

Interactive Music Science Collaborative Activities

Team Teaching for STEAM Education

Deliverable 7.3 First Report on Dissemination Activities

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Executive Summary

The aim of this deliverable is to address how iMuSciCA will handle the various issues related to the dissemination and communication of the project. The dissemination and communication plan outlines the identification of different stakeholders and the respective strategy devised. It also details the different communication and dissemination tools adopted, along with specific actions foreseen to address any issues relating to the educational community (both learners and teachers), the scientific community, industry and the general public.

In particular, it reports on the iMuSciCA dissemination and communication tools designed and implemented in the reporting period, with reference to project corporate identity, the website, flyers and brochures, social media and report on iMuSciCA visibility numbers (at the time of writing of this report). It also reports on dissemination activities for the different project stakeholder categories, according to the project dissemination strategic plan, implemented activities targeting the scientific community, including presence in reportitories, participation in conferences, project related publications and talks. Finally, actions targeting the Educational Community, complemented by dissemination activities performed targeting the Industry, the General Public, the Policy Makers, Informal Learning Centres and Concertation Actions are described.

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LIST OF ABBREVIATIONS

Abbreviation	Description		
PU	Public Report		
EU	European Union		
WP	Work Package		
DoA	Description of Action		
КРІ	Key Performance Indicator		
ORD	Open Research Data		
IPR	Intellectual Property Rights		
SME	Small Medium Enterprise		
ATHENA	ATHENA RESEARCH AND INNOVATION CENTER IN INFORMATION COMMUNICATION & KNOWLEDGE TECHNOLOGIES		
UCLL	UC LIMBURG		
EA	ELLINOGERMANIKI AGOGI SCHOLI PANAGEA SAVVA AE		
IRCAM	INSTITUT DE RECHERCHE ET DE COORDINATION ACOUSTIQUE MUSIQUE		
LEOPOLY	3D FOR ALL SZAMITASTECHNIKAI FEJLESZTO KFT		
CABRI	Cabrilog SAS		
WIRIS	MATHS FOR MORE SL		
UNIFRI	UNIVERSITE DE FRIBOURG		

1. Introduction

Dissemination¹ is the public disclosure of the results of the project in any medium. Dissemination is a process of promotion and awareness-raising right from the beginning of a project, and makes research results known to various stakeholder groups (such as research peers, industry and other commercial actors, professional organisations, policymakers) in a targeted way, to enable them to use the results in their own work. The present report is complemented by the report on communication and outreach activities (see <u>D7.4 - First Report on Communication and Outreach Activities</u>).

Section 2 reports on the iMuSciCA dissemination and communication tools designed and implemented in the reporting period, with reference to project corporate identity, the website, flyers and brochures, social media and report on iMuSciCA visibility numbers (at the time of writing of this report). Section 3 reports on dissemination activities for the different project stakeholder categories, according to the project dissemination strategic plan. Implemented activities targeting the Scientific Community are reported, including presence in reportitories, participation in conferences, project related publications and talks. Next actions targeting the Educational Community follow, complemented by dissemination activities performed targeting the Industry, the General Public, the Policy Makers, Informal Learning Centres and Concertation Actions.

2. iMuSciCA tools

In line with Deliverable D7.1-Dissemination and Communication Plan, where the project identified different stakeholders, such as policy makers, teachers communities, informal learning centres, individual families/parents, organizations that promote innovative solutions/approach, other collaborative actions, scientific community and the general public, a palette of tools have been devised and implemented to serve the different dissemination purposes.

The iMuSciCA dissemination tools, that can also serve communication purposes are in short presented below:

- website
- social media
- project flyers and newsletter
- project registration in repositories
- publications in scientific and technical conferences, workshops and journals
- demonstrators and videos available online showcasing project results
- project presentation/booth in trade-shows and conferences

2.1. iMuSciCA corporate identity

2.1.1. Dissemination materials

Different dissemination materials have been created to serve dissemination and communication purposes. All of those are available for download through the project's website (see subsection below).

¹ <u>https://ec.europa.eu/research/participants/portal/desktop/en/support/faqs/faq-933.html</u>

2.1.1.1. Project Logo & Visual Identity

http://www.imuscica.eu/wp-content/uploads/2018/03/visual-identity-imuscica.pdf



2.1.1.2. Project Presentation

Available in English at

http://www.imuscica.eu/wp-content/uploads/2018/03/iMuSciCA Project Presentation.pdf



2.2. The WebSite

An iMuSciCA's www facility has been created at the very early stages of the project to serve as information and communication backbone and is available at: <u>http://www.imuscica.eu/</u>

The project web site contains news on the project such as a description, the objectives, the work package structure, project deliverables, the timeline (all accessible from the menu "Project"), the institutions and companies behind the project (accessible from the menu "Consortium"), project news.





The iMuSciCA project

Problem-solving is one of the key skills for the 21st-century job market. STEM (Science, Technology, Engineering and Mathematics) teaching rely on the left haif of the brain and thus is logic driven. Artistic activities, which uses the right side of the brain fosters creative problem-solving. STEM education is no creassny but it is not sufficient.

Youngsters need STEAM (Science, Arts, Technology, Engineering and Mathematics) education to get ready for their future.

IMUSciCA is a **pioneering approach using music for fostering creativity and deeper learning**, thereby setting new grounds in the European STEAM curricula.



Learn Sciences through creative and stimulating music in exciting interactive music activities

The iMuSciCA project develops a set of practical activities to The MUSCICA project develops a set of practical activities to give learners many opportunities as the wonderful exploration of different phenomena and laws of physics, geometry, mathematics and technology through creative music activities. It is based on cross-disciplinary educational approaches.



Encourage students to engage activities

The IMuScICA workbench engages secondary school students in order to support proficiency in core academic STEM subjects - Physics, Geometry, Mathematics, and Technology, creativity development and deeper learning skills through music activities.



Benefit from original and innovative educational technologies

The IMUSCICA project addresses contemporary requirements in education and learning for new STEAM pedagogical methodologies and innovative educational technology tools by supporting active, discovery-based, personalized learning, by providing students and teachers with opportunities for collaboration, co-creation and collective knowledge building.

Our Latest Blog Post





22

nd the lab event that took place on February 3, 2017 at the Doukses Plakertais metro startion, They presented of the IALSOCA workbench real-time beat tracking algorithm embedded on a NAC dancer. (photos, videos) The algorithm was submitted to the REEE Signal



15 iMuSciCA project presented at the Open Schools for Open Societies Conference 2010 Open Societies Conference 2016

The MuldoCA project presented at opening session of the Open Schools for Open Societies Conference 2016 on A November 2016 in Athenia, Greece. The Open Schools for Open Societies Conference 2016 is organised by Ellingermanki Ageg, EDIR, and the Greek institute for Education Policy.





Project/ Consortium External Advisory Board Media Center Events How can we help?

The educational movement of STEAM

The educational movement of STEAM is about bringing Arts at the heart of the academic curriculum in order to cultivate creative skills of young people, alongside with the knowledge and skills they acquire in STEM fields (Science, Technology, Engineering and Mathematics). New demands raised by the global economic environment and the industry for innovation, adaptability, and flexibility highlight the need for cross-disciplinarily connected skills in the educational process, such as creativity, critical thinking, innovation and risk taking, which are expected to foster innovation and economic growth.

The iMuSciCA project

The IMUSCICA project will directly address the current requirements in education and learning for new pedagogical methodologies and innovative educational technology tools by supporting active, discovery-based, personalized, and more engaging learning and providing students and teachers with opportunities for collaboration, co-creation and collective knowledge building. As a STEAM-oriented project, IMUSCICA aims to design and implement a suite of software tools and services on top of new enabling technologies interactive pen on touchpad, 3D object design and printing, as well as new multimodal interfaces that combine advanced music generation and processing with warscholenchonching STEAM. with wearable technology, will be deployed to implement a web-based workbench aiming at STEAM learning,

The aim of iMuSciCA

The iMuSciCA workbench addresses secondary school students with the aim to support mastery of core academic content on STEM subjects (Physics, Geometry, Mathematics, and Technology) alongside with the development of creativity and deeper learning skills through their engagement in music activities.



STAY UP-TO-DATE!

Subscribe to iMuSciCA's newsletter! We'll only send you the most relevant updates 😌



SUBSCRIBE

RECENT POSTS

iMuSciCA Summer School 2018 The IMUSCICA pilot-test IMUSCICA at CICAUdeM IMUSCICA at the Greek Researchers' Night events iMuSiCA at the most prominent innovation/industrial fair in Greece

	al Advisory Board Media Center Events How can we help?
MEDIA CENTER	Home / Media Center
March 2018: Click on the link to download the flyer of IMuSGCA (English, French). March 2018: Click on the link to download a French article from "Fontaine rive gauche". July 2017: Click on the link to download a French article from "Fontaine rive gauche". July 2017: Click on the link to download the logo of the project. February 2017: Click on the link to download the logo of the project. February 2017: Click on the link to download the MuSGCA Project Presentation.	STAY UP-TO-DATE! Subscribe to IMUSCICA's newsletter! wubdites * * indicates required Final Address * Final Harme * Last Harme *
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731861.	RECENT POSTS MuSicCA Summer School 2018 The MuSicCA policitiest MuSicCA at the Greek Researchers' Night events MuSiCA at the most prominent Innovation/industrial fair in Greece
© 2017 IMUSCICA CONSORTIUM	HOME ABOUT IMUSCICA. COMMUNITIES & NETWORKS. CONSORITUM EVENTS EXTERNAL ADVISORY BOARD. HOW CON WE HELT?

The web site improves the image of the project by drafting quality content and thereby distinguishes iMuSciCA project from a potential competition; it disseminates the project and its updates, thus making the site dynamic; it promotes the expertise of the consortium in the field of digital education by the quality of its content; it is interlinked to the social networks since article is broadcasted on the social networks of the project and also on the social networks of the partners; it finally allows to engage the community around the project and to generate traffic to the website (thus increasing its referencing).

2.2.1. Customised sites & reference to partner sites

Project partners have also disseminated iMuSciCA through the organisations websites.



UCLL also created an iMuSciCA webpage on their platform 'Vakdidactiek.be' that teachers visit in search for professionel development: <u>http://www.vakdidactiek.be/iMuSciCA a STEAM Pedagogy</u>

vakdidactiek.be is ee	n UC Leuven	Limburg website



VAK DIDAC TIEK.BE

Didactiek is een goed idee. VIEUWS VOVER ONS VIAVORMINGEN V PROJECTEN PUBLICATIES LEERMATERIALEN

iMuSciCA - a STEAM Pedagogy



Interactive Music Science Collaborative Activities

Bovendien, zal iMuSciCA met ondersteunende technologieën de wetenschap achter de muziek

SUBSIDIEKANAAL H2020-ICT-2016-2017 ATHENA – Research and Innovation Centre in information communication & knowledge technologies Athens, Greece PROMOTOR

2.3. Flyers and brochures

2.3.1. Flyers / Posters

A project flyer/poster available in English at http://www.imuscica.eu/wp-content/uploads/2018/03/one-page-flyer-en.pdf And in French at http://www.imuscica.eu/wp-content/uploads/2018/03/flyer-fr.pdf



2.3.2. Press Releases

Press releases at every project milestone or relevant event customized for the audience addressed are planned.

A project sample press releases in English are available at

http://www.imuscica.eu/wp-content/uploads/2017/02/iMuSciCA_Press_Release_EN_v1.0.pdf

iMuSciCA - Interactive Music Science Collaborative Activities

Team Teaching for STEAM Education

Starting Date: January 1st, 2017 Duration: 30 months Total EU Contribution: € 2.673.745,00 Project Number: 731861 Consortium: Athena Research and Innovation Center, Greece University College Leuven-Limburg, Belgium Ellinogermaniki Agogi, Greece IRCAM, France Leopoly, Hungary Cabrilog, France Wiris, Spain University of Fribourg, Switzerland

iMuSciCA is a Research and Innovation Action funded under the European Union's Horizon 2020 Programme.

The **iMuSciCA** project addresses contemporary requirements in education and learning for new STEAM pedagogical methodologies and innovative educational technology tools by supporting **active**, **discovery-based**, **personalized**, and more **engaging learning** and providing students and teachers with opportunities for **collaboration**, **co-creation** and **collective knowledge building**.

The **iMuSciCA** workbench addresses **secondary school students** with the aim to support mastery of core academic content on STEM subjects (**Physics, Geometry, Mathematics**, and **Technology**) alongside with the development of **creativity** and **deeper learning** skills through the students' engagement in **music activities**.

iMuSciCA focuses on the following objectives:

2.3.3. Press Kit

An iMuSciCA standard press kit including customized information material for the stakeholders and the general public has been created.





2.3.4. NewsLetters

The first iMuSciCA's newsletter was sent on October 2017 to the most qualified contacts of the partners. The partners used the attract of their contacts with STEAM solutions (namely teachers, instructors, etc.) to make them signing up for the iMuSciCA's newsletter.

The newsletter is fed in different ways:

- by sending emails to qualified contacts of partners
- through face-to-face interaction at trade shows and conferences
- on the website of imuscica where the subscription to the newsletter is also included.

The first newsletter is available in English at

http://www.imuscica.eu/wp-content/uploads/2018/03/newsletter-en.png And in French at

<u>http://www.imuscica.eu/wp-content/uploads/2018/03/newsletter-fr.png</u>, while constomised translation are produced in almost all the mother languages of the project partner countries.



The second newsletter will:

- give a human perspective of the iMuSciCA solution by focusing on the people behind the development of the project in order to readers to follow the iMuSciCA adventure (the newsletter will include photos of the consortium and videos, e.g. an already available Youtube video, in which two iMuSciCA members explain the project)
- Refer to mention the most significant exhibitions and conferences iMuSciCA partners visited or exhibited (e.g: the BETT Show 2018)
- announce future events (e.g. the iMuSciCA Summer School in July 2018).

2.4. Social Media

These social networks aim to increase users' interest and promote their engagement. The objectives of these social media channels are to grow iMuSciCA's recognition and to encourage users to have interactions with the consortium.

Twitter and YouTube accounts are linked between them and also linked to the iMuSciCA's website: YouTube channel allows publishing videos which would be used on some Twitter publications and would automatically appear on the iMuSciCA's website.

2.4.1. YouTube channel

iMuSciCA YouTube channel is disseminating video and presentations and is available at https://www.youtube.com/channel/UChnK0jj4Qy2M3Wo188GoWuA



2.4.2. Twitter account

iMuSciCA Twitter account is used for disseminating events and activities and is accessible by <u>https://twitter.com/iMuSciCa?lang=en</u>.



2.5. iMuSciCA visibility in numbers

Last but not least, we briefly report herewith on iMuSciCA dissemination stigma (figures accounting cumulatively from the project commencement date up until now).

- Website (since February 22, 2017) number of unique visitors : 1093 number of visits: 1865 bounce rate : 54,69%
- Newsletter number of subscribers : 92
- Twitter account (since March 24, 2017) number of followers : 84 number of tweets : 102 number of impression (number of times a tweet has been seen) : 47856 number of participation (number of reaction, comment, share) : 368 profile visit (number of times a user has visited the profile page) : 1616

3. Dissemination Activities

3.1. Activities targeting the Scientific Community

3.1.1. Presence in Scientific Repositories

iMuSciCA has formed a community in the Zenodo research data repository, the latter being launched in 2013, available at <u>https://zenodo.org/communities/imuscica/?page=1&size=20</u>

🞦 Sent Mail - evitafotinea@gmail 🗙	\land D7.4 - Google Drive 🗙 😑 iMuSciCA_WP7_D7.4_FirstRepo 🗙 😂 iMuSciCA_WP7_D	7.3_FirstRepo 🗙 iMuSciCA - Interactive Music Scien 🗙 + 🛛 🗖 🌄
← → C ^d ⓓ ✿ Most Visited ֎ Getting Started	③ ▲ https://zenodo.org/communities/imuscica/?page=1&cize=20 ☑ 89%	😇 🏠 🔍 Search 👱 🕪 🧭 🖽
	ZENCIÓO Search a Uploso Communities	OLog in R Sign up
	iMuSciCA - Interactive Music Science Collabora	ative Activities
	Recent uploads	1. New upload
	Search MuSICGA - Interactive Music Science Collaborative Activities	 Click the button above to upload straight to this community. The community curator is notified, and will either accept or reject your upload (see community curator back) above.
	More	Commutery

3.1.2. Participation in Scientific Conferences

- Participation to the 1st Music Hackathon Bulgaria (<u>http://music-hackathons.org/1st-music-hackathon-bg</u>), in Sofia, 28-29 January 2017 by ATHENA.
- Participation and talk on STEAM Pedagogy at the Girep conference on Physics Education at Dublin City University, 04/07/2017 by UCLL.
- ATHENA presented the work on "<u>Convolutional Neural Networks for Real-Time Beat</u> <u>Tracking: A Dancing Robot Application</u>" at ISMIR 2017, in 23-27 October 2017, in Suzhou, China.

• UCLL contributed to Panel on inquiry learning in STEM-practices, Final conference EU FP7 Project Ark of Inquiry, UNESCO HQ Paris, France, 20-21/11/2017.

3.1.3. Publications

Journal papers / Book Chapters

 Vassilis Katsouros, Evita Fotinea, Renaat Frans, Erica Andreotti, Petros Stergiopoulos, Thomas Fischer, Manolis Chaniotakis, Robert Piechaud, Zoltan Karpati, Pierre Laborde, Daniel Martín-Albo, Fotini Simistira, and Marcus Liwicki, "iMuSciCA: Interactive Music Science Collaborative Activities for STEAM learning", in *Designing for the User Experience in Learning Systems*, Evangelos Kapros and Maria Koutsombogera (Eds.), Springer Series on Human-Computer (submitted and under review).

International Conferences

- Kosmas Kritsis, Aggelos Gkiokas, Maximos Kaliakatsos-Papakostas, Robert Piechaud, Quentin Lamerand, Carlos Acosta, and Vassilis Katsouros, "A web-based 3D environment for gestural interaction with virtual music instruments as a STEAM education tool" in the New Interfaces for Musical Expression 2018 (NIME 2018), 3-7 June 2018, Blacksburg, Virginia, USA (forthcoming).
- Renaat Frans and Erica Andreotti, "Polyphonic STE(A)M and the role of physics" in *GIREP-ICPE-EPEC 2017 Proceedings* (under review).
- Roman Schindler, Manuel Bouillon, Réjean Plamondon and Andreas Fischer, "Extension of the Sigma Log-Normal Model to Three Dimensions", in proceedings of the International Conference on Pattern Recognition and Artificial Intelligence (ICPRAI), 2018 (to appear).
- Manuel Bouillon, Fotini Simistira, Rolf Ingold, Marcus Liwicki, "DrAwME: Drawing Canvas for Music Creation A New Tool for Inquiry Learning", in proceedings of the 4th International Conference on Learning and Teaching (ICLT), 2018 (to appear).
- Aggelos Gkiokas and Vassilis Katsouros, "Convolutional Neural Networks for Real-Time Beat Tracking: A Dancing Robot Application", in proceeding of ISMIR 2017, Pgs. 286-293, 23-27 October 2017, Suzhu, China.

National Conferences

3.1.4. Talks

- Talk and project presentation to the educational/scientific community by ATHENA: 4 November 2016 in Athens, iMuSciCA project presented at the Open Schools for Open Societies Conference 2016 (prior to the project commencement date) organized by EA.
- Talk on 'Polyphonic STE(A)M' by Renaat Frans [UCLL] at the Girep conference on Physics Education at Dublin City University (04/07/2017)
- iMuSciCA is being presented in 15th Sound and Music Computing Conference (<u>http://smc2018.cut.ac.cy/index.html</u>) next summer (4-7 July 2018) by ATHENA, upon invitation by the member of iMuSciCA External Experts Advisory Board Dr. Anastasia Georgaki.
- Research Seminar by Aggelos Gkiokas and Kosmas Kritsis on "Music Technology for STEAM Education", on 8 March 2018, at Universitat Pompeu Fabra, Barcelona, Spain (https://www.upf.edu/web/mtg/news/-/asset_publisher/WM181VyAQipW/content/id/1675 92599#.WsR6-ExuKAg).

• Talk on 'How interdisciplinarity between music and science can foster problem solving and creativity' by Renaat Frans and Jeroen Vanesser [UCLL] at 26th European Association for Music in Schools (EAS) Conference 14 - 17 March 2018 Jelgava / Riga, Latvia.

3.2. Activities targeting the Educational Community

3.2.1. Presence in Repositories

 iMuSciCA is going to be presented (submitted on 13 March 2018) in the ScientIX (<u>http://www.scientix.eu/projects</u>) online community that promotes and supports a Europe-wide collaboration among STEM (science, technology, engineering and maths) teachers, education researchers, policymakers and other STEM education professionals.

3.2.2. Other Dissemination Activities

Dissemination along with communication activities of the project have also taken place through material distribution, project presentations, talks and project demonstrations to several events targeting the Educational Community, through participation in shows of educational technology profiling, actions directly targeting the teachers as well as specific activities targeting the professional development of teachers adopting STEAM. We briefly mention here the events, since project dissemination took place. For more information on communication and outreach activities in these events, see also D7.4-First Report on Communication and Outreach Activities.

Educational Technology Industry

• iMuSciCA was presented by CABRI to BETT 2018, 25-27 January 2018, <u>https://www.bettshow.com/whats-on/bett-show-2018-highlights</u>



CABRI's booth at the Bett Show

• iMuSciCA has been presented by CABRI in the biggest gathering of Cabrilog's community (CiCAudeM), 11-13 October 2017, Colombia. The event was organized by the University of Medellin.



Teacher Communities

• Teachers' workshop by EA (<u>http://openschool2017.ea.gr/?q=node/135</u>) on Teaching science and mathematics through music, in the framework of Open Schools for Open Societies Conference 2017, at EA, Athens, Greece, on 21 October 2017. Project dissemination by ATHENA and EA

	(D(n	
EDEN OPEN CLASSROOM 2017 HOME	ATHEN	Open Schools for 20-21.10.17
~ ABOUT		S Open 20-21.10.17 Societies
CONFERENCE THEMES		
PROGRAMME	TEACHERS' WO	RKSHOPS
CALL FOR PAPERS REGISTRATION	Workshop 1	
PRE-CONFERENCE EVENT	Title Schoo	Is fighting childhood obesity in Greece
	Description	According to the World Health Organisation,
	Workshop 3	
	Title Teachi	ng science and mathematics through music
	Description	Exploring possible lesson plans for secondary education IMUScICA is a pioneering approach using music for fostering creativity and deeper learning, thereby setting new grounds in the an STEAM. Workshop aims to explore possible lesson plans that
	the pro introdu	ject has to offer. By testing the usability of a number of digital tools the workshop aims also to ce teachers into the project's platform tools that are now under development and engage them
		ring creativity in science education through music. Stergiopoulos & Fani Stylianidou, Ellinogermaniki Agogi, Greece
	When 21/10,	14.30 - 18.00
TOP	Workshop 4	
TUP	Title Creati	ng MOOCS in the classroom

- UCLL presented iMuSciCA to teachers and teacher educators at the 'STEM-studiedag' for teachers organized by the KU Leuven Association (BE).
- UCLL organised an 'iMuSciCA teacher day' in the Teacher Education Department of UCLL in Diepenbeek (20/06/2017)

- Teachers' training on 14th of December 2017 and on 6th of February 2018 (in Diepenbeek) by UCLL.
- UCLL updated the website where iMuSciCA is presented as a STEAM pedagogy for the Flemish teachers <u>http://www.vakdidactiek.be/iMuSciCA_a_STEAM_Pedagogy</u>



- EA designed and published the iMuSciCA Summer School 2018 portal (<u>http://imuscica.ea.gr/</u>)
- EA organized and participated at the Open School for Open Societies EDEN conference 2017 (<u>http://openschool2017.ea.gr/</u>).

3.3. Activities targeting the Industry

 10-19 September 2017 in Greece, iMuSciCA has been presented in the 82th Thessaloniki International Fair – HELEXPO (TIF) by ATHENA. This is the most prominent innovation/industrial fair that takes place in Greece and the biggest event of its kind in the Balkan area, with emphasis on innovation in all production sectors. The event attracts a huge number of visitors from the academia, the industry and the general public.



3.4. Activities targeting the General Public

Two newspaper articles dealing with iMuSciCA have been produced by CABRI :

• on a local magazine "Fontaine-Rive Gauche" produced in 12,000 copies (July),



on the regional daily press "Le Dauphiné Libéré" produced in 40 000 copies (October). •

INNOVATION

Cabrilog, un rayonnement mondial

Créée en 2000, la start-up fontainoise est spécialisée dans les ressources numériques pédagogiques et les applications dédiées aux mathématiques. Gros plan sur cette PME qui s'adresse aux élèves et enseignants du monde entier.

 Tobjectif de Cabri est de permettre aux élèves de comprendre en profondeur les mathématiques est d'apprendre en explorant, expérimentant et résolvant des problemes, explique colles Laborde, directrice de la pédagogie et professeur d'université. Reconnus d'intrété pédagogies transportes mationale en 2010, les logicies et ressources de robiol, solucion est de la verdagogie et professeur mationale en 2010, les logicies et ressources de sont disponibles en 25 langues et comptent plus de 200 millions d'utilisateurs (tablettes, ordinateurs, web, plateforme éducative). La gamme (logicie à un esprit fudique pour faciliter la daprendre. 'L'idée principale est l'interactivité

web, plateforme éducative). La gamme (logiciels associée à un esprit ludique pour faciliter la 1,2,3 Cabri, Cabri Factory, Cabri 3D...) propose des compréhension de l'utilisateur", souligne Jean- Plus d'infos sur cabri.com



"L'objectif de Cabri est de permettre aux élèves solutions mathématiques pour les élèves et le corps Marie Laborde. Une technologie Cabri qui a fait ses preuves sur la scène internationale, aux côtés notamment de Texas instruments, de nombreux notamment de Texas instruments, de nombreux ministères de l'éducation dans le monde ainsi que des éditeurs scolaires. Concernant son actualité, Cabrilog fait partie d'un vaste projet pédagogique européen (MuScica) utilisant la musique pour favoriser la créativité et l'apprentissage des sciences et des arts. Un programme pilote qui sera d'alileurs testé à Fontaine auprès de collégiens et d'élèves du conservatoire de musique. NB

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The other dissemination activities involve the presentation of the project results in an interactive way to the general public and they are described in <u>D7.4-First Report on Communication and</u> Outreach Activities (Section 2.2.3).

3.5. Activities for the Policy Makers

Specific actions have been designed in order to disseminate the project on policy makers in specific countries.

- The iMuSciCA project was presented at opening session of the Open Schools for Open • Societies Conference 2016 on 4 November 2016 in Athens, Greece. The Open Schools for Open Societies Conference 2016 is organised by EA, EDEN, and the Greek Institute for **Education Policy.**
- For Greece, ATHENA and EA has sought permission from the Greek Institute for Education • Policy to announce the project in All Greek schools and invite them to participate. Access has been granted and an official Circular disseminated the project, along with its announcement on the site of the Greek Ministry of Education (November 2017).
- The group Vakdidactiek of the UCLL is leader of the large Flemish Learning Network on STEM Education, under commission of the Flemish Ministry of Education, with which the group has direct contacts. iMuSciCA has been presented during events organized in the frame of this Flemish Network on STEM Education and a selection of the related material have been included in the examples of STEM activities on the website of the network.

3.6. Activities for Informal Learning Centres

The project considers as stakeholders also informal learning centres, including libraries, cultural institutions, museums and science centres.

• In Greece there have been discussions between ATHENA with the Onassis Cultural Centre (<u>http://www.sgt.gr/eng/SPG1/</u>?). It has been agreed and planned towards the end of 2018 to run iMuSciCA interactive workshops at their premises

3.7. Concertation Activities

Concertation Activities with other ECT funded projects have already taken place by the participation of consortium members in related events and the presence of the project co-ordinator in the Advisory Board of the project HubIT.

- Presentation by ATHENA and CABRI in the concentration action: Luxembourg, 27 March 2017, iMuSciCA at the participatory meeting of all H2020 projects in the field of Digital Learning managed by unit G3 Learning, Multilingualism & Accessibility, DG CONNECT.
- [ATHENA] 8 November 2017 in Budapest, HubIT First Advisory Board Workshop (<u>http://www.hubit-project.eu/en/events/hubit/advisory-board-workshop--/</u>) presented aspects on Rensonsible Research and Innovation (RRI) from experiences of involving schools, teachers and students in activities of the iMuSciCA project.

