



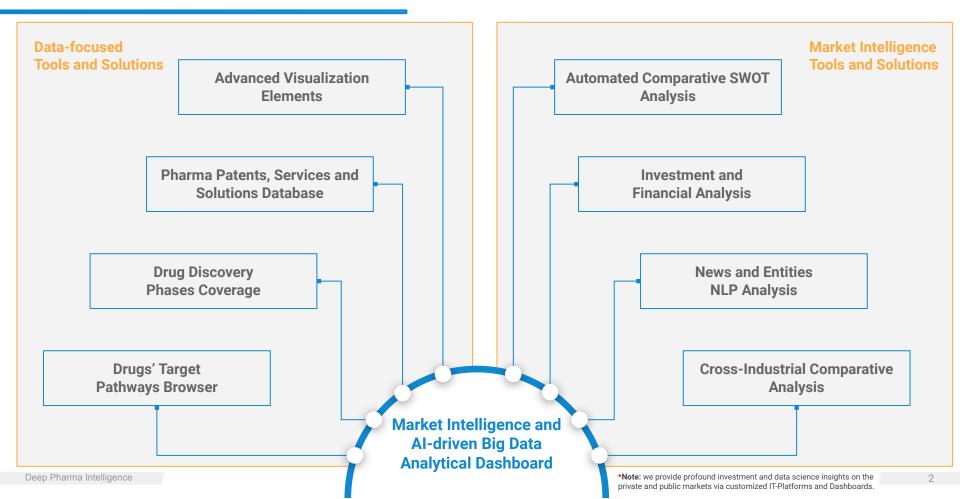
Deep Pharma Intelligence

Market Intelligence System and Al-driven Big Data Analytics Dashboard

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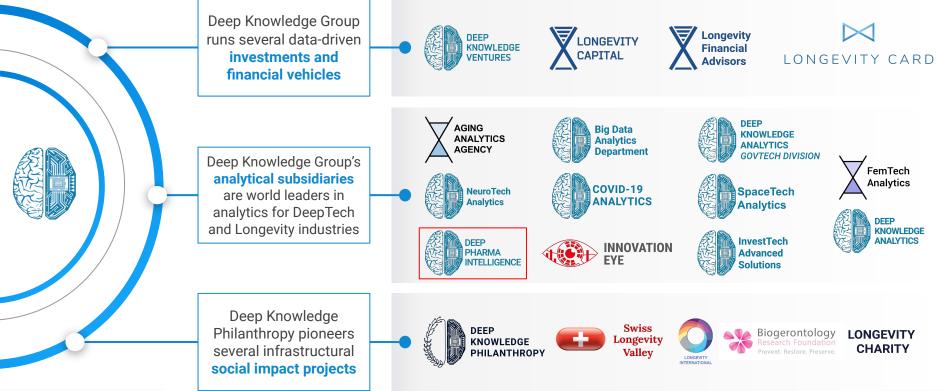
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Market Intelligence System and AI-driven Big Data Analytical Dashboard*



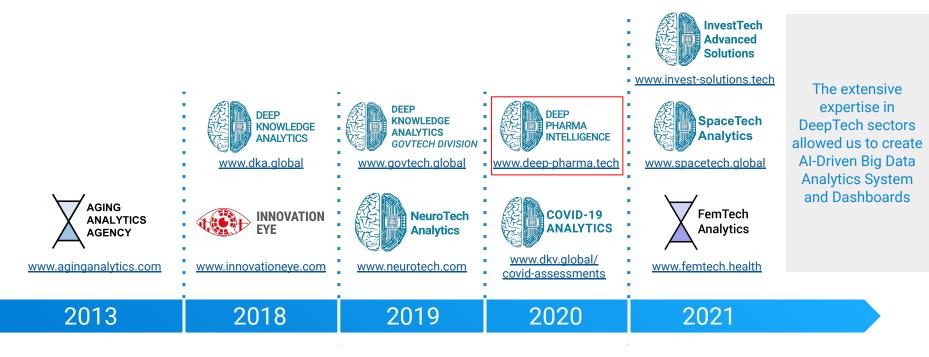
About Deep Knowledge Group

Deep Knowledge Group is a consortium of commercial and non-profit organisations active on multiple fronts in the realm of DeepTech and Frontier Technologies (AI, Longevity, FinTech, GovTech, InvestTech), ranging from scientific research to investment, entrepreneurship, analytics, media, philanthropy and more.

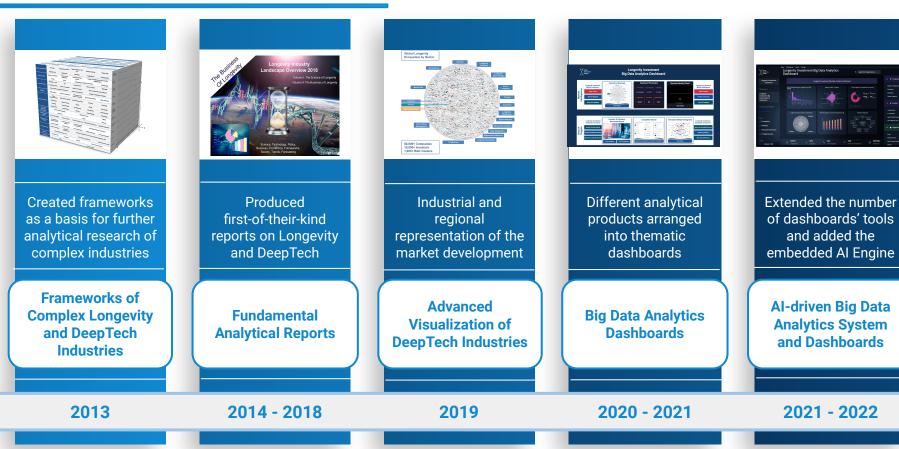


DeepTech-related Analytical Subsidiaries of Deep Knowledge Group

Deep Knowledge Group's analytical subsidiaries produce advanced analytics on DeepTech and frontier-technology industries using sophisticated frameworks and algorithmic methods that combine hundreds of specifically-weighted metrics and parameters to deliver insightful market intelligence, pragmatic forecasting and tangible benchmarking.



Analytical Methods and Systems Developed by Deep Knowledge Group



The Problem

The IT platform to be developed is said to cover the following:

- What type of services are provided by a given entity
- Do these services, as well as other parameters, indicate the sustainability of the entity
- What are the competitors of a given entity and how one could compare this entity to its peers
- What phases of drug discovery a given entity tries to cover
- What are the most expedient acquisition scenarios for a given entity.

The key-points mentioned above indicate the following features of the IT platform:

- An existence of a database with the factual information on every entity
- A need in machine learning applications to extract and then associate certain 'tags' with every entity to clarify the drug discovery phase, as well services provided
- A need in machine learning applications to create a meaningful entity-to-competitor analysis
- A need in machine learning applications to create a recommendation system able to advise on acquisition specifics.

As a result, the following concept of the platform is created.



The Solution – Al-driven Big Data Analytical Dashboard





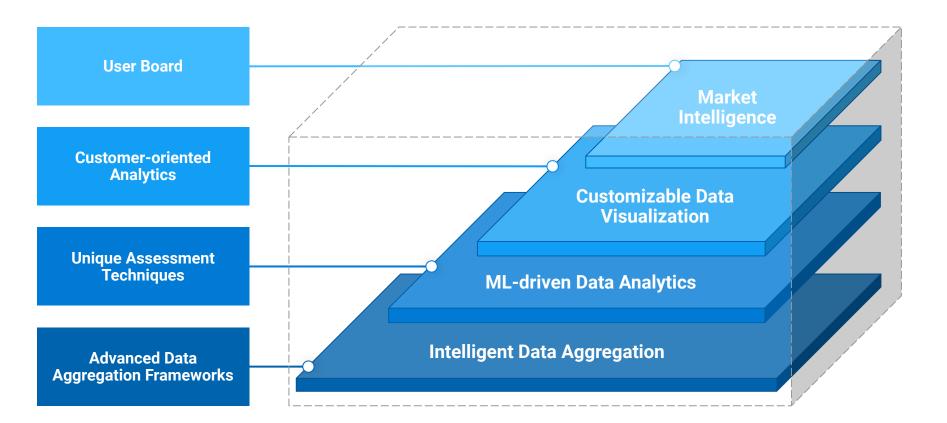


Al Engine of Big Data Analytical Dashboard: Data Science behind the IT Product

Note: below, we describe the toolkit that we implement in other Deep Knowledge Group's projects and will use to build this Tailor-Made Market Intelligence System

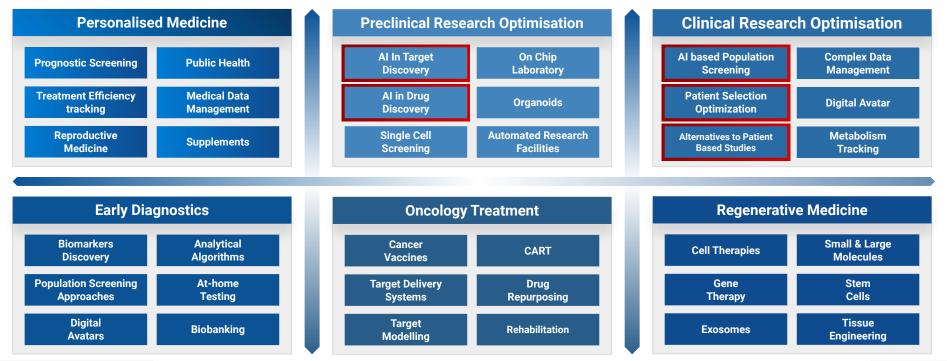
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Market Intelligence System and AI-driven Analytical Dashboard IT Architecture



Disruptive Technology in Pharma Framework

Current focus of **Deep Pharma Intelligence (DPI) Dashboard** is aimed at **Artificial Intelligence role in Drug Discovery**. Yet, the **core strategic goal for DPI** is to expand dashboard coverage in order to **include all projected disruptive technologies** and companies that use them in the Pharmaceutical Industry. **The Framework visualizes all potential disruptive sectors in Pharmaceutical Industry which will be presented in Dashboard, while highlighted blocks are categories which are already covered.**



Deep Pharma Intelligence

Major Components of Data Science and AI Engine Architecture

Data Aggregation

Big Data Analytics System and Dashboard cover the datasets synthesized from various sources and having the different types of representation

Database Extension

The data sets behind the finalised data provided to users is subject to constant updating to ensure the precise results of analysis

Natural Language Processing (NLP) Engine

Advanced NLP-techniques are used for gathering and storing the multiparametric and high-dimensional data.

Components of Data Science and Al Engine

AI-Based Clustering

Embedded AI engine is able to find the interconnections and form the groups of entities having the similar characteristics

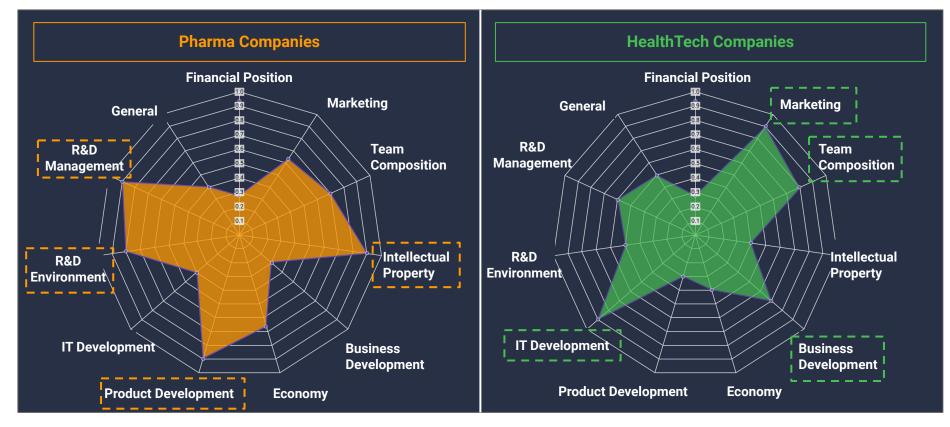
Companies Assessment with Machine Learning

Dashboards provide the ranking of both private and public companies based on the aggregated and constantly refreshed market data

AI-based Predictions

Big Data Analytics System and Dashboard has the modules able to forecast the possible ways of future traction of certain events (such as stock prices) based on the large sets of market data

Accurate Data Science-Based Company Assessment



An example of a SWOT analysis of Pharma and HealthTech companies with parameters tailored specifically to market segments.

Tailor-Made Market Intelligence System: Summary

Market-specific IT-platform focusing on data and solutions that are relevant to the market specialist

More than a database: a set of intelligence Al-driven tools providing unique insights on the industry dynamics

Meaningful tools for any type of goals: combination of interpretable analytics and raw-data for the internal research

Cloud-based platform allowing optimal up-time and seamless models update and implementation

Tailor-Made Market Intelligence System





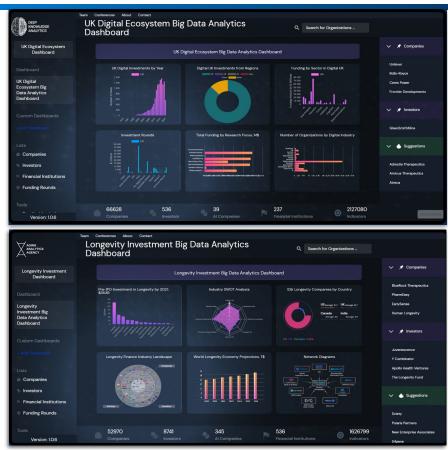
Data-focused Tools and Solutions

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Advanced Visualization. Dashboards Constructor

Key Features



Enables the creation of tailored and personalized analytical dashboards in a matter of minutes

All features that are available on other dashboards are already enabled

Save time and money on analyst training with a low-code solution

You are the one who decides purchase a white label solution or request creation-on-demand

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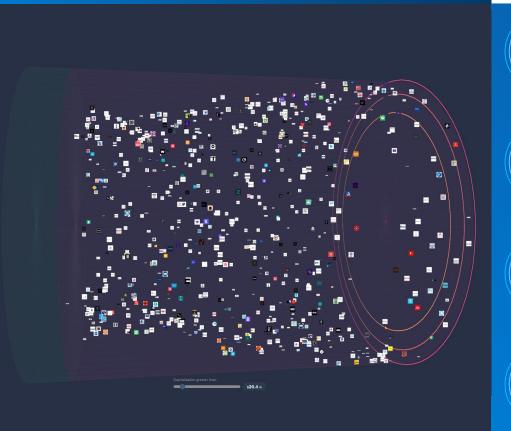
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Advanced Visualization. 3D Mindmaps Enhancement

Key Features



Think in a multi-dimensional way

Uniqueness is what valued across the industries. Make your data stand-out

Bring the future you are heading for closer, by making right decisions about the market

Evolve with the state-of-the-art technological solutions for alternative data analytics

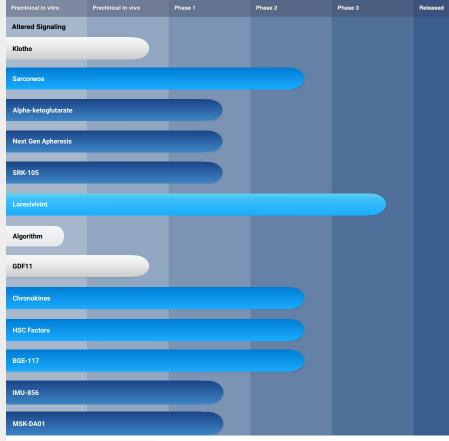
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Clinical Trials Tracker

Key Features



- Constantly-growing database of completed and ongoing Longevity-related clinical trials
- Science-based market insights
- Ranking of therapeutic programs by disorders types
- Regional distribution of clinical trials programs

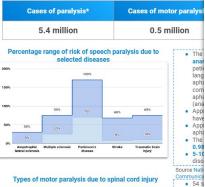
Automatic Generation of the Pharma **Industry Analytical Case Study**

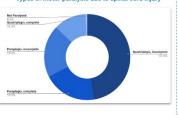
Why?



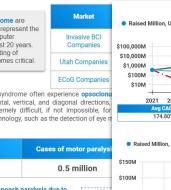
Source PubMed

Patients with the locked-in syndrome often experience opsocionu move rapidly in the horizontal, vertical, and diagonal directions, makes communication extremely difficult, if not impossible, for renders typical assistive technology, such as the detection of eve m not completely useless.





Deep Pharma Intelligence



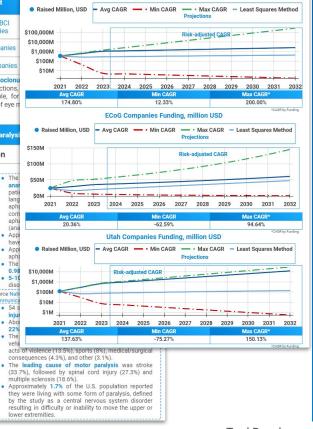
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Invasive BCI Companies Funding, million USD

Writing reports made easy! Don't waste your time and money on market reports

Operate with the Machine Learning-based data insights

Reinforce your market analytics with zero efforts

Dedicate more time to things that matter

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Pharma Patents

Deep Pharma Intelligence

Why?

	Patent Search	
Patent Search Pate	t E-register Application Status Help	
Publication Type:	Published Granted	
Application Date (National)	From: mm/dd/yyyy To: mm/dd/yyyy	AND v
Title	e.g. ONBOARD VEHICLE DIGITAL IDENTIFICATION TRANSMISSION	AND V
Abstract	e.g. COMPUTER IMPLEMENTED	AND V
Complete Specification	e.g. VEHICLE DIGITAL IDENTIFICATION	AND
Application Number	v e.g. 3285/CHENP/2008	AND 🔻
Patent Number	• e.g. 236542	AND
Applicant Name	e.g. SRM Institute of Science and Technology	AND
Inventor Name	• e.g. Singh	AND T
Inventor Country	e.g. INDIA	AND
Inventor Address	v e.g. Delhi	AND
Filing office	v e.g. Delhi	AND
THE LEGAL STATUS IPO	TYPE IPO Top 1000 results	by filing date
Protective document	Trade Marks Industrial designs International trademark Relative count of top 5	op 5 values
PROTECTIVE DOCUMENT	crigitizations with distribution to the territory of Ukraine Op.Bright Electron	Inventors CPCs
Valid Invalid	Apple Inc. Apprement on the transfer (alienation) of property rights to the work Lutton Electronics Carpot	2.8% ics Co., Ltd. 1.8% ation 1.5%
Ceased to be effective	Copyright for an official Expand	

Thousands of patents on the Pharma Industry to track the latest developments across sub-sectors

Establish scientifically validated market analytics by implementing IP research

Create value proposition for users by ML-driven analysis of the existing patents

Harvest the information on the latest pharma-related IP breakthroughs

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Services and Solutions Database

How?

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Kick-start the solution with the same DSSM approach, allowing data management optimization

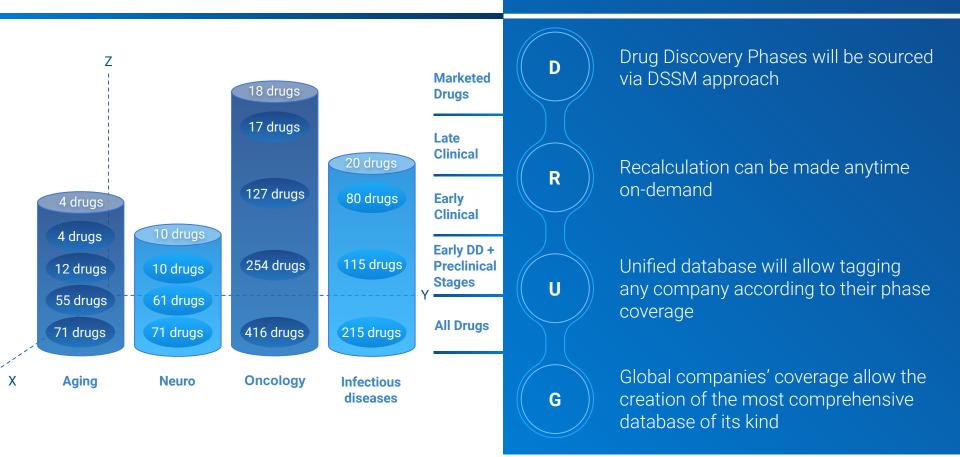
Nested tagging approach for in-depth search

Oftenly-updated and curated database to keep-up with the companies' changes

Vertical Value chain: B2B focus

Drug Discovery Phases Coverage

How?



Data-focused Tools and Solutions: Summary

Data visualization solutions to bring more clarity to the raw data

Intellectual Property and scientific-related data to indicate the actual company background

Investors and companies brought together to illustrate the under- and over-invested areas of the industry

Market stratification through the solutions and service the companies are currently offering

Data-focused Tools and Solutions





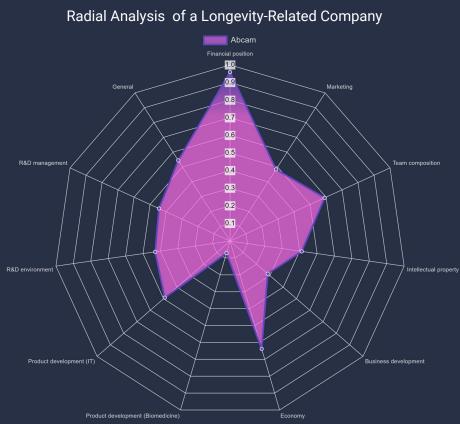
Market Intelligence Tools and Solutions

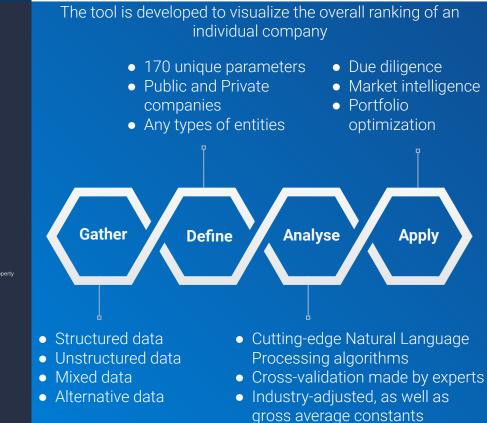
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Automized SWOT Analysis

Our Approach

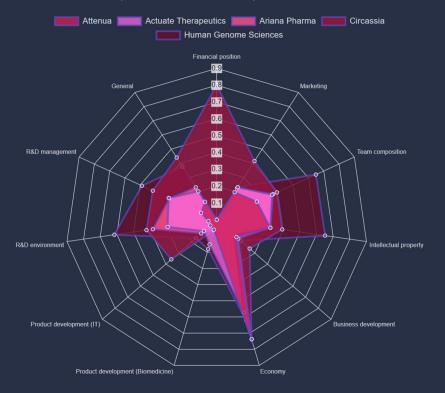




Automated Comparative Analysis

Key Features

Radial Analysis of Five Longevity Related Companies

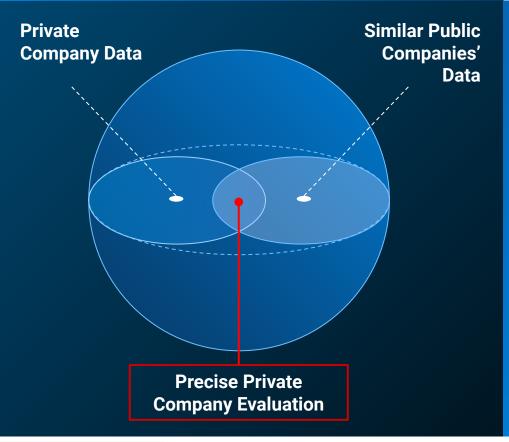


The tool is developed to compare a few selected companies by several hundred parameters

- Unlimited number of compared companies
- Entities from all industries and markets
- On-demand analytics and due diligence for one or multiple companies
- Comparison of hundreds of parameters in a matter of seconds

Private & Public Companies Cross Analysis

Why?



Reverse the data scarcity among private companies for adequate assessment

Accelerate private companies due diligence

Trace the trends of private and public markets for specific sectors

Estimate the growth potential of the late-stage companies

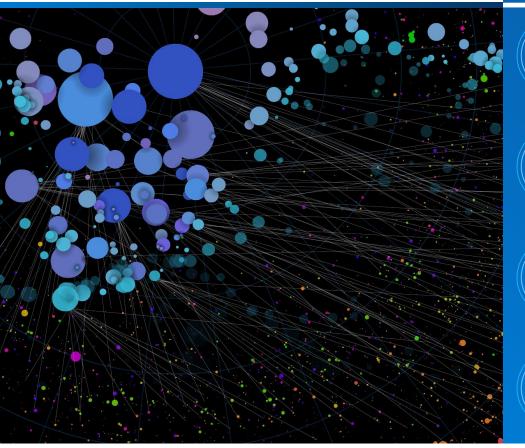
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Cross-Industrial Comparative Analysis

How?



Variety of parameters brought together to provide the meaningful market intelligence

Intersectoral and cross-sectoral entities assessment

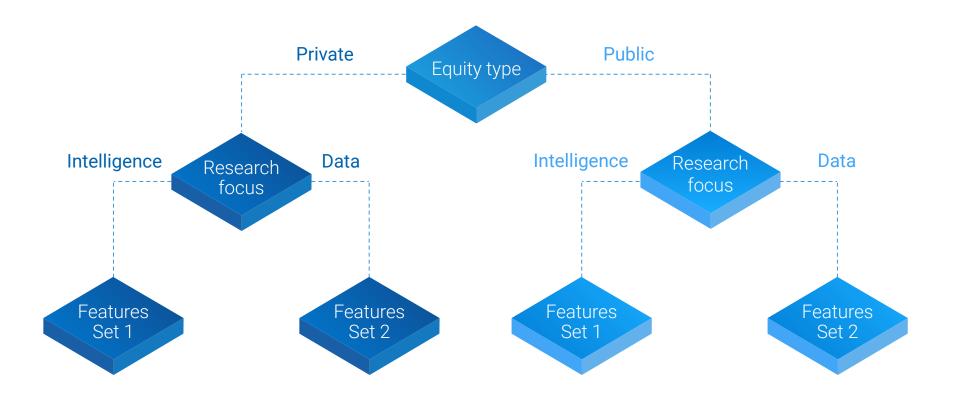
Entry and advanced levels of analysis suited for different types of users

Weekly-curated database for the latest news analysis across different topics

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Platform User Guide Decision Tree



Market Intelligence Tools and Solutions: Summary

Private equity through the lens of data-driven solutions, showing the unique industry's insights

Al-driven competitors analysis for the companies assessment

Al-driven investors matching approach to form the most efficient syndicate for your allocations

Public equity-based benchmarking to understand the future perspectives of the new market players

Market Intelligence Tools and Solutions



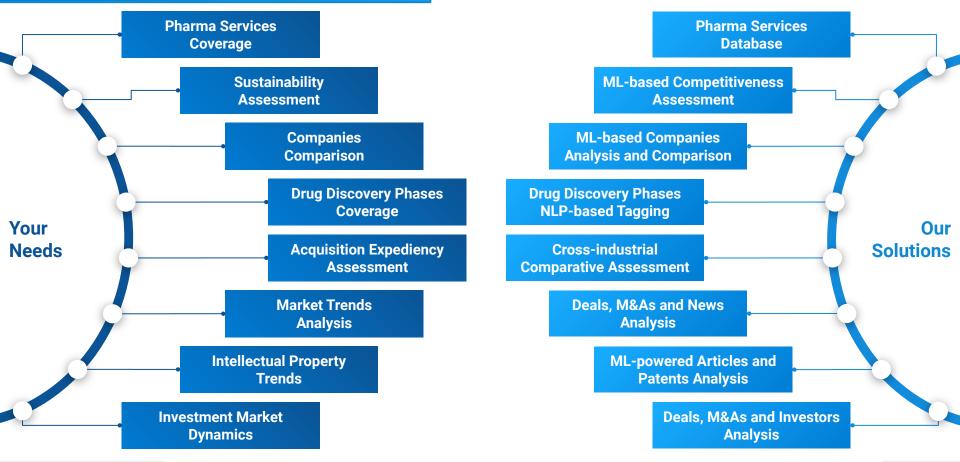


Proposition Summary

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Proposition Summary: Your Needs and Our Solutions



Proposition Summary

Deep Pharma Intelligence aims to provide an ecosystemic market intelligence solution for Pharmaceutical industry specialists, focusing on market-specific metrics and data for the AI in Pharma market, as well as general analytical solutions.

This precisely-designed solution will include data-focused market intelligence tools that provide maximal flexibility to the users. The platform will also have a specific M&A and due diligence focus in order to provide valuable market insights for industry decision makers, optimizing the research-allocation process.

This market intelligence solution will be a cloud-based analytical platform, encompassing both a set of pre-validated AI and Big Data Analytical system components developed for other projects in the Deep Knowledge Group consortium, as well as new unique intelligence approaches and technologies.

The flexibility of the platform development process will allow stakeholders to suggest new tools and features tuned to their specific needs, and **the overall development of the system will be made in stages so that the most important solutions (according to partner and stakeholder feedback) will be prioritized**.

While the analytical platform is going to be a solution available for many third parties, Deep Pharma Intelligence is ready to provide a wider range of additional benefits for its clients, which can be discussed separately.

We are open to a mutually beneficial cooperation



Deep Pharma Intelligence

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