DEEP KNOWLEDGE GROUP

DEEP PHARMA INTELLIGENCE

Advanced AI Pharma Business & Market Intelligence System

New Era in Pharma Analytics

Strictly Confidential

General Composition

Pharma Market AI-driven Big Data Analytics System as adaptive Dashboard

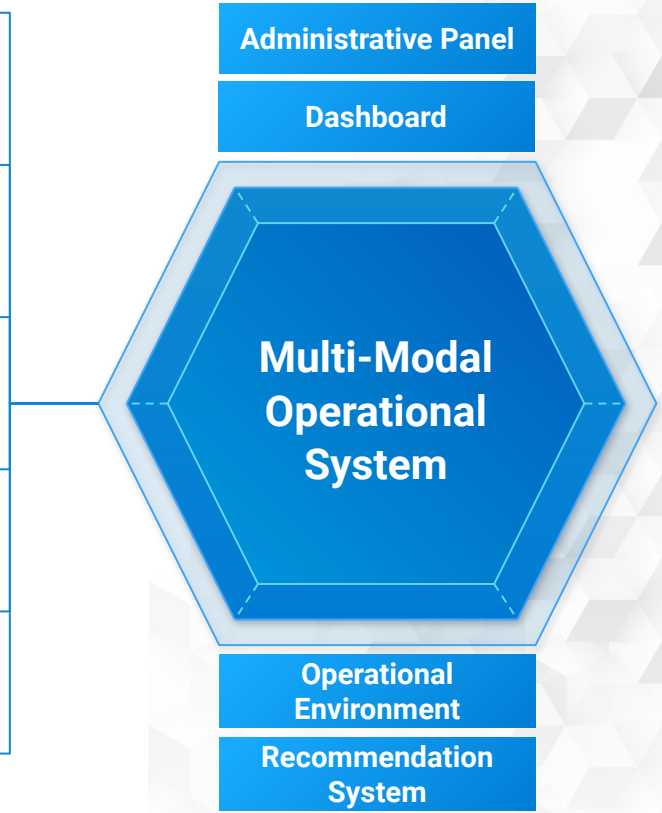
Market Intelligence, SWOT, Comparative, Competitive Quantified, Qualified Analysis

Complex Data Analysis: Synthetic Operational Environment and Advanced Dynamic Visualisation

Customized Analytics, Specific Industry Segments Monitoring, Most Advanced R&D Domains

Automated Business Development, Partnerships Facilitation, AI-driven Smart Matching System

Automated Competitors Landscape Monitoring (R&D, M&A Deals, Investment, Financial Transactions)



Dashboard Overview

AI-Driven Market Intelligence Focus

Financial Engineering Tracking	**Full Market Monitoring**	**Whole Operational Environment Mapping**
Ultimate Decision Makers Tracking	**Automated Engagement protocols**	**Full AI Decision Making Support**

Key Features

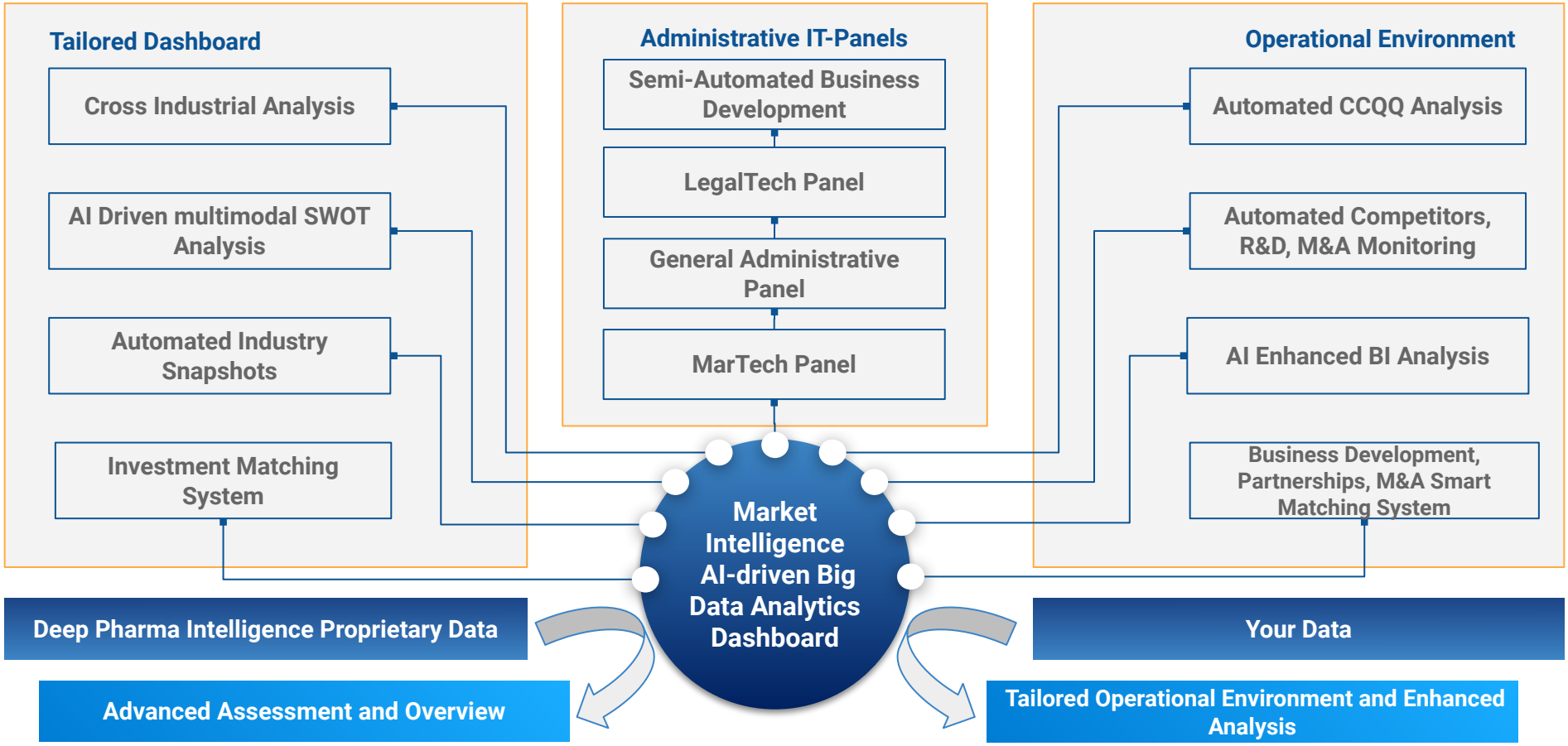
E — **E**nables the analysis and evaluation of any associated entity in multi vector space setting

A — **A**daptive and highly versatile system for data processing and visualisation

S — **S**ophisticated protocols of AI processing leveraging available data

Y — **Y**ou are the one who decides, based on the recommendations provided by the system

Market Intelligence | Automated Business Development | Operational Environment Analysis

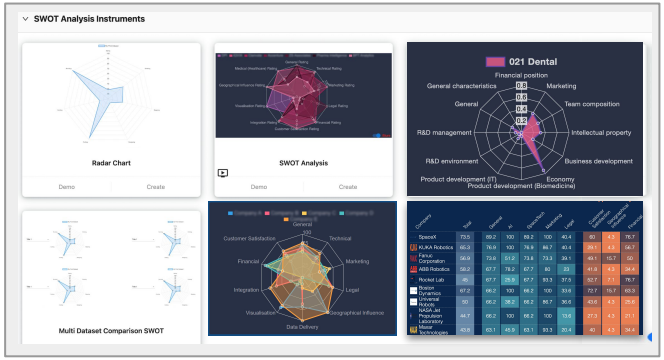


Component 1

Market AI-driven Big Data Analytics System, Tailored Dashboard

- ➔ Ecosystem Analysis and Mapping Based on Operational Environment
- ➔ Automated Entities Validation and Clustering
- ➔ Industry Roles Evaluation
- ➔ Ecosystem Development Projections
- ➔ Strategic Insights on Potential Matches
- ➔ Partners And Competitors Profiles and Pipelines
- ➔ Other Features

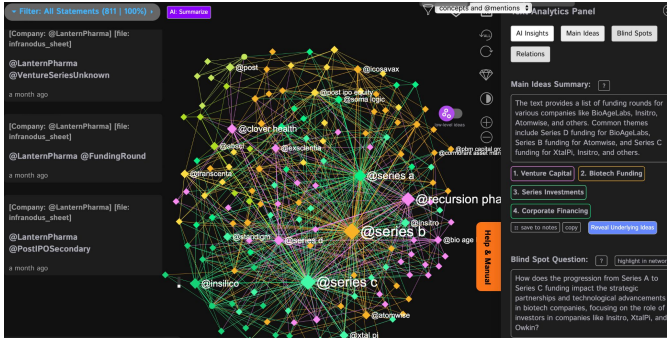
Component 2



Market Intelligence, SWOT, Comparative, Competitive Quantified, Qualified Analysis

- ➔ ML algorithms for nuanced company and entity analysis
- ➔ Easily repurposed for diverse analytical needs
- ➔ Extensive data intake options for comprehensive insights
- ➔ Variety of modeling and forecasting tools
- ➔ Sophisticated multiparameter SWOT analysis for thorough evaluations
- ➔ Over 100 parameters to assess corporate ventures and partnerships

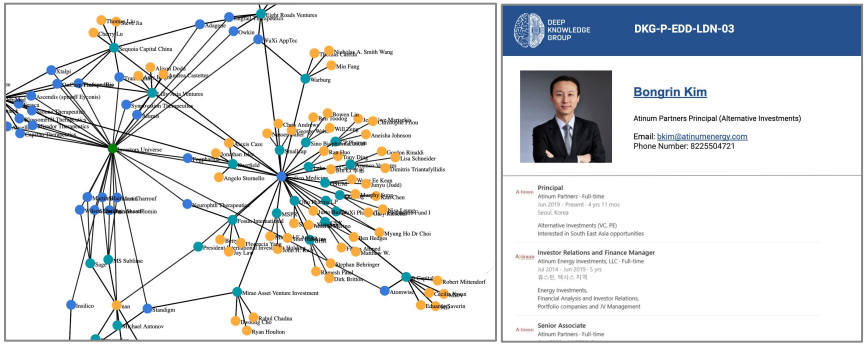
Component 3



Complex Data Analysis: Synthetic Operational Environment and Advanced Dynamic Visualisation

- Operational Environment mapping
- Cross-Industrial Comparative Analysis
- Automated Comparative Analysis
- Multidimensional Vector Space Analysis
- Trading Recommendation System
- AI based Smart Matching System
- Technology Forecasting for Business Development and M&A
- Partnership Recommendation System

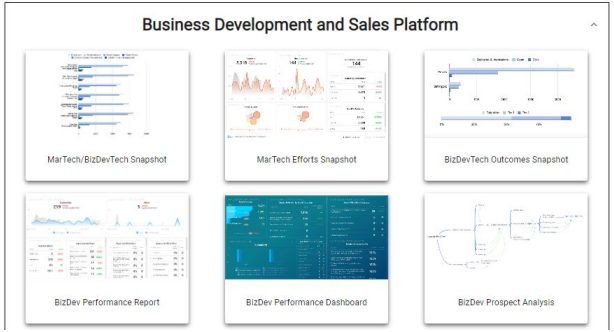
Component 4



Lead Analysis, Personal Profiles Tracking & OSINT Module

- Automated OSINT for enhanced lead insights
- Targeted background profiling for strategic engagement
- Complete mapping of lead-related networks
- Real-time tracking of leads' interests and challenges
- Scoring system for lead-product/company alignment
- AI-generated personalized engagement recommendations

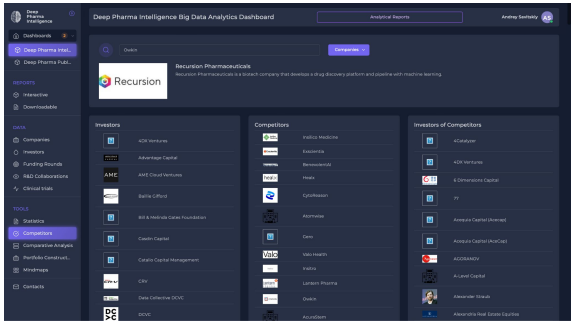
Component 5



Automated Business Development, Partnerships Facilitation, AI-driven Smart Matching System

- Automated data collection for competitors, clients, and potential partners
- Scanning of the operational environment for business opportunities
- Semi-automated engagement tools for outreach
- AI Agents for multiple tasks automation
- Automated tailored documents creation: Decks, Offers, etc.
- Engagement recommendations based on lead background

Component 6



Automated Competitors Landscape Monitoring (R&D, M&A, deals, Investment, Financial Transactions)

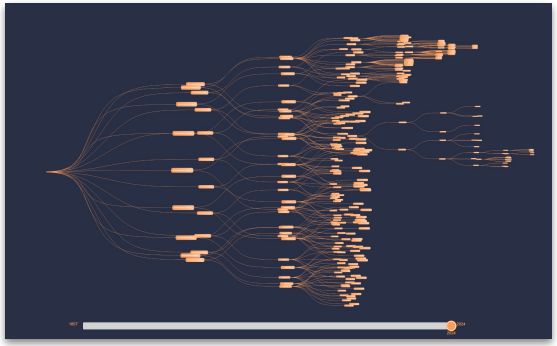
- Automated system for detailed competitor profiling
- In-depth analysis of competitors' R&D, M&A, and financial activities
- Continuous monitoring for real-time competitor status
- Customizable filtering for targeted competitor insights
- Simultaneous monitoring across various competitor categories
- AI-driven recommendations for strategic actions

Component 7

Investment Universe & Targets for Financial Engineering

- Monitoring of market valuations for financial opportunity identification
- Strategic financial engineering tactics for investment optimization
- Comprehensive profiling of the investor ecosystem
- In-depth analysis of individual investor backgrounds
- Tailored investor engagement and relationship-building methodologies
- Predictive modeling for emerging investment trends and behaviors

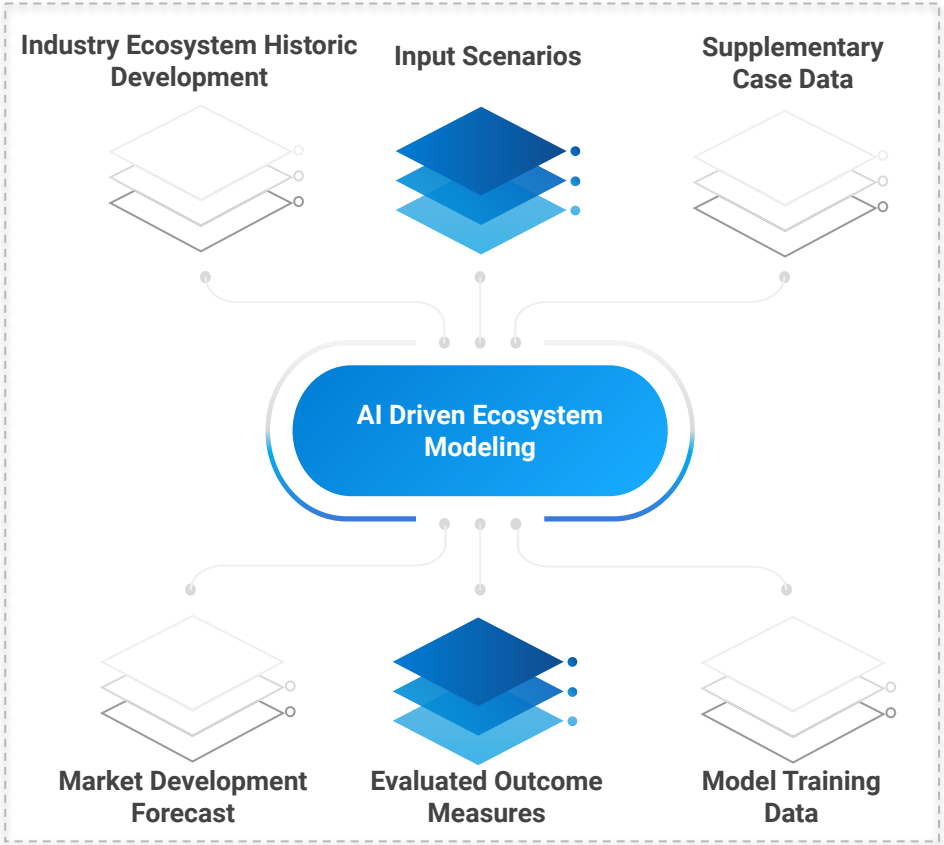
Component 8



Ecosystem Scenario & Risk Analysis Module

- Automated system for detailed competitor profiling
- Outcome forecasting for strategic decisions
- Investment decision impact simulations
- Merger and acquisition outcome predictions
- Ecosystem evolution and trend analysis
- Identification of potential risk elements
- Proactive risk mitigation and strategy advisement
- Strategic influence mapping within the ecosystem
- Compliance and regulatory change anticipation

Scenario Analysis



Key Features

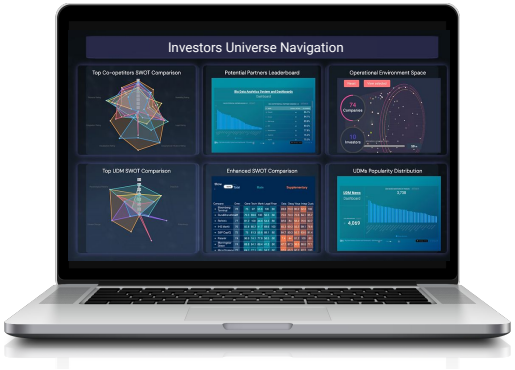
Scenario Analysis tool

- **Industry and Entity Modeling:** Comprehensive simulation of industry trends and individual entity progressions within the market landscape.
- **Outcome Forecasting:** Utilizes an AI-trained model to predict the repercussions of various business actions and decisions.
- **Diverse Data Integration:** Capability to incorporate a wide array of data sources to enrich analysis and enhance prediction accuracy.

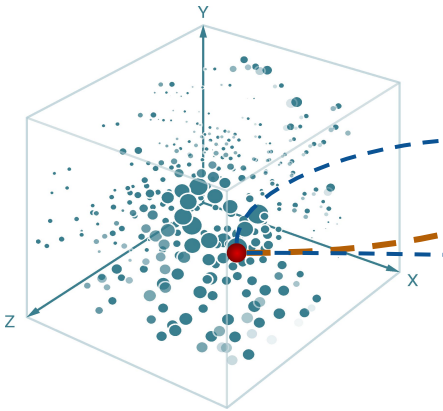
Leads Universe Mapping

- **Risk Scenario:** Facilitates the modeling of numerous scenarios to assess and categorize potential risks.
- **Risk Assessment:** Evaluates and ranks risks utilizing model-driven insights to prioritize response strategies.
- **Mitigation Strategy:** Generates recommended actions for risk response, leveraging scenario outcomes for informed strategy formulation.

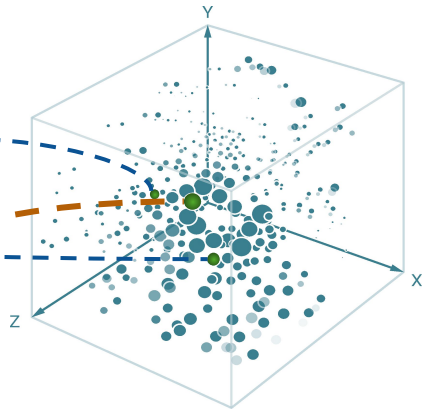
Investment Universe



Investors Industry Universe



Companies Industry Universe



Key Features

End to End tool for investment landscape monitoring

- **Navigation:** A multimodal, interactive interface for the dynamic mapping of the investment landscape, analyzing connections and relevance among investors and investment targets.
- **Interaction Monitoring:** Tracks co-investments, target interests, and deal flow, providing a comprehensive overview of ongoing market activities.
- **Financial Entity Profiling:** Offers descriptive analyses of entities, outlining financial standings and market behaviors within the investment ecosystem.
- **Valuation Oversight:** Observes and reports discrepancies in entity valuations, including overpricing or underperformance, and identifies financial anomalies.
- **Investment Banks Tracking:** Analysis of core IPO Supporters, market actions, strategies and targets.
- **Decision-Maker Insight:** Utilizes OSINT techniques to gather intelligence on key decision-makers, monitoring public statements and influential actions.
-

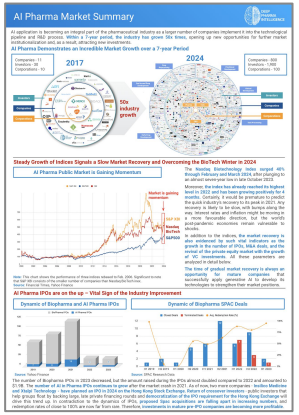
Financial Engineering Targets

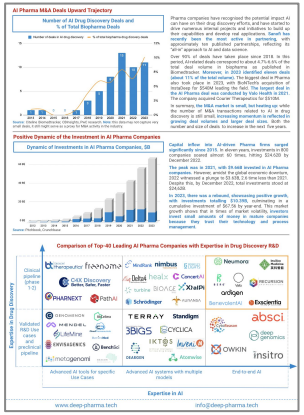
Key Features

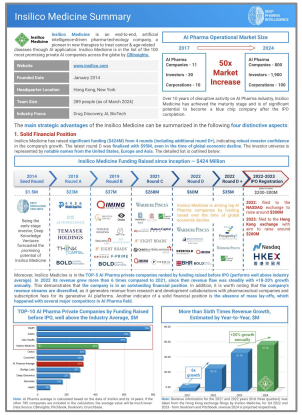
Toolkit for monitoring of underperforming or overvalued entities for potential financial engineering in terms of Private M&A Transactions

- **Real Valuation Estimator:** Automated analysis tool for assessing the true market value of entities, distinguishing between actual worth and market perception.
- **Deal Outcome Modeling:** Simulates the financial implications of potential M&A transactions, forecasting post-deal scenarios.
- **Financial Structuring Portfolio:** A collection of financial instruments and strategies designed for structuring and optimizing M&A deals.
- **Outcome Projections Framework:** An internal system for predicting the consequences of financial maneuvers and their impact on business performance.
- **Co-investor Matchmaking:** An intelligent recommendation engine for identifying and partnering with co-investors aligned with transaction objectives.

Company Profiling





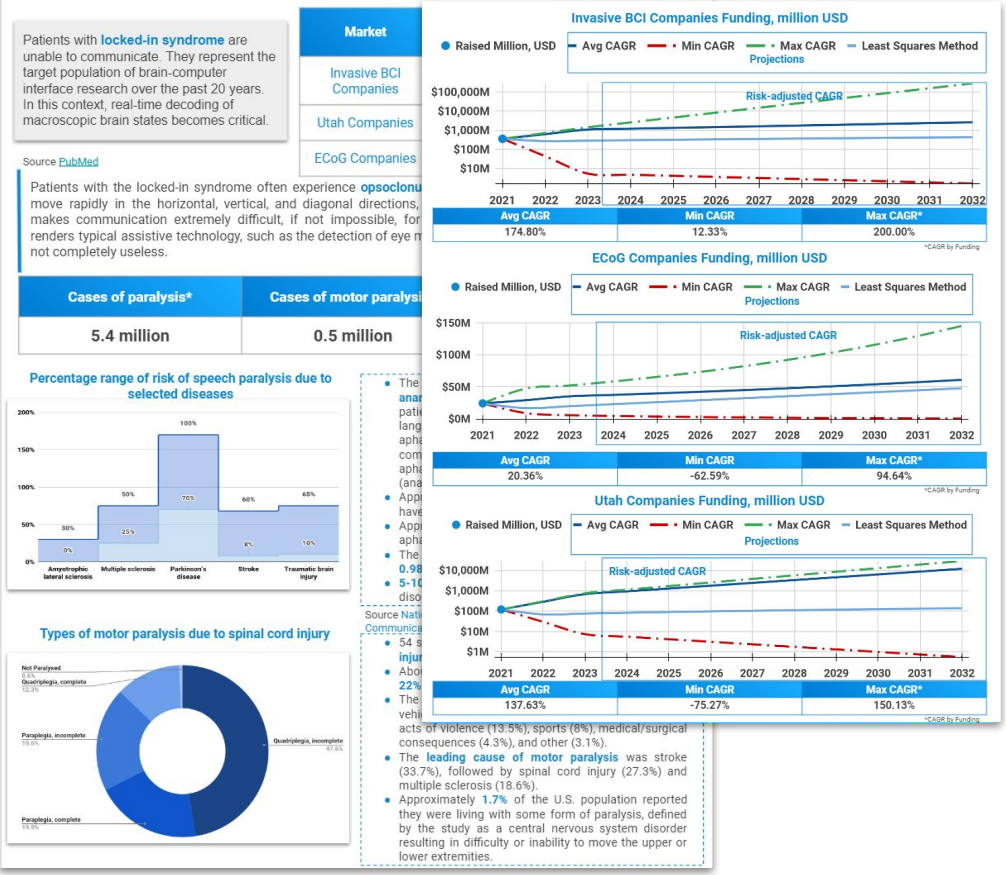


Key Features

Full Fledged Company Profiling Encompasses Operational Environment Creation and Supporting Documentation

- **Competitors Monitoring:** Tracking of activities, historic actions, staff, strategies, IP changes, partnerships and deals
- **Positioning:** Clear Evaluation of Company ecosystem, potential partners, pipelines
- **Parallel Research:** Actions/outcomes market tracking and forecasting
- **Financial profiling:** Full profiling of financial statements and associated activities within market and cross market scopes.
- **Public Statements:** Tracking of Public statements of staff, directors, entities
- **Undisclosed Information Tracking**: Cross-Analysis for prediction of undisclosed states/actions within the entity

Automated Financial Analytics



Why?

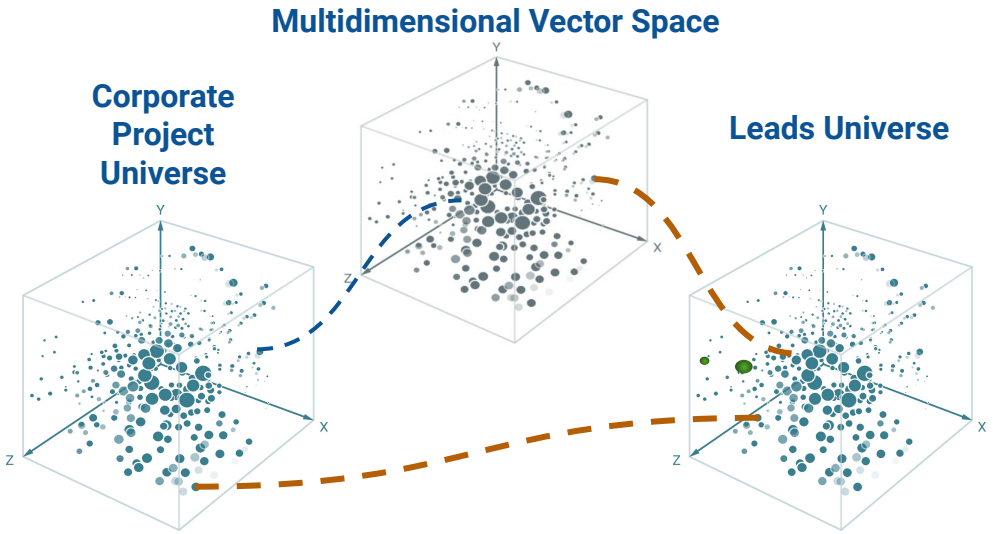
W Writing reports made easy!
Don't waste your time and money on market reports

O Operate with the Machine Learning-based data insights

R Reinforce your market analytics with zero efforts

D Dedicate more time to things that matter

Synthetic Operational Environment and Advanced Dynamic Visualisation



5 Core Algorithms	4 Analytical Frameworks
12 Visualisation Tools	30,000 Parameters
NLP Companies and Investors Evaluation	AI-Driven Recommendation System

Key Features

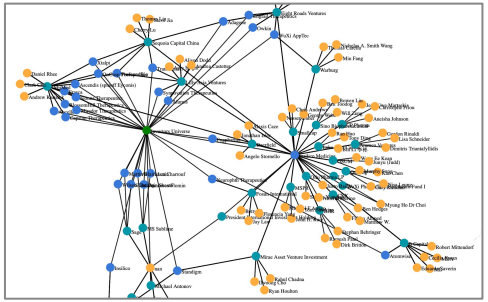
V — **V**ariety of parameters brought together to provide the meaningful market intelligence

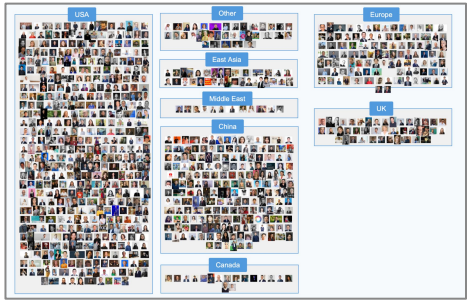
I — **I**ntersectoral and cross-sectoral entities assessment

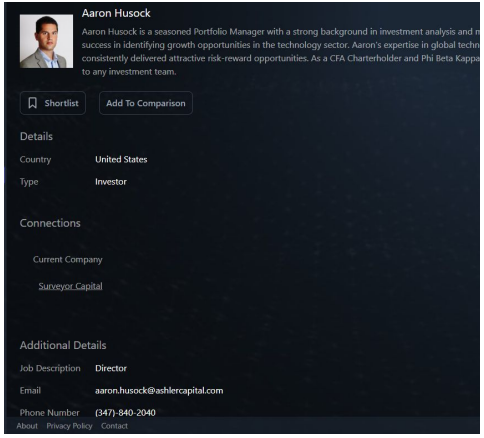
E — **E**ntry and advanced levels of analysis suited for different types of users

W — **W**eekly-curated database for the latest news analysis across different topics

Leads Profiling







Key Features

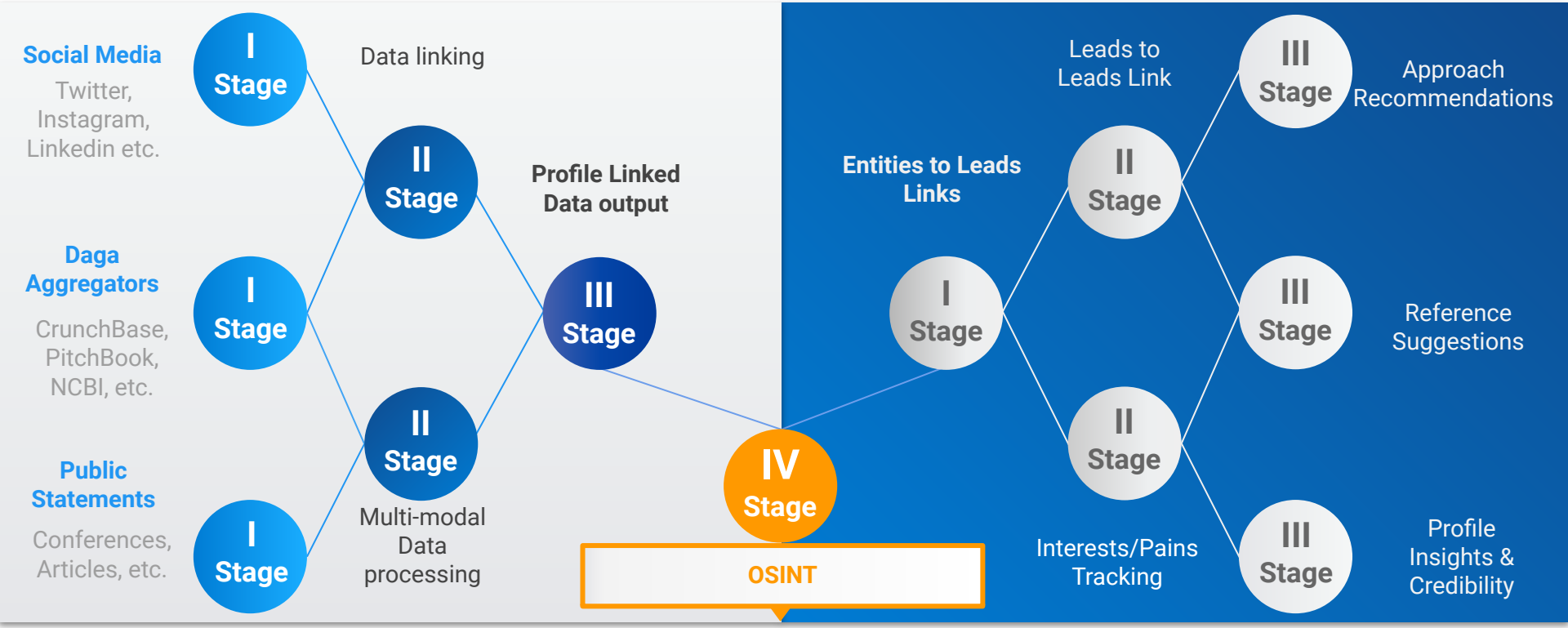
Leads Universe Mapping

- **Leads Connections Mapping:** Leads Are interconnected based on their relationship to other important Leads
- **Leads To Entities Mapping:** Each lead Is associated with entities based on Open source data scraping which showcase his potential interests and history
- **Interactive Map:** Leads Universe has Multiple alternative interactive visualisations for analysis

Leads Personalities Profiles

- **Multiple Outputs:** Profiles can be showcased or saved in a PDF format within the dashboard.
- **Auto-Generated:** Profiles are Auto Generated based on information from the open sources including contact information
- **OSINT Enhancement:** Profiles can be automatically enhanced upon request to showcase all the data on each lead in analysis

Open Source INTelligence Analysis

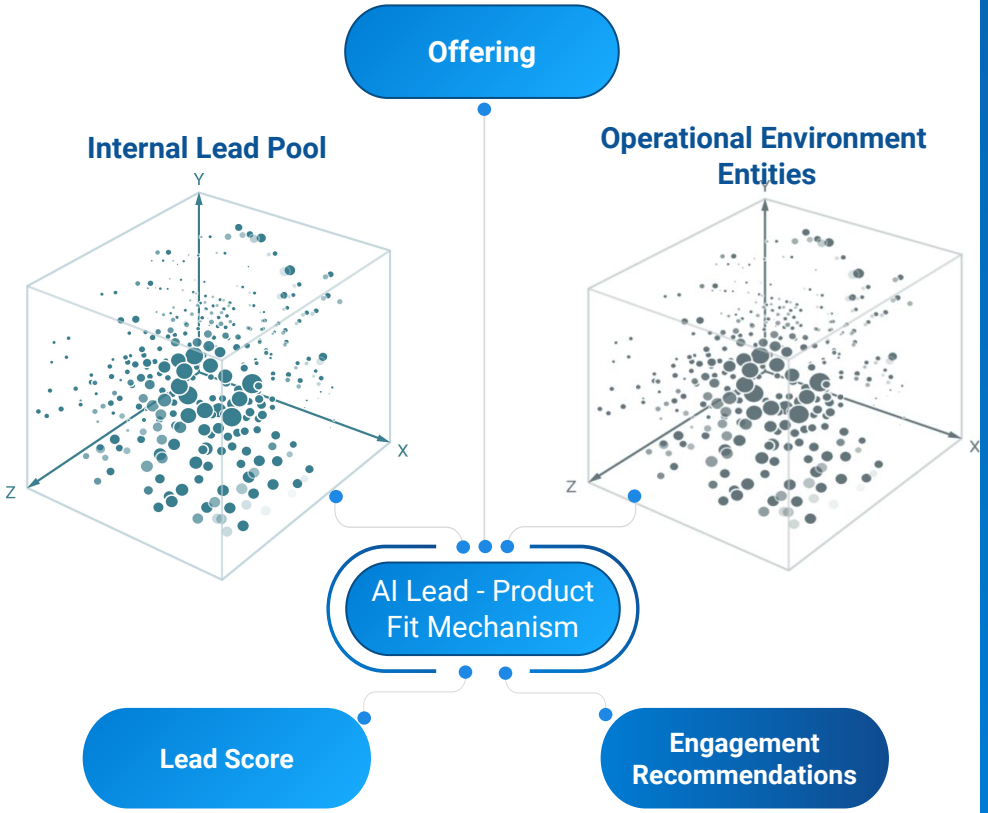


Public Information Sources

Automated Full scope Open Source Data Scraping Lead or Entity Focused

Data Output

Lead Scoring & Matching System



Key Features

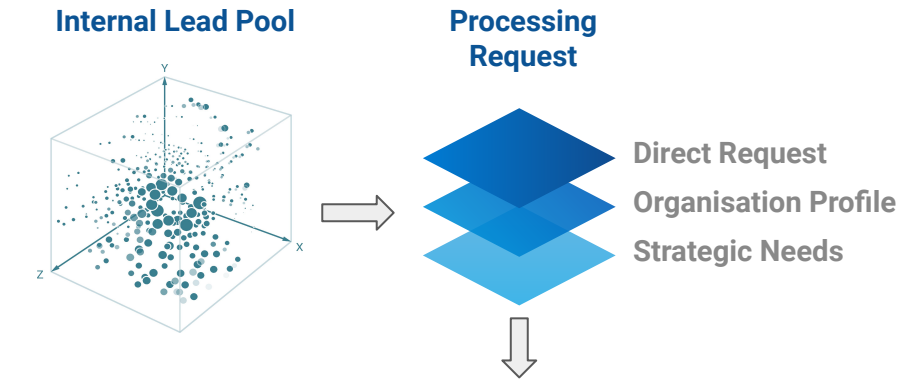
Leads Scoring Mechanism

- **Offer Tied:** The score assigned to lead is tied to the offering shosen, thus is situative and tied to your proposal
- **Auto-Generated:** Is automatically generated and encompases multiple parameters of evaluation
- **Comparative:** Is relative to other potential leads showcasing you the most prominent engagement points

Engagement Recommendations System

- **AI Driven:** Utilises Analytical and Generative Engines
- **Autonomous:** Generates recommendations for engagement not based on scores, but tied to the offer
- **Generative:** Bares the capability to provide engagement scripts and initiate prior reachout with the lead based on recommendations, contact details, methods chosen.

Industry Head Hunting



Key Features

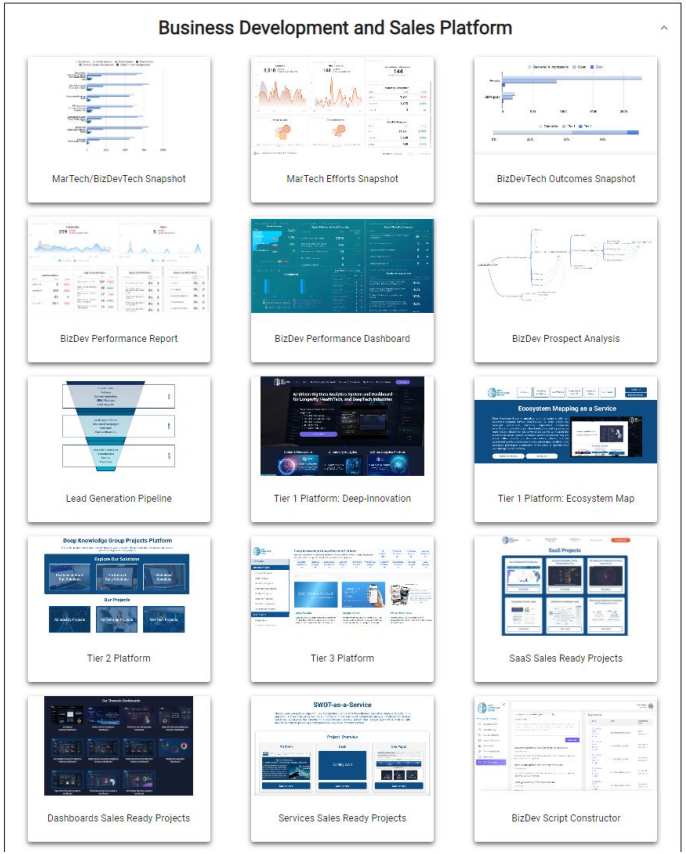
Enhanced OSINT

- **Public Profile:** Delves into statements and opinions expressed publicly to assess relevancy and insight
- **Background Analysis:** Scrutinizes key competencies and relevant experience to evaluate utility and application.
- **Strategic Fit:** Assesses individual alignment with the team, using the company's profile as the benchmark for evaluation.

Company/Role/Lead Fit evaluation

- **AI Driven:** Employs an AI engine to determine the individual's compatibility with the team and company based on nuanced industry data.
- **Multi-Modal:** Integrates a comprehensive assessment of the candidate's background to determine potential contributions and impact.
- **Recommendations:** Generates tailored suggestions for personalized outreach strategies, enhancing initial engagement potential.

Engagement Management System



Key Features

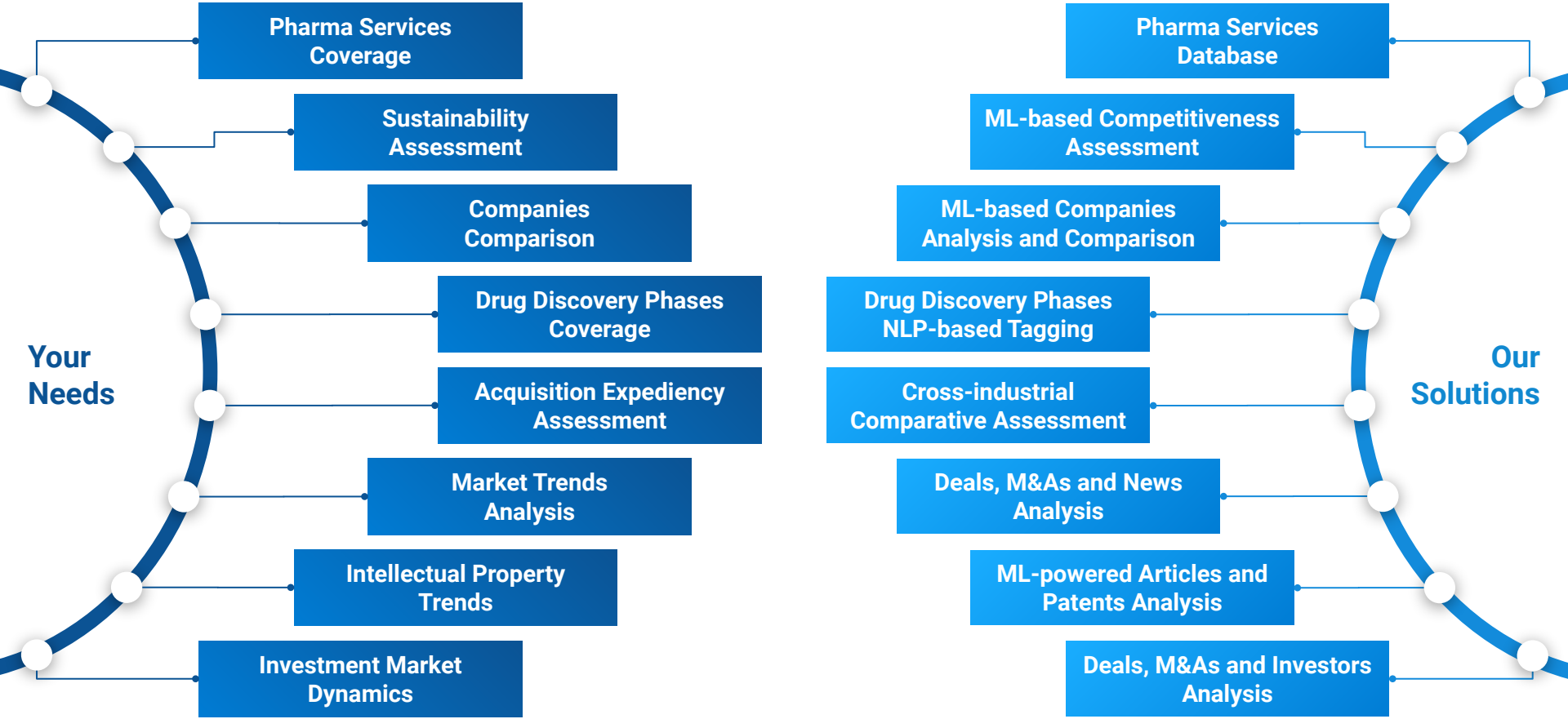
Engagement Tracking System

- **Conversion Dashboard:** Displays the effectiveness of outreach campaigns, tracking progress up to the point of the first interaction or call with the lead.
- **Funnel Construction:** Allows for the customization of steps and actions undertaken by the AI agent, enabling adaptive engagement strategies.
- **Conversion Enhancement**: Integrates references and personal touches in lead engagement strategies, utilizing relational data to improve conversion rates.

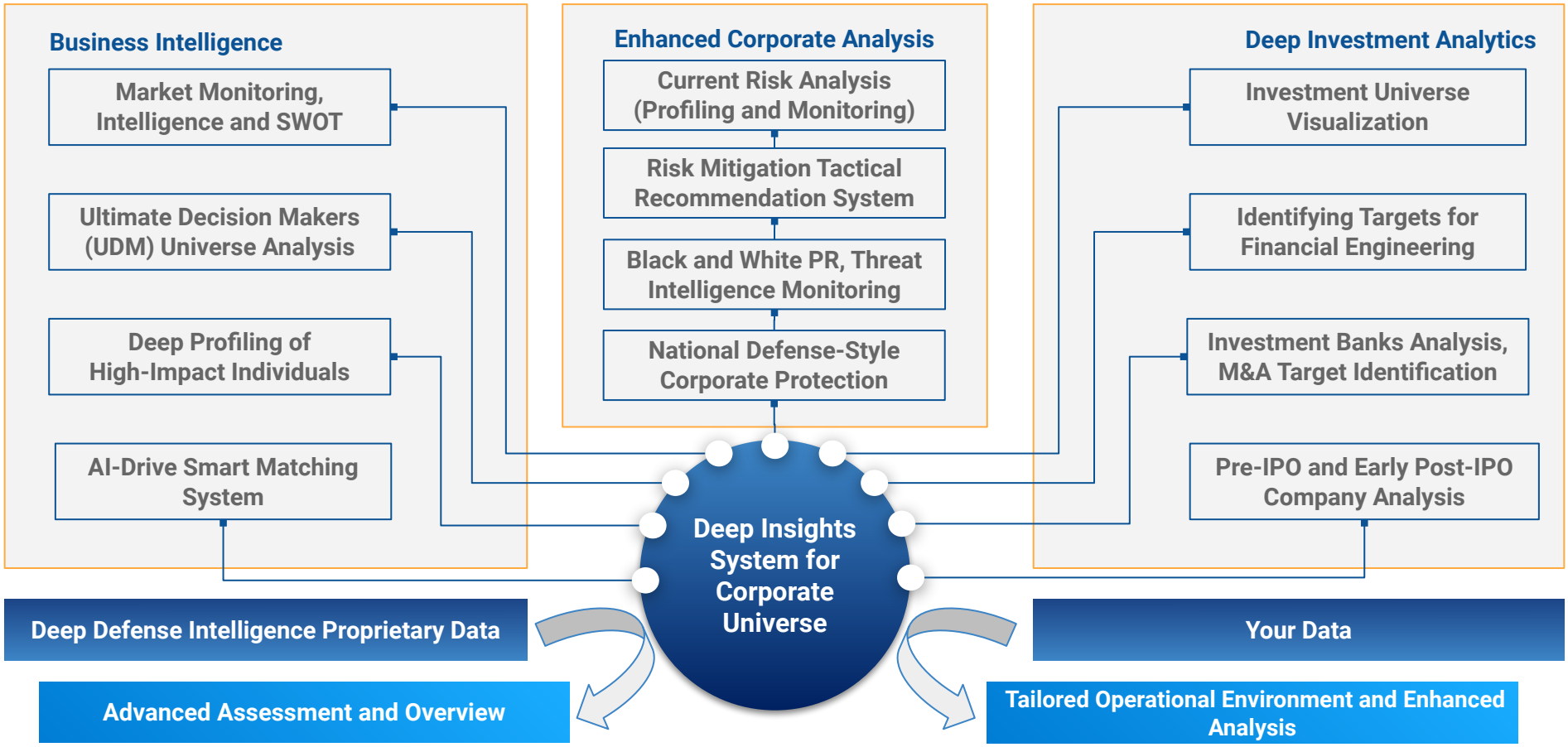
Company/Role/Lead Fit evaluation

- **Tailored Materials:** Crafts individualized decks, offers, and other materials for specific engagements.
- **Personalized Approach Recommendations:** Provides strategic suggestions for lead engagement, tailored to each lead's unique profile and potential interests.
- **Automated Outreach Campaigns:** Employs an AI engagement agent to autonomously conduct outreach via social media, email, and other channels, optimizing the initial connection process.

Proposition Summary: Your Needs and Our Solutions



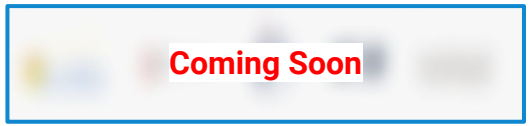
Special Tools Section



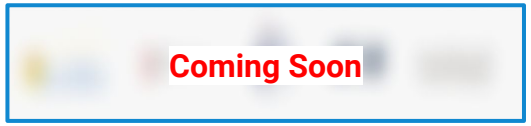
AI Pharma Industry In-depth Analysis: Planned Components

Private Companies Analysis

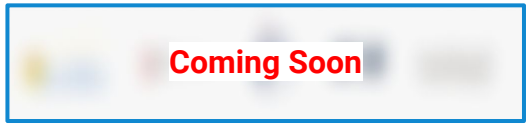
1. Suitable Companies for M&A:



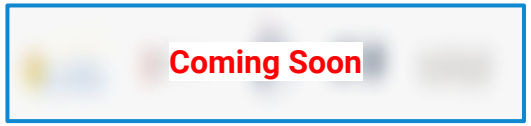
2. Suitable Companies for Reverse IPO:



3. Suitable Companies for SPAC:



4. Companies with Inconsistencies:



Public Companies Analysis

1. Overvalued Companies:

2. Companies Relevant for Delisting:

3. Companies Prospective for M&A

4. Companies with Inconsistencies:

5. Recent IPOs Analysis:

Other Analysis Types

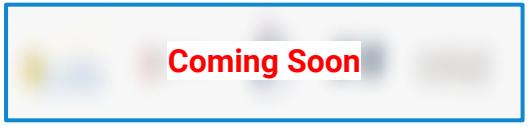
1. BioTech IPO Advisors Banks:

2. Investment Funds Analysis:

3. Stock Exchanges Analysis:

4. Derivative Analysis

5. Personalities Interconnections:



DEEP KNOWLEDGE GROUP

DEEP PHARMA INTELLIGENCE

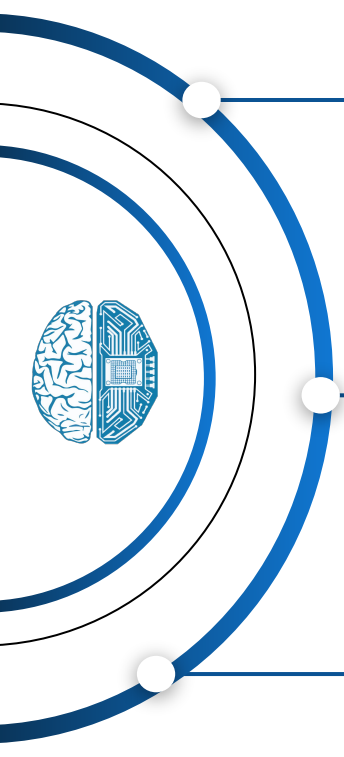
Deep Pharma Intelligence Overview

Document Intended Exclusively for Professional Counterparties

www.deep-pharma.tech

About Deep Knowledge Group

Deep Knowledge Group is a consortium of commercial and nonprofit 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.



Deep Knowledge Group runs several data-driven **investments and financial vehicles**

- DEEP KNOWLEDGE VENTURES
- InvestTech Platform
- LONGEVITY FINANCIAL CLUB
- DeepTech and Longevity Industry Financial Advisors
- LONGEVITY CARD
- LONGEVITY CAPITAL

Deep Knowledge Group's **analytical subsidiaries** are world leaders in analytics for DeepTech and Longevity industries

- AGING ANALYTICS AGENCY
- Big Data Analytics Department
- GovTech Analytics
- FemTech Analytics
- NeuroTech Analytics
- DEEP KNOWLEDGE ANALYTICS
- SpaceTech Analytics
- DEEP PHARMA INTELLIGENCE

Deep Knowledge Philanthropy pioneers several infrastructural **social impact projects**

- DEEP KNOWLEDGE PHILANTHROPY
- 5th Industrial Revolution Institute
- LONGEVITY INTERNATIONAL
- ATLAS
- Swiss Longevity Valley
- Biogerontology Research Foundation — Prevent. Restore. Preserve.
- Philanthropy International

Analytical Methods and Systems Developed by Deep Knowledge Group

Created frameworks as a basis for further analytical research of complex industries

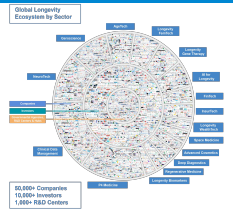
Frameworks of Complex Longevity and DeepTech Industries

2013

Produced first-of-their-kind reports on Longevity and DeepTech

Fundamental Analytical Reports

2014 - 2018



Industrial and regional representation of the market development

Advanced Visualisation of DeepTech Industries

2019

Different analytical products arranged into thematic dashboards

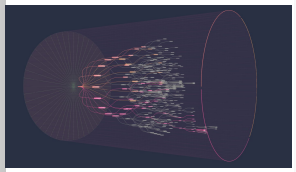
Big Data Analytics Dashboards

2020 - 2021

Extended the number of dashboards' tools and added the embedded AI engine

AI-driven Big Data Analytics System and Dashboards

2021 - 2022



Dashboards 2.0, 3.0 created Smart matching system

Enhanced Big Data Analytics systems with Operational Environment

2023-2024

Press about Deep Pharma Intelligence and Its Founding Partners

The Guardian	'Britain has all the required resources, as well as industrial and governmental will, to become a global hub for the technology by 2022, according to analysis by the Big Innovation Centre and **Deep Knowledge Analytics.**' *The Guardian.*
Forbes	'By 2022, the UK will be a global hub for blockchain technologies and the crypto economy. That is the claim of a new report from the Big Innovation Centre and **Deep Knowledge Analytics**, released last month'. *Forbes.*
MarketWatch	'If we were to follow the logic of these Short Sellers Reports to their fullest extent, it could be concluded that all innovative, DeepTech-driven companies working on something fundamentally new and disruptive may be easily accused in fraud," adds Co-founder at **Deep Knowledge Analytics Mr. Dmitry Kaminskiy.** *Market Watch.*
Bloomberg	Recent article in Bloomberg by Kanoko Matsuyama, 'Race for First Drug Discovered by AI Nears Key Milestone', on Insilico Medicine's recent progress in bringing an AI-discovered drug for idiopathic pulmonary fibrosis to mid-stage trials in China and the US. *Bloomberg.*
Bloomberg	Bloomberg's article shows this to be true, detailing many other recent AI in Pharma activities, programs and acquisitions being made by major players like Sanofi, Bayer, Roche, GSK, AstraZeneca, Pfizer, BioNTech SE, Illumina, Alphabet Inc., Google DeepMind, Tencent. *Bloomberg.*
Forbes	Deep Pharma Intelligence is pleased to have its Pharma AI industry analytics research featured in a recent article in Forbes, 'A New Era Of Drug Discovery With Biology-Driven AI', written by Forbes Council Member. *Forbes.*

Deep Pharma Intelligence — New Era in Pharma Analytics

Deep Pharma Intelligence (DPI), an analytical subsidiary of Deep Knowledge Group, is a highly specialised think tank in the area of BioTech innovation profiling, market intelligence, and BioTech development advisory. The company is dedicated to producing powerful data mining and visualisation systems, interactive analytics tools, and industry reports, offering deep technical insights, market intelligence, and strategic guidance in the high growth and significant opportunity areas.

DPI is Focusing on Three Key Activities:

Conducting Market Intelligence

Producing regular **open-access** and **proprietary reports** on the emerging topics and trends in the pharmaceutical and healthcare industries. All reports are supported by our back-end analytics systems and tools that allow to receive fresh insights and updates about opportunities and risks.

Creating Big Data Analytical Dashboards

Building a comprehensive **Big Data Analytical Dashboard** (SaaS) as a one-stop-platform for all market and business intelligence operations our customers may need, including profiling thousands of companies, market signals and trends based on tens of millions of constantly updated data points.

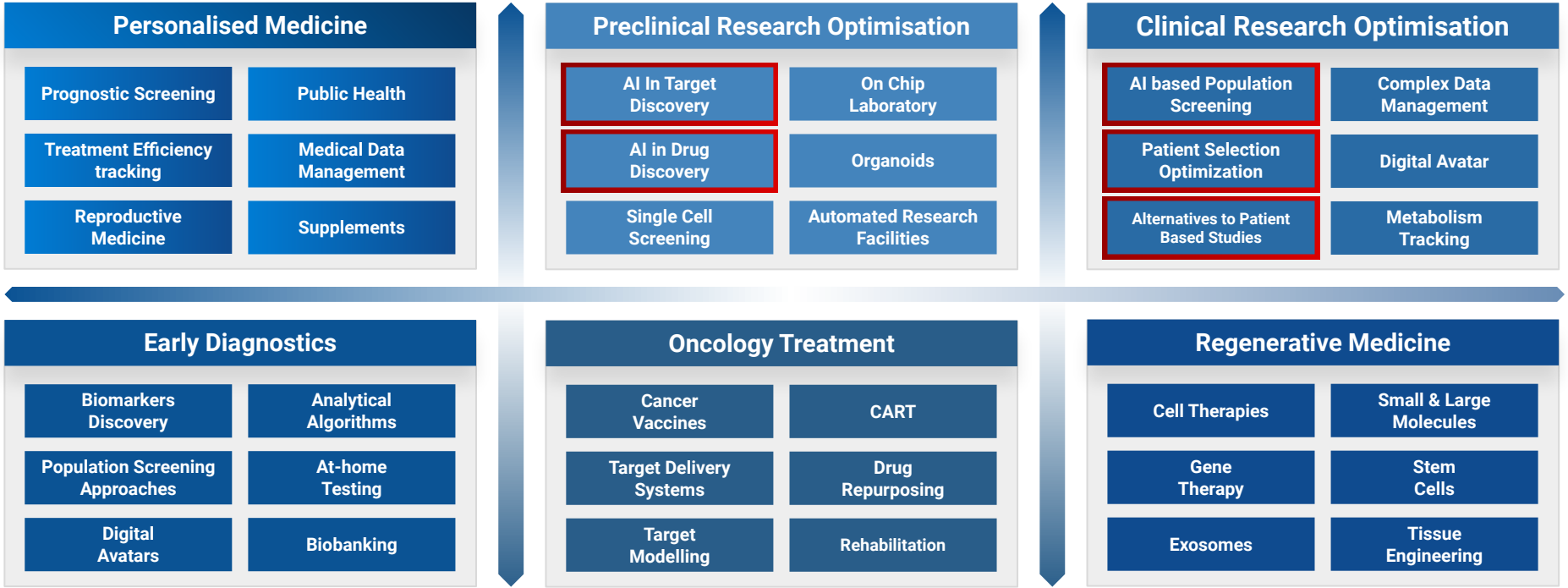
Producing Scientific Content

DPI provides a **full-cycle development of articles, scientific journals, and books**. We are ready to develop a detailed Requirement Specifications document, including layout of the journal, fully designed brand book, with example templates for each chapter.

www.deep-pharma.tech

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.**



Explore Deep Pharma Intelligence Solutions

Deep Pharma Intelligence is building a sophisticated cloud-based engine for advanced market and business intelligence in various deeptech industries.

We provide profound AI-driven insights on the private and public markets in the Tech industries via **customized IT-Platforms and Dashboards.**

Our Partners

Takeda

EVOMICS
Beyond the visible

DEEP KNOWLEDGE ANALYTICS

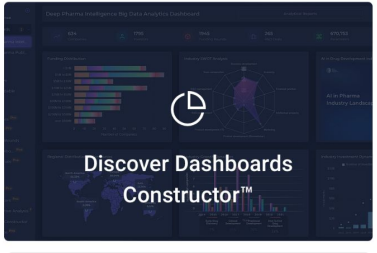
Bio Pharma Trend

AI Industry Analytics

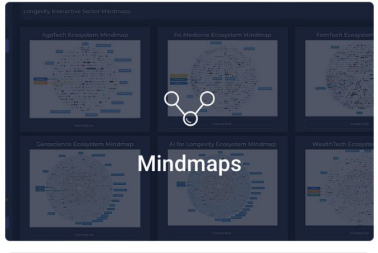
Order AI-driven research and data science reports tailored to your needs

Discover clinical trials conducted by AI for drug development companies

Get actionable insights on the flow of capital across VC, PE and M&A in the AI industry



Ultimate solutions for building customized Big Data Analytics Systems and Dashboards



Understand the connections between companies and investors within industry sectors

Connect to industry professionals for fruitful relationships

DEEP
KNOWLEDGE
GROUP
LIFE SCIENCES DIVISION

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Deep Pharma Intelligence Products Platform: www.deep-pharma.tech/products	