- With regard to Google Analytics statistics, a spam filter was developed. Spam traffic could distort the statistics and the impact assessment on the website. Although *spam* emails did not affect the quality of the website's contents because comments and internal interaction is not currently allowed the filter facilitates the demographic and traffic analysis.
- Tookit page (<a href="http://www.3d-tune-in.eu/toolkit-developers">http://www.3d-tune-in.eu/toolkit-developers</a>) was updated in March 2018, to link to the final releases. Almost all the text was modified except the last paragraph (videos).

#### 3.1.2. News section and blog

The blog was regularly updated: some mechanisms were implemented to assure a regular flow of interesting content. From M4 to M36, 41 news articles were published on the website, hosted at http://www.3d-tune-in.eu/news. Also, two new subpages were published: one referring to the 3D Tune-In Toolkit, and another specifically dedicated to scientific dissemination, containing articles published in journals and conference papers.

#### 3.1.3. Results and Website Statistics

Understandably, summer was the most challenging season of all (lower access to the website). Moreover, the navigation patterns observed were erratic and did not follow any specific trend.

#### Traffic flow

The following charts (Figure 2 and Table 4) show the traffic flow to the website, expressed as the number of sessions every week. A session is a group of interactions that take place on the website within a given time frame. Globally, 20554 sessions were opened in the period analysed. Most of the sessions were from new users (92%) while only 8% were returning visitors. The average session duration was 1 minute.

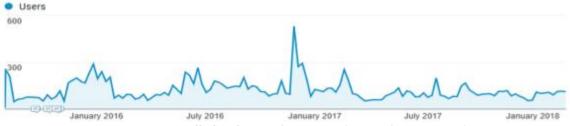


Figure 2. Traffic flow from M4 (August 2015) to M34 (February 2018)



Table 4. Sessions (M4-M36).

Week	Sessions	Week	Sessions	Week	Sessions	Week	Sessions
1	158	36	80	72	302	107	92
2	284	37	86	73	335	108	84
3	232	38	102	74	223	109	96
4	56	39	110	75	99	110	93
5	69	40	151	76	134	111	179
6	73	42	175	77	141	112	194
7	96	43	138	78	131	113	150
8	104	44	121	79	148	114	133
9	89	45	267	80	148	115	116
10	97	46	242	81	120	116	115
11	62	47	212	82	178	117	121
12	101	48	388	83	273	118	121
13	80	49	204	84	199	119	100
14	107	50	125	85	129	120	129
15	141	51	151	86	107	121	181
16	75	52	220	87	90	122	151
17	207	53	219	88	65	123	98
18	219	54	220	89	76	124	115
19	229	55	176	90	67	125	105
20	201	56	158	91	71	126	78
21	192	57	163	92	85	127	58
22	252	58	158	93	108	128	59
23	304	59	235	94	134	129	123
24	246	60	152	95	134	130	114
25	318	61	178	96	180	131	141
26	218	62	176	97	115	132	139
27	259	63	141	98	266	133	111
28	78	64	137	99	140	134	138
29	136	65	103	100	114	135	137
30	84	66	117	101	105	136	136
31	118	67	128	102	127	136	
32	113	68	224	103	105	137	
33	80	69	214	104	126	138	
34	107	70	197	105	227	139	
35	124	71	622	106	125	140	

### Most viewed contents

The most viewed content was the homepage, as expected. However, homepages commonly have a higher bounce rate than some other pages. Bounce rate represents the percentage of visitors who enter the site and then leave ("bounce") rather than continuing on to view other pages within the same site. The following table shows the bounce rate.



Table 5. Bounce rates.

	Title (Content)	Visits	Time (average)	Bounce rate
1	Welcome to 3D Tune-In	14546	0:02:08	70,09%
2	3DTI Toolkit   3D Tune-In	1668	0:04:07	57,01%
3	Home page	1486	0	100,00%
4	News   3D Tune-In	1249	0:00:53	15,77%
5	About the Project   3D Tune-In	705	0:02:20	43,83%
6	Objectives, Approach and Impact   3D Tune-In	676	0:02:24	40,24%
7	Musiclarity   3D Tune-In	629	0:01:59	36,09%
8	Consortium   3D Tune-In	606	0:01:47	40,48 %
9	Open Access Research Data   3D Tune-I	584	0:01:04	20,55 %
10	The potential of gamification to improve quality of life for elderly people	524	0:07:19	79,65 %

The bounce rate on pages related to content considered "interesting" was low, and the time spent reading and exploring each page was well defined. The pages and articles are brief and very specific, so the time spent was adequate for the contents to be viewed by the users. NLK invested relevant effort to improve the Search Engine Optimisation, as well as the Social Media activities. Table 6 shows the results of this strategy.

Table 6. Acquisition channels.

Channel	Sessions	New users	Pageviews/session
Organic Search (e.g., Google, Bing)	10.256	7581	1,67
Referral and social (e.g., Twitter, Facebook, LinkedIn)	6.138	4.240	2
Direct (e.g., from newsletters)	4.164	1.331	2,92

Social Media represent a very important channel for disseminating the project outcomes and news, but the *page-views per session* referring to organic searches (i.e. searches directly, from Google or from any other search engine) show an excellent performance. Users from organic searches viewed 1,7 pages per session. Direct traffic, mainly from newsletters, seems to have the highest *page-views/sessions* rate, because the targeted users appeared to be explicitly interested in the project and related topics.

#### Demographic information

Table 7 shows the most relevant demographic information as provided by Google Analytics.

Table 7. Demographic information.

Age range	
18 -24	22,54%



25-34	33,36%			
35-44	29,92%			
45-54	8,48%			
55-64	3,67%			
>65	1,99%			
Sex				
Female	27,14%			
Male	72,86%			

#### 3.1.4. Ethics

The following ethics issues must be taken into account when publishing photos (taken during an event, conference or fair) on the website and/or Social Media channels.

- When an underage individual is photographed, and the picture is published on the
  website or Social Media channels, her/his face must always be blurred, with no
  exceptions.
- Adult individuals who are not directly involved in the project have the right to control
  the use of their name and image, if these are in the dissemination materials. As a
  consequence, a written authorisation is always needed, especially when the individual
  could be classified as part of a vulnerable group. Otherwise, their faces must be
  blurred.
- With regards to people directly involved in the project, if an individual does not desire
  to appear in photos which could be published, he/she must warn the WP5 leader and
  the Coordinator.

### 3.2. Project materials

A set of leaflets and other dissemination materials were produced and updated according to the project outcomes. The whole set of project materials can be found in the *Resources* page, at http://www.3d-tune-in.eu/downloads-resources.

#### *3.2.1. Videos*

Due to the "content marketing-like" strategy, the website includes presentation videos, and multimedia material showing the main achievements of the project. These videos are continuously disseminated in our YouTube channel, as well as the social networks.





Figure 3. Introductory video to the 3DTI project - https://www.youtube.com/watch?v=dtzhiA5Xnvs (hosted on YouTube).



Figure~4.~Reasons~for~using~hearing~aids~-~http://www.3d-tune-in.eu/audiodemos-hearing-aid-loss~(hosted~on~YouTube).



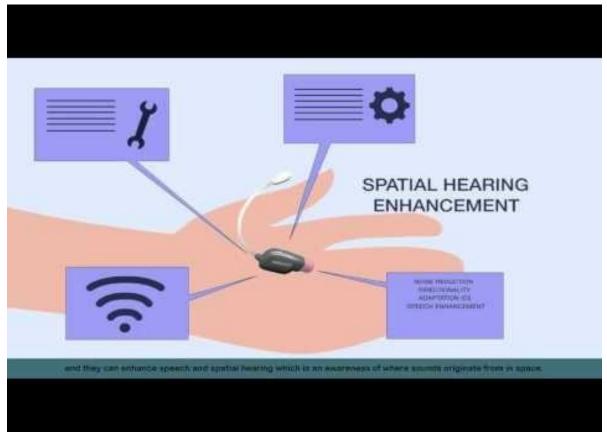


Figure 5. Animation (Spanish, English and Italian) - http://www.3d-tune-in.eu/animation (hosted on YouTube).



 $\textit{Figure 6. Introduction video - https://www.youtube.com/watch?v=g\_\textit{FsF28bsmw (hosted on YouTube)}.}$ 

### 3.2.2 Branding

The project has a corporate image to keep a uniform look and feel in all dissemination material. This includes the 3D Tune-In logo, presentation templates, document templates, etc. All outlets make use of the same, professionally designed branding style, ensuring a uniform and professional appearance of the project's dissemination materials.





Figure 7. 3D Tune-in logo version 1 and 2.

Two project logos were created, as shown in Figure 6. Partners were advised to use the one on the left, and the one on the right only if it needs to be used on a dark background. During the third quarter of 2015, the Dissemination and Communication leader established a uniform guide of style for these outlets and a quality assurance procedure. The main background colour should be white with basic corporative blue colours as shown in Figure 8.



Figure 8. Basic colours.

Some other colours were also allowed as shown in Figure 9.



Figure 9. Other colours.

All materials produced within the project have to use of Arial typographies or Sans Serif, if Arial was not available.



## 3.2.3. Posters, Banner and Roll-ups

During these months, 9 printable dissemination materials were produced, all of them available on the website. See table 8 for the list of materials and a link to the materials. See figures 10 - 12 for the 3DTI leaflet, banner and roll-up.

Table 8. Project Materials and link to public repositories.

Project material	Link
Leaflet	http://3d-tune-in.eu/sites/default/files/leaflet-definitive.pdf
Banner	http://www.3d-tune-in.eu/sites/default/files/articles/banner_desk-definitive.pdf
Roll-up	http://www.3d-tune-in.eu/sites/default/files/articles/roll-up-definitive%20%281%29.pdf
Press kit: academia	http://3d-tune-in.eu/sites/default/files/filedepot/3D%20Tune-In%20%283D%20games%20for%20TUNing%20and%20IEarnINg%20about%20hear ing%20aids%29_academiav4.pdf
Press kit: general society	http://www.3d-tune-in.eu/sites/default/files/articles/General- %20presskit%20leaflet.pdf
Press kit: general society - Spanish version	http://www.3d-tune-in.eu/sites/default/files/articles/General%20%28Espa%C3%B1ol%29%20-%203D%20Tune-In%20%283D%20games%20for%20TUNing%20and%20lEarnINg%20about%20hearing%20aids%29.pdf
Press kit: general society – Italian version	http://3d-tune-in.eu/sites/default/files/filedepot/General%20%28Italiano%29%20- %203D%20Tune- In%20%283D%20games%20for%20TUNing%20and%20IEarnINg%20about%20hear ing%20aids%29%20v2.pdf
Dartanan Banner	http://www.3d-tune-in.eu/sites/default/files/articles/Dartatano%20Banner.pdf
Dartanan Cover	http://www.3d-tune-in.eu/sites/default/files/articles/Dartatano%20flyer-cover.pdf
Dartatan oll-up	http://www.3d-tune-in.eu/sites/default/files/articles/Dartanano%20roll-up.pdf





Figure 10. . Press kits. Left: for academia, right: for general society.



Figure 11. Top left : Leaflet. Top right: Large banner. Bottom: Roll-up banner.









Figure 12. Dartanan application (XTEAM) materials.



#### 3.2.4. Post cards

A total of 7 post cards were created for the project, the toolkit and the applications:





Figure 13. 3D Tune-in postcard front and back.







Figure 14. 3D Tune-in Toolkit post card front and back.







Figure 15. AudGamPRO post card front and back.







Figure 16. Darius' Adventure post card front and back.







Figure 17. Dartanan post card front and back.







Figure 18. Musiclarity post card front and back.







Figure 19. Play & Tune post card front and back.



### 3.2.5. Other promotional material

Other promotional materials included pens, notes, lanyards and a tote bag.





Figure 20. Pens and the tote bag.

#### 3.3. Newsletters

A newsletter was produced every three months, collecting information such as achieved milestones, achieved results and events of special interest. The consortium has sent 7 newsletters: the first one – the introductory newsletter – was aimed at presenting the project to its target audience. The subsequent newsletters had the objective to widely disseminate the most important news.

Newsletter ID/Date (MM/DD/YYYY)	Recipients	Open rate	Click rate	Open	Click	Bounce	Unsubscribed
Introductory Email 3/4/2016	59	30,4%	3.6%	17	2	3	1
Newsletter #1 3/22/2016	97	33,7%	5,4%	31	5	5	0
Newsletter #2 2/11/2016	96	37%	6,5%	34	6	4	0
3DTune In. Ayudanos a conocerte! 7/20/2016	25	36%	0	9	0	0	0



Newsletter #3 9/21/2016	96	33,7%	4,3%	31	4	4	1	
Newsletter #4 12/22/2016	96	38%	4,3%	35	4	4	0	
Newsletter #5 27/6/2017	119	39,4%	7,3%	43	8	10	0	
Newsletter #6 10/5/2017	116	36,7%	3,7%	40	4	7	0	
Newsletter #7 12/26/2017	115	29,4%	5,5%	32	6	6	1	
Latest News 3/27/2018	113	24,5%	3,7%	26	3	7	0	

Table 9. Newsletters.

## 3.4. Press releases and non-peer reviewed articles

Public documents were released as a means of providing regular updates to the wider public about the current status and position of the project. From M1 to M36, 15 press releases and non-peer reviewed articles were published.

Table 10. Press releases and non-peer reviewed articles.

Туре	Content	Date and place	Targets	URL
Non-peer reviewed article	CORDIS WIRE	26/06/2015	Research	http://cordis.europa.eu/news/rcn/1250 17_en.html
Press Release	Audiology World News	07/08/2015	Audiologists	http://www.audiology- worldnews.com/profession/1406-3d- tune-in-facilitating-hearing-aid-use- through-gaming
Press Release	La Voce di Rovigo	28/09/2015	General public	Printed
Non-peer reviewed article	IneveryCrea article	19/10/2015 (Website, Spain)	Educational community	http://ineverycrea.net/comunidad/ineverycrea/recurso/3d-tunein-deficits-auditivos-en-el-aula/388c0e5e-ced8-4010-8b05-51a69e8dfc02
Press release	Euro VR translated in Italian	20/11/2015	Audiologists	Printed
Non-peer reviewed article	Mercury (website)	15/11/2016	Audiologists	http://www.mercurydiagnostics.it/
Non-peer reviewed publication	Escuela20 (website)	12/11/2015	Educational community	http://www.escuela20.com/gamificaci on-educacion-edtech/articulos-y- actualidad/para-que-sirve-la- gamificacion-en-el-mundo- real_3969_42_5579_0_1_in.html
Non-peer reviewed	European Digital Agenda: mention	02/12/2015	Industry players	http://ec.europa.eu/digital- agenda/en/news/european-



article				commission-supports-research-and- innovation-technologies-break-down- barriers-people
Press Release	Audiology Infos: "Usage Gli Apparecchi Acustici"	03/03/2016	Audiologists	Printed
Non-peer reviewed article	Tecniche di gamification e sistemi di intelligenza artificiale applicati alle protesi acustiche	04/03/2016	Industry players	http://www.triwu.it/3dtunein/
Non-peer reviewed article	Kveloce article	05/05/2017	End-users, audiologists, research	http://kveloce.com/desayuno- gamificacion-h2020/
Press Release	Video by Florida Universitaria	18/05/2017 - Valencia (Spain)	General public, end- users, developers	https://twitter.com/floridareplay/status/865174593572659201?s=09
Press Release	I videogiochi al servizio dell'udito. Newsletter: NuovaFe	06/2017. Italy	General Society	N/A
Press Release	NHS England's Healthcare Science Awards.	26/03/2018 London	Healthcare and general public	https://www.imperial.ac.uk/news/185 487/apps-that-help-users-tune- hearing/
Press Release	Demonstration of AudGam Pro	29/03/2018 Italy	Italian mainstream audience	https://www.raiplay.it/video/2018/03/ Tutta-Salute-0f31df6c-f1ef-4cca- ae51-70f3e6b40ea1.html

### 3.5. Academic Dissemination

Scientific dissemination is supported by publications in peer reviewed journals and scientific conferences. So far, partners have been involved in 8 scientific dissemination activities including seminars and demonstrations. Table 11 summarises the dissemination event or activity and its location and date.

Table 11. Seminars and Demonstrations.

Event	Date and place
3D Tune-In Toolkit workshop at the EuroVR conference	12 - 14 December 2017; Laval, France



3D Tune-In Toolkit demonstration at the ASC'17, 3rd International Congress of	23 - 24 November 2017;
Art, Science and City	Malaga, Spain
An open-source C++ library for audio spatialization and simulation of hearing loss	7 - 10 September, 2017;
and hearing aids - the 3D Tune-In Toolkit. Workshop at the 4th International	Graz, Austria.
Conference on Spatial Audio.	
3D-game for TUNing hEarINg aids (3D Tune-In): Connecting Hearing Aid	16 March, 2016;
Stakeholders with Digital Game Designers	Nottingham, UK
Seminar titled "Applications with Binaural Audio" (Institute of Sound and Vibration	16 February, 2016;
Research (ISVR) at the University of Southampton)	Southampton, UK
Imperial MedTech Links event: Wearables, Behaviour and Data - Presentation titled	23 March, 2016;
"Using Virtual Reality (VR) to improve hearing aid effectiveness", and demo of the	London, UK
HRTF adaptation test.	
Annual congress of Italian Society of otorhinolaryngology	25 - 28 May, 2016;
	Rome, Italy
IDETC/CIE 2015	2 - 5 August, 2015;
	Boston, USA

Table 12 details the peer-reviewed scientific activities including published and  $in\ press$  outcomes.



Table 12. Conference Proceedings.

Title of Scientific Publication	Authors	Name of the conference or proceedings	Type of paper	Publisher	Date and place of event	Status and year of publication	Is/will open access be provided for this publication
The 3D Tune-In Toolkit – 3D audio spatialiser, hearing loss and hearing aid simulations	Cuevas-Rodriguez, M., Gonzalez-Toledo, D., de La Rubia-Cuestas, E., Garre, C., Molina-Tanco, L., Reyes- Lecuona, A., Poirier-Quinot, D. and Picinali, L.	In Proceedings of the IEEE 4 <sup>th</sup> Workshop on Sonic Interactions for Virtual Environments, IEEEVR	Workshop paper	IEEE	18 - 22 March 2018; Reutlingen, Germany	Accepted, 2018	Yes – Green OA
A VR-based Mobile Platform for Training to Non- individualised Binaural 3D Audio	Kim, C., Steadman, M., Lestang, J., Goodman, D., Picinali, L.	In Proceedings of the Audio Engineering Society Convention	Convention paper	AES	May, 2018; Milan, Italy	Accepted, 2018	No
Design for redundancy in a participatory action that helps user calibrating hearing devices	Simeone, L.	Proceedings of PIN-C	Short paper	Design United	11 - 13 January 2018; Eskilstuna, Sweden	Published, 2018	Yes – Green OA
Toward a more granular management of the calibration process for hearing devices: The role of design-based knowledge translation	Simeone L., Picinali L. and Atvur A.	In the Proceedings of the Design Research Society (DRS) 2018 Conference	Conference paper	DRS	June, 2018; Limerick, UK	Published, 2018	No
An open-source audio renderer for 3D audio with hearing loss and hearing aid simulations	Cuevas-Rodriguez, M., Gonzalez-Toledo, D., de La Rubia-Cuestas, E., Garre, C., Molina-Tanco, L., Reyes- Lecuona, A., Poirier-Quinot, D. and Picinali, L.	In the Proceedings of the 142 <sup>nd</sup> Audio Engineering Society Convention	Convention paper	AES	20 - 23 May 2017; Berlin, Germany	Published, 2017	Yes – Green OA
Novel 3D games for people with and without hearing loss 3D Tune-In outcomes 3D Tune-In Toolkit	D' Cruz. M., Patel, H., Hallewell, M., Salanitri, D., Velzen, J. and Picinali, L.	9th International Conference on Virtual Worlds and Games for Serious Applications	Poster	IEEE	6 - 8 September, 2017; Athens, Greece	Published, 2017	Yes – Green OA



Title of Scientific Publication	Authors	Name of the conference or proceedings	Type of paper	Publisher	Date and place of event	Status and year of publication	Is/will open access be provided for this publication
3D Tune-In: Evaluating applications designed to support hearing aid users in the customisation of their hearing experience	Hallewell, M., Patel, H., Salanitri, D., D'Cruz, M., Levtov, Y., and Simeone, L.	In the Proceedings of the British Academy of Audiology 14th Annual Conference	Poster	BAA	15 - 17 November; Bournemouth, UK	Published, 2017	Yes – Green OA
3D Tune-In (3DTI): Evaluation of games to improve knowledge of hearing aids in children with and without hearing loss	Salanitri, D., Patel, H., Hallewell, M., D'Cruz, M., Tamascelli, S., Linares, T. and Vallina, B.	In the proceedings of the British Academy of Audiology 14th Annual Conference	Poster	BAA	15 - 17 November; Bournemouth, UK	Published, 2017	Yes – Green OA
The iterative design and evaluation of gaming applications to facilitate the use of appropriate hearing aid functionalities in different acoustic contexts	Patel, H., D'Cruz, M. and Hallewell, M.	In the Proceedings of the European Federation of Audiological Societies conference	Poster	N/A	7 - 10 June 2017; Interlaken, Switzerland	Published, 2017	Yes – Green OA
An open-source C++ library for audio spatialization and simulation of hearing loss and hearing aids	Picinali, L, Cuevas- Rodriguez, M., Gonzales- Toledo, D., de la Rubia- Cuestas, E., Garre, C., Molina-Tanco, L., Poirier- Quinot, D. and Reyes- Lecuona, A.	In the Proceedings of the International Conference on Spatial Audio 2017	Workshop paper	N/A	7 – 10 September, 2017; Graz, Austria	Published, 2017	No
Comparative perceptual evaluation between different methods for implementing reverberation in a binaural context	Picinali, L., Wallin, A., Levtov, Y. and Poirier- Quinot	In the Proceedings of the 142 <sup>nd</sup> Audio Engineering Society Convention	Convention paper	AES	Berlin, Germany	Published, 2017	Yes – Green OA
Participatory design of gaming applications to facilitate the use of appropriate hearing aid	Patel, H., Hallewell, M., D'Cruz, M., Eastgate, R., Cobb, S. and Picinali, L.	The proceedings of the British Academy of Audiology Conference	Full paper	BAA	Glasgow, UK	Published, 2016	Yes – Green OA



Title of Scientific Publication	Authors	Name of the conference or proceedings	Type of paper	Publisher	Date and place of event	Status and year of publication	Is/will open access be provided for this publication
functionalities in different acoustic contexts							
User involvement in design and application of virtual reality gamification to facilitate the use of hearing aids	Patel, H., Cobb, S., Halewell, M., D'Cruz, M., Eastgate, R. and Picinali, L.	International Conference on Interactive Technologies and Games (iTAG)	Full paper	IEEE	Nottingham, UK	Published, 2016	Yes – Green OA
3D Tune-In: interactive gaming and VR prototypes to facilitate the use of hearing aids	Picinali, L., D'Cruz, M. and Simeone, L.	Proceedings of the EuroVR Conference	Poster	European Association for Virtual Reality	Athens, Greece	Published, 2016	Yes – Green OA
3D Tune-In: The Use of 3D Sound and Gamification to Aid Better Adoption of Hearing Aid Technologies	Levtov, Y., Picinali, L., D'Cruz, M. & Simeone, L.	Conference paper at 140th Audio Engineering Society Convention	Full paper	Audio Engineering Society	Paris, France	Published, 2016	Yes – Green OA
3D Tune-In: 3D-games for TUNing and lEarnINg about hearing aids	Picinali, L., D'Cruz, M. & Simone, L.	The 12th International Conference on Intelligent Environments - IE'16	Poster	N/A	London, UK	Published, 2016	Yes – Green OA
A mobile-based platform for evaluating localisation of virtual sound sources (poster demo)	Steadman. M., and Picinali, L.	Workshop on Auditory Neuroscience, Cognition and Modelling	Poster	QMUL, London	17 February 2016; London, UK	Published, 2016	Yes – Green OA
3D-Tune-In: the use of 3D visuals and sound to facilitate use of hearing devices	Picinali, L., D'Cruz, M. & Simone, L.	Proceedings of the EuroVR Conference	Full paper	European Association for Virtual Reality	Lecco, Ialy	Published, 2015	Yes – Green OA



Table 12. Journal articles.

Title of Scientific Publication	DOI	ISSN or eSSN	Authors	Title of the Journal	Number, date	Publisher	Status and year of publication	Relevant pages	Peer review	Is/will open access be provided for this publication
Knowledge	10.1108/JKM-	ISSN:	Simeone,	Journal of	Volume	Emerald	Published,	1406-	Yes	Yes
translation	10-2016-0432	1367-	L.,	Knowledge	21, issue	Publishing	2017	1429		
mechanisms in open		3270	Secundo,	Management	6	Limited				
innovation: the role			G.,							
of design in R&D			Schiuma,							
projects			G.							
3D Tune-In: 3D	10.1097/	ISSN: 07	Eastgate,	Hearing	Volume	Wolters	Published,	30-32	Yes	Yes - Gold OA
Games for Tuning	01.HJ.000048	45-7472;	R.,	Journal	69, Issue	Kluwer	2016			
and Learning About	1810.74569.d8	Online	Picinali,		4					
Hearing Aids		ISSN: 23	L., Patel,							
		33-6218	H., &							
			D'Cruz, M.							

Table 13. Other scientific publications.

Title of Scientific Publication	Authors	Title of the magazine or equivalent	Type of activity	Status and year of publication	Is/will open access be provided for this publication
3D-games for TUNing and lEarnINg about hearing aids	Frost, E. & Picinali, L.	British Society of Hearing Aid Audiology (BSHAA) People magazine	Article	Published, 2018	Yes
Tuning on 3D Games	Picinali, L.	Action on Hearing Loss magazine	Article	Published, 2017	Yes
The design of digital applications to facilitate the use of appropriate hearing aid functionalities in different acoustic contexts	Patel, H.	British Academy of Audiology (BAA) Magazine	Article	Published, 2017	Yes



### 3.6. Joint activities with other EU projects

The 3D Tune-In consortium has built relations and alliances with five EU-Funded projects. This contributes to ensure the sustainability and the transfer of best practices in the field of dissemination and communication; we participated in some joint scientific dissemination activities. The D&C Team started the prospective search for alliances in December 2015. The related EU projects are detailed at http://www.3d-tune-in.eu/gamification-eu-projects These projects were as follows.

- NO ONE LEFT BEHIND: Gamification for inclusive formal learning environments. Website: http://no1leftbehind.eu/
- PROSOCIAL LEARN: Gamification of prosocial learning for increased youth inclusion and academic achievement. Website: http://prosociallearn.eu/
- RAGE: Boosting games development for education and training in Europe. Website: http://rageproject.eu/
- BEACONING: Gameful personalized learning. Website: http://www.beaconing.eu/
- MOBILE AGE: Inclusion of seniors in digital services. Website: http://www.mobile-age.eu/

Regular meetings took place between the 3DTI coordinator and partners of these projects, aiming at collaborating towards maximising results and impact of the project.

#### 3.7. Public presentations at fairs and events

In a similar way to that for the scientific community, project results were being disseminated

in fairs and events focused on the video games industry, including independent developers and bigger publishers. The partners – specifically SMEs – have attended 39 workshops or trade-fairs, as detailed in Table 14.
Table 14: Workshop, fairs and trade events.

Event	Date and place	Target Audience
Game Conference Zurich	1/07/2015	Research
	Milano (Italy)	
Game Over - Indie developers fair and party	19/9/2015-20/9/2015	Industry players
(Milano)	Milano (Italy)	
F.I.R.S.T. 2015 (Festival Per L'Innovazione, La	25/9/2015-26/9/2015	Research
Ricerca, Il Sociale e Il Territorio)	Padova (Italy)	
Imperial Fringe	24/9/2015	Research
	London (UK)	
ROBRICK fair	31/10/2015	General public
	Rovrigo (Italy)	
Generali Innovation Challenge (Microsoft)	17/11/2015	Industry players
	Rovrigo (Italy)	
IV CONGRESSO NAZIONALE Palacongressi di Rimini	20/11/2015-22/11/2016 Rimini (Italy)	Elderly end-users



48th RUMSX (Valencia)	2/12/2015 Castellón (Spain)	Industry players
3D Tune-In used as a project work at the Politecnico di Milano	18/1/2016 Milano (Italy)	Other
SMAU Workshop - New opportunities for the development of technologies for disability and quality of life	11/03/2016 Padova (Italy)	Industry players
Mathematics and rehabilitation	19/3/2016 PiGreco Rovigo (Italy)	Other
Math ideas	20/3/2016 Padova (Italy)	Other
Bologna Children's Book Fair	04/04/2016 Bologna (Italy)	Educational community
Imperial Festival 2016	7/5/2016-8/5/2016 London (UK)	Academics, industry and general public
NordicGame 2016	20/5/2016 Malmo (Sweden)	-
Salone Internazionale del Libro di Torino 2016	12/5/2016-16/5/2016 Torino (Italy)	Journalists, education, publishers. General society.
SIFEL (Italian Society of Phoniatrics and Logopedics speech therapy) Congress	23/6/2016-25/6/2016 Catania (Italy)	Medical doctors, audiologists
Jobs and Orienta 2016	30/11/2016-2/12/2016 Verona (Italy)	General public
Big Buyer 2016	23/11/2016-25/11/2016 Bologna (Italy)	Industry players
Seminar presentation of 3d Tune-In project at Imperial	3/11/2016 London (UK)	Clinical
SMAU Milano	25-26/10/2016 Milano (Italy)	Industry Players
Rovigo Espone - economia in mostra	22/10/2016-25/10/2016 Rovigo (Italy)	Industry players. General public
Winter Wonderland	8/1/2017-9/1/2017 Ferrara (Italy)	General public and industry players
PAX East 2017	10/3/2017 - 12/3/2017 Boston, MA. USA.	Gamers
AI VENEZIA	6/4/2017 Venezia (Italy)	Industry players
SMAU Padova	30/03/2017-31/03/2017 Padova (Italy)	Industry players
Desayuno Innovador (Las Naves - Valencia) - Spain	01/05/2017 Valencia (Spain)	Audiologists, investors, associations of end- users and industry players
NordicGame 2017	17/05/2017 - 19/05/2017 Malmo (Sweden)	Industry
SMAU Bologna	08/6/2017-09/6/2017 Bologna (Italy)	Industry
Campus Party Milan	20/7/2017-23/7/2017 Milano (Italy)	ICT developers, hackers, Open Source Community, gamers
Festival Smart Innovation	15/9/2017/17/9/2017	Industry
	Treviso (Italy)	



	London (UK)	users
BAA - 14th annual conference of the British	16/11/2017-17/11/2017	Audiologists;
Audiological Association	Bournemouth (UK)	academia
Digital Meet	20/10/2017	Educational
-	Rovrigo (Italy)	community
Cartoomics- Comics/Games/Movies fair	9-11/03/2018	Civil Society, Press
	Milan, Italy	·
Conference at Bologna Children's Book Fair	28/03/2018	General public
(Digital Café)	Bologna (Italy)	_
Stand at Bologna Children's Book Fair (Digital	26-28/03/2018	General public
Café)	Bologna (Italy)	
Conference to Apple and Google at Bologna	27 March 2018	Industry
Children's Book Fair (Digital Café)	Bologna (Italy)	
Trieste ENS Office	07/04/2018	End-users
	Trieste (Italy)	

#### 3.8. Social media activity

Creating a large online community is an effective method for exploitation of project results. A variety of social media platforms (e.g. YouTube, Twitter, Facebook, LinkedIn) were considered to further enhance the communication of the project and its results. As seen in Section 4.1., social media channels have a great impact on dissemination of results, being an important source of web-traffic, and a new engaging way to involve the society, the civil society, main players and professional and academic communities.

#### *3.8.1. Strategy*

The Social Media plan was updated in September 2015. However, it was also modified as the project advanced to adapt the content and methodology to each of the phase objectives (Section 3 – Overall Strategy).

#### 3.8.2. Objectives

- To provide a regular flow of information about the project and its results to both industry and academic community.
- To promote results and benefits of the project to target audiences. Key audiences were defined as the project developed, but initial groups were found within the games industry and hearing communities.

#### 3.8.3. Social Media Channels

From M4 to M36, a Facebook page, Twitter account, a YouTube channel and a LinkedIn group were created and regularly updated:

#### **Facebook** (https://www.facebook.com/3DTuneIn)

Purpose: connects with stakeholders and relevant researchers. Allows segmental advisory if needed.

Uses: spreading news and networking. Content curation.

#### **Twitter** (https://twitter.com/3dtunein)

Purpose: Twitter is a very ephemeral channel, but it allows conversation, networking using a collaborative approach and gets information about similar initiatives. It also works as a newsfeed.



Uses: Newsfeed, networking.

YouTube (https://www.youtube.com/channel/UCXIdMvJQjdZ0bnaovEXcjLg)

Purpose: Share multimedia dissemination content with stakeholders and researchers

worldwide (slides, speeches, events, successful use cases, etc.).

Uses: Repository of multimedia dissemination material.

**LinkedIn** (https://www.linkedin.com/groups/8409367/profile)

Purpose: Disseminate the project outcomes among EU researchers, special education teachers and therapists, etc.

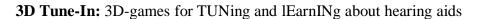
#### 3.8.4. Vision statements

- **Knowledge transfer**. Apply technologies and techniques normally used in traditional gaming applications to a non-leisure application such as HA demonstration and calibration.
- **Gamification**. Successfully employ a gamification approach for tasks (demonstration and calibration of HA) which have never been related to games.
- **Game-centred**. Make the gaming part of 3D Tune-In fully integrated into the system in a way that it is not just useful, but the essence of the application.
- Transferrable. Make the experience using 3D Tune-In applications actually reflect the real world, and to work as a real-world experience. The HA calibration performed through VR tools within 3D Tune-In, will be successfully usable in real-world scenarios.
- Affordable. Make the 3D Tune-In tools affordable, both regarding cost and usability.

#### 3.8.5. Targets, channels and communication

Table 15. Overall strategy and minimum required interaction.

Social Media Tool	Main target/s (organised by priority)	Communication	Frequency
Facebook	People with hearing aids Industry & IT developers and providers Audiologists, physicians, etc. Special Education.	Links (website, external resources) Images and photography show great impact (events, screenshots, etc.) Video (YouTube)	1 post per week (min). Not connected to Twitter feed. Check primetime (1M): a priori, 20.00pm
Twitter	Special Education Industry & IT developers and providers Audiologists, physicians, etc. People with hearing aids	News and links to website or YouTube and external resources. Conversation and community building	4 posts per week Check primetime (3M). Standard: 12:00, 17:00, 18:00, 20:30.
YouTube	Industry & IT developers and providers Special Education. Audiologists, physicians, etc.	Videos: presentations, speeches, slides, use- cases.	On demand.
LinkedIn	Industry & IT developers and providers Special Education.	Newsfeed, networking.	1 post per month.





#### 3.8.6. Social media content procedures

The procedure did not include an approval process for all content. A content removal procedure was agreed for inappropriate content. Involved partners in charge of Social Media channels may NOT post the following:

- a) Duplicate content
- b) Twitter feed clones (Facebook and Twitter are different: duplicating the Twitter feed is a malpractice)
- c) Third-party advertising. If a SME/freelance uses the Facebook page for advertising his/her games, etc. it will be deleted, and the user will be blocked.
- d) Content intended for an adult audience or violent images, videos or text.

Privacy strategies or procedures were in place to ensure the security of personal information was in line with Data Protection Regulations for each country involved. No specific procedures were established on accepting new followers.

#### 3.8.7. Performance and statistics.

The following measurements were taken from LikeAnalyser, Sociograph.io and Cycle.

#### **Facebook**

Currently, the Facebook fan page has 142 likes and 144 followers. These numbers seem to have stabilised since the last deliverable. The most important rates are the PTAT (*People Talking About This*) and the Engagement rate: these are 2 and 1% respectively<sup>3</sup>.

The fan page managers published 0.4 posts per day on average and there were 2 interactions per post. Regarding the types of posts, 8.5% were images (without links or any other interactive resource), 3.47% were videos and 86.9% were links; the fans responded best to links, especially links posted at midday (between 12.00pm and 14.00pm) and evening (between 19:00 and 21:00) (GMT).

The posts often had more than 100 characters (120 characters in average) to improve the search engine optimisation and the engagement of these. Up to date, 460 posts have been published.

The Facebook audience shows interest for hearing loss, tips for daily life and research in general. Top posts, since the beginning ("al-time posts") are detailed in Table 16. Most of the page fans wer women (51%), and the majority of visits came from Italy.

-

<sup>&</sup>lt;sup>3</sup> Source: LikeAlyzer.



Table 16. All-time top posts.

	id	<b>Description</b> URL		Time	Likes	Comment	Shares	Type
1	16724862529 80377_18022 06140008387	End-users survey: Spanish version Advertised traffic, non-organic	https://www.facebook.com/1 672486252980377/posts/180 2206140008387	2016- 07- 19T1 0:11:	54	0 Cor	1	link
2	16724862529	Málaga meeting post and photo	https://www.facebook.com/1	00+0 000 2015-	8	0	2	_
	80377_17087 98979349104		672486252980377/posts/170 8798979349104	10- 30T1 2:47: 52+0 000				photo
3	16724862529 80377_17080 36966091972	Málaga meeting pictures	https://www.facebook.com/1 672486252980377/posts/170 8036966091972	2015- 10- 27T0 9:50: 48+0 000	7	0	1	photo
4	16724862529 80377_17433 54192560249	Most deaf and hearing impaired children can attend mainstream schools with adequate support	https://www.facebook.com/1 672486252980377/posts/174 3354192560249	2016- 02- 26T1 1:01: 00+0 000	7	0	0	link
5	16724862529 80377_17082 73746068294	Málaga meeting pictures	https://www.facebook.com/1 672486252980377/posts/170 8273746068294	2015- 10- 28T0 9:50: 53+0 000	6	0	1	photo
6	16724862529 80377_17005 75343504801	The development of #HearingAids over time	https://www.facebook.com/1 672486252980377/posts/170 0575343504801	2015- 10- 07T1 7:10: 01+0 000	6	0	0	photo
7	16724862529 80377_17692 51893303812	Nottingham meeting pictures	https://www.facebook.com/1 672486252980377/posts/176 9251893303812	2016- 04- 27T0 6:38: 00+0 000	7	0	0	photo
8	16724862529 80377_17433 54675893534	The Hearing Journal, a well-known publication in hearing healthcare, has published a paper about our project.	https://www.facebook.com/1 672486252980377/posts/174 3354675893534	2016- 02- 26T0 9:03: 00+0 000	6	0	0	link



9	16724862529	Communication Tips For All	https://www.facebook.com/1	2016-	6	0	0	
	80377_17301	From Someone With	672486252980377/posts/173	01-				
	08177218184	Hearing Loss	0108177218184	15T1				ink
				1:17:				<u>:</u>
				01+0				
				000				
1	16724862529	Experts have published in The	https://www.facebook.com/1	2015-	5	0	0	
0	80377_17160	Lancet a list of the most urgent	672486252980377/posts/171	11-				
	92218619780	priorities for researching mild to	6092218619780	27T1				irk
		moderate #hearingLoss		1:53:				:=
				31+0				
				000				

#### Socio-demographic analysis

47% of followers were male, and 53% female. The vast majority of our followers and fans were aged between 25-34 years old (33%), followed by the 35-44 years old group (30%). People over 55 years old represented 11% of the total audience increased by 7%, which reflects the effort invested to reach the oldest age groups. The Italian partners invested great resources in their dissemination activity and it is reflected in the Italian audience that represented about 32% of the total audience in Facebook. People from Spain represented 27% of the audience, 14% were from the United Kingdom, 3% from Germany and 2% from Norway.

#### **Twitter**

Twitter seems to be the most cost-effective channel for the 3D Tune-In consortium. Currently, the @3DTuneIn account has 189 followers, and the interactions, visits and followers are increasing at a sustainable rate, although summer has required a greater effort than spring. Table 17 shows the overall progress.

Table 17. Twitter performance.

		2015						
	8	9	10	11	12			
	M5	M6	M7	M8	M9			
Tweets	1	3	4	4	12			
Profile visits	46	245	200	139	102			
Mentions	1	3	2	5	9			
Impressions	28	1541	812	10100	1765			

	2016											
	1	2	3	4	5	6	7	8	9	10	11	12
	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21
Tweets	13	15	18	12	23	11	24	28	2	29	27	6
Profile visits	155	100	103	151	83	103	179	152	25	551	558	135
Mentions	6	5	3	18	2	3	6	4	2	21	3	3
Impressions	3244	3954	3286	2197	4234	3495	3724	3828	5639	8253	7264	4759



						20	17					
	1	2	3	4	5	6	7	8	9	10	11	12
	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33
Tweets	20	30	23	20	41	24	37	32	44	46	52	39
Profile visits	168	224	165	109	682	130	149	186	242	230	420	204
Mentions	2	8	9	2	36	7	9	7	16	19	14	29
Impressions	5459	6303	4203	2603	13400	6403	6779	6649	9386	8171	10700	11200

		2018	
	1	2	3
	M34	M35	M36
Tweets	37	35	37
Profile visits	228	185	301
Mentions	21	11	34
Impressions	11100	9501	10400

The overall effect of increasing tweet publication is not so clear at this stage: it seems that tweets publications have not had a real impact on profile visits; profile visits are the most critical factor to increase active followers in Twitter.

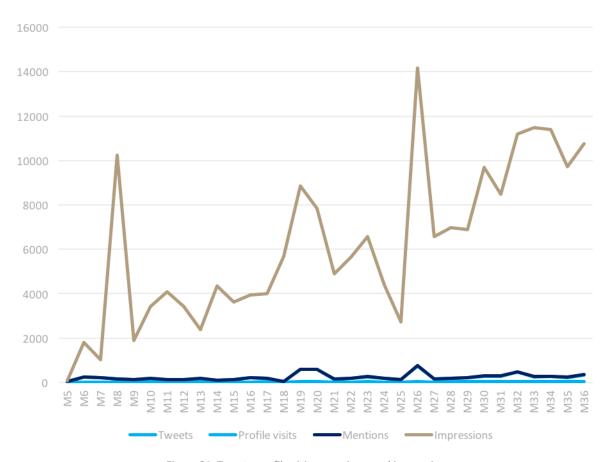


Figure 21. Tweets, profile visits, mentions and impressions.

#### Socio-demographic analysis

58% of the followers were male and 42% female. Most of the followers were from United Kingdom (36%), Spain (16%), United States (11%) and Italy (7%). They were interested in tech news (75%), technology (68%), science news (65%), business and news (60%), politics (50%), entrepreneurship (41%), books, news and general information (34%).

#### LinkedIn

LinkedIn has a professional and academic-focused approach.

#### Socio-demographic analysis

Currently, 38 individuals have joined the group, 3D Tune-In (3D-games for TUNing and lEarnINg about hearing aids) https://www.linkedin.com/groups/8409367.

 $Table\ 18.\ Linked In\ group\ -\ Geographical\ coverage.$ 

Country	Count		
Spain	13		
UK	10		
Italy	6		
Germany	2		
Denmark	1		



France	1
India	1
Netherlands	1
Saudi Arabia	1
Sweden	1
USA	1

#### YouTube

The YouTube channel was created on the 15th of July 2015. 9 videos have been published. Up to date, the total watch time spent by the audience is 2819 minutes, with an average view duration of 1 minute and 15 seconds and a total of 2233 views.

### Socio-demographic analysis

Our top 5 audiences were from the UK (39%), Italy (17%), Spain (11%), United States (5.9%) and Germany (3.4%). The top 5 means through which the viewer found our video were externally, which includes the 3DTI website where the YouTube video is accessible through a link (81%), directly through a URL entry (4.8%), as a suggested video on YouTube (4.4%), through channel pages (3.5) and through search terms used by viewers (3.3%).



## 4. Conclusions

This deliverable summarises the dissemination activities of the consortium up to month 36. Table 19 presents a summary of performance indicators where estimations made at the beginning of the project for this period were compared with actual results. Table 20 summarises all other dissemination results.

	Estimates (during the project lifecycle, 36 months)	Results (M1-M36)
Journal articles	2	2
Conference publications	3	18
Other publications/articles	0	3
Scientific seminars and demonstrations	3	8
EU-projects networked	3	5
MSc Thesis	3	1 in progress
BSc Thesis	0	2 (1 in progress)
PhD Dissertation	1	1 in progress (Ms C. María Cuevas, UMA)

Table 19. Key Performance Indicators M1-M36 vs. Estimates.

Table 20. Summary of other dissemination activities.

Dissemination material	Brochure, posters, videos, website, see Section 3.2. Project Materials
Website	Efficiency (visitors, links, bounce rate, etc.), see Section 3.1. Website
Social Media	Scale of success (fans/likes, shares, engagement rate), see Section 3.8. Social
	Media Activity

Figure 21 summarises estimates of the overall cumulative impact of partners' dissemination activities and the impact measured on the website and social media channels.

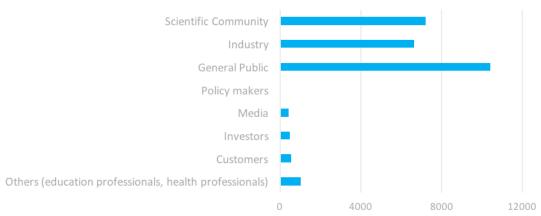


Figure 22. Overall impact estimated.

Of the estimated total audience, academia/scientific community represent approximately 27%, industry players represent 25%, and the general public represent 39% <sup>4</sup>.

<sup>&</sup>lt;sup>4</sup> Source: Quarterly reports and Activity Reports provided by the partners.



The consortium has exceeded many of its dissemination targets.