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Project Profile

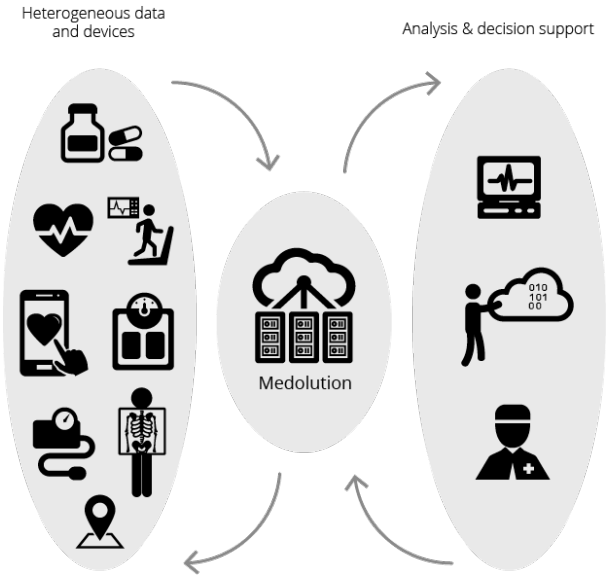
Medolution

Medical care evolution

Medolution proposes improvements to the patients' quality of life while in parallel reducing the cost of healthcare. The project aims to create smart environments that integrate professional and user created data, leading to relevant information that supports patients and healthcare professionals in their reactive and proactive decision-making on diagnosis, treatment and further monitoring.

ADDRESSING THE CHALLENGE

The landscape of care is changing rapidly: the population as a whole is ageing and at the same time people (patients) live longer, often with one or more chronical diseases, causing structural increased cost of healthcare. In combination with these trends, the virtualisation of care develops at high pace and intensity. This results in large amounts of heterogeneous, clinically relevant data becoming available for health professionals and patients, in great technical variety, from many sources. All this information needs to be handled and managed promptly. These are the fundamental challenges for care providers, public authorities, but also for patients, which Medolution addresses in an integrated way.



Medolution connects and combines many medical data sources with many medical applications

PROPOSED SOLUTIONS

Current solutions target mainly a one-to-one data flow, where data input from a single sensor is being utilised as information towards a single specialised application, mostly for a single (or limited number of) patient(s). Medolution allows scaling to millions of patients in parallel, supporting information flows from a multitude of sensor devices to many specialised medical applications. Medolution will deliver the methods and systems to connect these medical applications, addressing many varying diseases in parallel to serve a large number of patients and clinicians.

This will provide effective support to healthcare professionals, combining a large amount and variety of enriched and accurate information and tools, based upon relevant healthcare information extracted from data originating from diverse sources for effective interpretation. Medolution will provide collaborative cloud access to medical information that is relevant for long-term monitoring and short term decision support.

PROJECTED RESULTS AND IMPACT

Medolution will deliver a platform that brings the various relevant medical information to health professionals and patients at the right time, at the right place, in the most effective, intelligent and cost-effective way.

The platform integrates control of heterogeneous devices and provides decision support and visualisation of real-time and long-term image and data analytics. The platform mainly accommodates services deployed on the cloud. The project will prepare several case studies and demonstrators showing the feasibility in healthcare settings.

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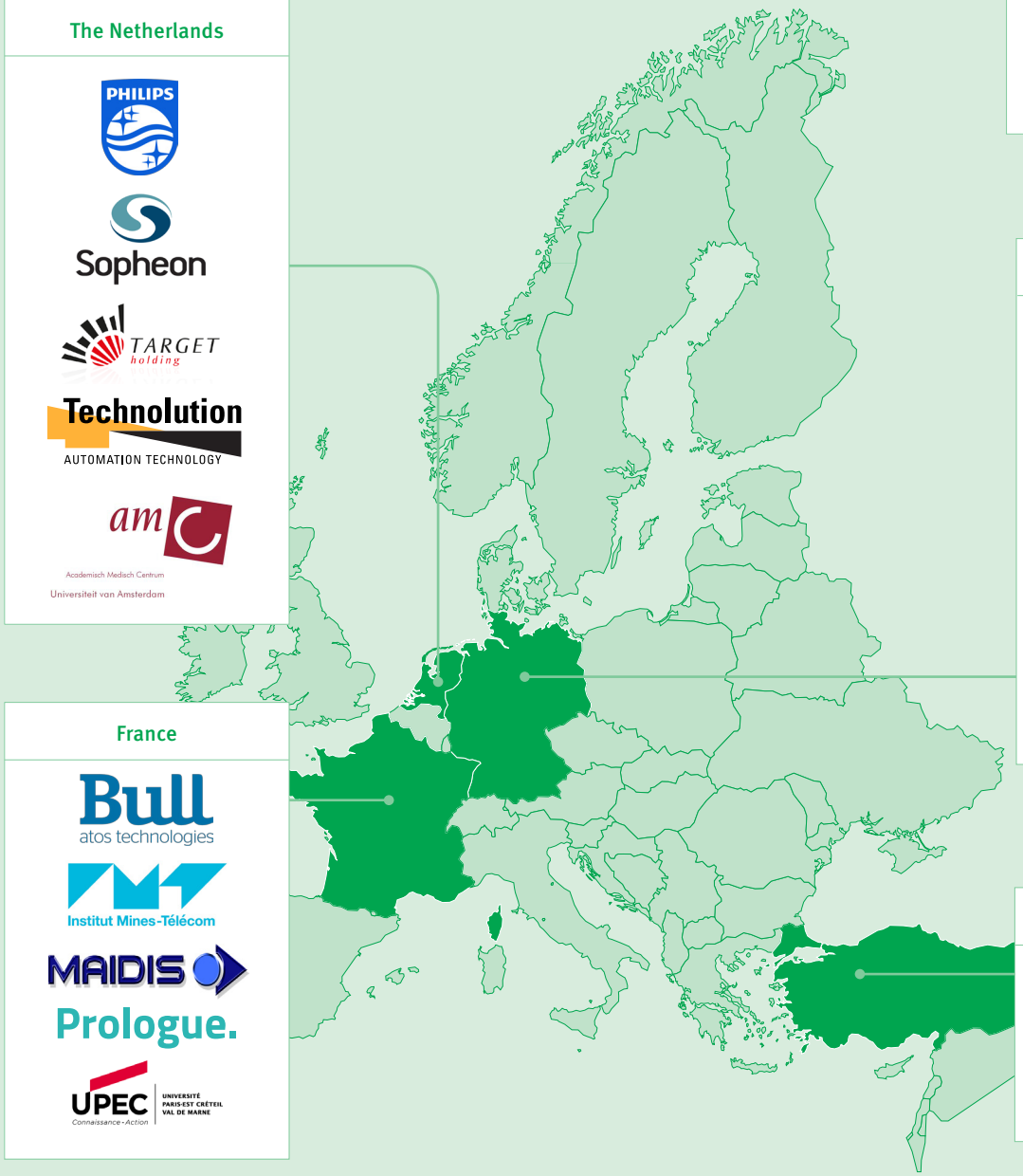

Project start
December 2015

Project end
May 2019

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ITEA is the EUREKA Cluster programme supporting innovative, industry-driven, pre-competitive R&D projects in the area of Software-intensive Systems & Services (SiSS). ITEA stimulates projects in an open community of large industry, SMEs, universities, research institutes and user organisations. As ITEA is a EUREKA Cluster, the community is founded in Europe based on the EUREKA principles and is open to participants worldwide.

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