D8.1 - Dissemination Activity in the MICHELANGELO Project

Michelangelo Project - “Patient-centric model for remote management, treatment and rehabilitation of autistic children”

Version 3

Document Information

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1. The MICHELANGELO logo

A logo is the identity of the project. This logo is included in all the documents, flyers, leaflets, presentations and website. One of the first tasks of the dissemination package was to create some designs of logos to be approved by the Michelangelo partners. A proposal of three different logos was presented in Milan and suggestions were done by all partners. Voting was then done via email between 3 other logos and an agreement was reached between all the partners. The following logo was then chosen and distributed to all partners.

![Logo Image]
2. Dissemination activities addressing the scientific and medical communities

Dissemination activities addressing the scientific and medical communities consisted in publication of scientific articles and papers, participation in national and international seminars, organization of conferences, involvement in “concertation workshops”, creation of a mailing list and dissemination of printed material related to the project.

2.1 Articles & Papers

Publication of articles, reports and press releases in scientific and technical journals and in medical magazines were issued periodically and intended to disseminate the Michelangelo achievements to the scientific and medical communities.

Some of these articles are listed hereunder:

- Billeci L., Pioggia G., Brunori E., Crifaci G., Tartarisco G., Balocchi R., Maestro S., Morales M.A. - Wearable sensors combined with wireless technologies for the evaluation of heart rate and heart rate variability in anorexia nervosa adolescents
- Donnelly M., Cruciani F., Galway L., Nugent C, Paggetti C., McCullagh P., Tamburini E. and Chen L. – A dynamic annotation tool to support in-home autism intervention
- URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6610057&isnumber=6609410
- Billeci, L., Tartarisco, G., Narzisi, A., Baldus, G., Corda, D., Muratori, F., Pioggia, G., Exploring the interplay between autonomic activity and behaviors in children with Autism Spectrum Disorder (ASD) through a multisensorial platform for the continuous monitoring of physiological signals, IMFAR Annual Meeting 2013 – Poster download
- Delaherche, E., Chetouani, M., Bigouret, F. Xavier, J., Plaza, M. and Cohen, D. – Assessment of the communicative and coordination skills of children with Autism Spectrum Disorders and typically developing children using social signal processing
- Narzisi, A., Muratori, F., Calderoni, S., Fabbro, F. – Neuropsychological Profile in High Functioning Autism Spectrum Disorders
- Narzisi, A., Calderoni, S., Maestro, S., Calugi, Simona., Mottes, E., Muratori, F. – Research in Developmental Disabilities
- Peter Bandettini, - Female children with autism spectrum disorder – Epidemiology and Psychiatric Sciences,
- M. Bellani, S.Calderoni, F. Muratori, P. Bambilla, - Brain anatomy of autism spectrum disorders – Epidemiology and Psychiatric Sciences, M. Bellani,
dimension (spatial 3D+time) environment during a joint attention induction task”. In: Research in Autism Spectrum Disorders 2014; 8: 814–826.


2.2 Participation in relevant national and international seminars

During the project’s lifetime, various partners attended and participated in relevant national and international conferences.

2015

At the end of project the medical partners (Assistance Publique Hopiteaux de Paris, in France and Fondazione Stella Maris, in Italy) organized two national conferences to spread the final Michelangelo achievements, both with the title: AUTISM AND NEW TECHNOLOGIES – The MICHELANGELO Project.

➢ Pisa – Italy, 24th March 2015

Autismo e nuove tecnologie: il progetto Michelangelo

Tuesday March 24, 2015 – Pisa – Auditorium “Virgo Fidelis”
v.le del Tirreno 341, Calambrone

Organized by Fondazione Stella Maris with the cooperation of Autismo Pisa onlus.

➢ Paris – France, 16th March 2015

Autism & Nouvelle Technologies. Le project Michelangelo

Monday March 16, 2015 - Paris
Espace Reuilly – 21 rue Hénard
Organized by ISIR, UPMC, IFRH, AP-HP with the cooperation of CRAIF.
2014

- **Belfast - Northern Ireland, 2nd December 2014**
  
  **UCAmI & IWAAL Conference**

  Organization of Workshop "Exploiting ICT And Other Technologies For Assessing And Treating Children With Autism". The workshop was split into two Parts: “The Technological View” and “From research to medical practice – Round Table”.

- **Rome – Italy, 16th-17th October 2014**
  
  **NIDA Conference "Non invasive tools for early detection of Autism Spectrum Disorders"**

  Oral presentation titled “ICT-based methods for the evaluation of visual and physiological features of early autism: the MICHELANGELO project” by Lucia Billeci.

- **Paris - France, 3rd-4th October 2014**
  
  **ITASD 2014 Paris Conference**

The 2nd International Conference on Innovative Technologies (IT) for Autism (ASD) was held in Paris at the Pasteur Institute on October 3-4, 2014. The theme of the Paris event was: “Digital solutions for people with Autism” i.e. “how digital technologies can be used to improve the daily lives of people with autism”.

The MICHELANGELO project was very well represented at the conference with five papers and two posters:


- Lucia Billeci; Crifaci G.;Narzisi A.; Campatelli G.; Pioggia G.; Muratori F.: *Eye-tracking technology to assess joint attention deficit in children with Autism Spectrum Disorders*

- Antonio Narzisi; Tilmont, E; Jouen, A; Cohen, D; Muratori F.: *Patient-Centric Model for Remote Management, Treatment and Rehabilitation of Children with Autism: Michelangelo Project Study Protocol*
- Federico Cruciani; D’Amico, D; Donnelly, MP; Galway, L; Paggetti, C, Nugent, CD, Tamburini, E.: *The Dante System: A Video Annotation System to Support the Therapist in Behavioural Assessment*
- Valentina Bono ; Jouen AL ; Narzisi A ; Jamal W ; Tilmont E ; Maharatna K ; Cohen D. ; Muratori F.: *A Novel Serious Gaming Platform for Patient-centric Characterization of ASD children*
  
  o POSTER 1: Donnelly, MP; Galway, L; Cruciani, F; Raptis, S; Nugent, CD, McCullagh, PJ, Lightbody, G, Paggetti, C and Bonfiglio, S.: *The MICHELANGELO Platform: A Simple Framework to Support Engagement with Complex Technologies*
  o POSTER 2: Tonacci A; Corda D; Billeci L; Narzisi A; Muratori F; Pioggia G.: *An unobtrusive platform for the monitoring of the autistic child at home*

➢ **Toulouse – France, 11\textsuperscript{th}-12\textsuperscript{th} September 2014**

**COST ESSEA Conference**

![ESSEA](image)


➢ **Atlanta – USA, 14\textsuperscript{th}-17\textsuperscript{th} May 2014**

**IMFAR 2014 Conference**

2013

- **San Diego - USA, November 2013**
  
  **6th International IEEE EMBS Neural Engineering Conference**


- **Naples - Italy, September 2013**
  
  **ICIAP Workshops 2013**

  A paper by Anzalone, A. and Chetouani, M., entitled “Tracking posture and head movements of impaired people during interactions with robots” was presented during the ICIAP Workshops 2013 held in Naples, Italy in September 2013.

- **Grenoble - France, 22nd–23rd August 2013**
  
  **WASSS 2013, Workshop on Affective Social Speech Signals**

Osaka - Japan, 3rd-7th July 2013

35th Annual International Conference of the IEEE

A paper by W. Jamal, S. Das, and K. Maharatna, entitled “Existence of millisecond-order stable states in time-varying phase synchronization measure in EEG signals,” in Engineering in Medicine and Biology Society (EMBC) was presented during the 35th Annual International Conference of the IEEE, held in Osaka International convention centre, Osaka Japan from the 3rd to 7th July, 2013.

URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6610057&isnumber=6609410

Brussels - Belgium, 11th-13th June 2013

COST Workshop on Social Robotics

A paper by Chetouani M. and Cohen D. entitled “Social intelligence and Personal robotics in Cognitive Impairments” was presented at the COST Workshop on Social Robotics. The workshop was entitled "The future concept and reality of Social Robotics: challenges, perception and applications - Role of Social Robotics in current and future society and was held on Tuesday 11 - Thursday 13 June 2013 at the International Press Centre (IPC), Résidence Palace, Brussels, Belgium

San Sebastian - Spain, May 2nd-4th 2013

IMFAR 2013 International Meeting For Autism Research

Michelangelo was represented during the IMFAR 2013 International Meeting for Autism Research. This international meeting was held in Basque Country, Spain – May 2-4, 2013 where Dr. L. Bileci presented a paper.
2012

➢ **Lipari - Italy, 23rd September 2012**

*Early Screening and Interventions for Autism: The impact of novel Technologies and Methodologies.*

This international event was organized by the Municipality of Lipari and by the PRIMA PIETRA Project. The PRIMA PIETRA Italian project is focused on early diagnosis and intervention providing Early Start Denver Model (ESDM) through the use of tele-rehabilitation.

The program of the Conference included a presentation of the MICHELANGELO Project, a European research project of the 7th Framework Program, developing a patient-centric home-based intervention requiring a minimal human involvement and therefore extremely cost effective and – similarly to Prima Pietra – intending to bring the assessment and the therapy of autism spectrum disorder (ASD) out of the clinical environment.

➢ **University of Hamburg - Germany, 13th-15th September 2012**

*Workshop IEEE MFI 2012*

MICHELANGELO participated to the “Workshop on new multi-sensor devices for remote management of disease” that is included in the Program of the 2012 IEEE International Conference on Multisensor Fusion and Information Integration (MFI 2012).

During the workshop the objectives and the first results of Michelangelo were disseminated: Bonfiglio S., Introduction to the Michelangelo Project - Oral presentation plus Round Table
The First International Workshop on Wide Spectrum Social Signal Processing was held in conjunction with the 2012 ASE/IEEE International Conference on Social Computing SocialCom. During this workshop a paper was presented by Laurence Chaby, Mohamed Chetouani, Monique Plaza and David Cohen entitled: “Exploring Multimodal Social-Emotional Behaviors in Autism Spectrum Disorders”.

Paris - France, 21st-25th July 2012

20th World iacapap 2012 Congress

David Cohen, a Partner of the MICHELANGELO Project, was the Organizing Committee President of this congress which provided a good backdrop for disseminating the Michelangelo project.

The MICHELANGELO project was represented at IACAPAP 2012 through:

- A paper “Update on treatment in ASD” presented by Prof. Filippo Muratori
- A paper presenting the objectives and the concepts of the project (“MICHELANGELO, an European research project exploring new, ICT-supported approaches in the assessment and treatment of autistic children”); it was part of the Symposium “Social signal computing and Autism Spectrum Disorder” chaired by Dr. Mohamed Chetouani of the University Pierre et Marie Curie of Paris;
Valencia - Spain, 6th-8th July 2012

The ITASD Conference

The 1st international conference on innovative technologies it for people with autism spectrum disorders was organized by Fundación Orange, Autism Speaks and Fundación Adapta (which is linked to the University of Valencia).

The MICHELANGELO Project was represented by two papers and one poster

- "A patient-centric model for the remote management, treatment and rehabilitation of autistic children" - Authors: S. Bonfiglio, D. Cohen, A. Giuliano, K. Maharatna, F. Muratori, M. Donnelly, C. Paggetti, G. Pioggia;

Artimino - Italy, 12th -15th June 2012

ICOST 2012 conference

Michelangelo Project was represented at the ICOST 2012 conference, which not only attracts clinical experts, research opinion leaders, industrial partners and service providers from across the world, but also involves national government representatives and regional decision makers.

In particular ICOST 2012 focused on the following topics:

- Health technology assessment
- Best practice analysis discussed and presented by stakeholders
- Studies detailing large scale services deployment and impact evaluation
- Health economic evaluation of technology based solutions
- Business model re-engineering in healthcare based on early discharge approach.
- Challenges for truly ‘smart homes’
- Technology solutions to inspire the policy makers
- Cross border experiences for chronic disease management and continuity of care
Toronto - Canada, 17\textsuperscript{th}-19\textsuperscript{th} May 2012

Imfar-2012 International Meeting for autism research

IMFAR 2012 provides ASD researchers from around the world with a focused opportunity to share the rapidly moving scientific investigation of ASD.

A poster related to MICHELANGELO was presented by CNR-IFC. CNR presented also a paper related to the first outcomes of the “LA PRIMA PIETRA” Project, a currently running project in Messina, Italy cooperating with MICHELANGELO.

2.3 Collaboration with other Projects

Thon Brussels City Centre Hotel, Brussels, 25\textsuperscript{th} September 2013

A Concertation Workshop with other relevant European Funded projects was organized at month 14 as part of dissemination activity in WP8. FIMI and Across Limits were responsible for the organization of this workshop which took place on Wednesday, 25\textsuperscript{th} September 2013 at the Thon Brussels City Centre Hotel in Brussels.

The aim of this workshop was to discuss together with a small group of projects how to collaborate together on joint research interests and areas. The projects that were presented during this workshop were:

FP7-ICT Projects:
- ARMOR
- ASC-Inclusion
- CareToy
- MICHELANGELO
Leonardo (part of the Lifelong Learning Program):
  - STAMPPP

Italian Regional Projects
  - Early Autism Spectrum Diagnosis
  - Prima Pietra

The projects involved in the September 25, 2013 Meeting deal with neurological disorders and some of them are specifically related to autism (ASC Inclusion, Prima Pietra, STAMPPP, MICHELANGELO, Early ASD Diagnosis).

Some of them were stating their third and last year of activity; these are the ARMOR, ASC Inclusion, CARETOY and MICHELANGELO projects. Therefore cooperation for them was useful mainly in sharing the achieved technological and medical results, in the dissemination activities and creation of awareness, in exploring exploitation paths, in validation protocols and in ethical issues.

The intention of this first MICHELANGELO Concertation Meeting was to discuss issues of common interest for European and National Projects devoted to eHealth and specifically addressing neurodegenerative diseases. The objective was to reinforce networking among projects in the same thematic area, to know each other and to optimize the impact and dissemination of the projects’ outcomes.

The European Commission is fostering synergy among the various projects addressing similar topics; this is also a goal of the MICHELANGELO Project.

Regardless of the differences in the specific themes of the Projects, there are various areas where a tight cooperation could maximize the results each individual Team achieved:
  a. sharing of knowledge in various domains both in the fields of medicine and technology;
  b. dissemination and raising of the public awareness at all levels through common events / initiatives,
  c. market analysis and joint initiatives for an effective exploitation of the results, including common standardization efforts.

For this reason MICHELANGELO continued to organize and/or participate to other initiatives aiming at establishing a fruitful link with other European and National Projects.

Some of them are:

- **Clustering Workshop eHealth and the Brain - ICT for Neuropsychiatric Health** - organized by the European Commission DG CONNECT

  **Brussels, 5th November 2013**

  with various projects such as ARMOR, COGWATCH, CUPID, MICHELANGELO, SENSE PARK, VPH-DARE@IT.
Bilateral meetings with other projects during the ICT2013 Event (ICT 2013 - Create, Connect, Grow)

Vilnius - Lithuania, 6th-8th November 2013

In November, 2013 Michelangelo had a stand during the ICT 2013 fair where more than 4000 researchers, innovators, entrepreneurs, industry representatives, young people and politicians went to Vilnius. It was a great opportunity to share vision for the future and see the latest advances in EU-funded ICT research. Michelangelo brochures and leaflets were distributed to those present during the three days of the fair.

2.4 Mailing List

A mailing list consisting of contact details of more than 60 associations and NGO’s from different EU member states related to autism was created under the project partners’ supervision. The main objective of this mailing is to inform these entities on the progress of the Michelangelo project and keep an open forum on the progress of the Project and on the actual user benefits resulting from the project.
2.5 Printed Dissemination Material

To further disseminate the Michelangelo project to the scientific and medical communities, the project consortium produced a leaflet in the three languages of the project EN, IT, and FR.
What is MICHELANGELO?

MICHELANGELO is a research project funded by the European Commission (FP7-ICT G.A. # 288241); it intends to move the assessment and the treatment of children with Autistic Spectrum Disorder (ASD) from the clinical setting to the more "natural" home environment where non-invasive techniques will be used to ensure a timely assessment of the evolution of the disease and the prompt adoption and personalisation of the treatment.

To do this, the project explores ICT and other advanced technologies. At the same time the proposed method aims to enhance the effectiveness of treatments through its "immanent" and "personalisation", which matches individualised treatments to the characteristics of each autistic child.

The results of the MICHELANGELO research work will be validated through an exploratory study in France and Italy.

Why?

The prevalence of ASD is the young population is increasing in the USA: a prevalence of 1 case in every 68 children is reported and - even if there is a lack of consolidated data - the situation is similar in Europe.

This trend has a considerable impact both from a social and an economic perspective: the average lifetime cost for a person with autism was evaluated in the order of 1.5 to 6 million Euros and ASD has significant consequences, not only for the patient but also for all the family members.
3. Dissemination activities addressing the industry, the institutions and the financial community

3.1 Workshop

Several events happened throughout the project lifetime in order to be able to continue the dialogue with the relevant stakeholders. A Workshop was held in Malta targeting educators. The objectives of this meeting were to collect feedbacks, to raise awareness, to get inputs for further developments. The workshop was held at a special needs school, “The Guardian Angel school” in Hamrun, Malta on the 1st of October 2012 from 10:00hrs to 12:00hrs. The reason why a small number of teachers attended was because the others were needed in their respective. The workshop started Angele Giuliano giving a brief overview of the aims and objectives of the Michelangelo project. A set of questions were then distributed to the teachers present and discussed. The results of the questions were analysed and condensed in a report.
3.2 Printed Dissemination Material

Michelangelo Flyer & Poster

The flyer and poster include general information about the project with the text agreed on and finalized by the consortium partners; the first draft of the flyer and poster was done based on the design of the website to keep consistency and standardisation of all the dissemination tools. They contain information about the project aims and objectives and are available both in an electronic format and printed format. Each partner printed his own flyer and posters translated in their own language and distributed them in conferences, events and workshops. The flyer and poster are available in the following languages: English, French and Italian.

Leaflet

To further disseminate the Michelangelo project a leaflet with general information about the Michelangelo was created.
Roll up

The portable roll up that was created to be used in international conferences events and other dissemination activities.
**Brochures for exploitation purposes**

To support the exploitation of the MICHELANGELO solutions two brochures were prepared, one related to the overall system and the second one devoted specifically to the DANTE system in the Clinical Center.
Newsletter

Michelangelo project’s steps were spread through Acrosslimits Newsletter that is sent to 10,000 contacts in all over Europe:

Newsletter Edition 27, October 2011
Newsletter Edition 28, March 2012
Newsletter Edition 30, October 2012
Newsletter Edition 32, July 2013

See Annex for more details
4. The MICHELANGELO web site

The Michelangelo website www.michelangelo-project.eu was up and running in January 2012 which corresponded with month 3 in the Michelangelo project as stipulated in the DOW. The main working language of the website is in English with translation in Italian and French. In agreement with all the partners the website is kept as clean as possible with five main sections: Home, About the Project, News & Events, Discussions, Resources and Contact Us. Under each heading sub menus could be found with further information, articles and papers related to the Michelangelo project. It was decided that the discussion section be removed as it was too time consuming to have someone on hand all the time to moderate the online forum and discussions. Acrosslimits had the responsibility to keep the website constantly updated and to intermittently ask the medical partners for content to be put on the website.

During the second year of the project the Michelangelo website was given a fresh look with ten new banners on the home page.

The sections on upcoming news & events, articles and papers by the Michelangelo consortium are constantly updated by the Acrosslimits technical team. A new page was created after the Concertation Workshop in Brussels to disseminate other related project. This page can be found under ‘Collaborators’ in the Resources page. Papers by colleagues from the projects that attended the Concertation Workshop were also uploaded under ‘Other publications’ in the Resources page.
4.1 Website Statistics

In the second part of 2014 – by following the recommendations of the EC Reviewers – we added a new section addressed to the parents of the autistic children. It is in three languages (English, Italian and French) and includes:

- A letter to the parents,
- Useful links,
- FAQs

The goodness of this focused action was demonstrated by the latest statistics related to the access of the web site: while up to December 2014 we had a cumulative number of accesses of 4.2 K, in the last quarter (January-March 2015) the cumulative accesses grew up to 5.9 K i.e with an increase of 1.7 K (+40%) in only three months (see figure).

It is interesting also to notice the geographic distribution of the accesses: 17% are from countries outside Europe (USA, Brazil, Philippines and Canada).
Conclusion

This deliverable collates the dissemination activities and tasks as proposed in the DOW for the period 1st October 2011 to 31st May 2015.

The main disseminating tool for the Michelangelo project was the Website that during the three years has had a growing number of accesses: 5,891 visitors of which The 67.61% of new sessions augurs well 17% are from outside Europe.

The participation of the members belonging to the partner organizations in international conferences and meetings - that was constantly highlighted on the website - and the publication of articles in scientific journals have ensured a continuous attention to the activities of the project. Meetings with other experts and with a more heterogeneous public allowed a constructive discussion and contributed to the spread of the project beyond the scientific community, as in November 2013 when Michelangelo had a stand during the ICT 2013 fair in Vilnius where more than 4000 researchers, innovators, entrepreneurs, industry representatives, young people and politicians participated.

Michelangelo project achievements were spread in March 2015 thanks to two final conferences organized in Paris (France) and in Pisa (Italy) for disclosing the outcomes of the research work and sharing ideas about new solutions and new paths explored by the project. These two conferences were mainly addressed to the medical professionals and to the families of the autistic children, whereas the scientific community was reached during the month of December when the MICHELANGELO Consortium organized a Workshop in Belfast.