DEEP KNOWLEDGE GROUP

National Industrial Ecosystem Mapping Platform

Advanced Solution for Attracting Inward Investments and Showcasing Your Nation’s Position in Global Tech Arena

Strictly Confidential

www.dkv.global
www.ecosystem-map.info

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Proposal Scope and Structure

Tech in National Ecosystem Mapping Platform: Key Digital Asset for Showcasing Unique Features of National Tech Ecosystem

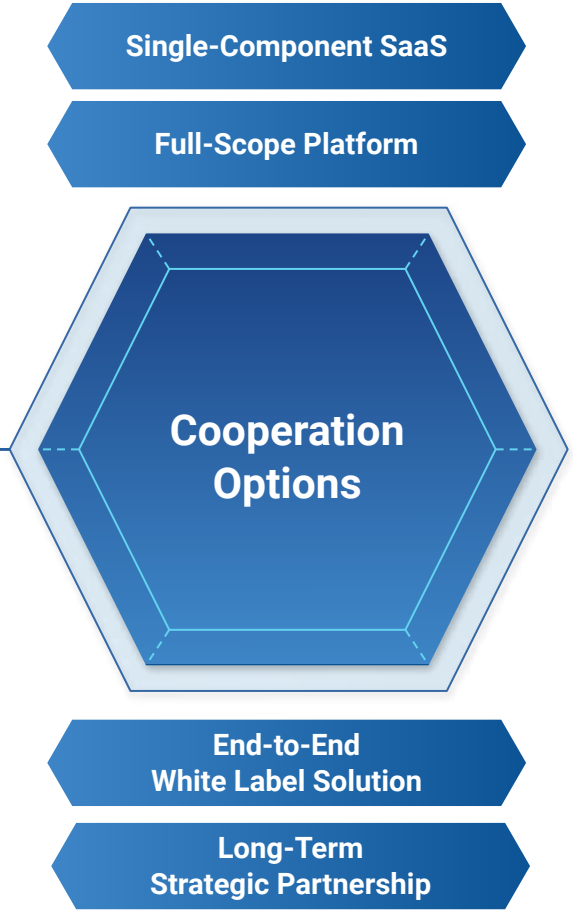
Corporate Ecosystem Mapping: Sophisticated Tech for Showcasing Your Nation and Government's Achievements, Assets and Strengths

Enhancing Corporate Web Visualizations with Interactive Advanced Visualization Elements: Enhance Public Face of 'Invest-In' Entities

Full-Stack Solution for Promoting Inward Investment, Companies and Talent Relocation and Presenting Competitive International Presence

One-Stop-Shop or Analogy to Digital Pavilion for Your Nation's and Government's Industrial Assets and Mission and Value Offering

Efficient Tool for Lead Capture and Conversion (Semi-Automatic Mechanism for Making Leads Approach Client Themselves)



Proposal Overview (Tiers 1-2)

1. **Corporate Ecosystem Mapping IT-Platform Production**
   - 1.1. Dedicated Corporate Ecosystem and Inward Investment Platform Production (Example 1, Example 2)
   - 1.2. Technologically sophisticated, visually engaging and psychologically impactful showcase of the activities, assets and achievements of inward investment, 'Invest-In' and national economic development agencies
   - 1.3. Powerful lead engagement tool to stand out from other regional investment bodies in terms of technological sophistication
   - 1.4. Ideal for lead and stakeholder negotiations and public promotion
   - 1.5. Can also provide overall enhancement of website visual sophistication and interactivity to better showcase unique strengths
   - 1.6. Beyond proprietary visualization tech, we regularly monitor, analyze and benchmark (rank) the degree of municipal website visual sophistication for the purposes of competitive intelligence

2. **National Tech Ecosystem Mapping IT-Platform Production**
   - 2.1. Full Coverage of National Tech Industry Ecosystem (Example 1, Example 2)
   - 2.2. Options for End-to-End Mega-Platform or for Custom Industry and Sector Focus
   - 2.3. Provides ergonomic and actionable industry monitoring, understanding sector and technology composition and segmentation, and identifying emergent industry players
   - 2.4. Ideal for showcasing your nation's unique Tech Industry assets for attracting inward investment and promoting company/talent relocation

Proposal Overview (Tiers 3-4)

3. Proprietary Big Data Analytics, Investment Relations and Business Intelligence Dashboard Production

1.1. Sophisticated end-to-end White Label Solution for Tech Industry investment universe analysis, monitoring, market intelligence, benchmarking, automated business development and investor relations (Example)

1.2. The N1 technologically sophisticated data-driven and AI-augmented solution to corporate defence, development and management in the 21st century.

1.3. Specific components include Operational Environment Module, Business Intelligence Module, Business Development Module, Engagement Relations Management Module, Investment Relations Module, Individual Leaders Module, Head Hunting Module, Scenario Forecasting Analysis Module and Financial Engineering Module.

4. End-to-End National Digital Emulation of National Tech Ecosystem

1.4. Enhanced, AI-augmented White Label Solution for National Digital Emulation (End-to-End Digital Emulation of National Tech Ecosystems).

1.5. Extremely comprehensive digital emulation (digital and mathematically modelling) of National Tech Industry, Ecosystem, and Economy

1.6. 'in vitro'-style testing of the impact of actions (infrastructural, investment, policy, etc) on short and long-term dynamics of Tech Industry development

1.7. Utilizes Deep Knowledge Group's proprietary Long Term Technological Forecasting System to model, simulate and forecast evolutionary trajectory of technologies and industries

Value Proposition

Our front-end interactive visualization technologies and Ecosystems Mapping Platform assets and capabilities constitute the ideal secret weapon for organizations seeking to showcase their own activities and efforts in a more modern, engaging, immersive and sophisticated way, foster partnerships more effectively, and optimize their own strategic decision making within the ecosystems they are active within.

This range of products and services, from front-end website visualization sophistication enhancement to the creation of dedicated Tech Ecosystem Mapping Platforms, constitute one of the most efficient and economical tools for inward investment, national economic development agencies and related organizations to:

- **Expand its international visibility and recognition**
- **Create the impression of a one-stop-shop or analogy to digital pavilion for its mission, achievements and assets**
- **Optimize and expand its engagement efforts with regards to attracting inward investment**
- **Create and consolidate a maximally actionable and tactical next-generation Brand Kit**
- **Build a maximally sophisticated, interactive, immersive and engaging digital environment for lead capture and conversion that serves as a semi-automatic mechanism for attracting relevant leads to approach your agency for cooperation, rather than the other way around**

Licensed and originally developed as an internal product by Deep Knowledge Analytics, the tech ecosystem analytics subsidiary of Deep Knowledge Group, internationally renowned for their 10-year track record of excellence in analysing, benchmarking and forecasting operationally complex tech industries and innovation ecosystems, this unique IP has been intensively designed to significantly surpass the current state of the art in industry ecosystem mapping, and is now for the first time available a service for external clients.

No other system in the world is capable of constructing domain-specific ecosystem mapping platforms at such speed, with such technological, ergonomic and visual sophistication, or with as broad a range of 2D and 3D advanced visualisation tools and add-ons, and no service provider is more experienced in creating ecosystem mapping platforms tuned to the operational and regional specifics of a given industry or geography.

Concrete Use-Cases

Use Cases for Ecosystem Mapping-as-a-Service

Visual Explanation (Without Words) of Your Nation's Tech and Industrial Ecosystem Size, Diversity and Exact Advantages

Sophisticated Showcase and Visual Asset for Conferences, In-Person and Online Meetings and Negotiations

Compelling Visualization of Kong Kong Industrial Advantages for Use on Client's Official Website

Demonstrates Deep Expertise (Intimate Knowledge, Exact Understanding) of Nation's End to End Industrial Ecosystem

Variable and Custom Scope and Thematic of Ecosystem Mapping Platform

Depending on the desired scope of the client's ideal Ecosystem Mapping Platform, we can produce a platform to specification on various industrial scales, including:

- Single Industry Ecosystem Mapping Platforms (e.g., Digital and IT, BioTech, FinTech, etc): EXAMPLE
- Domain-specific ecosystem mapping platforms (e.g., Science Ecosystem, Philanthropy Ecosystem, etc.): EXAMPLE
- End-to-End National Industrial Ecosystem Meta-Platform (containing multiple industry-specific sub-platforms): EXAMPLE
- Invest-In Platform (specifically emphasizing your government's Inward Investment Potentials): EXAMPLE

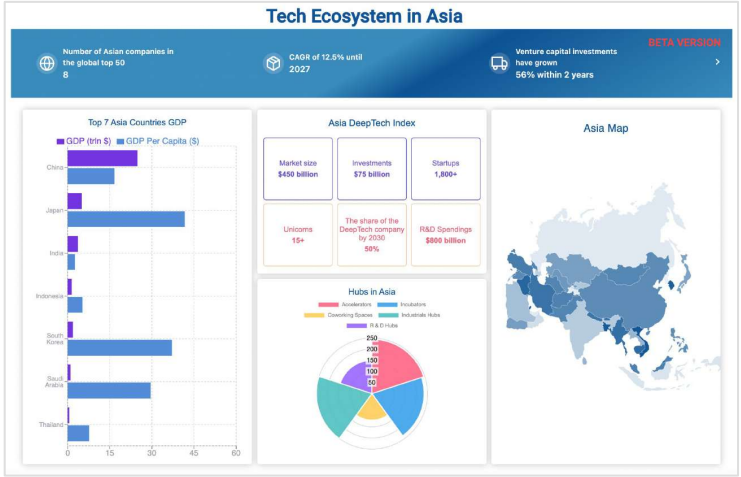
Invest in National Platform Mock-Up

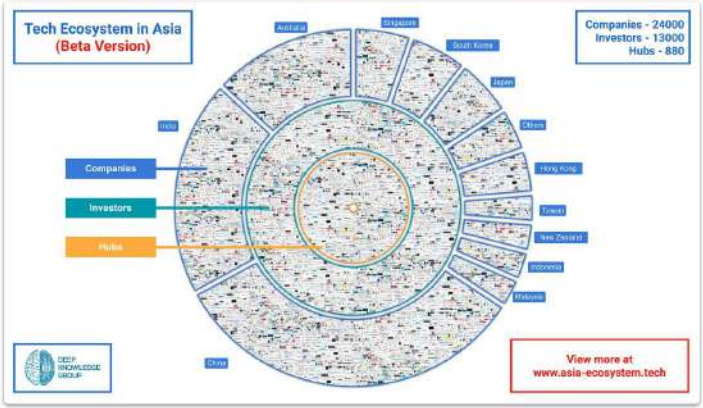
Collaborate with us | Invest in Hong Kong Database | Suggest Organisation

www.ecosystem-map.info/invest-hk

Tech Ecosystem in Asia Mega-Platform (Example)

www.asia-ecosystem.tech





Collaborate with us | Tech Ecosystem in Asia Database | Suggest Organisation

Because this Beta Version uses AI algorithms for semi-automated data aggregation with an 85-90% accuracy rate, we encourage users to let us know of any perceived inconsistencies in our platform database, and to suggest additional entities for inclusion.

Invest in Moldova Platform (Example)

www.invest-moldova.tech

Invest in Moldova's Dynamic Landscape

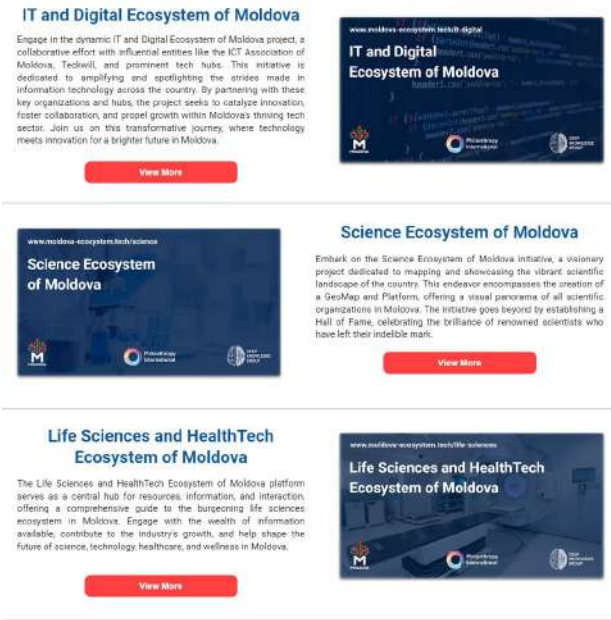
Moldova offers a diverse range of investment opportunities through platforms like Moldova IT Park, a globally recognized virtual structure with over 500 residents. The seven Free Economic Zones (FEZ) and 34 subzones provide preferential customs and tax benefits, including a 0% CIT for a specified period and ongoing support. Additionally, eight Industrial Parks support various industrial activities, offering incentives such as re-zoning, affordable land prices, and minimal state control. The Industrial Multifunctional Platforms, covering 300 hectares, act as robust industrial hubs, providing designated land, strong infrastructure, and essential utilities for seamless operations. Moldova's investment landscape is characterized by innovation, global recognition, and strategic incentives.

Invest in Moldova

"Invest in Moldova" is an initiative aimed at promoting and facilitating foreign and domestic investment in the Republic of Moldova. The campaign focuses on showcasing the country's economic potential, investment opportunities, and business-friendly environment. Moldova, situated at the crossroads of Europe and Asia, offers strategic advantages, including access to key markets and a skilled workforce. With a commitment to economic reforms, regulatory improvements, and support for various industries, Invest in Moldova seeks to attract investors, foster innovation, and drive sustainable economic growth in the region.

Moldova Tech Ecosystem Mega-Platform (Example)

www.moldova-ecosystem.tech

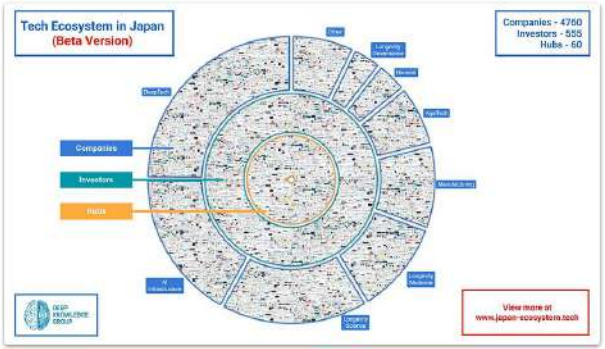


Watch Video Overview

https://www.youtube.com/watch?v=WQSsEEU8nAg

Japan Tech Ecosystem Mega-Platform (Example)

www.japan-ecosystem.tech



Collaborate with us | Tech Ecosystem in Japan Database | Suggest Organisation

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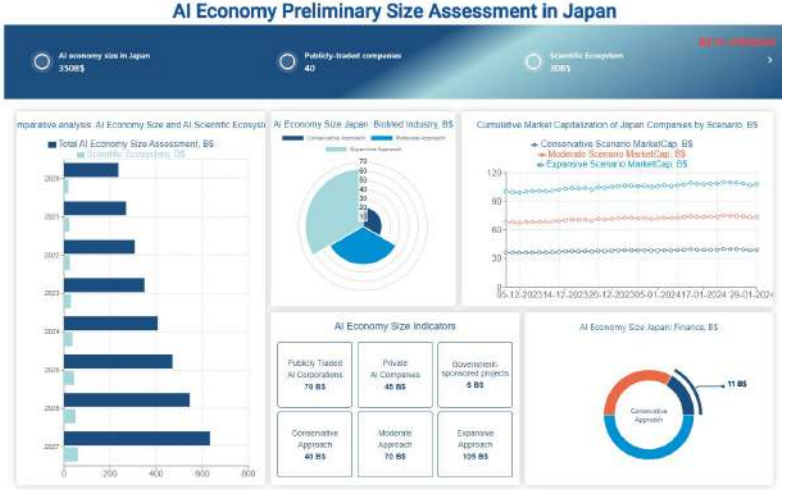
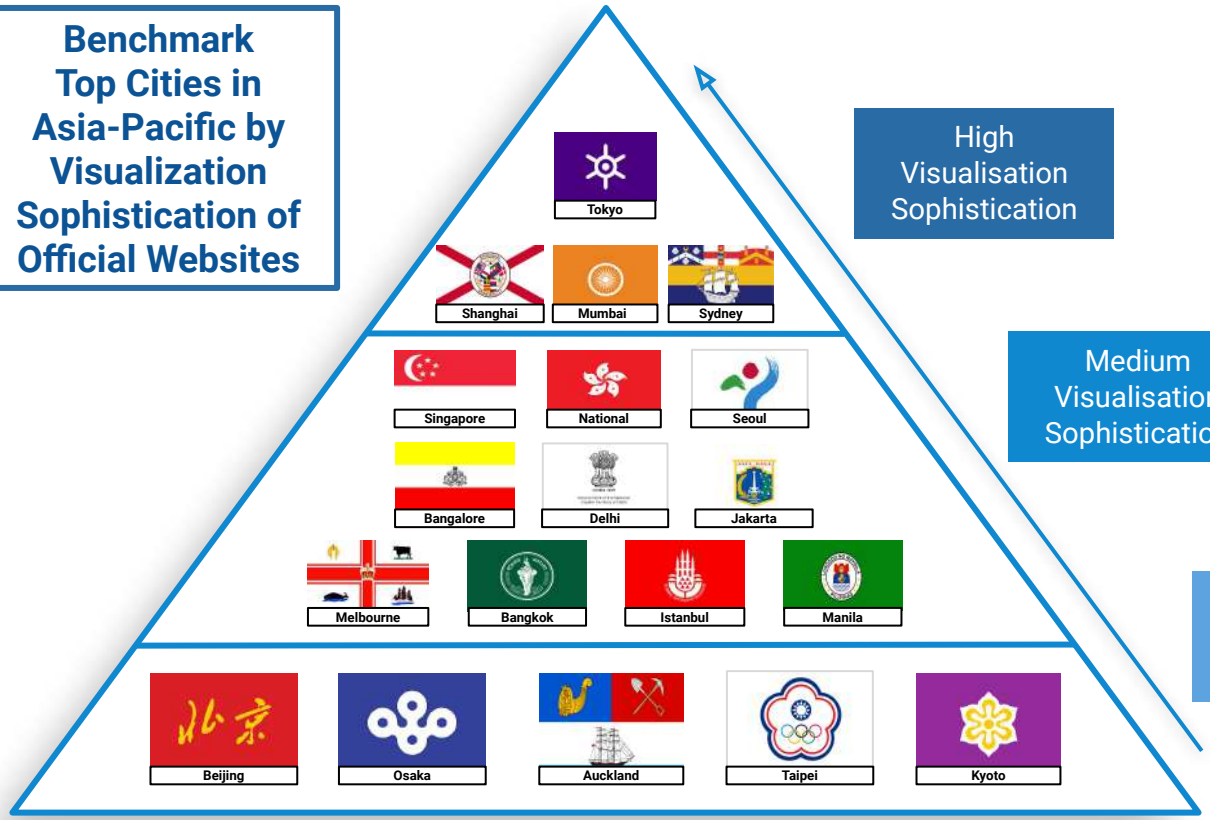


Website Visualization Enhancement (Example)

Benchmark Top Cities in Asia-Pacific by Visualization Sophistication of Official Websites



High Visualisation Sophistication

Medium Visualisation Sophistication

Low Visualisation Sophistication

We have conducted a detailed analysis and benchmarking of top cities globally by how sophisticatedly their industrial and economic activity is visualized on their regional websites in terms of interactivity, engagement and diversity-by-visualization-type.

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.

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

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

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

DEEP KNOWLEDGE GROUP

Industrial Ecosystem Mapping

(IT-Platform Production)

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www.ecosystem-map.info/invest-hk

Ecosystem Mapping-as-a-Service

Ecosystem Mapping as a Service offers the world's most advanced tech-stack for creating interactive domain-specific, regional and industrial ecosystem mapping platforms to showcase the unique strengths of tech, innovation and industry ecosystems in an unprecedentedly advanced, technologically robust and visually sophisticated manner.

Ecosystem Mapping Platform Components

- **Interactive Ecosystem Map**
- **Ergonomically-Designed Web-Based Front End**
- **Interactive Charts and Advanced Visualizations**
- **Searchable and FIlterable Ecosystem Database**

Licensed and originally developed as an internal product by Deep Knowledge Analytics, the tech ecosystem analytics subsidiary of Deep Knowledge Group, internationally renowned for their 10-year track record of excellence in analysing, benchmarking and forecasting operationally complex tech industries and innovation ecosystems, this unique IP has been intensively designed to significantly surpass the current state of the art in industry ecosystem mapping, and is now for the first time available a service for external clients.

No other system in the world is capable of constructing domain-specific ecosystem mapping platforms at such speed, with such technological, ergonomic and visual sophistication, or with as broad a range of 2D and 3D advanced visualisation tools and add-ons. Contact us to learn more today.

Ecosystem Mapping as a Service

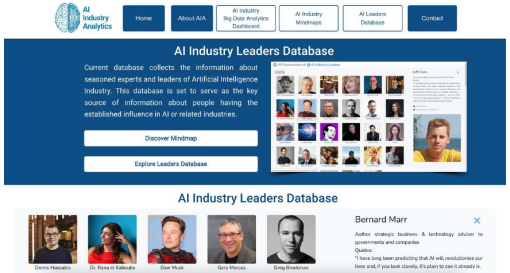
We can help you in 3 cases

If you have no data and no platform

We Can Provide Searchable and FIlterable Ecosystem Database

If you have data but no platform or any other IT solutions

We Can Provide Ergonomically-Designed Web-Based Front End



If you have platform and database but not advanced visualization

We Can Provide Interactive Graphics and Advanced Visualizations

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Ecosystem Map Admin Panel

GeoMaps

Europe Countries	12
Asia Countries	4
Americas	8
Others	4

Trees and Pathways

Evolution Tree	2
Net Tree Chart	1
Evolution Tree Without Date	1
Decision Trees	3
Direction Trees	2

Constructors

Dashboards	2
Geo Dashboards	1
Frameworks	2
Mindmaps	1
Hall Of Fame	1
Admin Panels	1

Others

Benchmark Tool Pyramid	2
Marquee Bar	1
Companies Table	1
Round Balloons	1
Charts	3
Key Indicators	1
SWOTs	4

Bar Charts

Comparison Bars	1
Vertical Bar Charts	3
Horizontal Bar Charts	2
Bar Charts 3D	1
Horisontal Animated Bars	1

Mindmaps

Circular Big Ecosystem Mindmap	1
Rectangle Big Ecosystem Mindmap	1
Ecosystem Benchmark Pyramid Mindmap	1
Interactive 2D Benchmark	1
Rectangle Mindmap	1

3D Visualizations

Pie 3D	2
Node Chart 3D	1
Globa Chart 3D	1
SWOT	2
Bar Chart 3D	2

Navigation Menu

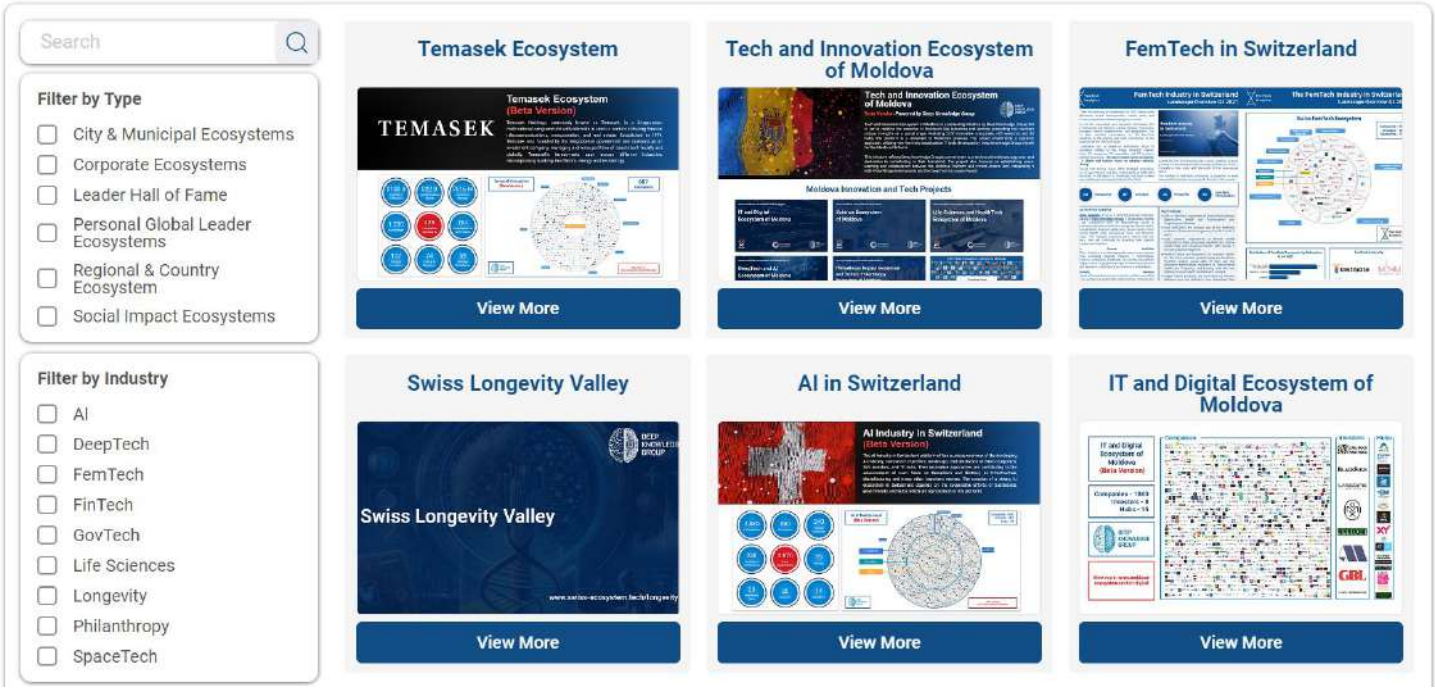
Advanced Frameworks	1
Navigation Panels	3
Custom Table	1
Navigation Spreadsheet Style	1
Companies List	2

Macroparameters

Round Cumulative Benchmark	1
Round Lists	1
Round Numbers	1
Lists	3

Regional Industry Ecosystem Mapping

Total Number of Ecosystems	Regional & Country Ecosystems	City & Municipal Ecosystems	Social Impact Ecosystems	Leader Hall of Fame Ecocystems	Corporate & Individual Ecosystems
236	112	18	63	36	7



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Mindmap with Interactive Connections

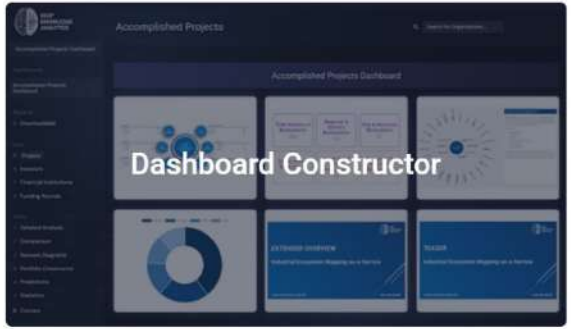
Rectangle Big Ecosystem Mindmap

GeoMap Style 1

GeoMap Style 2

Asia GeoMap

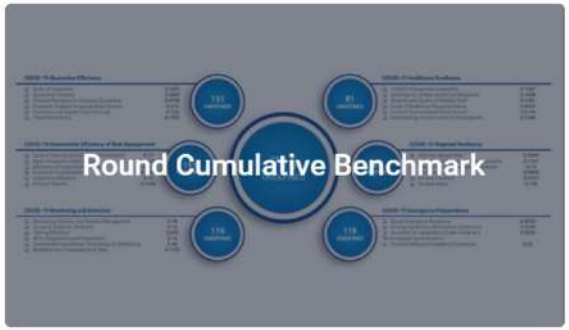
GeoEconomics Dashboard


Accomplished Projects
Dashboard Constructor

Circle Mindmap Metaverse

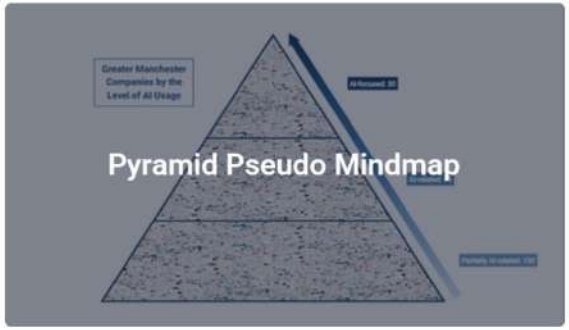
Complex Evolution Tree

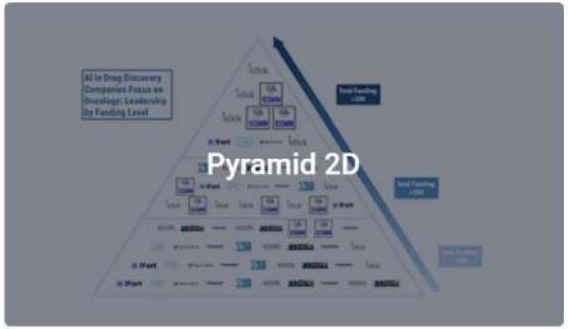
3D Multidimensional Space Tube

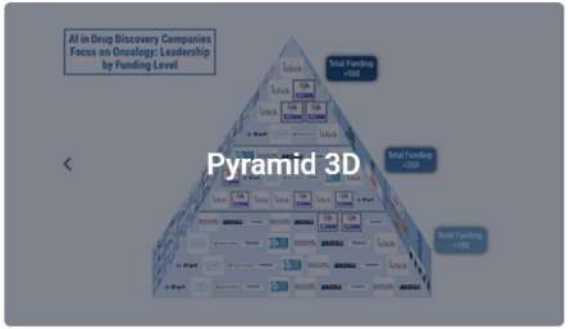

Round Cumulative Benchmark

Round Lists

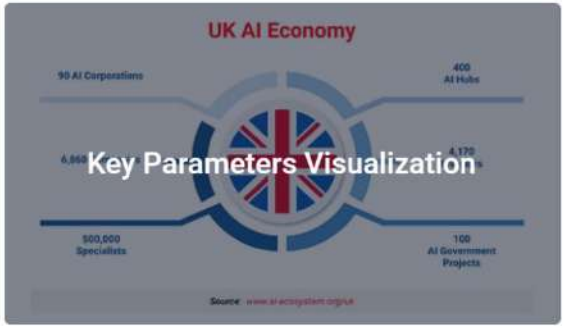
7,500
8,500
7,200
250
150
120
Round Numbers

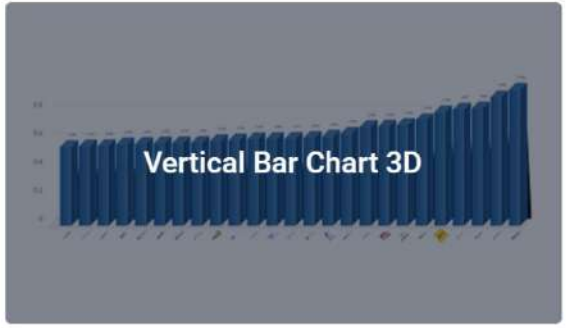

Greater Manchester Companies by the Level of AI Usage
Pyramid Pseudo Mindmap


AI in Drug Discovery Companies Focus on Oncology: Leadership by Funding Level
Pyramid 2D


AI in Drug Discovery Companies Focus on Oncology: Leadership by Funding Level
Pyramid 3D

Hall of Fame Constructor





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Accomplished Projects

Examples of the Ecosystem Mapping projects accomplished by Deep Knowledge Group

Total Number of Ecosystems	Regional & Country Ecosystems	City & Municipal Ecosystems	Social Impact Ecosystems	Leader Hall of Fame Ecocystems	Corporate & Individual Ecosystems
270	122	27	76	37	8

www.ecosystem-map.info/accomplished-projects

Our Ecosystem Mapping Track Record

Deep Knowledge Group has extensive experience producing more than 100 regional and industry-specific ecosystem mapping platforms on a variety of tech and innovation domains through its 12+ domain and industry-specific analytical subsidiaries, some commissioned directly by governments and government-affiliated entities (including the inward investment arm of the local Manchester UK government, the Scottish Government's national economic development agency, and Sharjah Research Technology & Innovation Park, a free economic zone of the Sharjah Emirate established by royal decree of the Ruler of Sharjah and member of the Federal Supreme Court of the UAE, among others).

Our Analytical Subsidiaries

Aging Analytics Agency	**Deep Knowledge Analytics**	**FemTech Analytics**
Artificial Intelligence Agency	**Deep Pharma Intelligence**	**NeuroTech Analytics**
Big Data Analytics Department	**GovTech Analytics**	**SpaceTech Analytics**

Platform Components: Front-End Website

Ergonomically-Designed Web-Based Front End

An ergonomically designed web-based front end, easily accessible and user-friendly, serves as a powerful tool for better data management and strategic decision-making processes for institutions supporting technological innovation.

For a representative example of Platform design and scope of functionality, see our recent project: www.ai-ecosystem.org/uk

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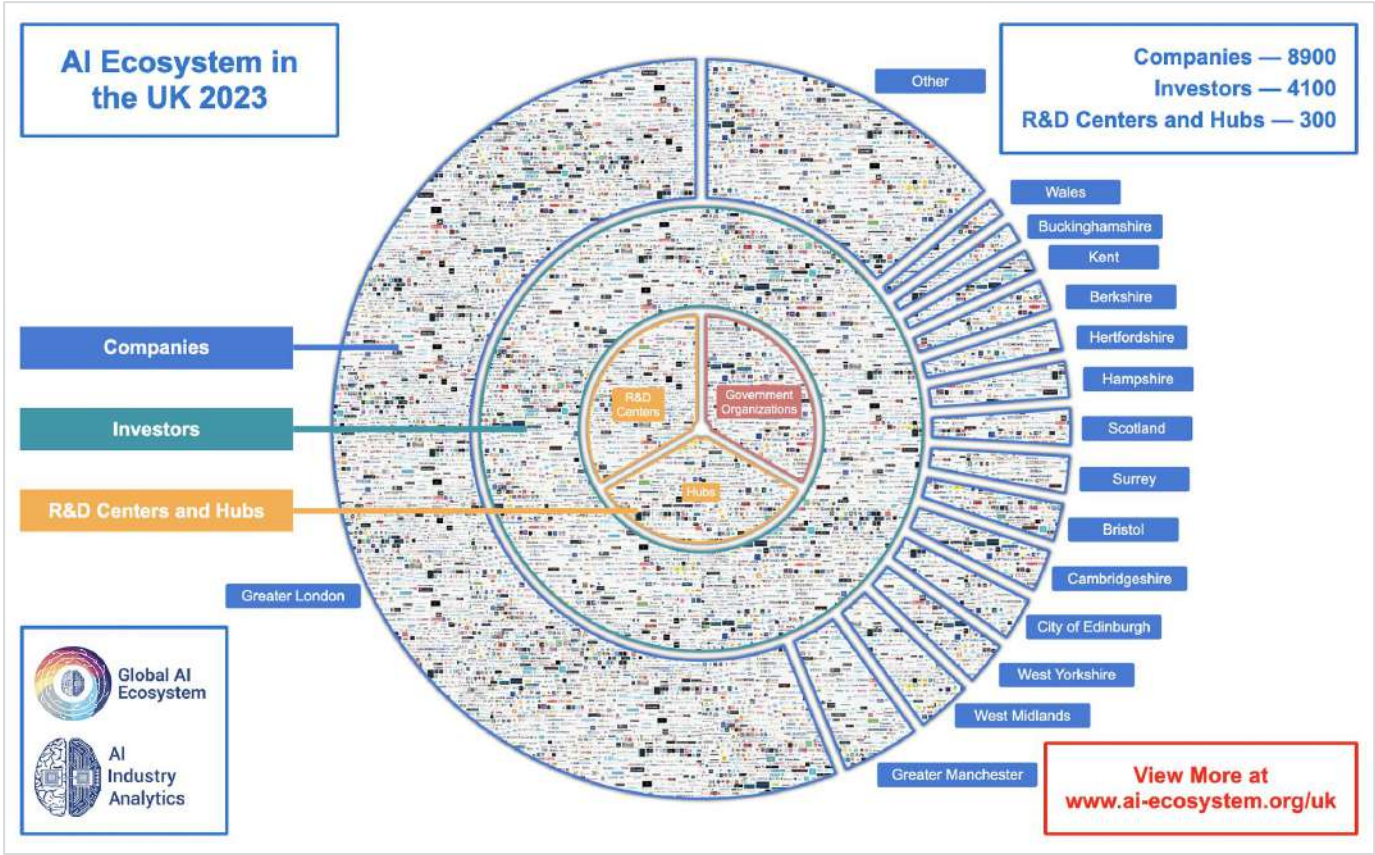
Platform Components: Interactive Ecosystem Mindmap

Interactive ecosystem maps visualize the logos of entities (companies, organizations, etc) within an ecosystem.

Categorized by different sectors and sub-domains, the logos are clickable and open individual entity profiles.

Users can select/isolate specific ecosystem sectors, and enable red connection lines and network diagrams that visualize associations between entities, such as collaborations or investments.



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Platform Components: Interactive Macro Parameters Panel

The interactive macro parameters banner is a tool that displays key features of the ecosystem.

This dynamic visual presents the primary quantities of different entities or parameters.

Users can interact with the banner to understand the ecosystem's main components and quantities.

Empowering data-driven decision-making, this tool provides clarity on the overall dynamics of the ecosystem

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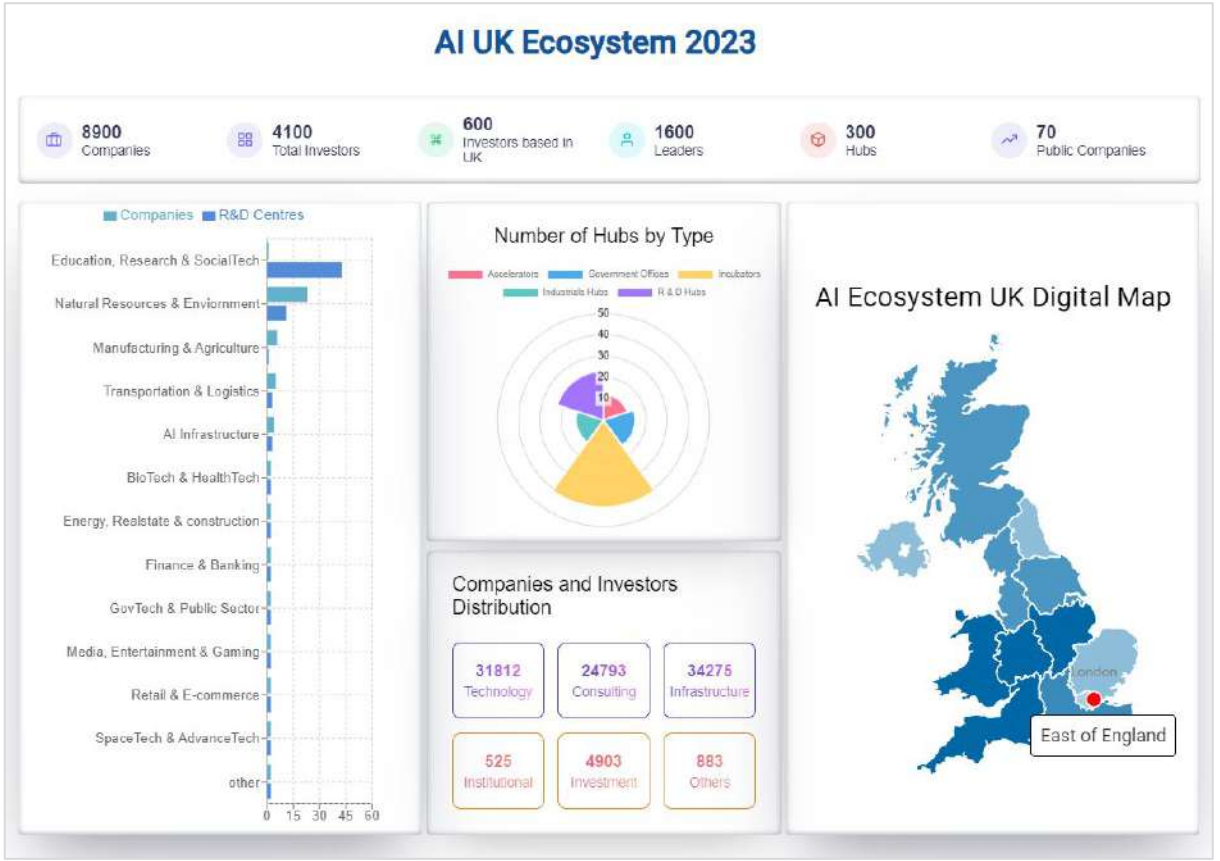
Platform Components: Interactive Visualizations

Interactive Charts and Advanced Visualizations

Interactive charts and advanced visualizations enhance the platform, providing dynamic insights and facilitating a deeper understanding of complex data, enabling users to interact with data by clicking elements and toggling dynamic functions.



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Platform Components: Ecosystem Leaders Database

'Leaders Database' (Interactive database of leading ecosystem professionals) provides an excellent pretext to engage with potential partners and collaborators, and secure ecosystem platform visibility among the top professionals of the domain-specific ecosystem

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Tech Ecosystem in Asia

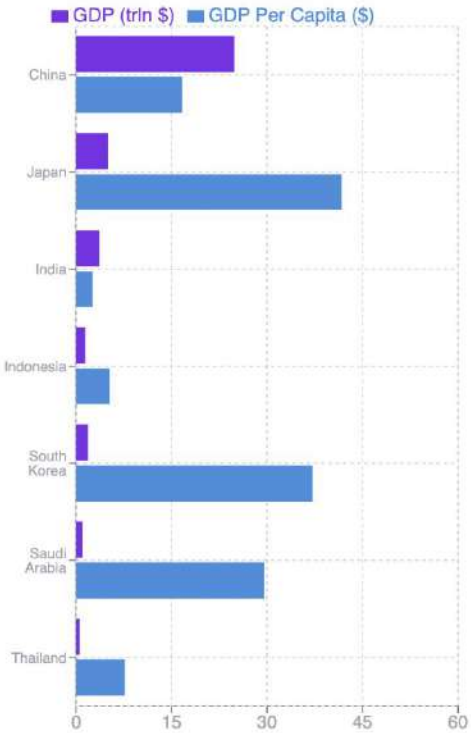
BETA VERSION

Number of Asian companies in the global top 50
8

CAGR of 12.5% until 2027

Venture capital investments have grown
56% within 2 years

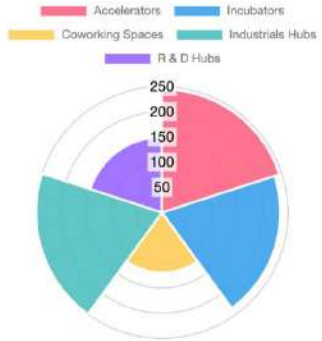
Top 7 Asia Countries GDP



Asia DeepTech Index

Market size **$450 billion**	Investments **$75 billion**	Startups **1,800+**
Unicorns **15+**	The share of the DeepTech company by 2030 **50%**	R&D Spendings **$800 billion**

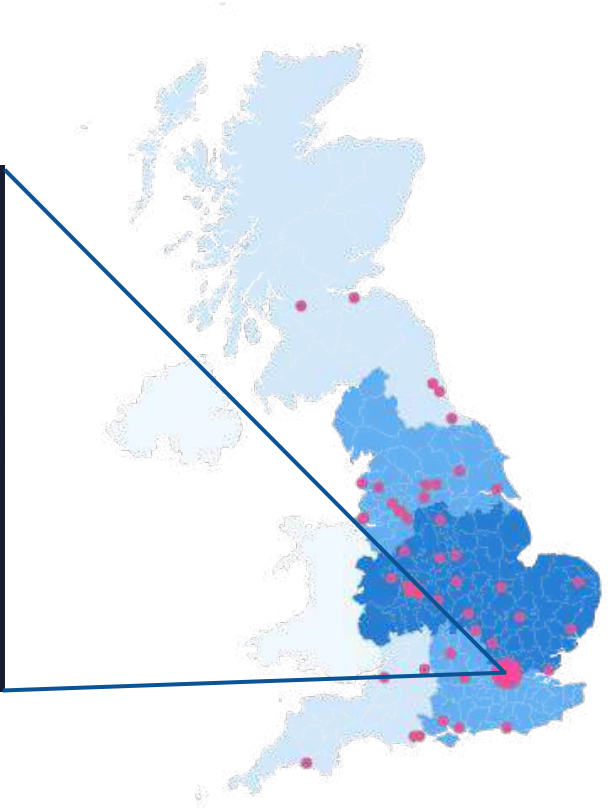
Hubs in Asia



Asia Map

Platform Components: Interactive Geomap

Detailed and filterable interactive geomaps provide a comprehensive analysis experience. Users can explore specific geographic data, patterns, and trends effortlessly. The accompanying detailed database visualization enhances the analytical process, allowing for informed decisions based on rich spatial insights



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DEEP KNOWLEDGE GROUP

Industrial Ecosystem Mapping: Showcase of Existing Asia Projects

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About Tech Ecosystem in Asia Mega-Platform

www.asia-ecosystem.tech

Tech Ecosystem in Asia is an advanced analytics platform developed via the joint efforts of a consortium of for-profit and nonprofit analytics companies including Ecosystem Mapping-as-a-Service, Global AI Industry Ecosystem Association, Deep Knowledge Analytics, Philanthropy.International, Longevity Industry Analytics, GovTech Analytics, FemTech Analytics, Deep Pharma Intelligence and 5th Industrial Revolution Institute, sponsored by Deep Knowledge Group and powered by its AI and Data Science Division.

Focusing on Three Key Activities:

AI-driven Analytics

AI is utilized at numerous stages in the process of an ecosystem mapping platform development. We have a variety of internally-developed AI algorithms using machine learning, natural language processing and other techniques for data collection, cleaning and validation, as well as algorithms.

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.

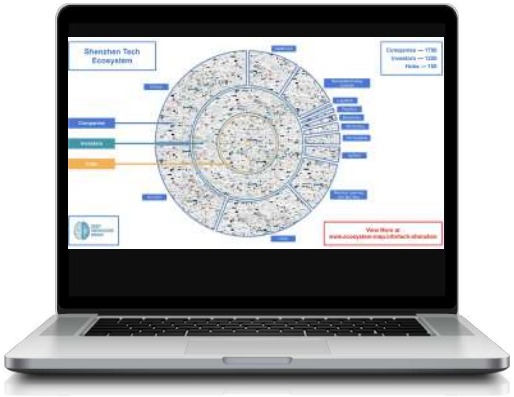
Ecosystem Mapping-as-a-Service

Offering the world's most advanced tech-stack for creating interactive domain-specific, regional and industrial ecosystem mapping platforms to showcase the unique strengths of tech, innovation and industry ecosystems in an unprecedentedly advanced, technologically robust and visually sophisticated manner.

Tech Ecosystem in Asia Thematic Platforms

Asia Science Ecosystem

Asia's science ecosystem is experiencing a new beginning, attracting investments from firms with an extensive presence in the region, such as Fidelity, which has been actively investing in Asia's largest economy.



AI Industry in Asia

The AI industry in Asia is poised for significant growth, with a focus on innovative solutions and actionable insights across sustainability issues, as highlighted by investment offerings from prominent firms.

Techno-Philanthropy in Asia

Investment opportunities are emerging that intentionally seek positive environmental and social outcomes, positioning the region as a focal point for impactful investments aimed at fostering sustainable development.

Invest in Asia

With Asia's long-term growth potential and resilient economic outlook, investors are increasingly bullish on the region, particularly focusing on sustainable investments and diverse opportunities within equity markets.

Our Asia Projects

Global Asia Projects

VIEW

Japan Projects

VIEW

Turkey Projects

VIEW

Gulf Region Projects

VIEW

UAE Projects

VIEW

Israel Projects

VIEW

Singapore Projects

VIEW

Corporate and Individual Ecosystems

VIEW

Asia Dashboards

VIEW

Global Asia Projects

AI in Drug Discovery in Asia

VIEW

SocioEconomic and Innovation Asia

VIEW

Longevity Ecosystem in Asia

VIEW

Longevity in Asia: Industry Ecosystem IT-Platform

VIEW

Asia Digital Ecosystem Big Data Analytics Dashboard

VIEW

SocioEconomic and Innovation Development Asia

VIEW

Financial Institutions in Asia

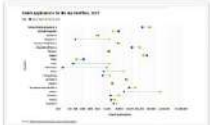
VIEW

DeepTech & AI in Asia Pacific Region

VIEW

AI for Drug Development Asia Landscape

VIEW



Innovations and R&D Asia

VIEW

Investment Digest Longevity in Asia 2021

VIEW

Longevity in Asia: FinTech Sector Spotlight

VIEW

SocioEconomic Development Asia

VIEW

GovTech in Asia

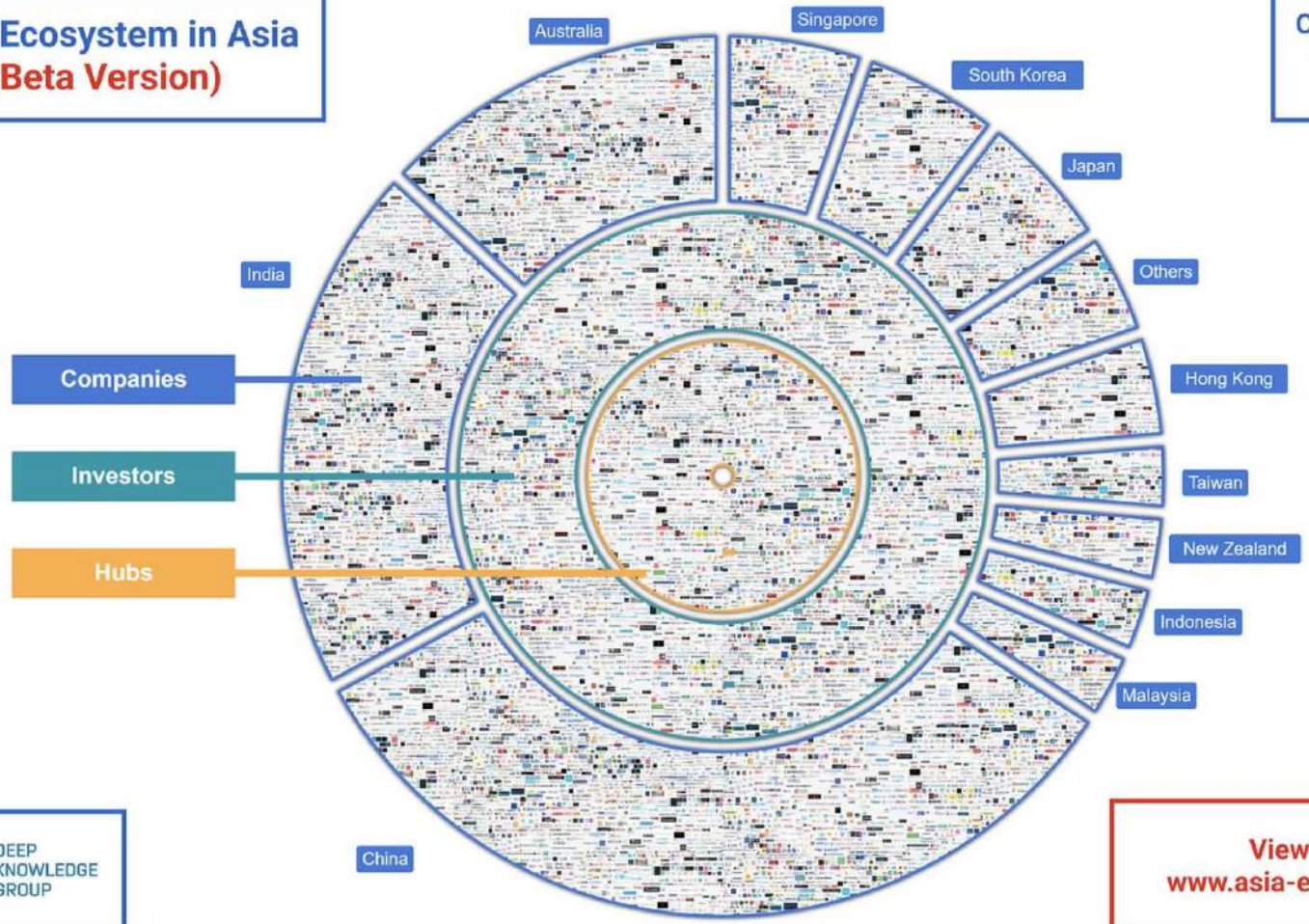
COMING SOON

Longevity in Asia: AgeTech Sector Spotlight

VIEW

Tech Ecosystem in Asia
(Beta Version)

Companies - 24000
Investors - 13000
Hubs - 880



DEEP KNOWLEDGE GROUP

View more at
www.asia-ecosystem.tech

Tech Ecosystem in Asia Projects

View More

View More

View More

View More

View More

View More

Japan Projects

Tech Ecosystem in Japan

VIEW

Invest in Tokyo-Japan

VIEW

Longevity Ecosystem in Japan

VIEW

FemTech Ecosystem in Japan

VIEW

AI Industry in Japan

VIEW

DeepTech Ecosystem in Japan

VIEW

www.asia-ecosystem.tech/japan

Japan Tech Ecosystem

FemTech in Japan

Japan's FemTech industry has gained significant traction, with the introduction of products and services aimed at addressing women's health needs, reflecting a burgeoning market for innovative solutions tailored to female-specific health concerns.

www.japan-ecosystem.tech/femtech

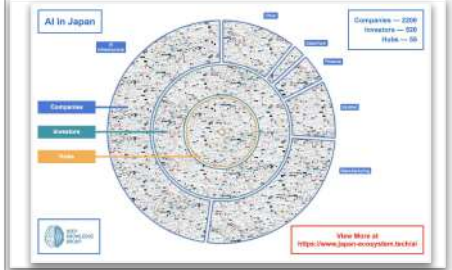
Longevity in Japan

Japan's focus on longevity is evident through its advancements in healthcare and technology, aiming to address the needs of an aging population while fostering innovations that enhance quality of life and well-being for individuals in their later years.

www.japan-ecosystem.tech/longevity

AI in Japan

Japan's engagement with AI spans various sectors, encompassing robotics, automation, and AI-driven innovations in healthcare and technology, positioning the country as a hub for pioneering developments in artificial intelligence.



www.japan-ecosystem.tech/ai

DeepTech in Japan

Japan's embrace of DeepTech signifies a concerted effort towards fostering groundbreaking technological advancements, particularly in areas such as biotechnology, advanced materials, and quantum computing, reflecting a commitment.

www.japan-ecosystem.tech/deeptech

DEEP KNOWLEDGE GROUP

Corporate Ecosystem Mapping IT-Platform Production

Website Visualization Sophistication Monitoring and Enhancement

www.dkv.global
www.ecosystem-map.info
www.ecosystem-map.info/invest-hk

Invest in Moldova Platform (Example)

www.invest-moldova.tech

Invest in Moldova's Dynamic Landscape

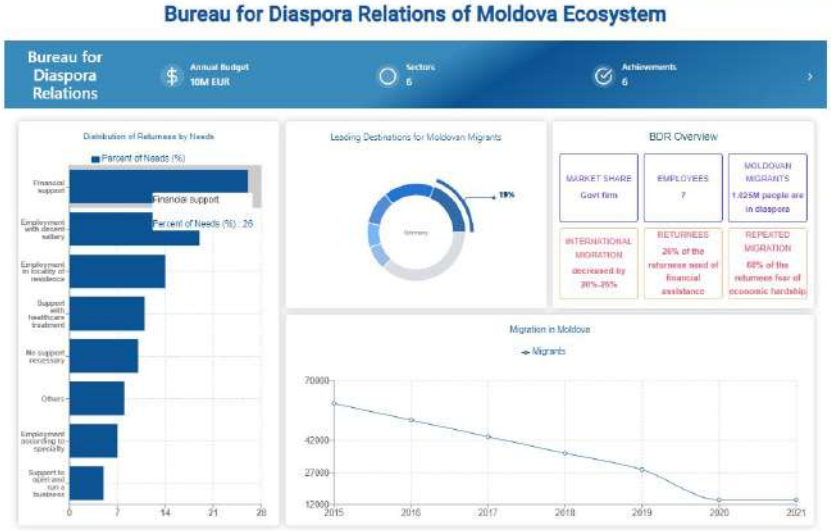
Moldova offers a diverse range of investment opportunities through platforms like Moldova IT Park, a globally recognized virtual structure with over 500 residents. The seven Free Economic Zones (FEZ) and 34 subzones provide preferential customs and tax benefits, including a 0% CIT for a specified period and ongoing support. Additionally, eight Industrial Parks support various industrial activities, offering incentives such as re-zoning, affordable land prices, and minimal state control. The Industrial Multifunctional Platforms, covering 300 hectares, act as robust industrial hubs, providing designated land, strong infrastructure, and essential utilities for seamless operations. Moldova's investment landscape is characterized by innovation, global recognition, and strategic incentives.

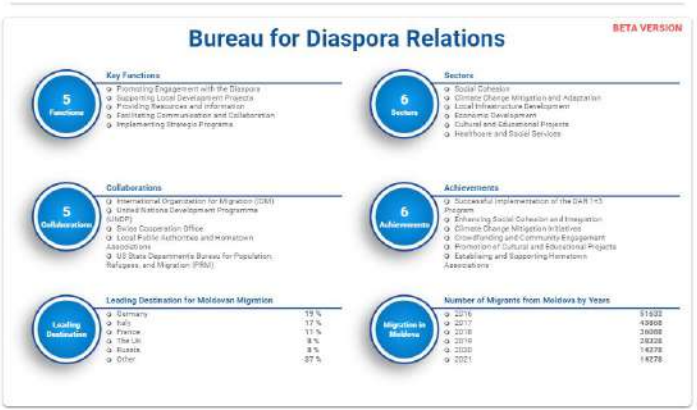
Economic and Industry Organizations (Example)

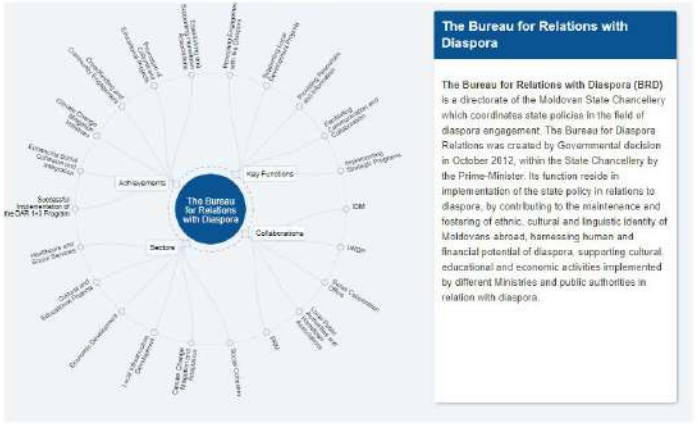
www.moldova-ecosystem.tech/miepo
www.moldova-ecosystem.tech/economic-council

Bureau for Diaspora Relations (Example)

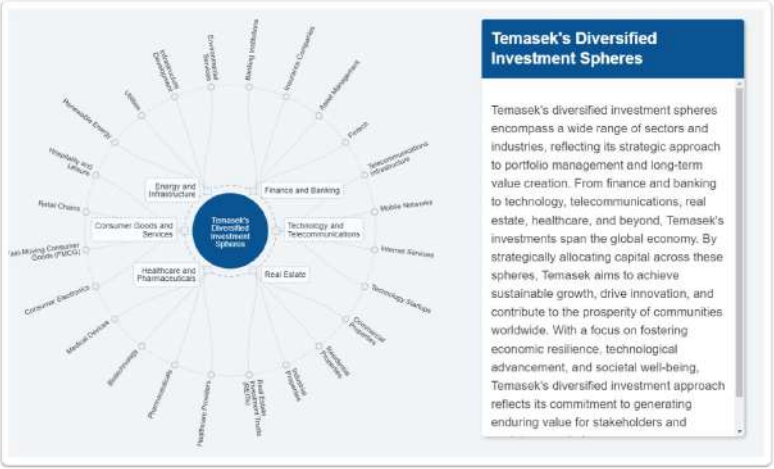
www.moldova-ecosystem.tech/diaspora-bureau

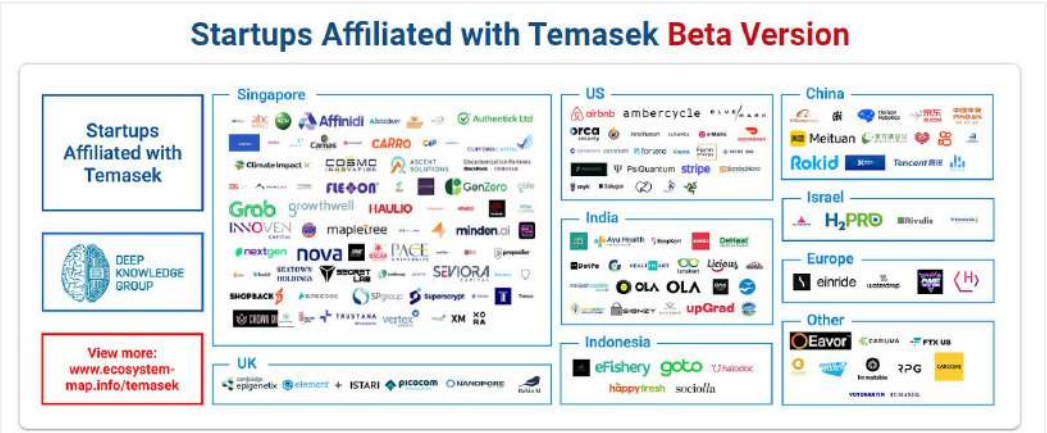


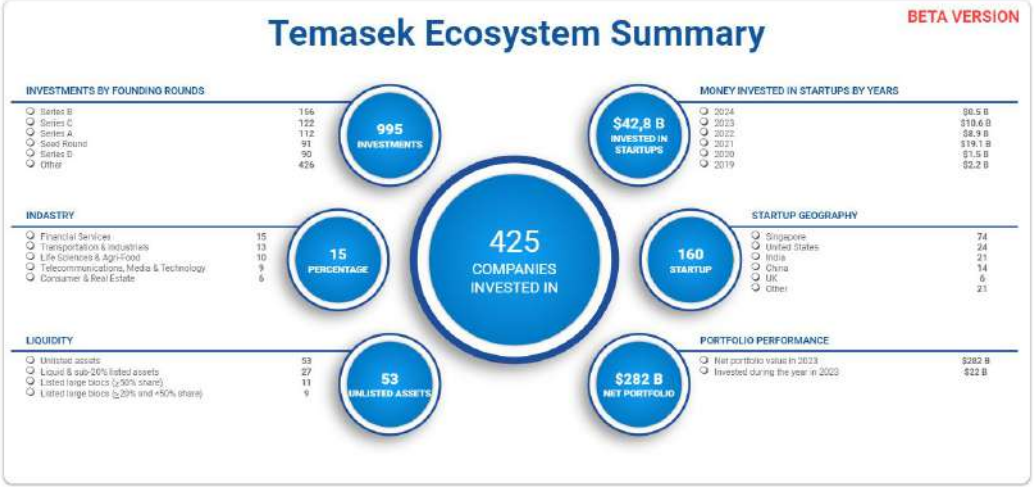


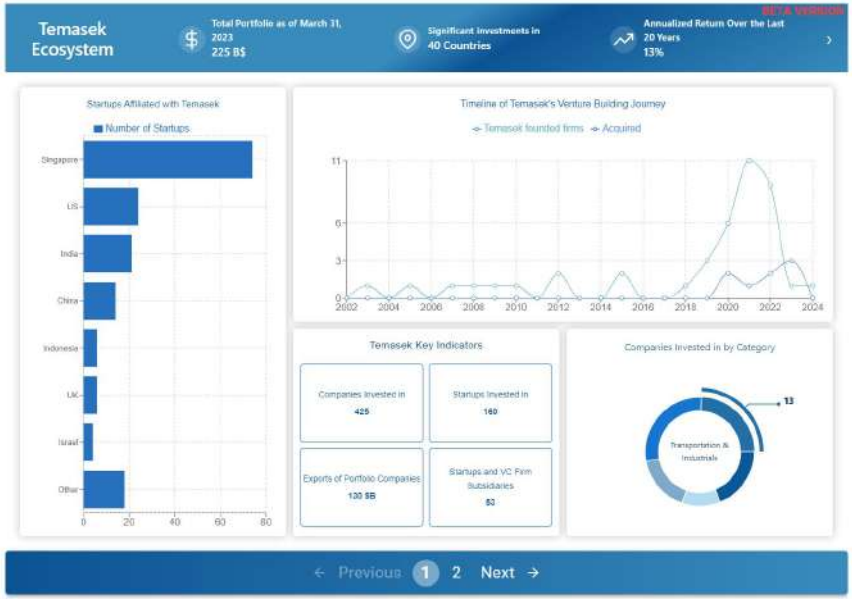


Corporate Ecosystem Mapping Platform (Example: Temasek)





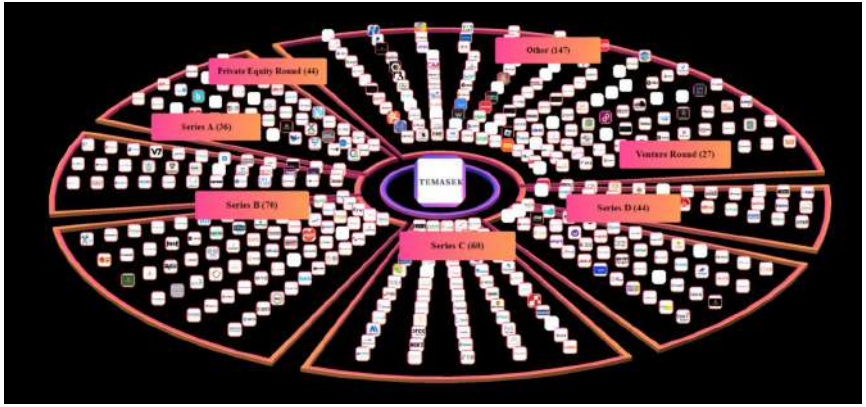




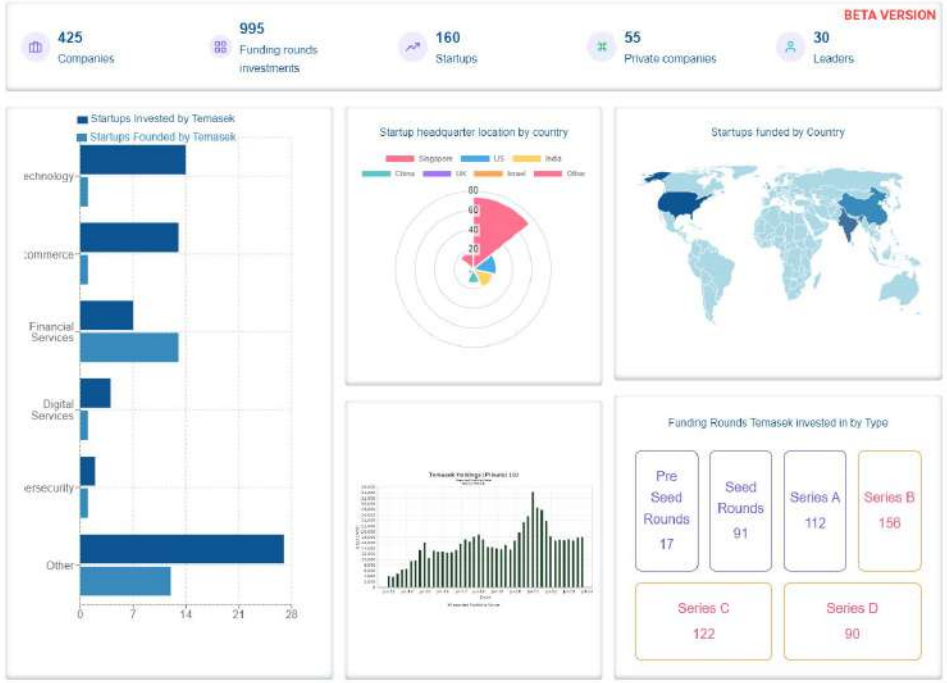
TEMASEK

Temasek Ecosystem (Beta Version)

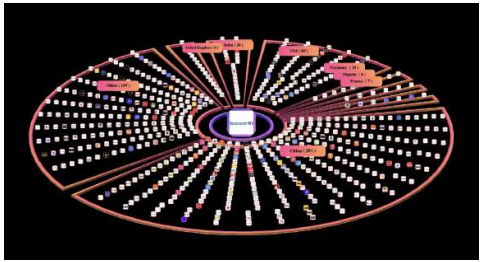
Temasek Holdings, commonly known as Temasek, is a Singaporean multinational conglomerate with interests in various sectors including finance, telecommunications, transportation, and real estate. Established in 1974, Temasek was founded by the Singaporean government and operates as an investment company, managing a diverse portfolio of assets both locally and globally. Temasek's investments span across different industries, encompassing banking, healthcare, energy, and technology.



Temasek Ecosystem



Corporate Ecosystems



www.ecosystem-map.info/corporate

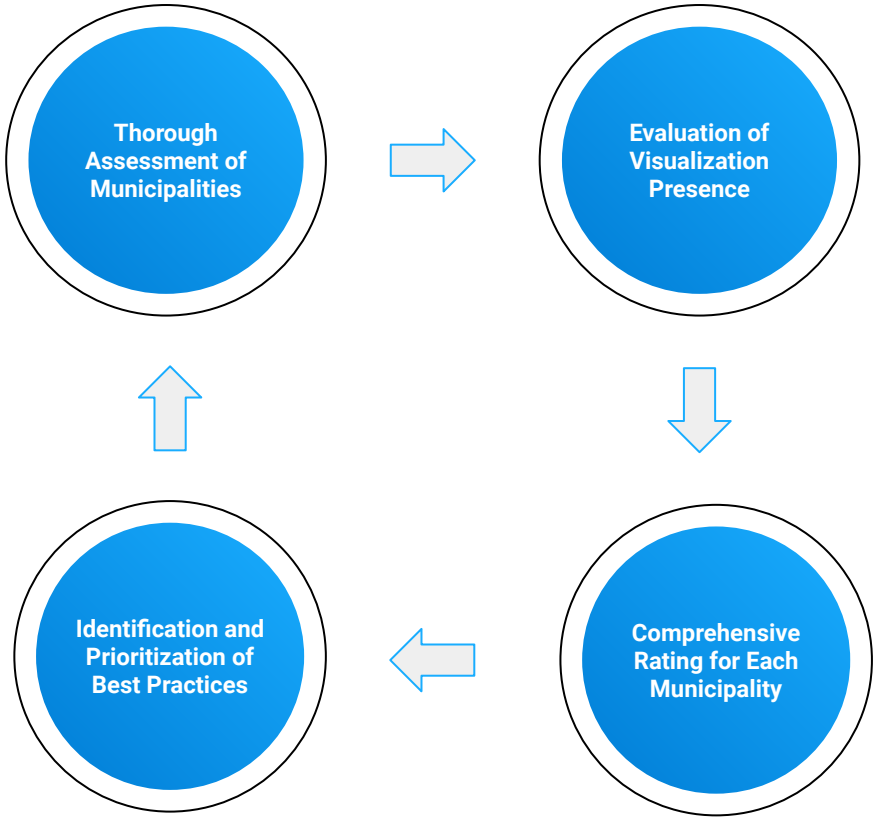
Benchmarking Government Website Visualization Sophistication

We have conducted a detailed analysis and benchmarking of top cities globally by how sophisticatedly their industrial and economic activity is visualized on their regional websites, and how well their unique strengths are showcased.

Why is this important?

For municipal governments, inward investment arms, and many other government and regional industry bodies, successful execution of their objectives often depends on technologically up to date public presentation, and an ability to showcase their region's strengths with a level of technological sophistication that matches their regional profile.

As a leading provider of industry ecosystem visualization solutions and platform tools, we strive to help municipalities visualize the true scope of their industrial ecosystems in a manner that matches the sophistication of their regional assets and activities.



Principle Features of the Analysis

Comprehensively collecting data on municipalities is foundational for robust analysis. This includes population demographics, economic indicators, infrastructure, and public services. The goal is to create a detailed, standardized database for a holistic understanding of each municipality's unique characteristics and challenges in major cities.

Thoroughly evaluating the quality and interactivity of municipal websites is vital for effective communication. This involves analyzing user interface, accessibility features, and overall user experience. Ensuring visual appeal guarantees clear information presentation, while assessing dynamic charts and maps enhances transparency and accessibility of municipal data for the public.

Compiling comprehensive data on municipal key personnel, including mayors, council members, and department heads, offers insights into local governance. This involves analyzing their professional backgrounds, qualifications, and experiences. Exploring networks and collaborations between key personnel reveals potential synergies and influences within the municipal governance structure.

Methodology

1 Analysis and Vision

- In-depth analysis of 50 countries and their municipalities.
- Emphasis on website visualizations to highlight their visions
- Examination of data presentation, visual effectiveness, and information content.

2 Identification of Best Practices

- Determination of top visualizations on country and municipality websites.
- Recognition of accurate and impactful visualizations.
- Highlighting of global best practices in data visualization.

3 Reliable Country Rankings

- Comprehensive data analysis including economic indicators, political stability, innovative development, and other key aspects.
- Analysis of visual effectiveness, readability, information content, and aesthetics of data presentation.

4 Methodology and Evaluation

- Attention to color palettes, graph types, level of detail, and overall composition of visualizations.
- Unique perspectives provided by each analyzed website.
- Ratings provided by experts on a scale of 0 to 5.

5 Conclusion and Ranking

- Development of a mathematical model to weigh factors for country rankings.
- Comprehensive study combining qualitative analysis, mathematical modeling, and expert assessment.
- Aim to provide users with useful, objective, and accurate country assessments.

Ranking Parameters

Core Visualization Techniques: Fundamental chart types essential for basic data visualization tasks, offering clear insights through straightforward graphical representations.

Advanced & Interactive Visualizations: Complex and dynamic visualizations that facilitate deep data exploration and user engagement through interactivity and advanced graphical techniques.

Data Analysis & Predictive Tools: Tools focused on data analysis and predictions, using statistical or machine learning models to draw insights and identify patterns.

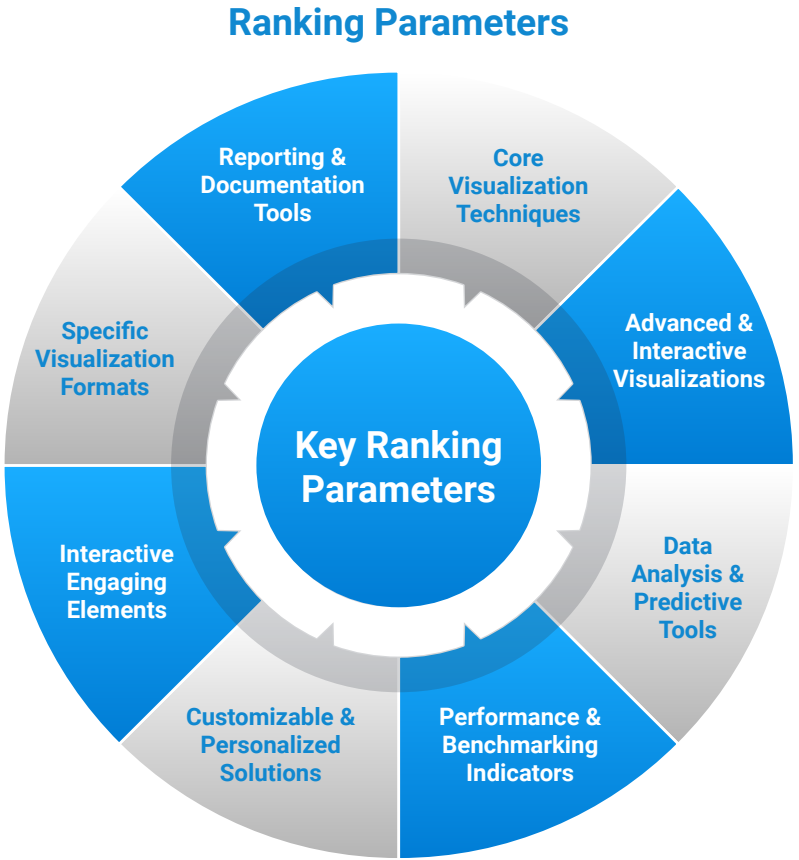
Performance & Benchmarking Indicators: Essential for measuring, comparing, and monitoring key metrics to assess performance and identify improvement areas.

Customizable & Personalized Solutions: Tailored visualization experiences offering user-specific customization to meet diverse needs and enhance engagement.

Reporting & Documentation Tools: Facilitate the creation of structured reports and documentation, incorporating visual elements for clear communication of data insights.

Interactive & Engaging Elements: Promote direct user interaction with data, making data exploration engaging and intuitive through interactive visuals.

Specific Visualization Formats: Specialized visualizations tailored for unique data challenges, emphasizing diversity in tools for specific analysis needs.



Cross Ranking Tables

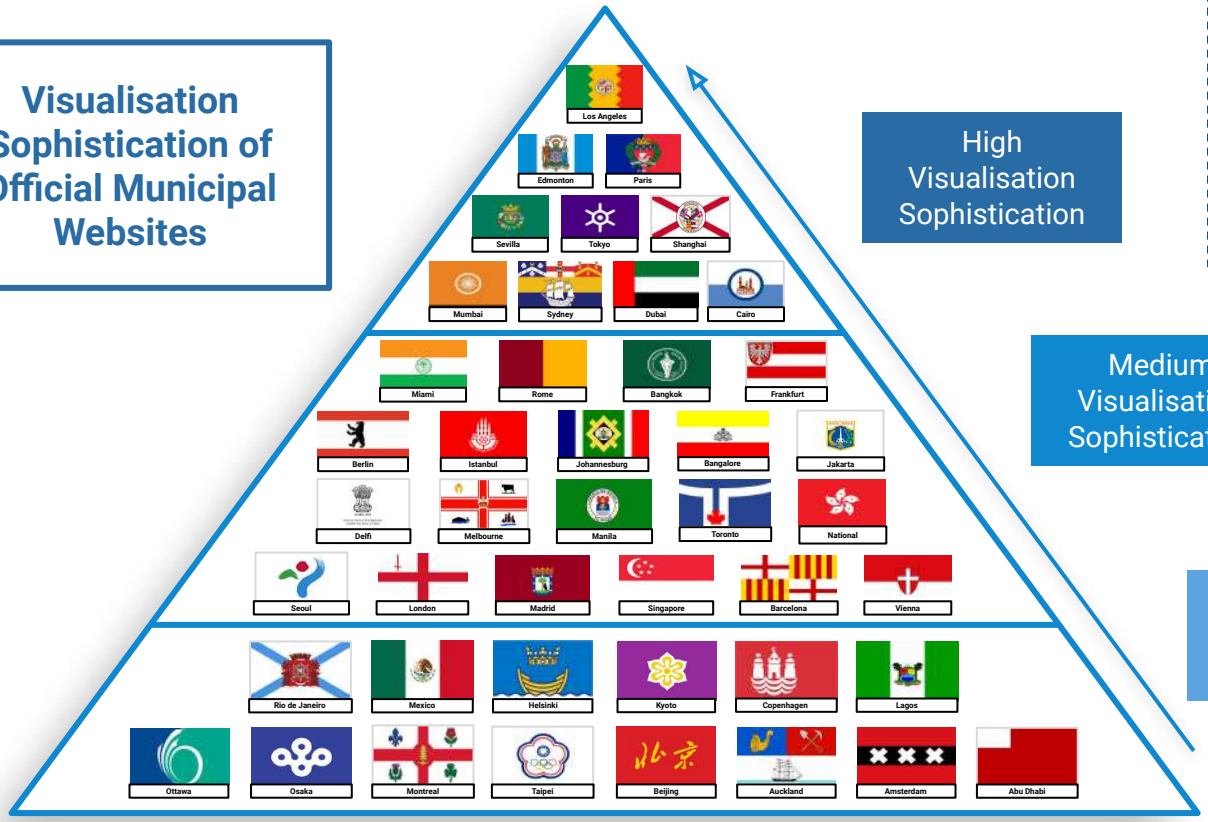
Rankings are based on a detailed analysis focusing on visual effectiveness, degree, density and volume of visualization interactivity, readability, information content, and aesthetics of countries' official website visualizations.

Place	Country	Total Score
1	Canada	33.03
2	USA	22.13
3	France	18.54
4	China	17.64
5	Sweden	13.82
6	Germany	13.15
7	Argentina	12.58
8	Philippines	10.79
9	Great Britain	10.67

	Criteria	Canada	China	USA	Japan	Great Britain
1	Benchmarking services	0	0	3	0	0
2	Interactive Visualisations	4	0	3	0	0
3	Charts builders	3	1	0	0	0
4	Heatmap Solution	3	2	0	0	0
5	Personalised Data Visualisation Solutions	5	3	0	0	0
6	Portfolio Constructor	1	0	0	0	0
7	Predictions	1	1	1	2	3
8	Area Charts	2	0	0	0	0

Advanced Visualisation Ranking: Global (by Municipality)

Visualisation Sophistication of Official Municipal Websites



High Visualisation Sophistication

Medium Visualisation Sophistication

Low Visualisation Sophistication

We have conducted a detailed analysis and benchmarking of top cities globally by how sophisticatedly their industrial and economic activity is visualized on their regional websites in terms of interactivity, engagement and diversity-by-visualization-type.

DEEP KNOWLEDGE GROUP

Proprietary Big Data Analytics, Investment Relations and Business Intelligence Dashboard Production

www.dkv.global
www.ecosystem-map.info
www.ecosystem-map.info/invest-hk

Investment Relations and Business Intelligence Dashboard Overview

Deep Knowledge Group (DKG) is a consortium of commercial and nonprofit organizations 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. Its unique approach lies in combining ecosystemic financial innovations with sophisticated AI and Data Science technology development for DeepTech Industry analysis, benchmarking and forecasting.

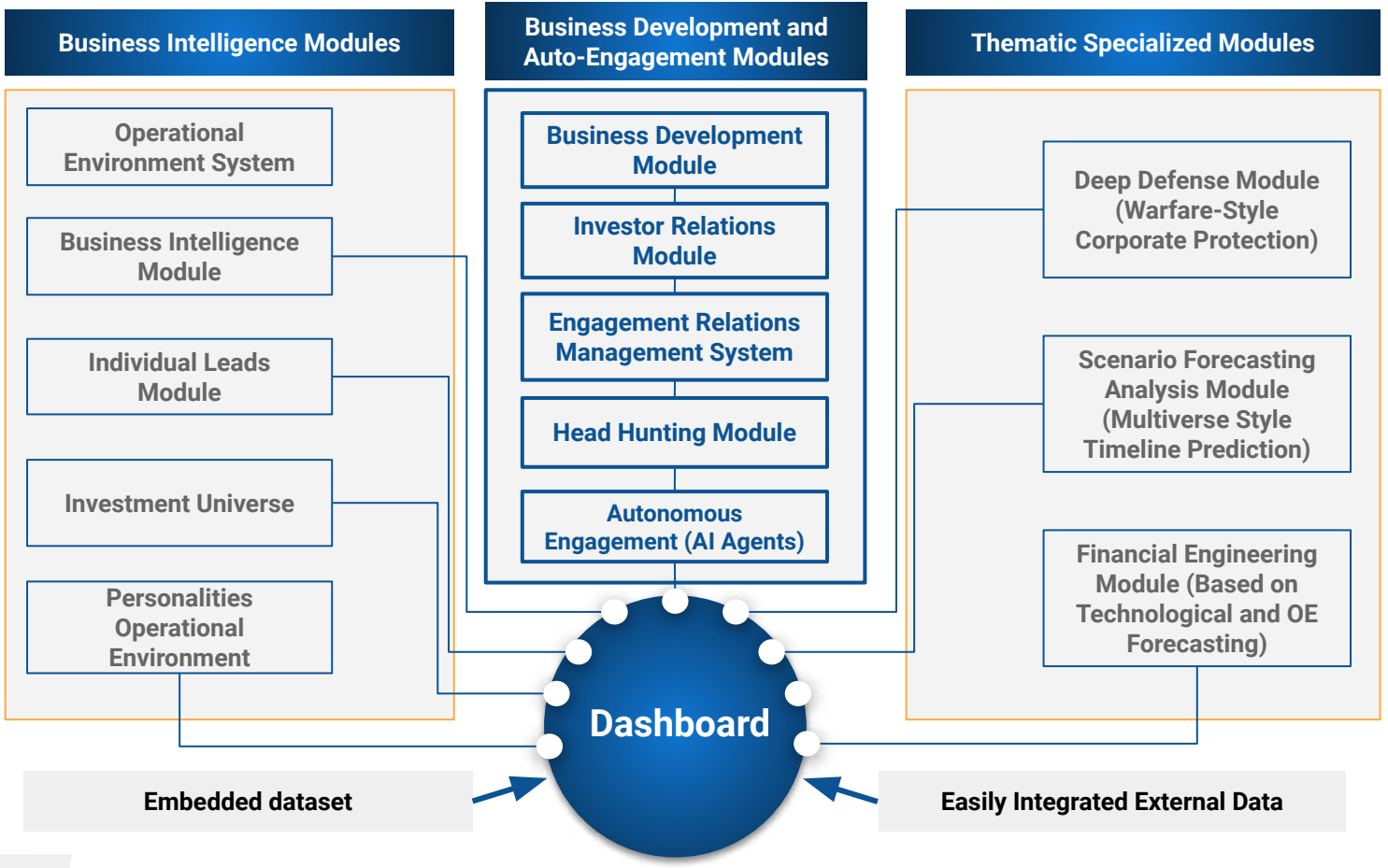
Having been committed since 2014 to the corporate thesis of DeepTech for social impact, techno-ethical business for social good, and the continual reinvestment of profits into the expansion of our core Data Science, AI and analytics assets and the refinement of our financial-ecosystemic development projects, we are **uniquely in possession** of extremely **sophisticated technologies and systems** for Frontier Science/Technology and complex industry-focused **advanced business intelligence**, deep comparative and competitive **market and technology analytics**, **operational environment mapping** and **automated business development, engagement and investor relations**.

We have recently consolidated a number of these proprietary systems into a **single unified end-to-end White Label Solution** capable of customised, comprehensive corporate strategy optimization and defence, semi-automated AI-driven business development, investor relations, partnership and client acquisition and corporate growth, competitive intelligence, operational environment monitoring and analytics, and are **for the first time making this system available** to select clients in White Label format.

Condensed System Summary:

Sophisticated end-to-end White Label Solution for Tech Industry investment universe analysis, monitoring, market intelligence, b automated business development and investor relations: the N1 technologically sophisticated data-driven AI-augmented solution for corporate defence, development, and management in the 21st century.

End-to-End White Label Solution Architecture



DEEP KNOWLEDGE ANALYTICS

Operational Environment: TechFinance

Search for Organizations ...

Operational Environment: TechFinance

Dashboards

Operational Environment: TechFinance Analytics Dashboard

Lists

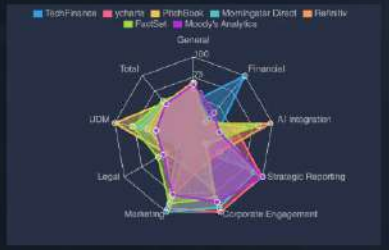
- Companies
- Investors
- Financial Institutions
- Funding Rounds

Tools

- Detailed Analysis
- Comparison
- Statistics
- Contact

Operational Environment: TechFinance Analytics Dashboard

Top Co-opetitors SWOT Comparison



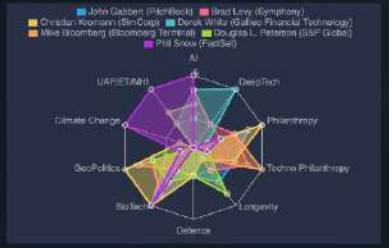
Potential Partners Leaderboard

SMART MATCHING RECOMMENDATION

#	Company Name	Overall Rating	Matching Ranking
1	ycharts	86	87.8%
2	PitchBook	86	85.7%
3	Morningstar Direct	86	85.6%
4	Refinitiv	86	85.1%
5	FactSet	89	73.3%

Operational Environment Space

TOP UDMs SWOT Comparison



Enhanced SWOT Comparison

Show :

Company	Total	General	AI Integration	Financial	Marketing	Legal	Corporate Engagement	Strategic Reporting	UDM
		Total				Main			Supplementary
TechFinance	66	44.3	30.4	100	37.7	88.5	18.4	84.9	68.0
Galileo Financial Technology	44	60.8	58.7	6.8	26.2	13.1	34.3	45.3	85.1
FintechOS	30	51	42	9.9	57.4	54.8	37.3	22.8	14.0
Temenos	49	66.5	48.5	9.3	57.4	88.1	80.8	5.7	69.7
Finastra	45	58.2	65.9	20.3	52.5	94	37.3	0	41.1
Cube Software	49	40.2	57.2	22.9	65.6	66.5	94	83	17.1
Morningstar	66	61.9	57.7	39.6	100	39.6	94	88.7	26

UDM Popularity Distribution

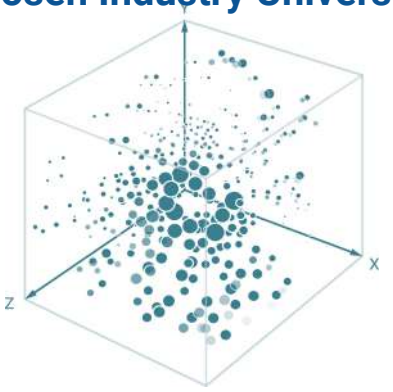
Operational Environment Establishment

Entity or Particular Project

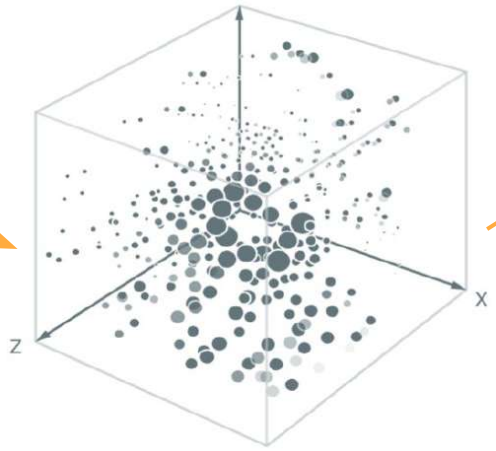
Evaluation

- SWOT Analysis
- Industry Mapping
- Framework Creation
- Key Parameters Identification

Chosen Industry Universe*



Related Industries Universe*



AI Driven Analytical Module

AI Driven Analytical Module

Operational Environment: Collected Dataset of Relevant Organisations and their Parameters

Highly Relavant Entities

Organisations With Moderate Relation

Further Analysis and Automated Data Enrichment

*Industry Universe - Collection of multiple parameters of the industry:Organisations, People, News,

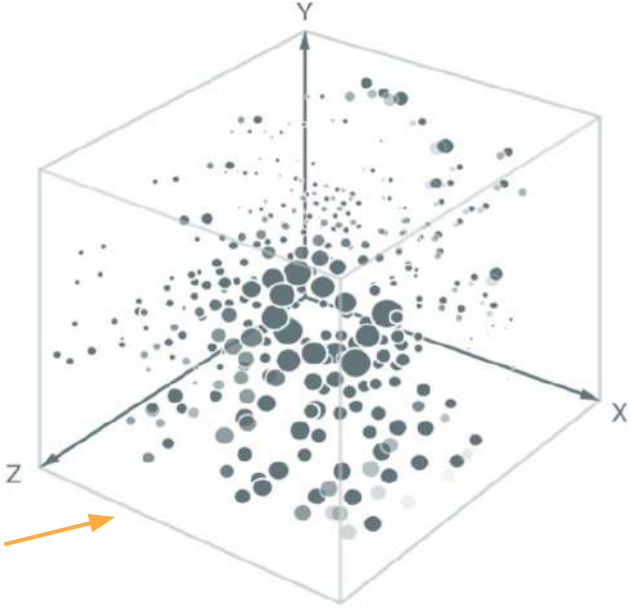
Multi Dimensional Vector Space Establishment

Enriched Dataset of Relevant Organisations and their Parameters

Analytical Module*

- **CCQQ Analysis**
  - Competitive
  - Comparative
  - Quantitative
  - Qualitative
- **Vectors Creation**
  - Quantitative data → Feature Encoding
  - Qualitative data → AI Driven Tagging
- **Vectors Matching**

Industry Specific Multi Dimensional Vector Space



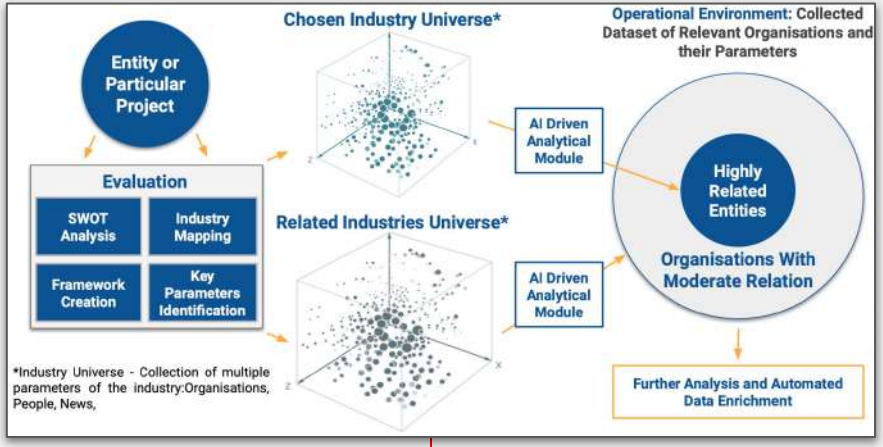
AI Augmentation System Construction

*Analytical Module encompasses multiple steps of data vectorisation and processing which are just partially showcased in the framework. More information can be provided upon request.

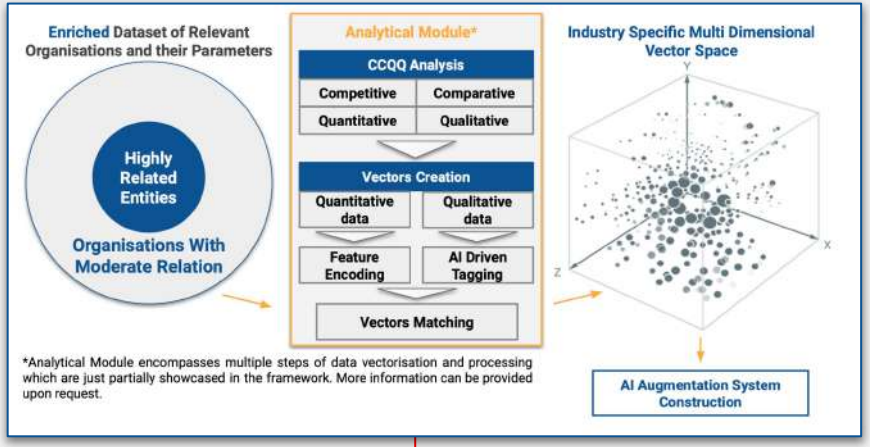
Operational Environment Extension

General Operational Environment

Product/Entity Tailored Operational Environment



Industry Specific Multi Dimensional Vector Space



Cross Analysis Loop

- Enhanced Data Quality
- Live Data Updates
- New Modalities Addition
- Focus Areas Monitoring

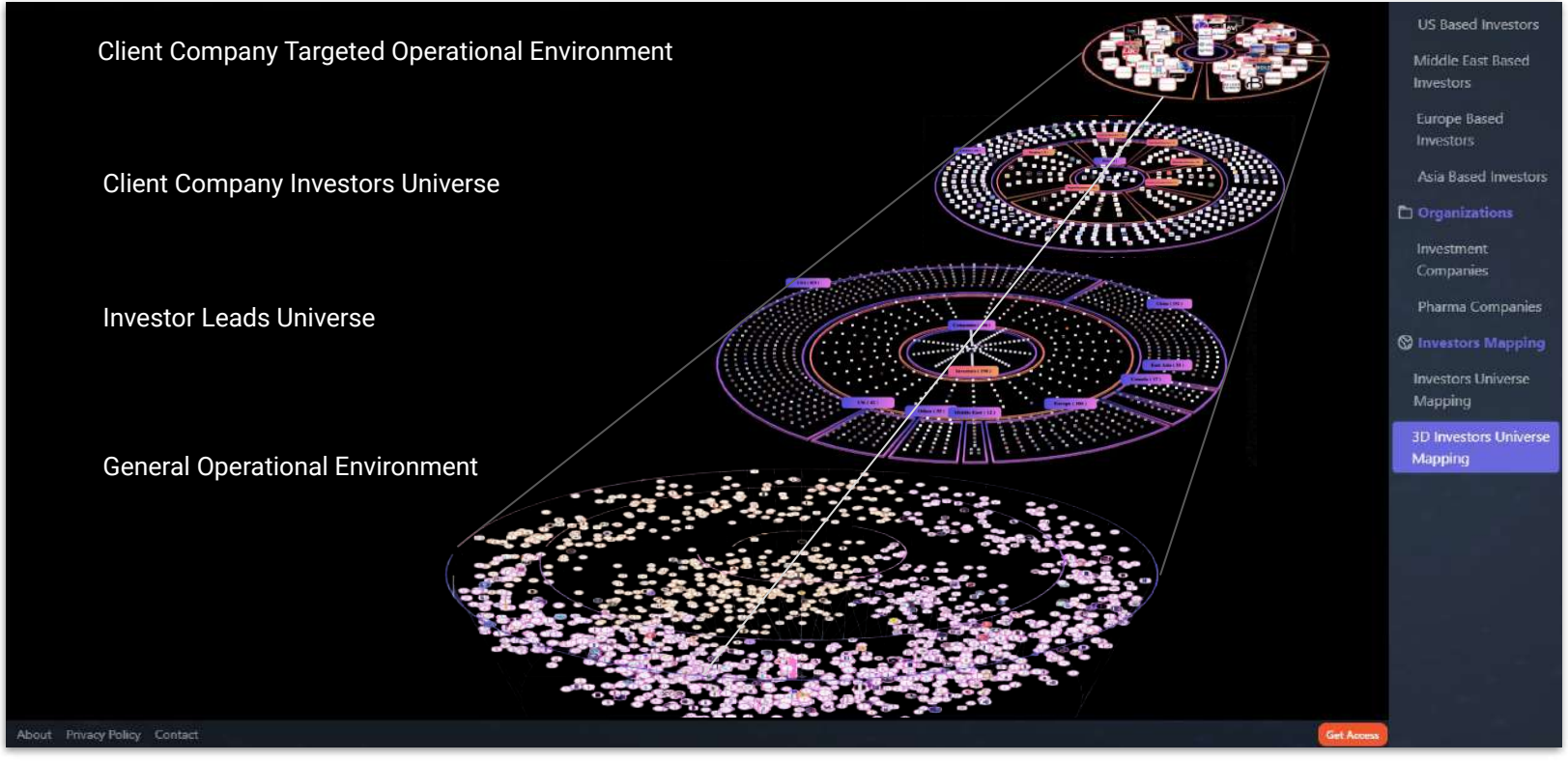
Live Updated AI Augmentation System

Operational Environment Driven Dashboard

Core Dashboard Components	
Analytical Module	Enhanced vector analysis for correlations and industry Insights
Mapping Module	Toolset for connections and relations assessment between entities
IP Tracking Module	Tracking of IP updates such as Patents, clinical trials, trademarks
Data Room	Related data storage filled with basic datasets and reports
Visualisation Block	Array of visualisation tools for adaptive industry overview

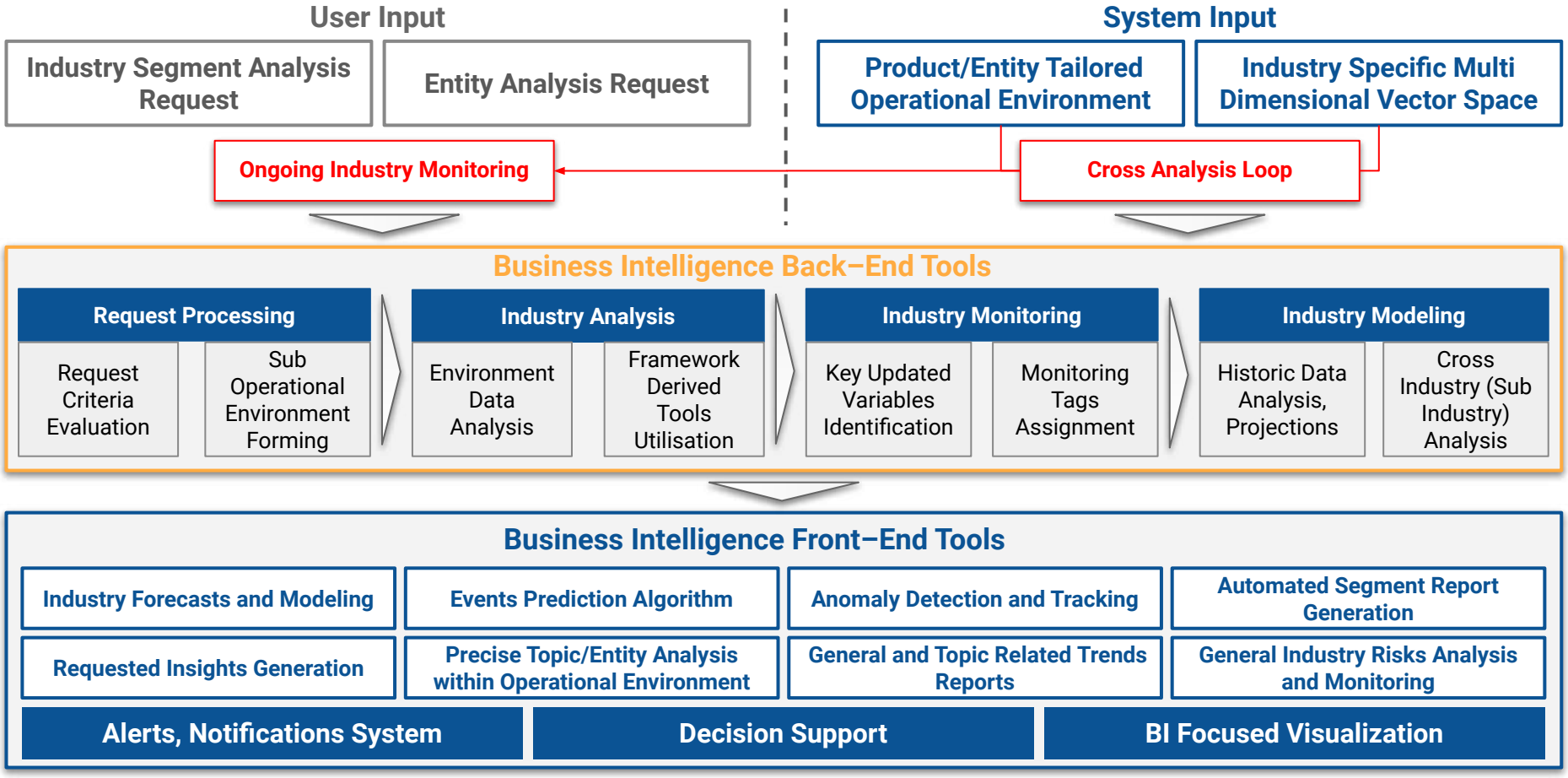
- **Individual Emails Sending and Receiving**
- **Message Templates Insertion Into Emails and Management**
- **Arrangement of Google Meet Invites**
- **Light Theme**
- **Import/Export of Contact Lists**
- **Real-Time Notifications**
- **Lead Management**
- **List Management**
- **Cloud Base**
- **Email Templates**

Multiple Built-in Ecosystem Mapping and Analytical Visualisation Features



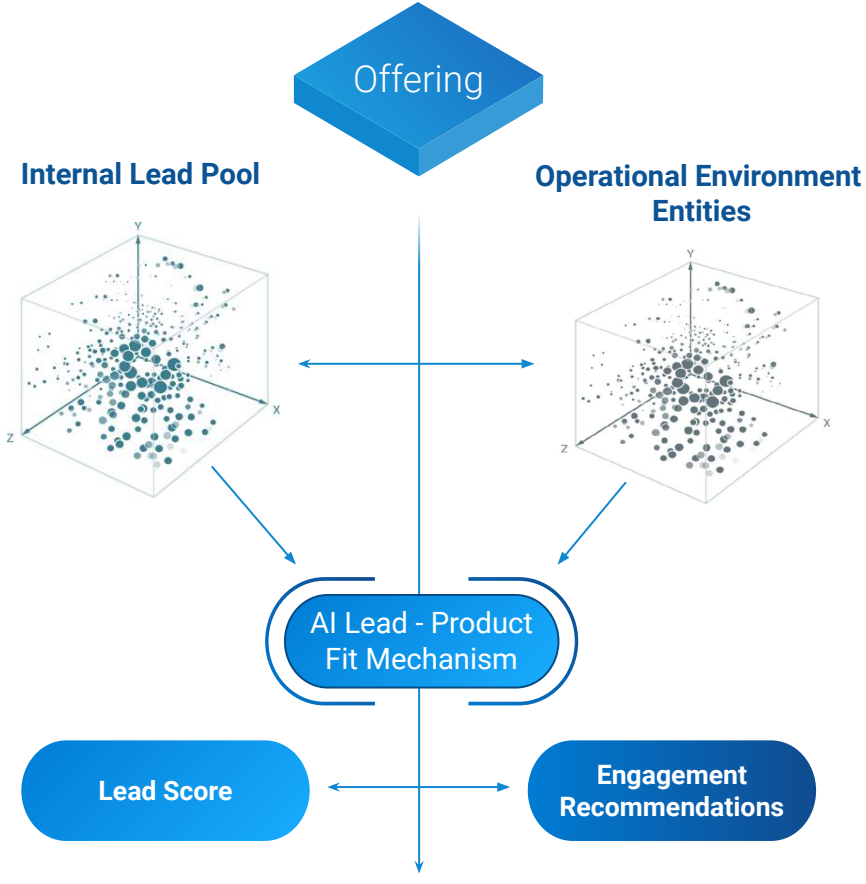
The Investment Analysis Dashboard is equipped with an array of built-in mapping and analytical features, designed to distill complex information into actionable intelligence, tuned to the operational specifics of the client company.

Business Intelligence Dashboard



Automated Business Development Dashboard

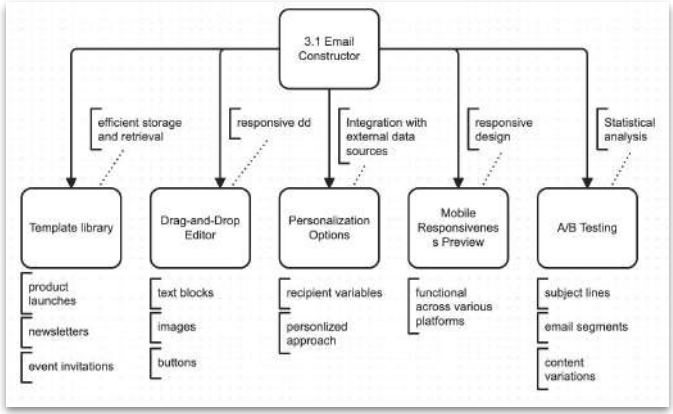
Automated BizDev Dashboard Components	
Analytical Module	Enhanced vector analysis to identify potential partners, clients, investors
Smart Matching System	AI-driven matching of company project with targeted leads for engagement
Autonomous Engagement via AI Agents and Avatars	Automated engagement via autonomous AI agents using digital avatars of company decision makers
Recursive Feedback for Continual Development	System operates continuously to drive business development in real-time



Business Development and Sales Automized Platform

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

- Reach out Funnel Constructor
- Dedicated AI Agent for Scripts Adaptation
- Automated Offer Management System
- Integrated Engagement Management System
- Outreach Campaigns Monitoring Dashboard
- Engagement Recommendation System
- Automated Reach Out Agent



Automated Document, Deals Management and Creation System

- Semi-Automated System for Offer Construction
- Semi-Automated System for Deck Adaptation
- Templates Management System
- Integrated Data Repository
- Deals and Deal Flows Constructor with Copilot
- Legal Documentation Management System
- Legal Requirements Tracking system

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Tech in National
National Digital Emulation

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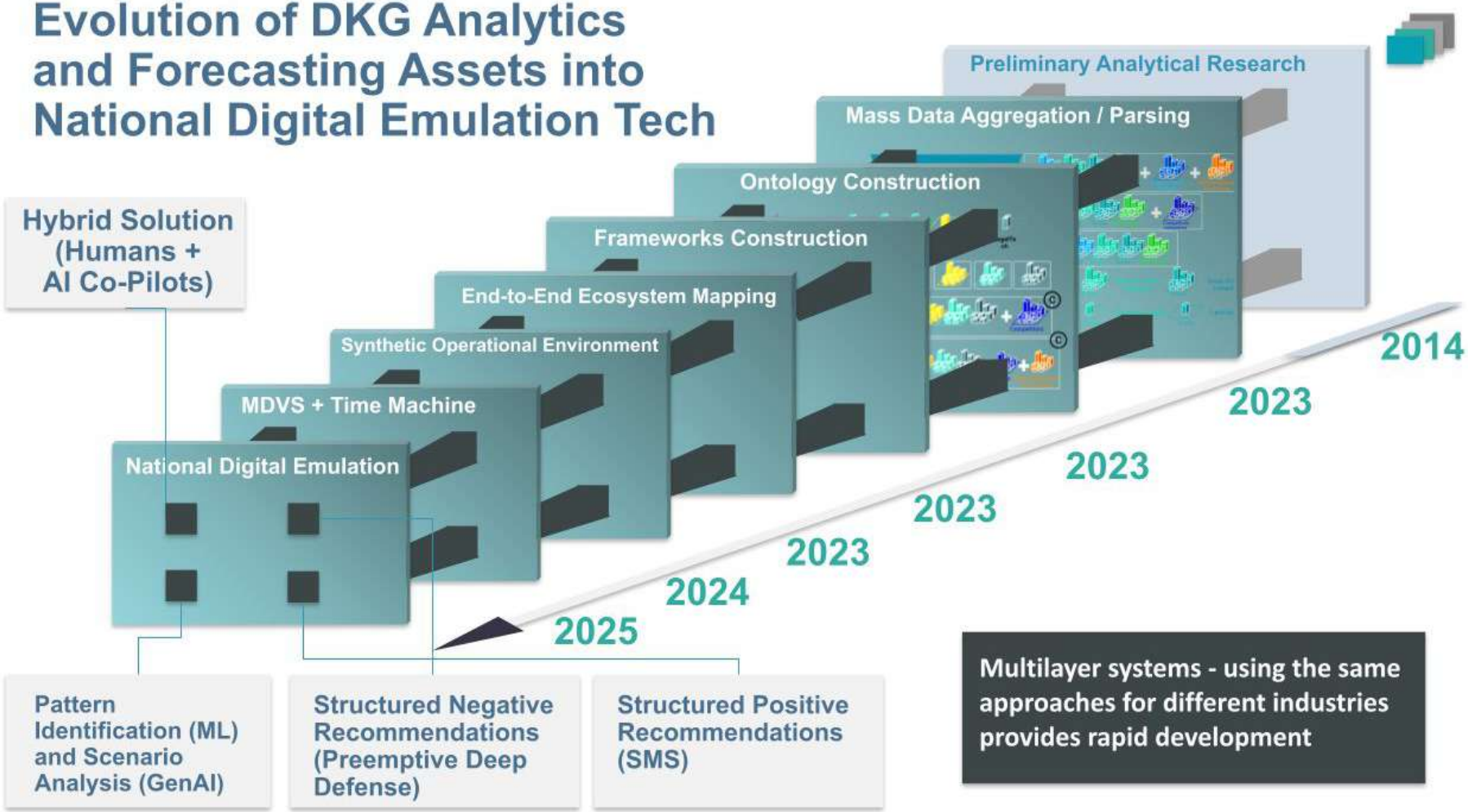
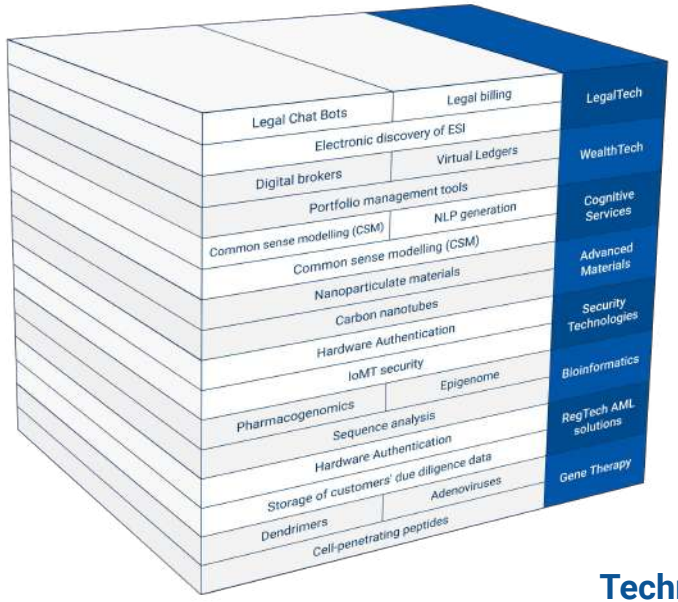
Evolution of DKG Analytics and Forecasting Assets into National Digital Emulation Tech



4th Industrial Revolution Framework



5th Industrial Revolution Framework

Technological Bridge

Deep Knowledge Group leverages its expertise and resources to build the framework for a successful transition to the 5IR. This would require collaboration with key stakeholders and a focus on innovative industries domains. **In order to make the practical transition to 5th Industrial Revolution, DKG establishes the Long-Term Technology Forecasting System.**

Global DeepTech Big Data Analytical System

Identifying and Mapping of DeepTech Companies across the Globe

Long-Term Technological Forecasting Big Data Analytical System

AI-driven Forecasting on Technology Readiness Level with Financial Patterns Recognition

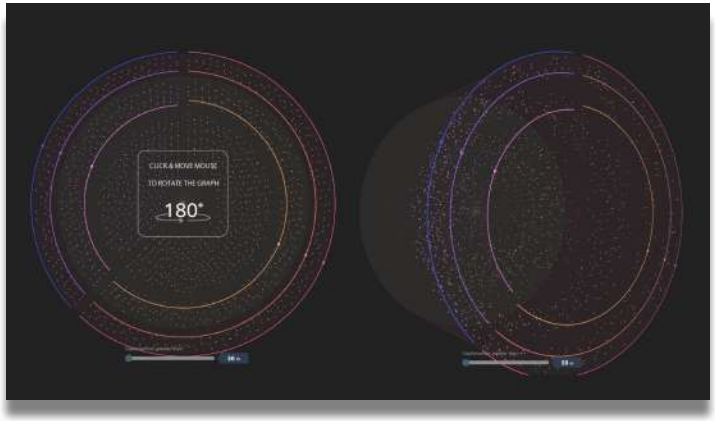
Overview of Long-Term Technological Forecasting System

Deep Knowledge Group is building Long-term Technological Forecasting System which is set to make projections on future advancements in technology and predicting their potential impact on society and the economy. The goal of such a System is to provide a framework for informed decision-making by governments, large financial institutions businesses, and individuals.

At the same time, this System will present the practical insights on market, namely through identification of companies actively developing disruptive technologies which potentially can participate in M&A transactions. Moreover, the System makes the strong reliance on retrospective analysis meaning that the results generated by the System is constantly compared with the past projections.

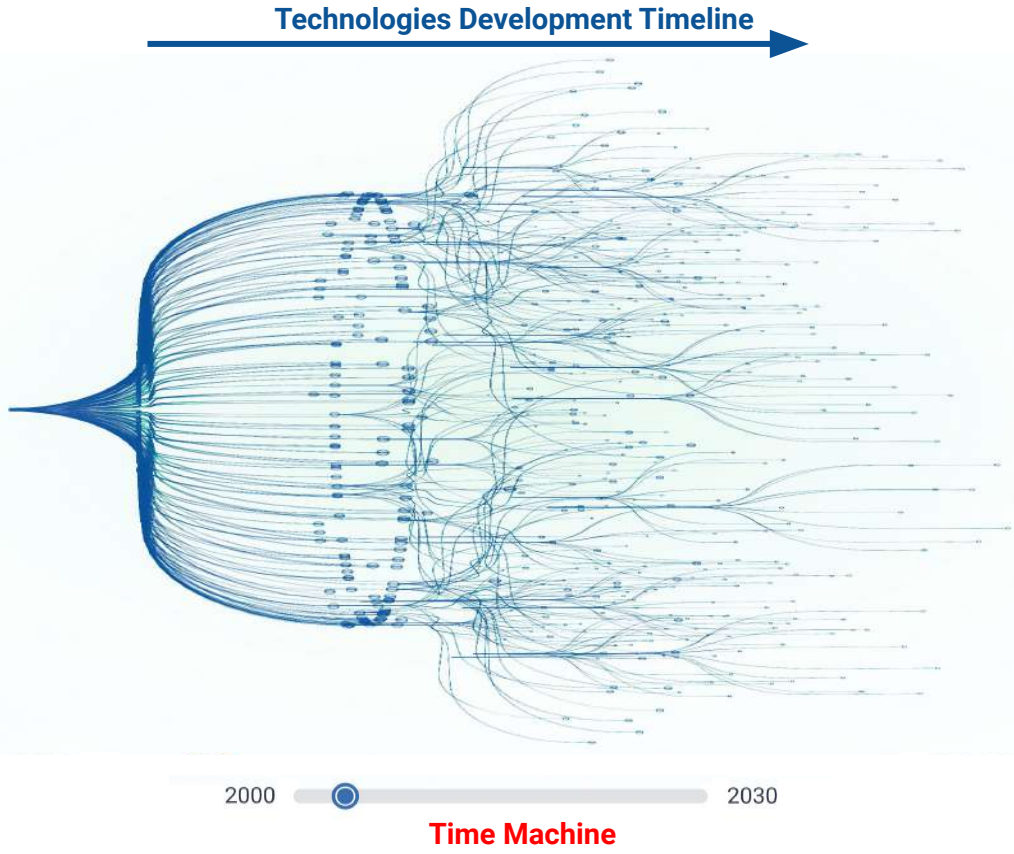
Strategic Goals of Long Term Technological Forecasting System

- Serving as the leading source of data for decision makers
- Comprehensive tracking of technological developments
- Identification of technological trends playing the pivotal role during upcoming decade



- Providing insights on technological improvements for leading organizations
- Detection of promising technological niches
- Exchange of industry knowledge between experts

Long-Term Technology Forecasting System Architecture



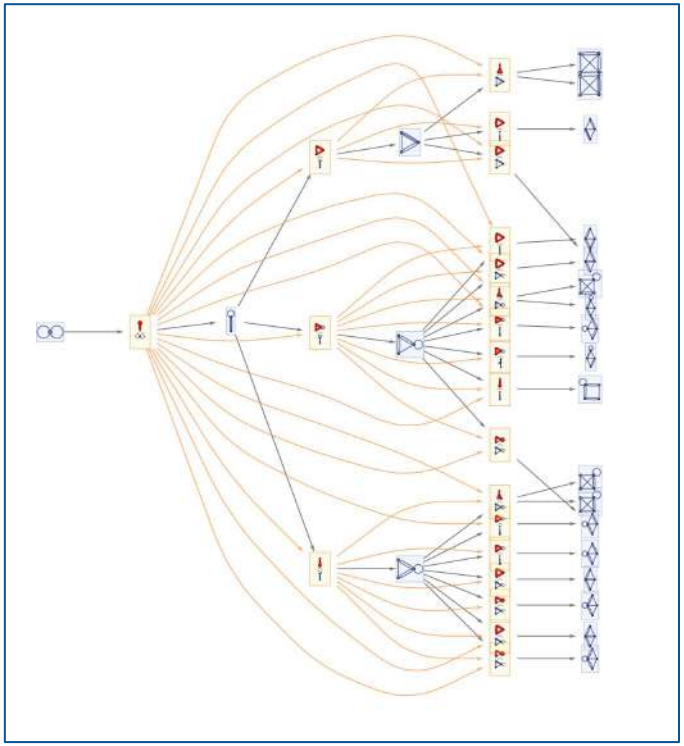
5th Industrial Revolution Long-Term Technology Forecasting System is the comprehensive system able to generate projections on the future development of entire industries or particular technologies. The idea of time machine behind the Forecasting System lies in providing users with clear view of the technologies development and high-level customization to meet users' research requirements.

Advanced Features of Technology Forecasting System

- **Identification of the most disruptive technological domains**
- **Assessment of interconnections between industries**
- **Clustering of the similar technologies under single industries**
- **Chronological forecasting of the development of individual tech industries**

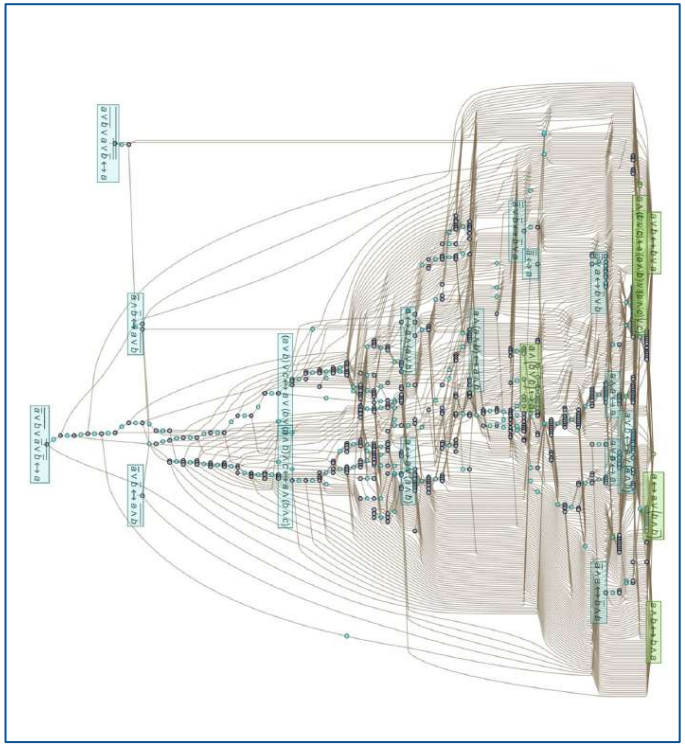
Long-Term Technology Forecasting System Advantages

Long-Term Technology Forecasting System will provide the range of useful solutions for technologies research process resolving the multiple challenges of analyzing trends and patterns in technological field, assessing the potential of new technologies, and the financial advantages which can be derived of that.



Solutions of Forecasting System

- Time Machine for Technological Forecasting
- Automated Technology readiness level (TRL) Assessment
- Back propagation of the technological development
- Assessment of technologies disruptiveness level



National Digital Emulation Hybrid Solution (AI + Human)

National Digital Emulation

AI Co-Pilot

AI Co-Pilot Recommendation Packs

Decision Making Recommendations

Geopolitical Peer, Competitor and Partner/Ally Activity and Development Reports

Periodic Tech Ecosystem Summary and Action Analysis

AI Recommendations Review by Human Teams

Request to AI Co-Pilot for Revision or Reanalysis

Approved Recommendation

Recommendation Revision Request

Recommendation Dismissed

Recommendation Execution

Recommendation Types

New Tech Development	Policy Changes
Regulatory Infrastructure	Technology Acquisition
International Alliances	New Market Entry
Mass Talent Acquisition	Inward Investment

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Conclusion

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Conclusion

Deep Knowledge Group is keen to engage national inward investment and national economic development bodies on strategic products and services at the intersection of National Tech Ecosystem mapping and enhanced data visualisation monitoring, development and consultancy that in synergy create unique opportunities for attracting inward investments, enhancing lead negotiations, and showcasing your nation's unique strengths and position in the global tech arena.

Our Value Offering

Sophisticated, Engaging, Interactive and Immersive Front-End Website Upgrades

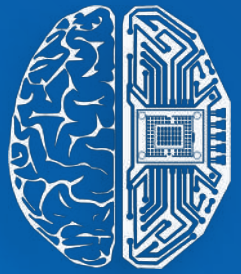
Enhance Your Agency's International Visibility

One-Stop-Shop (Digital Pavilion) to Showcase Your Agency's Mission, Strengths, Assets

Semi-Automatic Mechanism for Making Leads Approach Your Agency Themselves

These services can be used by the client to expand its international visibility and recognition, create the impression of a one-stop-shop or analogy to digital pavilion for its mission, achievements and assets, optimize and expand its engagement efforts with regards to attracting inward investment, create and consolidate a maximally actionable and tactical next-generation Brand Kit, and build a maximally sophisticated, interactive, immersive and engaging digital environment for lead capture and conversion that serves as a semi-automatic mechanism for attracting relevant leads to approach the client for cooperation, rather than the other way around.

We are open to mutually beneficial cooperation, and look forward to hearing back from your representatives.



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