magic Glass

Meet the supplier

Ancona

20 March 2017

Tech4Care
Nuove tecnologie per l'assistenza

Ulster University

miThings

Magic Glass is part of the MAGIC project that has received funding from the European Union's Horizon 2020 Research and Innovation Programme.
Information and opinions expressed are reflecting only MAGIC GLASS partners' views.

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Outline of the talk

1. The MAGIC-GLASS solution
2. Who are we and how we are working together?
3. Project update; achievements at March 2017
4. Expected results at the End of Phase 1?
5. Conclusion

The solution/1

- The MAGIC-GLASS project aims to develop an innovative **home rehabilitation solution** for rehabilitation activities of stroke survivors.

- MAGIC-GLASS will exploit the potential of **digital glasses** for **augmented and virtual reality**, which will allow the patient to perform physical and cognitive rehabilitation at home by means of **serious games** grounded on the **mirror-therapy approach**.

- The MAGIC-GLASS intervention model is based on the development of an **enhanced individual rehabilitation plan** (EIRP) for each patient, whose direct benefits include increased **motivation**, rehabilitation **opportunities**, **adherence** to the plan and remote **interaction** with clinical staff, family carers and other player-patients involved in the network.

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The solution /2

- **The MAGIC-GLASS solution includes:**

a) **INTEGRATED HARDWARE PLATFORM**, assembling available, off-the-shelves devices for movement detection and digital glasses enhanced with Augmented Reality (AR) and Virtual Reality (VR);

a) **COLLECTION OF MINI-GAMES** to be played combining AR, VR, movement tracking and Quick Response (QR) codes placed around the home (using a Pokémon-go like approach);

a) **MODULAR WEB PLATFORM AND RELATED INTERFACES**, to which clinical staff, patients and family carers can get access to medical records, patients' self-assessments sessions and performances obtained during rehabilitation sessions;

a) **VIRTUAL COMMUNITY** of stroke survivors that enables text, audio and video interaction with other patients, clinical staff and family carers.

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The solution /3

- **Expected improvements:**

I. **Body structure and function**: Physical activity as measured by mobility (e.g. 10 m walk test) and/ or balance (e.g. Berg balance test. , and/ or range of motion (e.g. measures in Degrees and/ or muscle power (measured by oxford grading scale) and/ or co-ordination

II. **Activity participation**: INTENSITY AND DURATION OF REHABILITATION (minutes per day), INDEPENDENCE IN ADL

III. **Environmental context**: GENERAL HEALTH AND WELL-BEING (EuroQol, EQ5D), STROKE SPECIFIC QUALITY OF LIFE, SOCIAL OUTCOMES (Subjective Index of Physical and Social Outcome, SIPSO), USABILITY (system usability scale, SUS), ECONOMIC OUTCOMES (Client Socio-demographic Receipt Inventory, CSRI)

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How we will work together?/1

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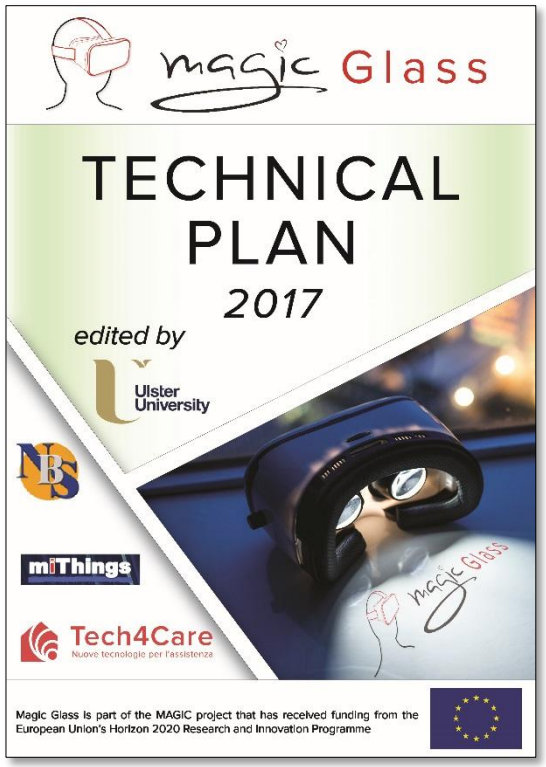
How we will work together?/2



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How we will work together?/3

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Lead partner

INRCA
Istituto di Ricovero e Cura a Carattere Scientifico
HEALTH AND SCIENCE ON AGING

Ulster University

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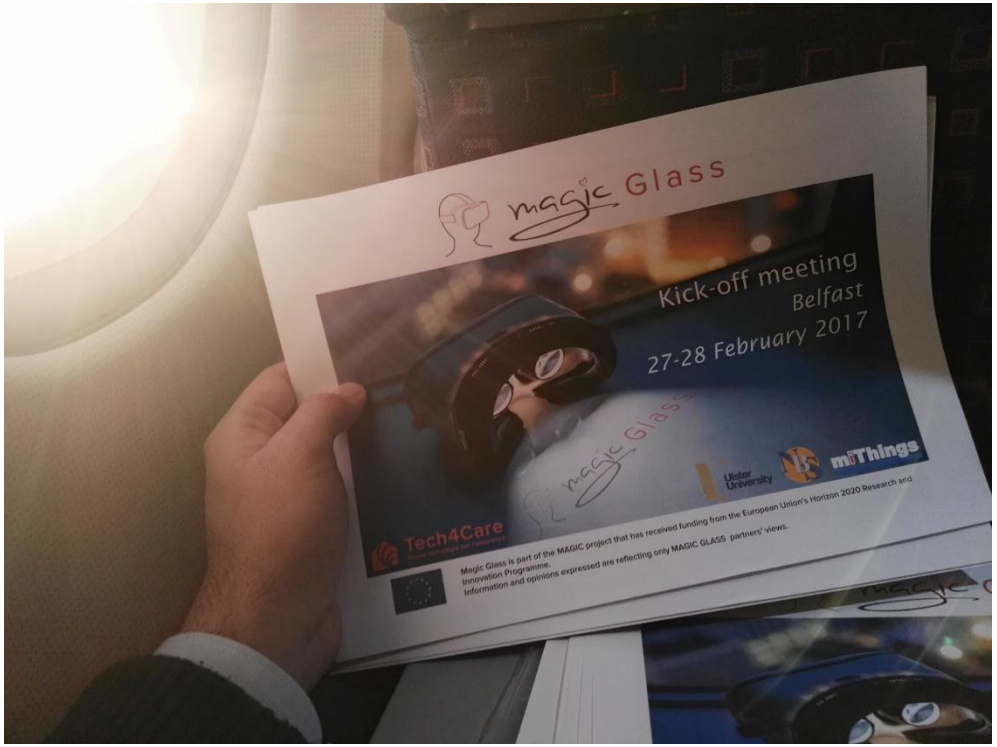
Project update March 2017/1

1. Kick-off meeting in Belfast
2. Agreed on a preliminary outline for the:
    1. Technical Plan
    2. Business Plan
    3. Risk Managment Plan
3. Review of the literature
4. Started the work on the deliverables (esp. Market Analysis, Customer segments, Unique Value Proposition, etc.)
5. But, most of all…



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Project update March 2017/2

We extensively engaged with users to fully understand their:

- Acceptability
- Perception
- Ideas

Belfast, February 27th

Macerata, Acceptability test, March 14th

Ancona, March 18th

Ancona, VR Open Day March 18th

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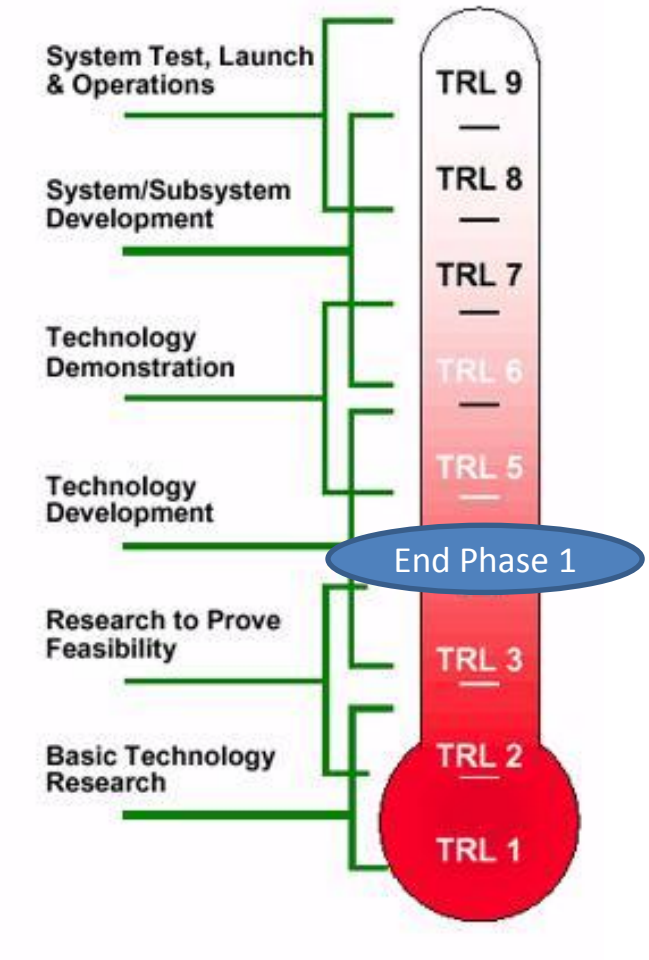
Expected results end Phase 1

- Define the MAGIC-Glass technical solution, ready for prototyping
- Finalize a definitive collaboration agreement among partners
- Finalize contacts with hardware suppliers
- Test some of the features of the VR prototype with healthy volunteers and with stroke survivors with stable clinical conditions.



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Conclusions

	February				March					April				May					June				July			
	(1-5)	(6-12)	(13-19)	(20-26)	(27-5)	(6-12)	(13-19)	(20-26)	(27-2)	(3-9)	(10-16)	(17-23)	(24-30)	(1-7)	(8-14)	(15-21)	(22-28)	(29-4)	(5-11)	(12-18)	(19-25)	(26-2)	(3-9)	(10-16)	(17-23)	(24-31)
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Action 1. Management & Quality control (T4C)																										
Meetings																										
Administrative Management																										
Technical Management																										
Quality Assurance																										
Action 2. Technical plan (ULSTER)																										
Hardware infrastructure																										
End-user interface																										
Virtual social community																										
Interface with healthcare providers																										
Magic general requirements																										
Tuning on the basis of the suppliers' feedback																										
Action 3. Risk register and risk mitigation (T4C)																										
Risk and ethical issues identification																										
Risk mitigation strategy																										
Action 4. Final use-cases and business plan (T4C)																										
Use case definition																										
Business plan_Products and Services																										
Business plan_Market Analysis Summary																										
Business plan_SWOT Analysis																										
Business plan_Commercialization plan																										
Business plan_Strategy and Implementation Summary																										
Business plan_Company and Management Summary																										
Business plan_Financial Plan																										

Gone!!!!!!

GRAZIE!

c.chiatti@tech4care.it

333-4806388