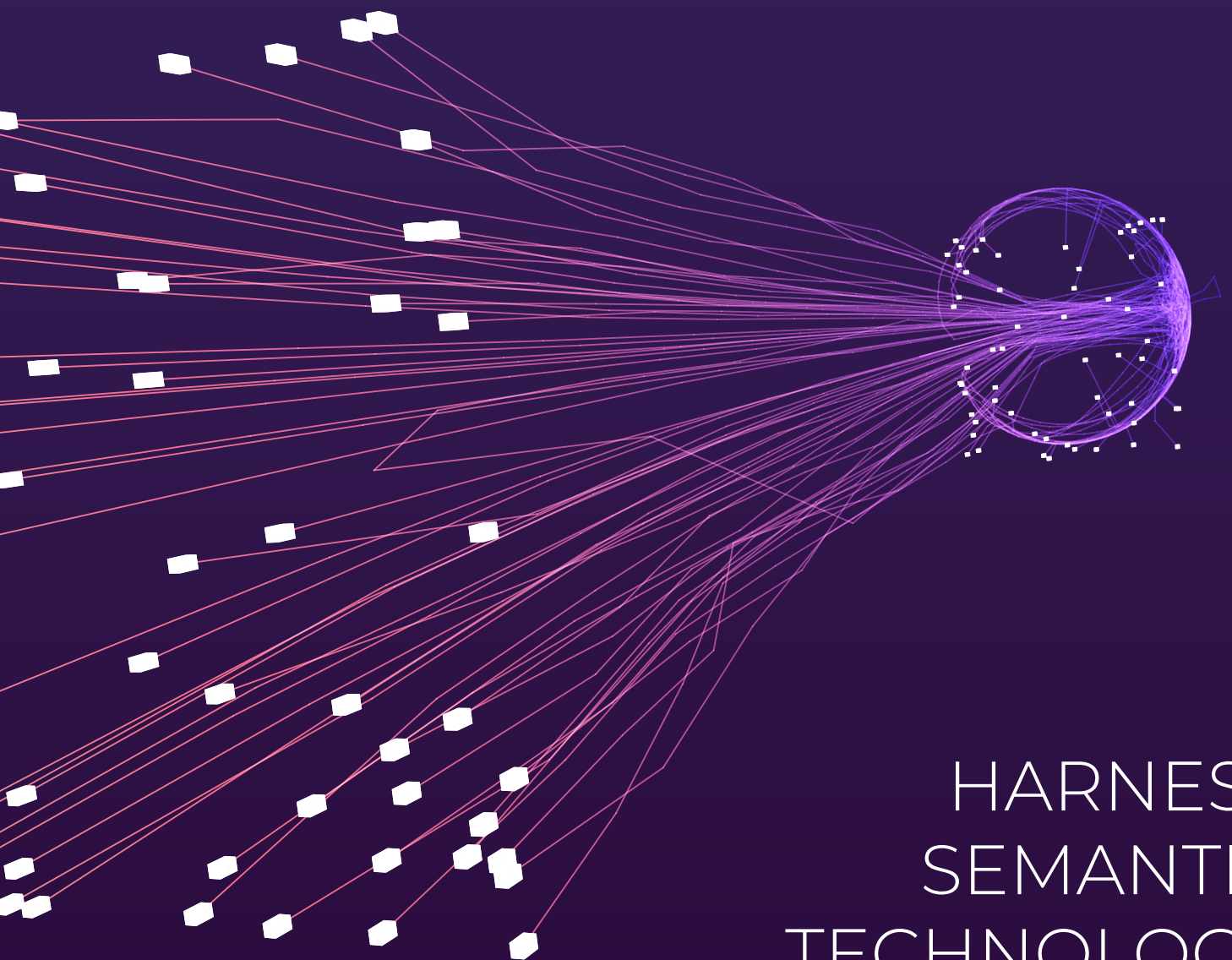




# Discover new insights from connected data



HARNESS  
SEMANTIC  
TECHNOLOGY

Data silos remain a major hurdle in drug development, slowing down the process of converting data into knowledge inferences and insights for novel discoveries. Employ semantic technologies to dismantle silos and create linkages across a variety of sources and data types to drive drug innovation and knowledge graph creation.

## Isolated data sources to an integrated ecosystem

Excelra powers semantic data integration and domain-specific, customized knowledge graph creation with an end-to-end service offering. Biopharma companies rely on Excelra to discover hidden truths and give meaning to isolated data, and thus generate insights quickly and accurately.

### Service offering

#### Data integration and semantic modelling



Semantic data modelling



Legacy data transformation



Master data management



Data FAIRification



RDF triple generation customized and efficient search engine



Customized data analysis and interpretation



Meta and custom data curation



Ontology mapping and management

#### Supports integration of

20 biomedical databases

30 edge types

37M triples

8.5M nodes

## Proprietary knowledge graph creation



Custom target schema



Existing experience with multiple sources via EBKG



Domain context-based knowledge graph creation



Personalized query set-up



Gaining insights from knowledge graphs using machine learning models



Support for specific use cases

## Supports integration of

20 biomedical databases

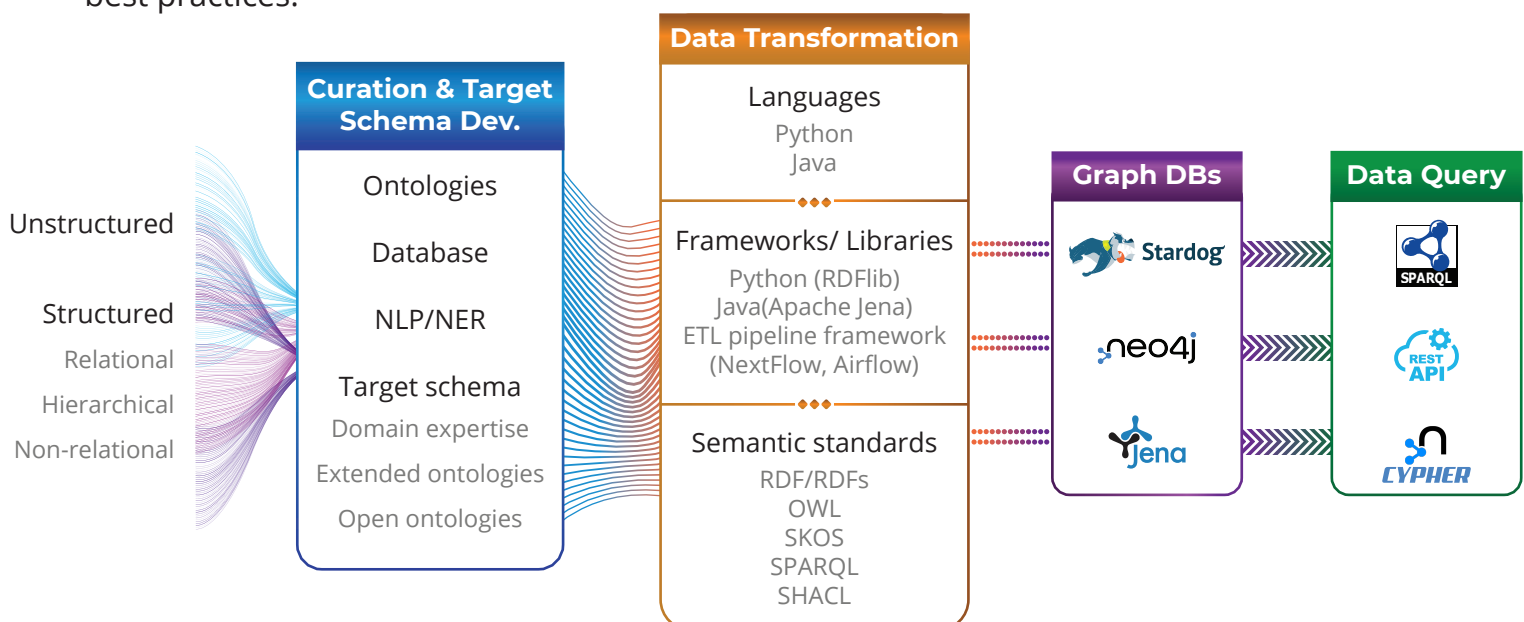
15 biomedical concepts

30 edge types

30M facts

## The Excelra way: Fast-track to innovation

Boost the ability of IT and data management heads to meet the specific and complex needs of bench scientists with our consultative and domain-driven approach backed by industry best practices.



# Applications



Ontology and taxonomy management



Data integration and knowledge graph creation



Semantics' tools and technologies evaluation



Semantic data modelling



Data FAIRification



Semantic search

## Why us?



### Cross-functional teams

- Domain experts well-versed in disease ontologies, use cases and data entities
- Semantic experts with deep technical expertise and experience in biopharma
- Data analysts and engineers for custom solutions deployable on cloud



### Ready-to-use mapping libraries

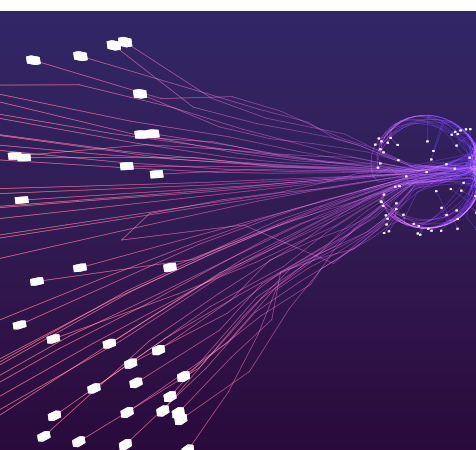
- 15+ biomedical concepts covered
- Knowledge of limitations and gaps in public datasets



### Rich experience

- Large pharma clients in US and Europe
- Wide ranging engagements (data integration, ontology management, semantic modeling, graph databases, NER technology, data FAIRification)

For more information write to us on: [marketing@excelra.com](mailto:marketing@excelra.com)



Excelra's data and digital insights empower innovation in life sciences from discovery to market. The Excelra edge comes from harmonizing heterogeneous data sets and applying innovative bioinformatics know-how and technologies to accelerate drug discovery and development with reliable and actionable insights.

[www.excelra.com](http://www.excelra.com)