AIDAPT S.r.l.

Unlocking the potential of artificial intelligence in medicine

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STARTUP INFORMATION
Innovative startup
Year of establishment: 2021
Stage Business development: growth
Share capital: € 10.000

TEAM
4 Software engineers
1 Biomedical engineer
1 Full Professor

VISION

We are an innovative startup and academic spin-off of the Università Politecnica delle Marche that designs and implements high-tech monitoring solutions to promote digital innovation in healthcare. Our mission is to bring to the market innovative applications that make medicine increasingly connected, personalised and in dialogue with research, which needs, now more than ever, structured, organised and shared data.

HOMELY CARE

Homely Care is the first product from AIDAPT S.r.l., consisting of a system that monitors, in an objective and non-invasive manner, the progression of speech disorders in patients suffering from neurological diseases, such as Amyotrophic Lateral Sclerosis (ALS) and Multiple Sclerosis (MS). One of the characterizing signs common to these diseases is dysarthria (loss of the ability to articulate words in a normal manner), a disorder with a devastating impact on the patients, their families and the facilities that follow them. Medically, there are no effective cures against these diseases. However, several treatments are practiced to slow the evolution of the disease, which require a close monitoring of the patient. To this end, the patient must make periodic visits to specialized centers, during which the Robertson Dysarthria Profile is applied (assessment scale covering the main aspects related to dysarthria). These evaluative visits, although essential, have several limitations, including:

- The need, for the patients (often forced to partial or total immobility), to physically travel to specialized centers;
- The usage of evaluations carried out without the aid of any instrument, based solely on the sight and hearing of the clinician, and therefore also conditioned by their mental state and their experience;
- The poor management of the data collected, often kept only on paper.

The goal of Homely Care is to provide clinicians with a useful support tool to promptly identify functional changes in patients, accelerating the implementation of any corrective strategies and reducing their stress level at the same time. To access the service, the patient simply has to install a web application on their device (smartphone, tablet, PC) which, through the integrated camera and microphone, records the execution of some simple activities described from time to time. The recordings thus collected are then transferred to a cloud environment, where a group of artificial intelligence algorithms analyze them, extracting clinically relevant parameters. This information is then made available, in the form graphs, to clinicians in a dedicated web platform.

Homely Care's high technological content makes this product unique in its field. In Italy the adoption of entirely software solutions in the healthcare field is growing in recent years, however the use of solutions based on artificial intelligence is still not widespread, and is mainly concentrated in the biomedical image processing (X-Ray, Magnetic Resonance Imaging, etc.).

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INFORMAZIONI SOCIETARIE
Startup innovativa
Anno di costituzione: 2021
Fase Sviluppo impresa: crescita
Capitale sociale: € 10.000

TEAM
4 Ingegneri informatici
1 Ingegnere biomedico
1 Professore ordinario

BUSINESS MODEL

Homely Care will be provided as a subscription service to public and proven healthcare facilities, which includes the license for use, maintenance and assistance and the computetion cost for each patient to be monitored, plus an initial fixed cost for access configuration and data security and protection management. The marketing plan foresees to start strategically with the hospital "Ospedali Riuniti di Ancona" as a customer, with whom we are already collaborating for the validation of the product, to which the product will be granted at a discounted price (issuing them the user license for free and a discount on the initial configuration cost). Subsequently we will expand our market of action by proposing the product, tested, to other hospitals.

We are also evaluating the possibility of collaborating with pharmaceutical companies and hospitals to provide on-demand data analysis services for their research activities.

TARGET

Currently, our focus is directed to clinical facilities, which need a product capable of:
- objectively evaluate the evolution of dysarthria in a patient;
- perform intelligent remote examinations, without the need for the presence of the clinician during the session;
- obtain digital data, structured and persistent, usable later for scientific research on these diseases;
- actively involve their patients for a greater number of sessions.

Our goal in the short term is to be able to test the entire system, providing it to the first facilities at a subsidized price. This market segment will probably not remain so for the medium-long term or, at least, will not be the main source of revenue, precisely because, as described above, we are evaluating the possibility of providing data analysis services on demand for the research activities of pharmaceutical companies.

FUTURE DEVELOPMENTS

The philosophy of Homely Care is to make available to the clinician a range of distinct tasks increasingly broad and able to collect progressively new measures. This, together with the deep customization granted to the clinician regarding the selection and order of tasks, referred to each patient, will allow to extend the pathologies monitored by this tool.

Moreover, all data collected through the app and anonymized, will be able to be used for scientific research. In fact, their objective and structured nature (also thanks to the tag system managed by clinicians) will make them of great help to public and private research centers.