

CASE STUDY

Obtaining maximum value from disparate patient data sources through consolidation and harmonization



DISCOVER

Use cases in:

- Clinical Trial Design
- Virtual Cohort Selection



Industry
Pharmaceutical



Number of employees
+85,000



Location
Global

Our customer

Our customer is a leading global pharmaceutical company focused on creating innovative medicines for oncology and rare diseases.

Challenges

Data generated by clinical trials are spread across many repositories with many different formats, making it difficult to access all available insights outside of a particular study or trial. Such data may take the form of imaging data, biosamples, genomic data, demographic information, adverse events, etc. These data often remain within one clinical trial and are never used again.

Traditionally, it requires a lot of manual effort to collect all the data to allow scientists to search for relevant data assets in such a landscape. This collection is usually carried out by a data scientist in response to a researcher's request and can take weeks or even months. However, there is an immense value if these data can be reused effectively, potentially avoiding repeating expensive studies. If the patient has given the correct consent, their data could be used for research into similar drugs or diseases.

Outcome

ONTOFORCE's DISCOVER platform was chosen because it allows data consolidation through a knowledge graph that lets people explore the information space directly, rather than confining them to a traditional, limited search format. Data from disparate sources and formats, both publicly available and generated in-house by our customer, can be seamlessly combined with a user-friendly search function to empower researchers to find suitable data, quickly and easily, for exploratory research. Moreover, the platform is not a fixed data model: it is adaptable and flexible. The model can be extended to seamlessly integrate any new data that may become available, for example, proteomics data.

Our customer has implemented the initial use of ONTOFORCE's DISCOVER to enhance their data integration and is now empowering its researchers to generate new insights. Previously, the only option was to search through clinical repositories to request potentially relevant data. This could take six months to generate enough information to build confidence in a hypothesis. Thanks to DISCOVER, this can be done in hours.

Furthermore, DISCOVER can reveal new data that previously never would have come to light. As our customer's Data Strategy Specialist explained:

"A researcher developing a model to predict an adverse event during chemotherapy was aware of three or four studies with interesting patients. With improved searches, he could identify another five studies in different therapeutic areas which contained relevant patients. So, his pool of subjects or data for hypothesis building could be threefold larger than initially thought."

Benefits



DISCOVER facilitates data re-use

Reusing investments in expensive trials, getting the most value out of what has been gathered.



DISCOVER allows initial validation of hypotheses

Identifying a virtual cohort can provide initial consolidation to understand if a hypothesis is worth investigating further.



DISCOVER streamlines development

The insights revealed by DISCOVER can aid in substantially de-risking decision making and speeding up development time.

Final statement

The DISCOVER platform allows our customers to solve the fragmented world of data silos, turning semi-structured data into structured data to facilitate more meaningful interaction.

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 a data and knowledge 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.

+10,000

DISCOVER
users

13

Awards
won

12

Years of
experience

+120

Data sources
and integrations

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

Locations

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Book a demo →

Transform data into knowledge