

CASE STUDY

Unifying forces in Alzheimer's research: PRISMA Consortium & DISQOVER



Industry
Healthcare, Research,
and Technology



Location
Belgium

Use cases in:

- In-Vivo
- Target Identification

About

The PRISMA consortium (Polygenic Risk scoring and deep-Immunophenotyping Strategy to Master Alzheimer's disease), kicked off in 2020, and was founded with the goal to push Alzheimer's disease into the field of personalized medicine.

By combining R&D and clinical care, the project also aims to create a unique ecosystem for Alzheimer clinical trials in Belgium's Flanders.

Bringing together different partners from diverse disciplines, both research and industry, the PRISMA consortium is made up of six partners: VIB, imec, KU Leuven, ONTOFORCE, reMYND, and Hict.

The challenge

By joining the PRISMA consortium and sharing the power of the DISQOVER platform, ONTOFORCE is proud to be playing a pivotal role in advancing the landscape of precision medicine for Alzheimer's disease.

Data is the lifeblood of scientific and medical research. However, collecting, analyzing, and sharing vast amounts of data is often fraught with challenges, from interoperability issues to accessibility concerns.

This is where ONTOFORCE comes in with its DISQOVER platform for the PRISMA consortium.

Outcome

The ability to link research data with publicly available knowledge and data was identified by the PRISMA consortium as a need for the project. The DISCOVER platform enables this ability and has been an effective tool for connecting public data and data from the different stakeholders in academic and industry within the project.

Additionally, ONTOFORCE's data team creates and maintains remote data subscription (RDS) packages, which are domain-specific data sets compiled from top public data sources tailored to the use of DISCOVER. These packages can be retrieved and ingested into the platform, providing users with the flexibility to make data integration choices based on their use cases so they can optimally use and explore data.

The target identification RDS package has been perfectly suited for the research being conducted in the PRISMA project and the extension of the RDS technology has allowed for easier data sharing between consortium partners. On top of this, the extension of the DISCOVER plugin architecture has enabled connection with downstream applications, which has facilitated further data analysis and collaboration among partners.

Additionally, the plugin architecture has permitted for a customized search capability fitted to PRISMA researchers.



Tine Geldof

SENIOR DATA SOLUTION SPECIALIST
ONTOFORCE

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The successful implantation of streamlining data collection, integration, sharing, and analysis through the DISCOVER platform has led to enhanced collaboration, improved efficiency, and valuable insights in the project.

What's next for Prisma?

In 2024 the PRISMA project embarked in its final year. It is also the year in which many project outcomes will be realized. Ultimately, the goal of the consortium is not only to use and apply the project's findings to improve the diagnosis of Alzheimer's Disease but also to develop novel treatments and monitor its prognosis.

With a unified goal and state-of-the-art tools at the project's disposal, the consortium is optimistic about making strides in our understanding and treatment of Alzheimer's. Future collaborative projects between academia and industry that enable translational research, such as the PRISMA consortium, will be much needed to bridge the gap between fundamental research and clinical practice.

You can learn more about the PRISMA consortium and its collaboration with a.o. ONTOFORCE [here](#).

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About ONTOFORCE

ONTOFORCE helps life sciences organizations accelerate research and drug development for improved patient outcomes by unlocking hidden insights from data. Founded on semantic technology and an ontology-based knowledge graph, their flagship product, DISCOVER, is an intuitive knowledge discovery platform developed specifically for the life sciences industry.

DISCOVER seamlessly connects an organization's internal, siloed data with licensed data and public data in one easy-to-use, customizable platform, enabling efficient data exploration and analysis.



Book a meeting via this link or email us at hello@ontoforce.com

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