BIG Medilytics

Big Data for Medical Analytics

Improving healthcare in Europe through big data

BigMedilytics will transform Europe's healthcare sector. This three-year project aims to enhance patient outcomes and increase productivity in the health sector by applying big data technologies to complex datasets while ensuring security and privacy of personal data.

To achieve its objectives, the project implements twelve pilot experiences that cover three themes with the greatest impact on the sector:

Population Health and Chronic Disease Management

Oncology

Industrialization of Healthcare

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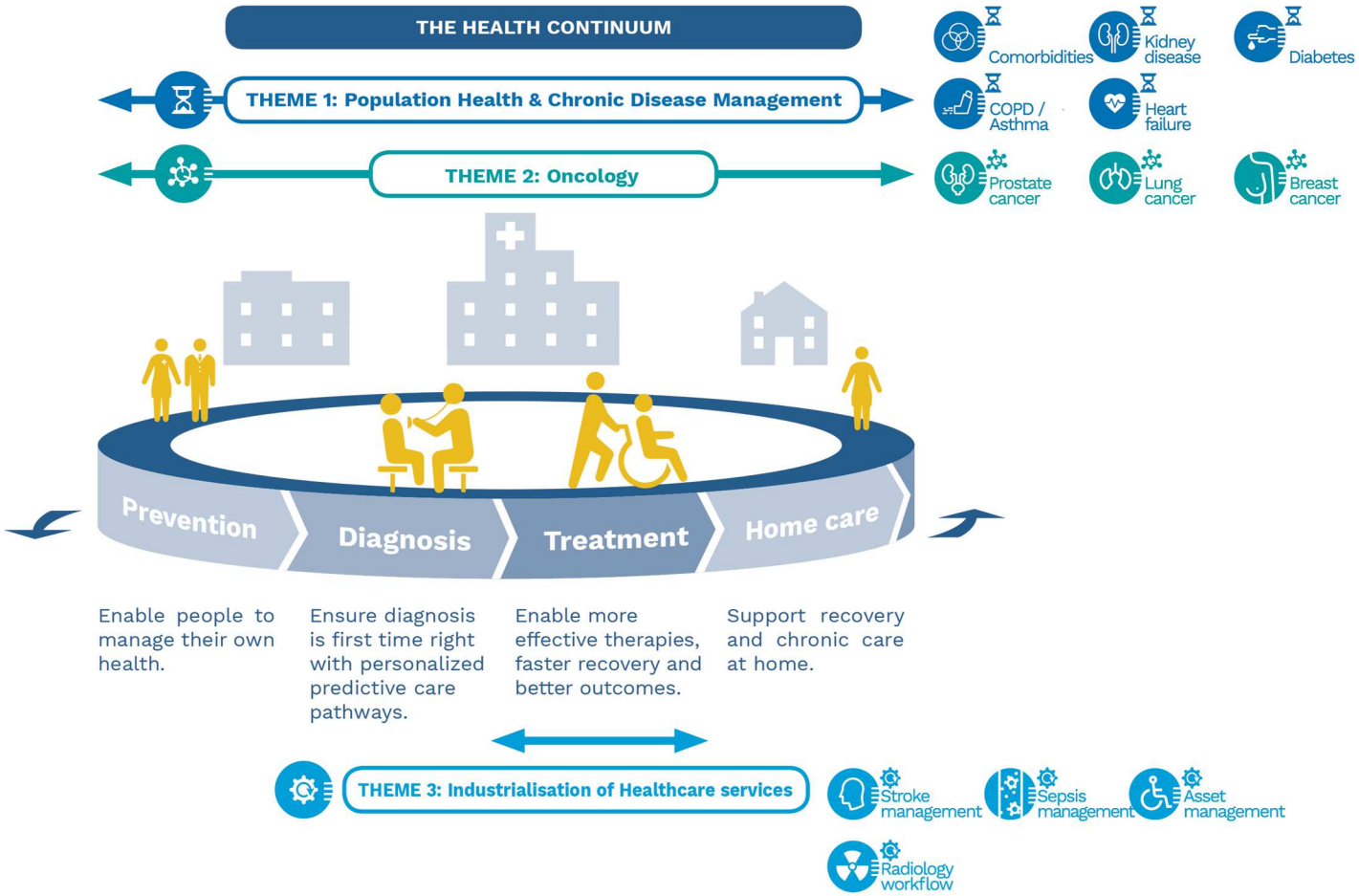
The need to improve the sustainability of health systems across the EU

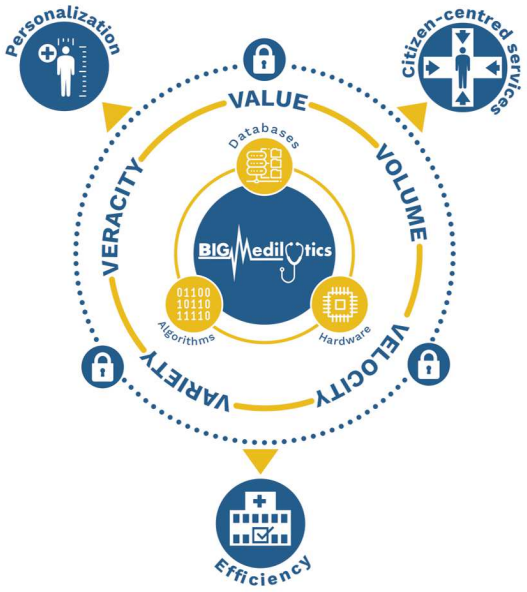
The healthcare sector is expected to account for **30% of the EU's Gross Domestic Product (GDP) by 2060** compared to around 10% today. This high growth makes it imperative to improve the sustainability of current health systems across the EU.

Big data driven strategies will unravel knowledge needed to drive the sector towards greater sustainability. This can be achieved by **reducing costs** while simultaneously **improving the quality and access** to care.

How does BigMedilytics address the challenge?

The project implements **twelve pilots** divided into **three themes** that cover the entire Healthcare Continuum. The first two themes cover 78% of all deaths from non-communicable diseases, and the third one represents the 33% of the total cost on healthcare spending.





How does the project integrate big data?

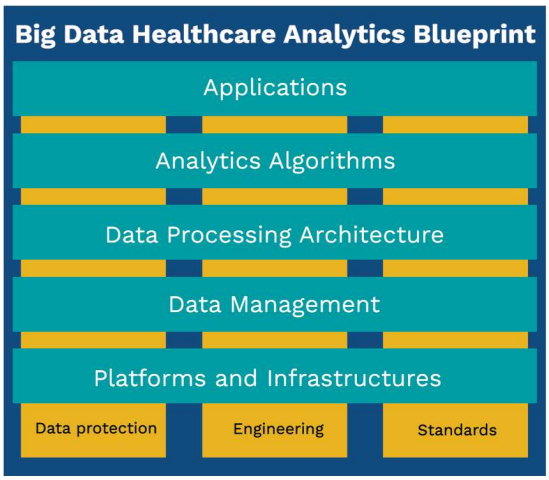
BigMedilytics integrates heterogeneous, large, complex medical datasets with different characteristics in terms of Volume, Variety, Velocity, Veracity and Value.

Thus, the utilization of big data in healthcare results in **personalized diagnosis and treatment** and **efficient delivery of healthcare services**.

Defining the best big data practices in Europe

The learnings captured from the pilots are used to define a **Big Data Healthcare Analytics Blueprint** which describes the **best practices** that need to be followed from both a technology and healthcare policy perspective when rolling out big data solutions for the healthcare sector.

The Blueprint will ensure that concepts from the pilots will be successfully scaled up across Europe while adhering to **strict privacy and ethical guidelines**.



The project's aspiration

1. Increase in healthcare productivity between 20% and 63%.
2. Collaborative innovation across the Healthcare and Data Value Chain.
3. Increase of market share of big data technology providers.
4. Creation of lasting impact of big data in the healthcare sector.
5. Contribution to 40-70 times reduction in carbon emissions.
6. Instrumental role in training next healthcare data innovators.

"BigMedilytics will have a transformational impact on the healthcare sector. The project will ensure that big data technologies will be used routinely throughout the sector in delivering high-quality care while reducing costs".

The largest EU-funded initiative to transform the healthcare sector through the use of big data

The BigMedilytics project
brings together 35 partners, led by Philips, including
healthcare providers, technology companies, pharma,
research institutes and universities from 12 different countries.

The Netherlands and Germany, with 8 members each, are the countries with the largest number of partners followed by Spain with 5 and United Kingdom with 3. France, Austria and Greece participate in the project with 2 partners each. Finally, Finland, Ireland, Israel, Serbia and Sweden participate with one partner.

www.bigmedilytics.eu

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BIG DATA VALUE
PUBLIC-PRIVATE PARTNERSHIP

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