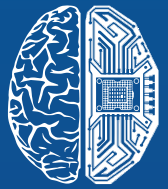


DEEP
KNOWLEDGE
GROUP

Gulf Region Tech Industry Big Data Analytics System and Dashboard

Gulf Region Big Data Analytics System and Dashboard

Deep Knowledge Group developed a specialised **Gulf Region Big Data Analytical System and Dashboard** that profiles the entire digital ecosystem across GCC countries and provides automated tools for intelligent data-driven decision-making for investors, corporations, and governments.

Gulf Region Big Data Analytical System and Dashboard is a first-of-its-kind solution that maps the overall Digital and Tech Ecosystem in GCC Countries, and provides actionable insights on current and future trends.

The primary goal of the creation of Gulf Region Big Data Analytical System and Dashboard lies in the comprehensive mapping of the entire tech landscape in the GCC countries accompanied by advanced analytical tools.

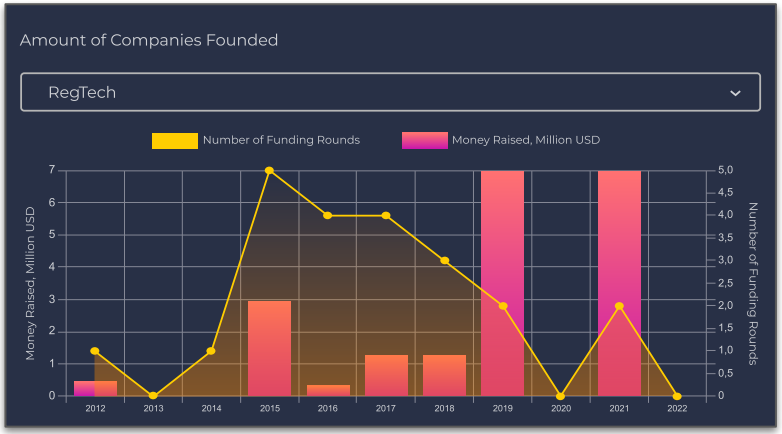
The Dashboard may serve as the source of valuable insights relying on deep analytics and can be the handful tool for innovative companies, investors, governmental authorities, or any interested parties.

www.deep-innovation.tech/gcc

Digital and Tech Ecosystem in GCC Countries

Dashboard Features

- **Extensive Database**
- **Advanced Market Monitoring Tools**
- **AI-Powered Analytics**
- **User-friendly Interface**
- **Real-time Analytics**

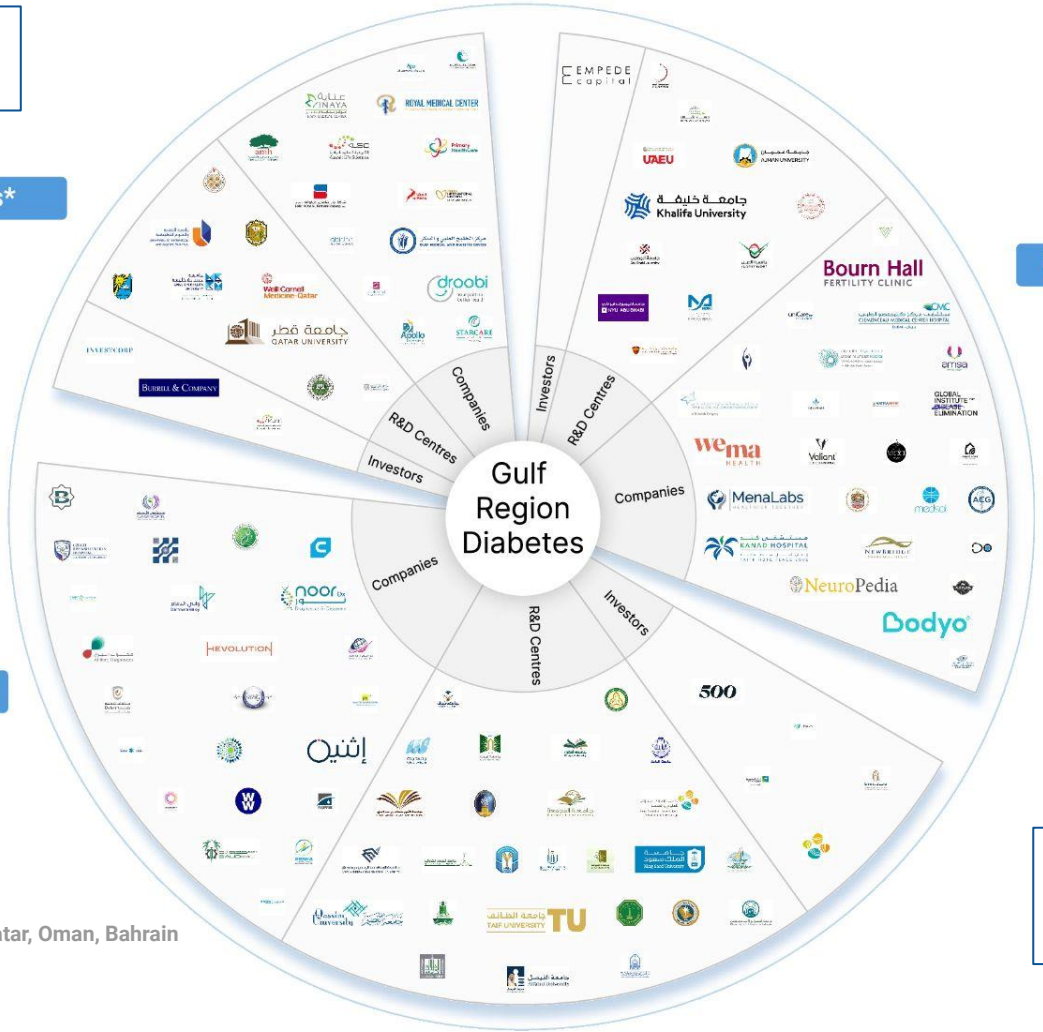


Parameters of Gulf Region Tech Industry Big Data Analytics System and Dashboard

Saudi Arabia Data across Gulf Region Tech Industry
Big Data Analytics System and Dashboard

Gulf Region Diabetes Landscape 2023

Companies – 60
Investors – 5
R&D centres – 45



AGING ANALYTICS AGENCY

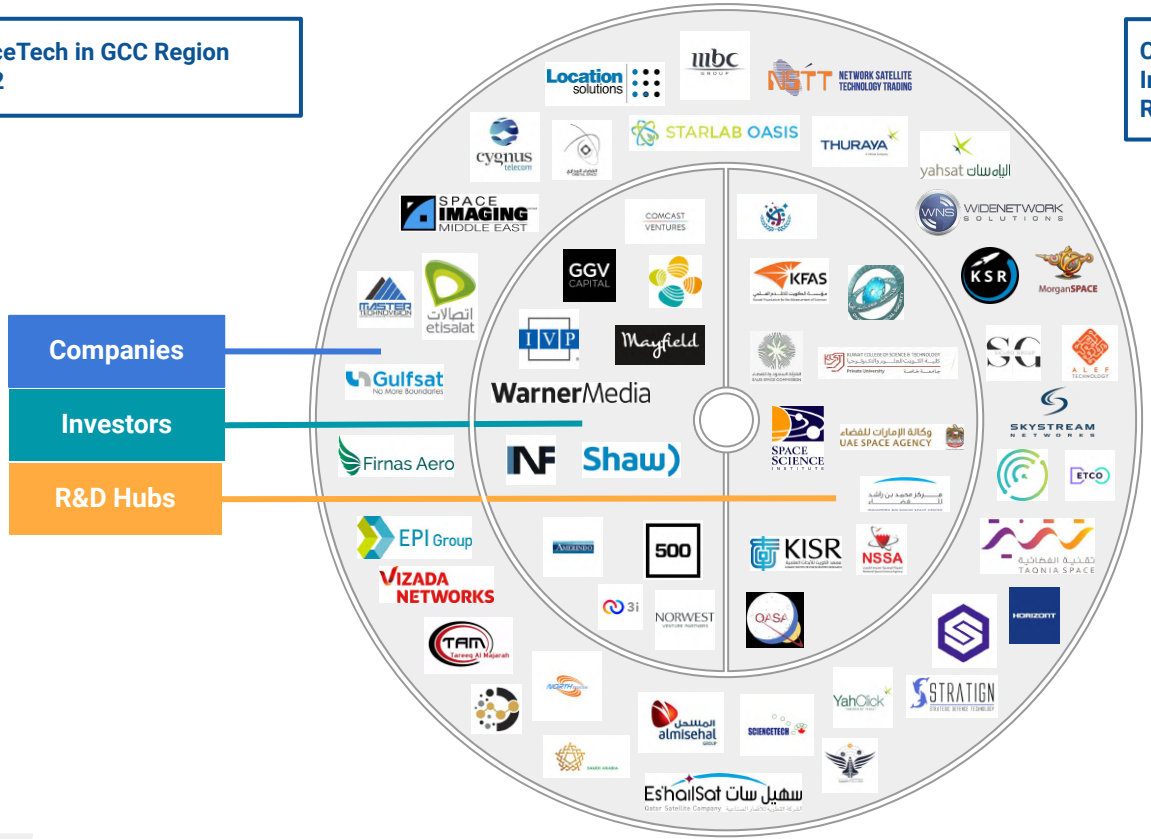
*Kuwait, Qatar, Oman, Bahrain

View more:
www.aginganalytics.com

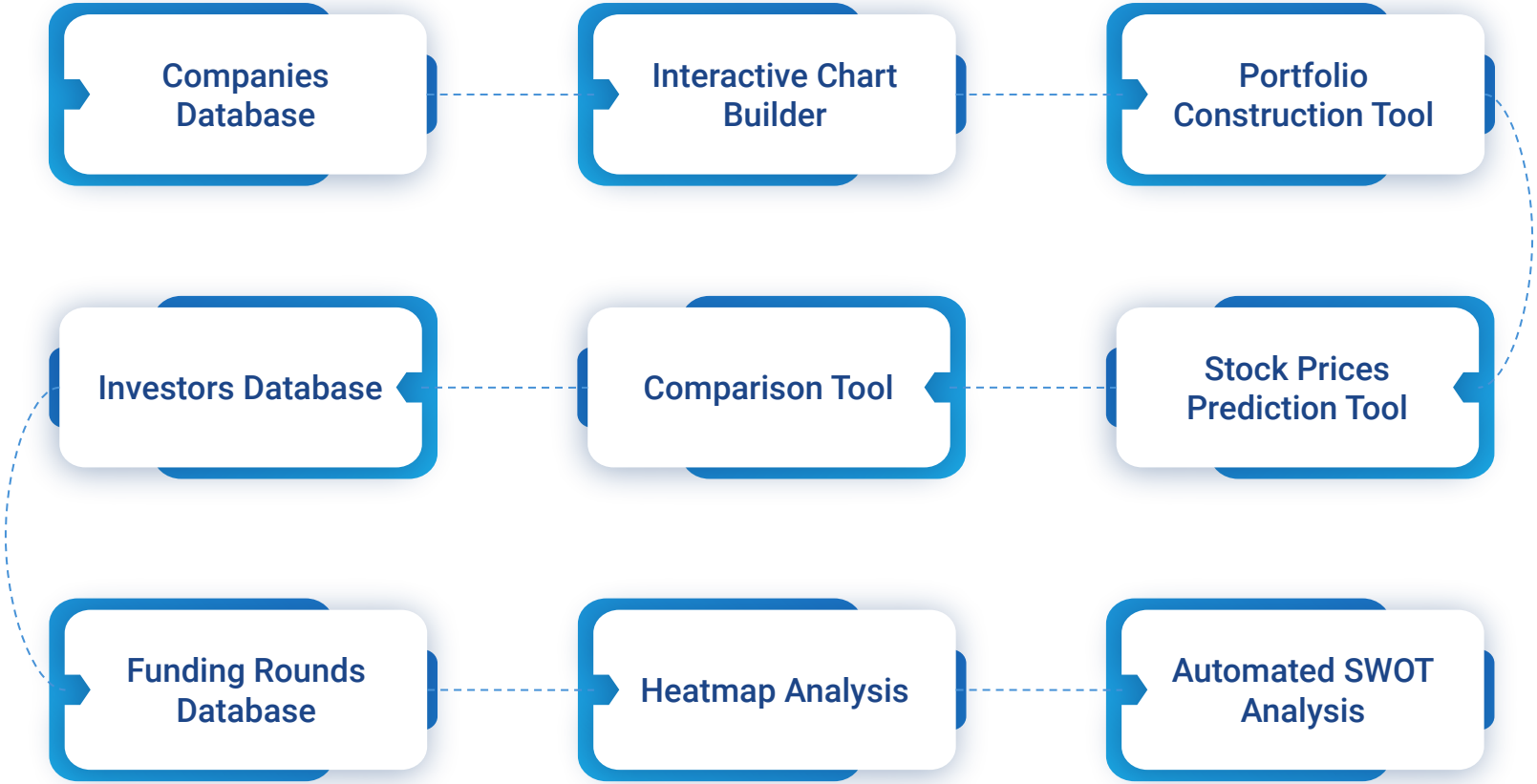
Industry Thematic Mindmap Visualization Example

SpaceTech in GCC Region 2022

Companies – 40
Investors – 14
R&Ds and Hubs – 11



Tools of Gulf Region Tech Industry Big Data Analytics System and Dashboard



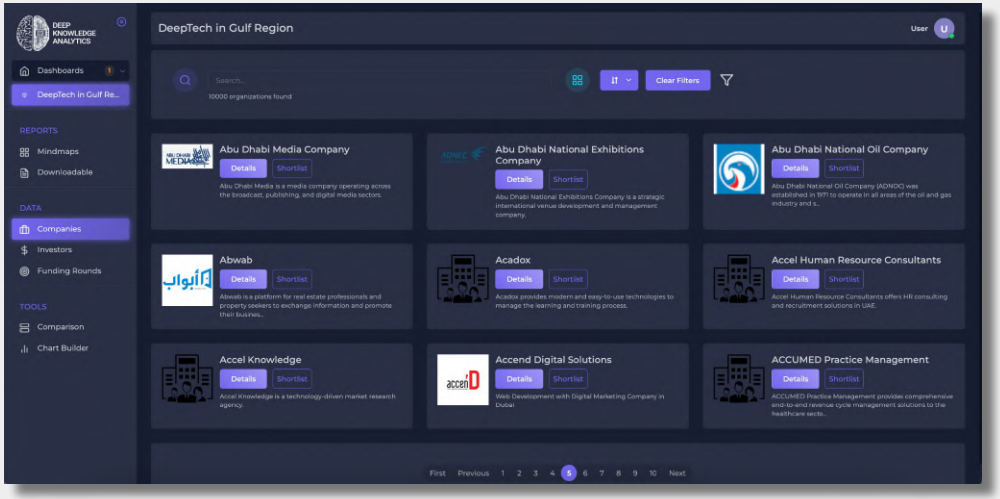
Dashboard Tools: Companies Database

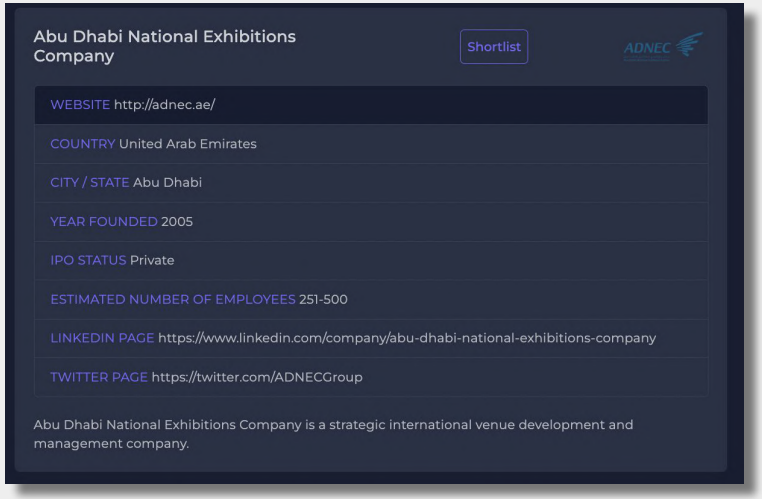
Information on 10,000 tech companies operating in the Gulf Region industry is just a few clicks away. Profile of every company collects the full scope of data, including corporate data, fundraising dynamics, relevant links, etc.

Aggregated database of companies operating in the region

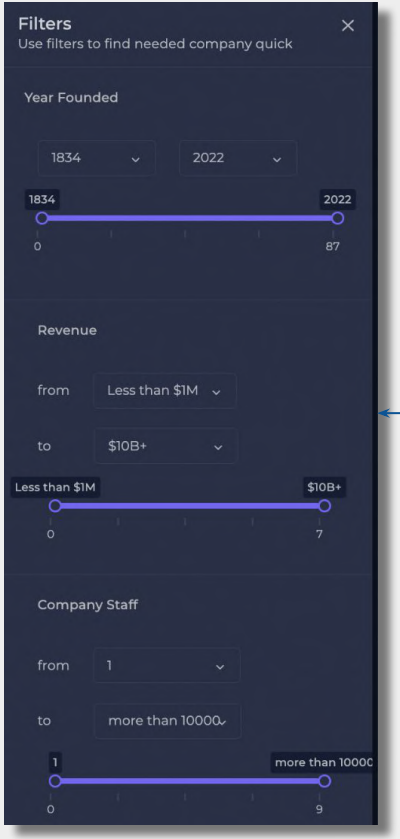
Real-time data updating

Comprehensive market intelligence tool





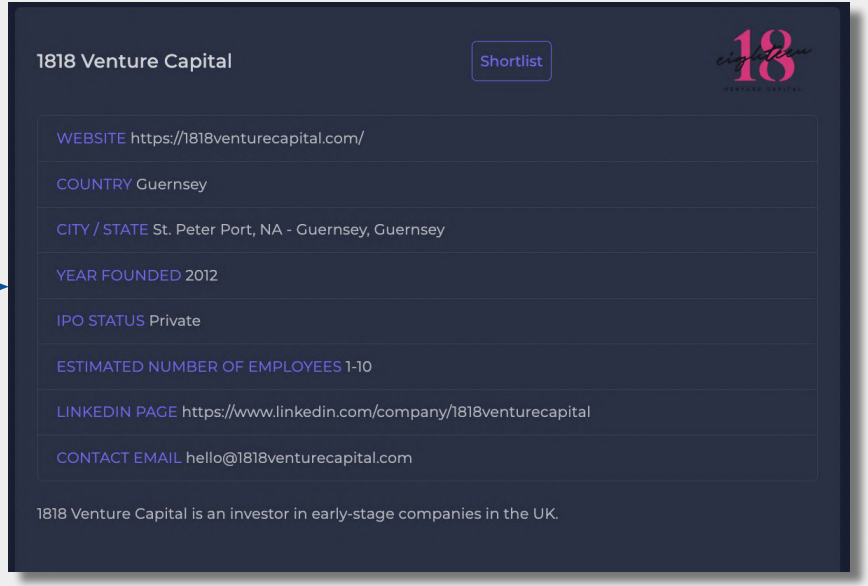
Dashboard Tools: Investors Database

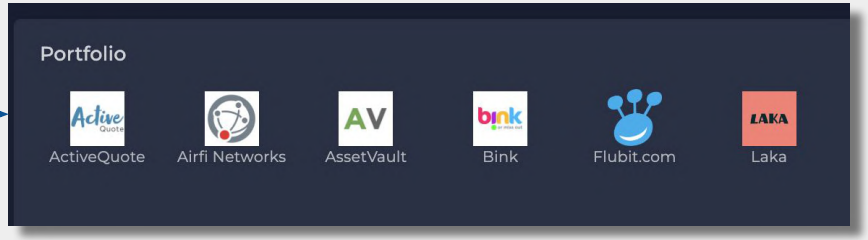


Adjust filtering parameters to get the investors you need out of general database

Get the comprehensive set of data about selected investor aggregated from numerous data sources

View the portfolio companies of every investor in the database, navigate to companies' profiles



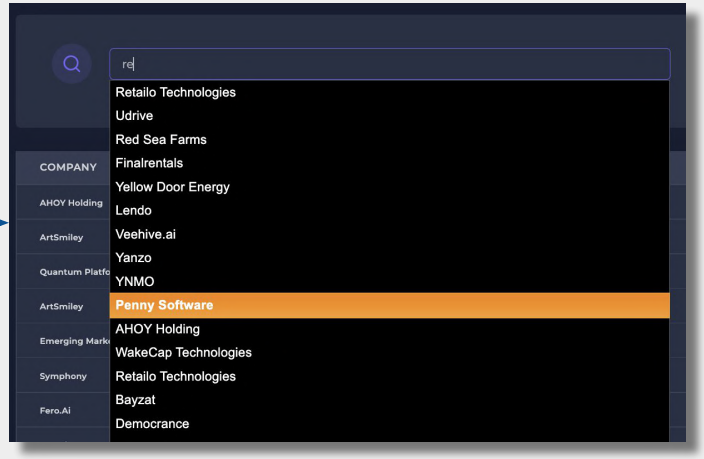


www.deep-innovation.tech/gcc

Dashboard Tools: Funding Rounds Database

Access the database of 2,000 investment deals across the tech industries in Gulf Region. Navigate to the “Funding Rounds” tab which provides the extensive list of investment deals. Every investment deal involves the investors and companies from Dashboard’s database.

Search for specific company you need to get the list of funding rounds over time of company’s activities.



COMPANY	ROUND TYPE	DATE	RAISED MONEY (USD)
AHOY Holding	Convertible Note	2020-11-02	0.71 MM.
ArtSmiley	Non-equity Assistance	2020-11-02	
Quantum Platform	Seed	2020-11-02	0.60 MM.
ArtSmiley	Non-equity Assistance	2020-11-02	
Emerging Markets Property Group (EMPG)	Corporate Round	2020-11-02	150.00 MM.
Symphony	Non Equity Assistance	2020-08-07	0.00 MM.
Fero.Ai	Seed	2020-11-02	0.40 MM.
Symphony	Pre Seed Round	2020-03-23	0.00 MM.
Penny Software	Seed	2020-11-02	1.35 MM.
AHOY Holding	Convertible Note	2020-11-02	0.28 MM.

Browse and sort the general database of investment deals and get the search results you need. View the details of every funding deal including investors, round time, date, raised amount, etc.

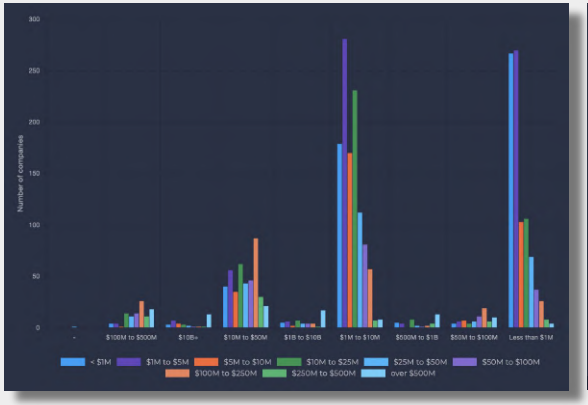
www.deep-innovation.tech/gcc

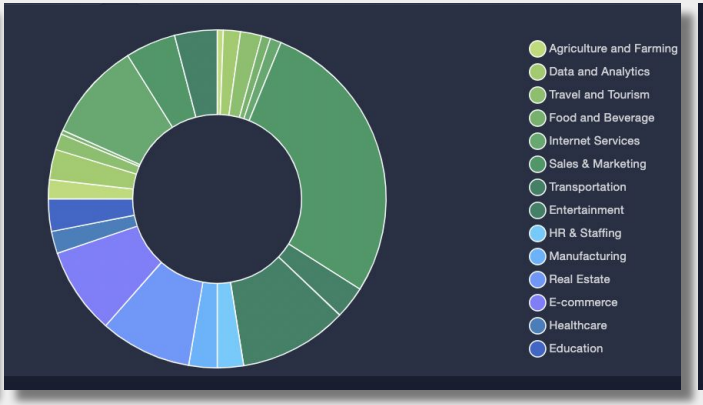
Dashboard Tools: Interactive Chart Builder

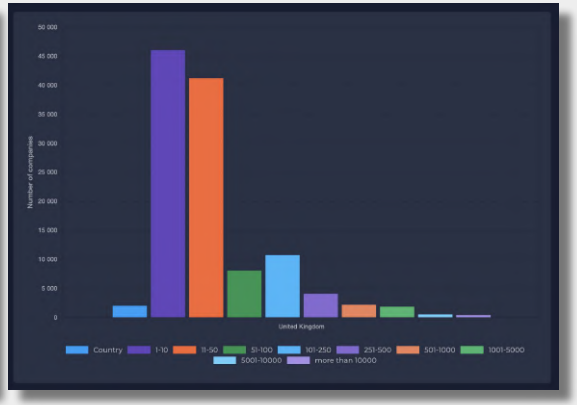
Deep Knowledge Group understands the need for proper representation of the vast volume of data in order to help Dashboard's users to derive the insights from analytics. To this end, Gulf Region Tech Industry Big Data Analytics Dashboard provides the Interactive Chart Builder.

Parameters for Interactive Chart Building

- Foundation Year
- Funding Status
- Estimated Revenue
- Country of Headquarters
- Number of Employees
- Total Funding Amount







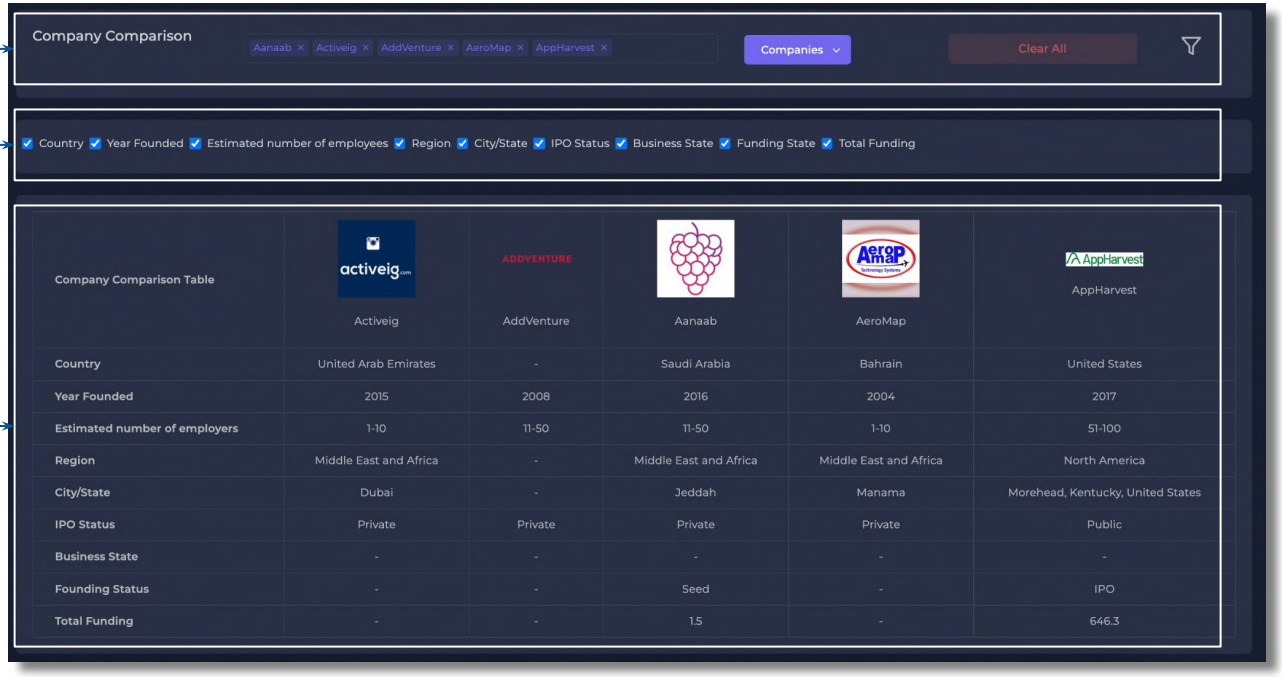
Dashboard Tools: Comparison Tool

Gulf Region Tech Industry Big Data Analytics System and Dashboard provides users with a comparison tool that allows to select a few entities of Dashbord's database and compare them based on the set of parameters. This is a handful tool while conducting the market intelligence across the tech industries in GCC countries.

Search for companies and investors you need

Adjust the parameters for comparison according to your needs

View the results of comparative analysis, add or remove the displayed entities and make the proper decisions

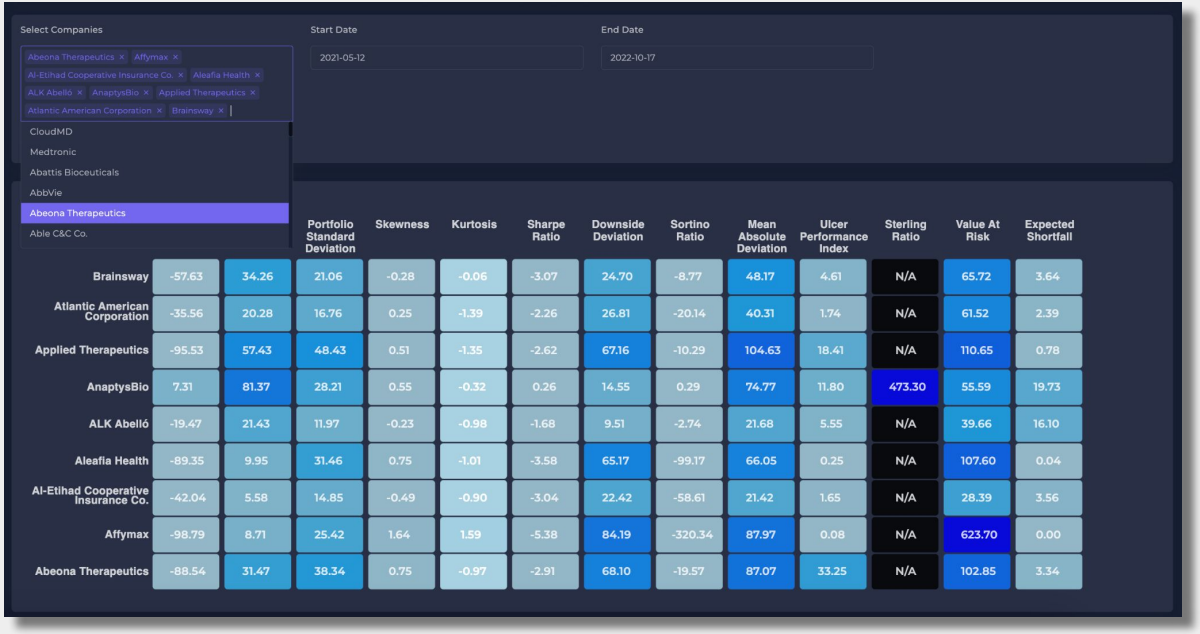


Company Comparison Table	Activeig	AddVenture	Aanaab	AeroMap	AppHarvest
Country	United Arab Emirates	-	Saudi Arabia	Bahrain	United States
Year Founded	2015	2008	2016	2004	2017
Estimated number of employers	1-10	11-50	11-50	1-10	51-100
Region	Middle East and Africa	-	Middle East and Africa	Middle East and Africa	North America
City/State	Dubai	-	Jeddah	Manama	Morehead, Kentucky, United States
IPO Status	Private	Private	Private	Private	Public
Business State	-	-	-	-	-
Founding Status	-	-	Seed	-	IPO
Total Funding	-	-	1.5	-	646.3

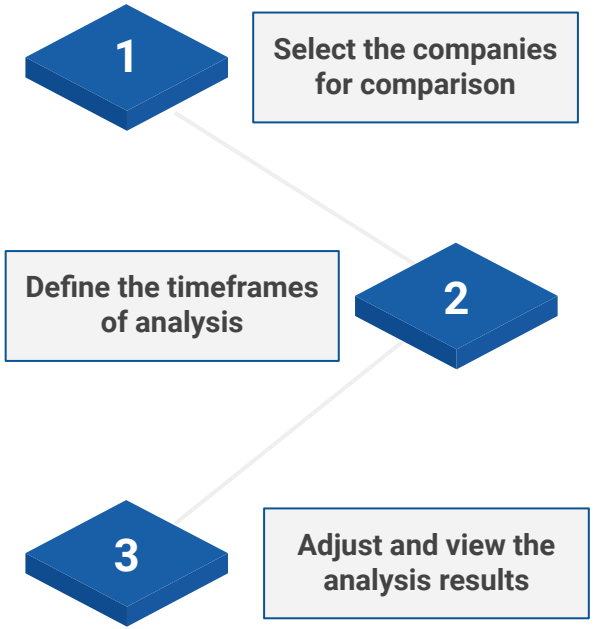
www.deep-innovation.tech/gcc

Dashboard Tools: Heatmap Analysis

Heatmap Analysis is a Dashboard's tool aimed to deliver the visual representation of public companies analysis. Dashboard's users can select the companies they are interested in, set up the specific time range for which analysis will be done. The obtained heatmap will outline the extreme data points which can be crucial for decision-making.



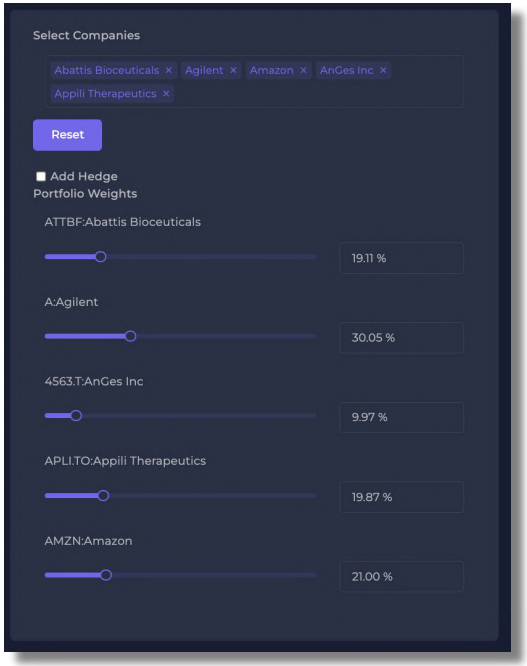
	Portfolio Standard Deviation	Skewness	Kurtosis	Sharpe Ratio	Downside Deviation	Sortino Ratio	Mean Absolute Deviation	Ulcer Performance Index	Sterling Ratio	Value At Risk	Expected Shortfall
Brainsway	-57.63	34.26	21.06	-0.28	-0.06	-3.07	24.70	-8.77	48.17	4.61	N/A	65.72	3.64
Atlantic American Corporation	-35.56	20.28	16.76	0.25	-1.39	-2.26	26.81	-20.14	40.31	1.74	N/A	61.52	2.39
Applied Therapeutics	-95.53	57.43	48.43	0.51	-1.35	-2.62	67.16	-10.29	104.63	18.41	N/A	110.65	0.78
AnaptysBio	7.31	81.37	28.21	0.55	-0.32	0.26	14.55	0.29	74.77	11.80	473.30	55.59	19.73
ALK Abelló	-19.47	21.43	11.97	-0.23	-0.98	-1.68	9.51	-2.74	21.68	5.55	N/A	39.66	16.10
Aleafia Health	-89.35	9.95	31.46	0.75	-1.01	-3.58	65.17	-99.17	66.05	0.25	N/A	107.60	0.04
Al-Etihad Cooperative Insurance Co.	-42.04	5.58	14.85	-0.49	-0.90	-3.04	22.42	-58.61	21.42	1.65	N/A	28.39	3.56
Affymax	-98.79	8.71	25.42	1.64	1.59	-5.38	84.19	-320.34	87.97	0.08	N/A	623.70	0.00
Abeona Therapeutics	-88.54	31.47	38.34	0.75	-0.97	-2.91	68.10	-19.57	87.07	33.25	N/A	102.85	3.34



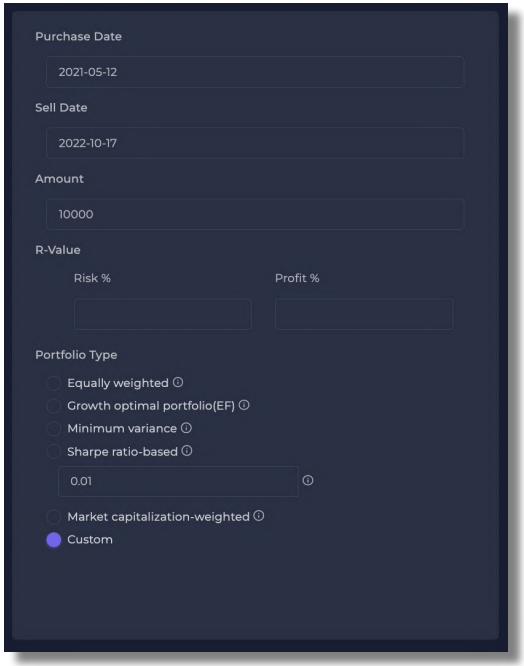
Dashboard Tools: Portfolio Construction Tool

The built-in portfolio constructor lets dashboard's users to check out how selected public companies would perform under various investment strategies if a person had invested in them before. Users may choose among different strategies or adjust weights to find the best outcomes. Backtesting of the portfolio might shed light on how equity basket would behave in the future.

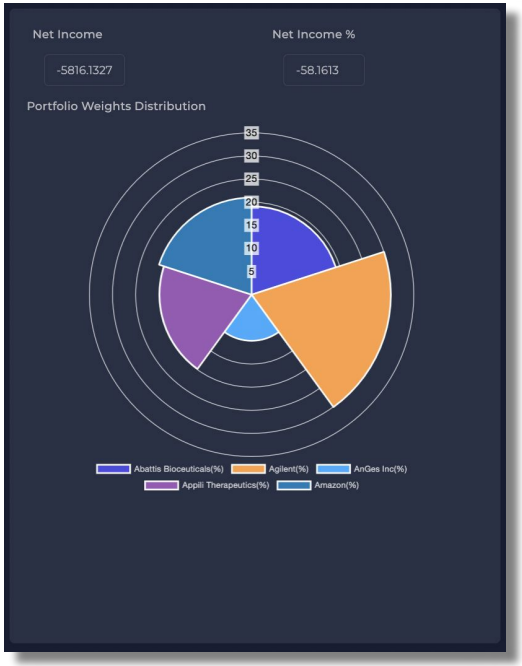
Select stocks and define weights



Set up portfolio parameters

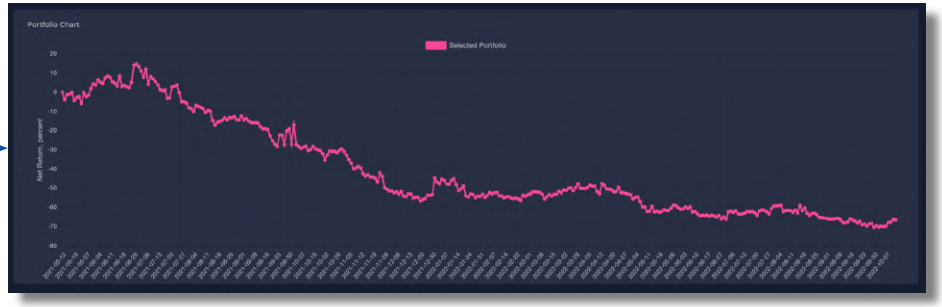


Visualise stocks weights



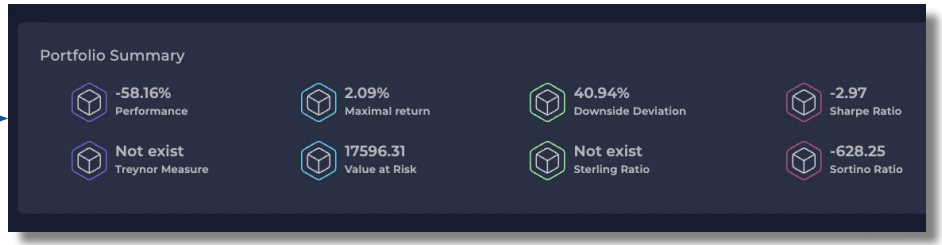
Dashboard Tools: Portfolio Construction Tool

Building the portfolio performance chart based on the parameters and strategy defined by user



Visualisation of portfolio daily returns distribution for selected basket of stocks

Real-time representation of portfolio key indicators of performance



www.deep-innovation.tech/gcc

Dashboard Tools: Stock Prices Prediction Tool

Predictions tool allows to access stock prices forecasting. It allows users to build forecasts on equities prices based on different approaches and compare them in real-time. Advanced AI algorithms behind the tool relying on real-time market data allow to achieve the additional precision of prediction results.

Select the company for analysis

Define forecasting time horizon

Select prediction strategy

Get the visualisation of forecasting

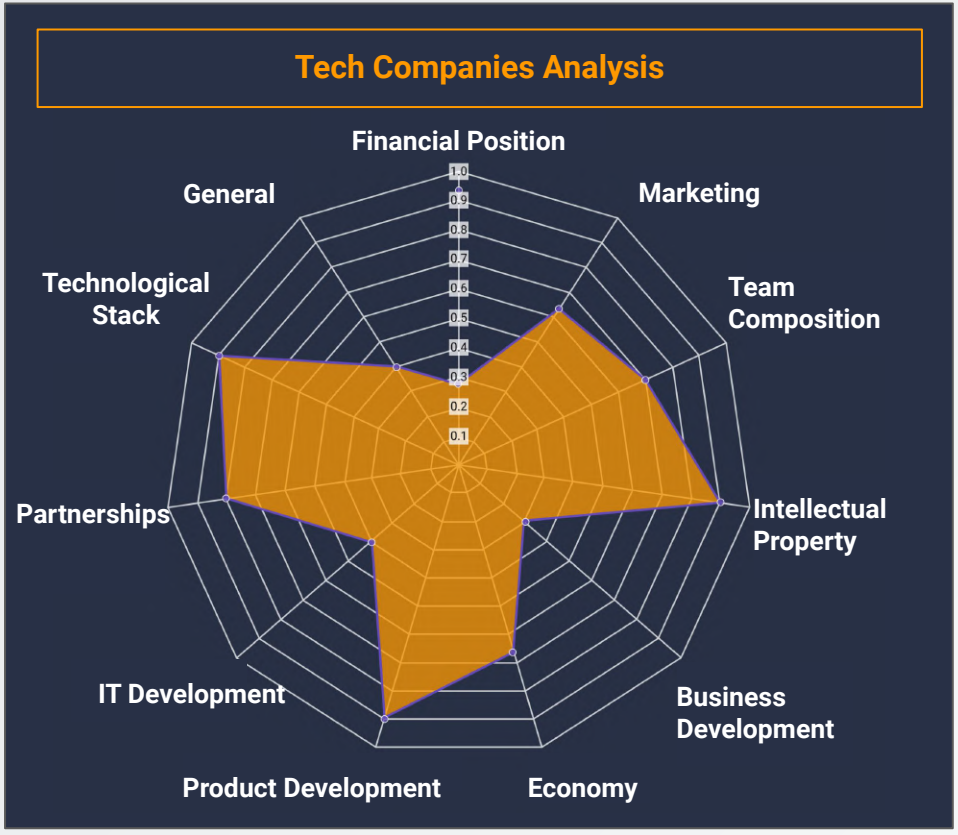
View the forecasted indicators of stock performance

Dashboard Tools: Automated SWOT Analysis

Automated SWOT Analysis plays a pivotal role in analyzing the business activities of companies in the Gulf Region and making the aggregated conclusion on the overall performance of the given company.

The tool is designed to assist in conducting the market intelligence and comparison the large amount of entities (for example, tech startups). The tool allows to make the shortlist of entities that fit the specific request of analytics.

- The parameters of automated SWOT analysis can be customized in order to better reflect the specific features of the given tech industry;
- For each of the parameter groups the assessment score is assigned ranging from 0 to 1;
- The tool takes into account the various types of data: financial information about the company, technological stack, team composition, collaborations, publications, and much more.



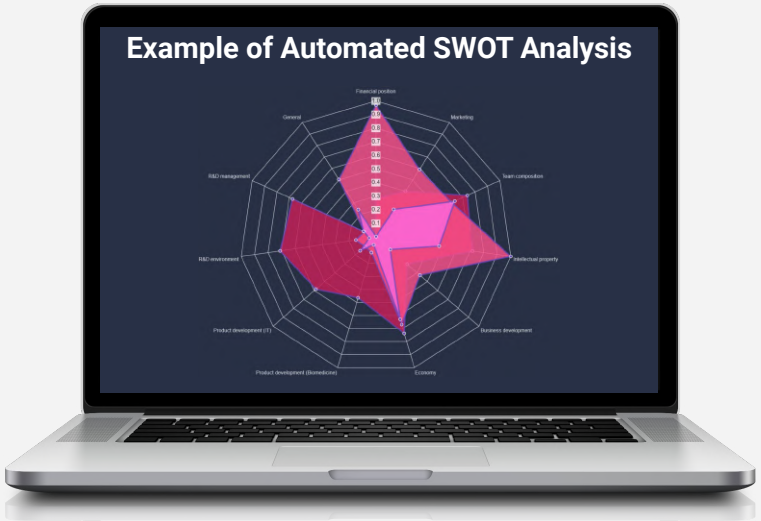
Dashboard Tools: Automated SWOT Analysis

Automated quantifiable AI-driven SWOT Analysis is an analytical tool available **for each company in the database of Gulf Region Tech Industry Big Data Analytics System and Dashboard**.

This tool provides the aggregated scoring of companies based on the primary and alternative data and validated with AI engine. Automated SWOT Analysis plays a pivotal role for analysing the maturity of companies and making the aggregated conclusion on the readiness for the public listing of a given company.

SWOT Assessment Approach

- Reliance on alternative data for making company's overall assessment
- Application of AI algorithms for data parsing and analysis
- Assessment based on 170+ unique parameters clustered into 10 groups
- SWOTs comparison among public and private companies



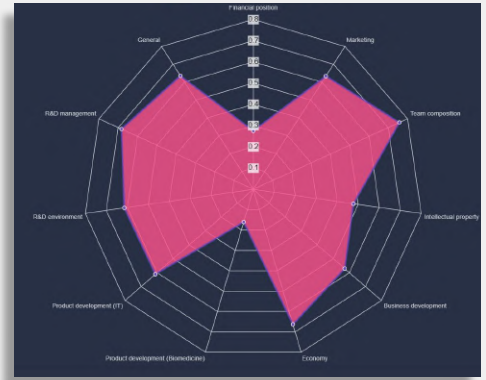
Parameter Groups

Financial Position	Team Composition	Business Development	Product Development	Partnerships
Marketing	Intellectual Property	Economy	IT Development	Technological Stack

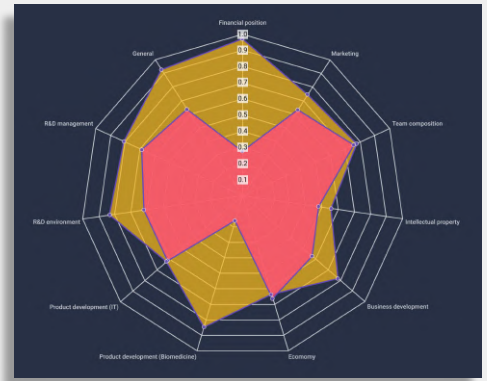
Dashboard Tools: Automated SWOT Analysis

- Automated SWOT Analysis provides the performance scoring, which allows making decisions on the maturity of the given technological company.
- The comparison of company's scores is made based on the benchmark values for every parameters group. Such comparison allows to make a conclusion on the maturity stage of the company.
- Ultimately, automated SWOT analysis allows identifying vetted mature companies able to demonstrate a successful track record in future.

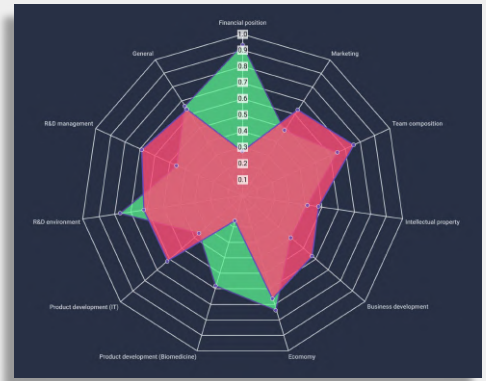
Benchmark



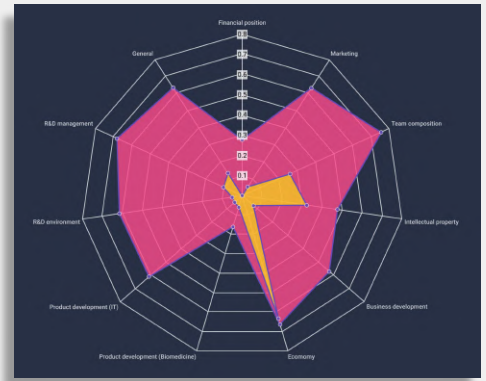
Matured Company



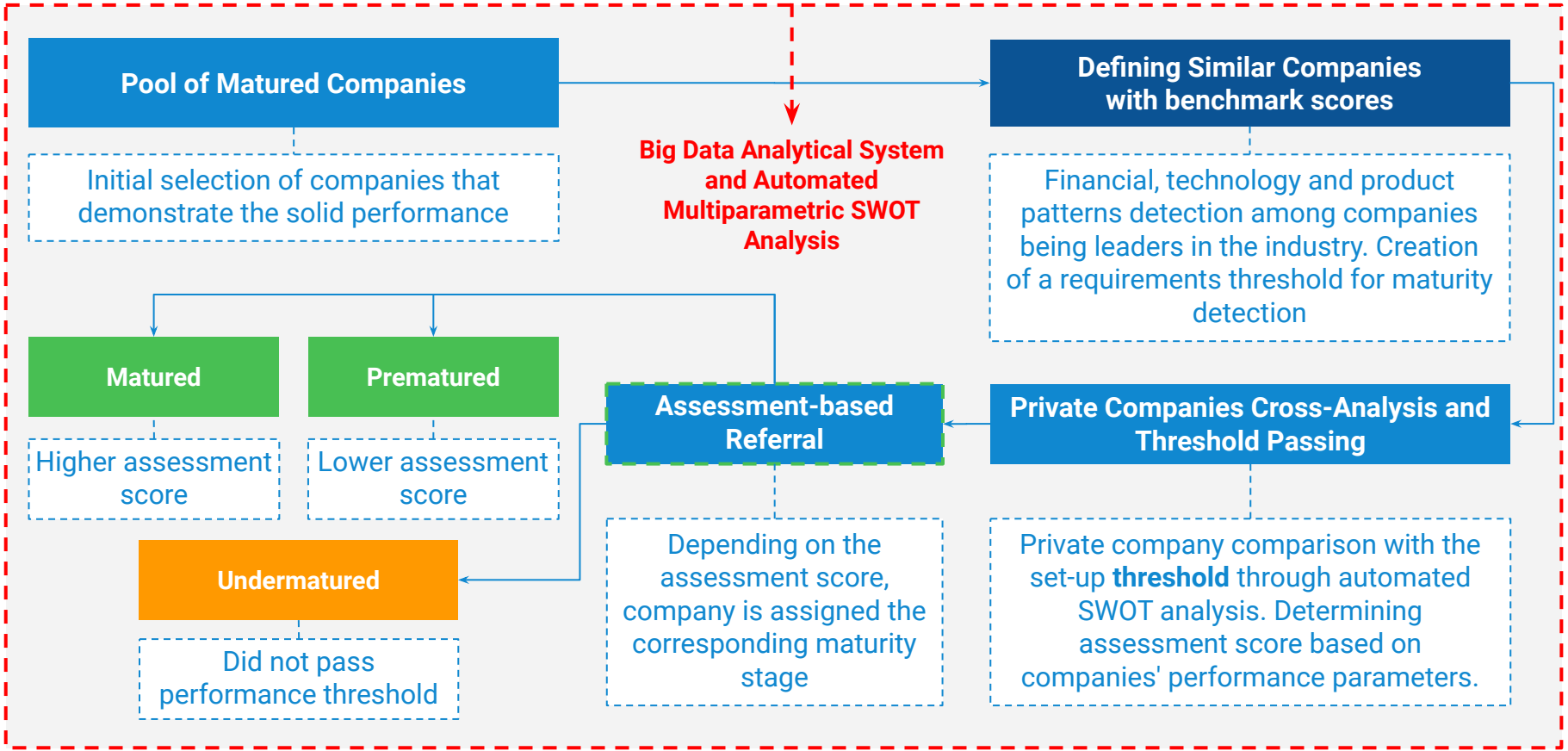
Pre-mature Company



Unmatured Company



Sophisticated Multiparametric Algorithm for Evaluating Listing Candidates



Examples of UK-Focused Big Data Analytical Systems and Dashboards

GovTech in UK Big Data Analytical System and Dashboard

One-of-its-kind SaaS offering a wealth of valuable information on the GovTech Industry in the United Kingdom. It provides the variety of customers with precious insights on the industry. The dashboard is designed for investors, startups and governmental organizations.

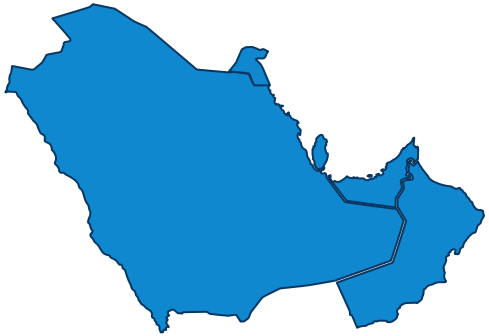
Digital UK Ecosystem Big Data Analytical Dashboard

Dashboard provides the most relevant information about the state of different industries in the UK by regions and the general overview of the economy. The dashboard profiles all companies, investors and R&D hubs shaping the technological landscape in the United Kingdom

Establishing Technological Bridge between the UK and Gulf Region

The United Kingdom ⟷ **Gulf Region**

- Tech Expertise
- AI-driven Approach
- Big Data Analytics
- Automized Matching
- Investment Optimisation



www.deep-innovation.tech/gcc

Future Milestones of the Dashboard and Tools Development

AI-driven Matching Tool

Matching Tools is set to become the core solution embedded into the Dashboard. With strong reliance on the AI, it will be able to generate matching between entities in the database: companies, investors, tech hubs, etc

AI Engine Enhancement

It's planned to constantly improve the capabilities of AI models to ensure the precise results of generated analytics

Market Indices

Generating the analytics which would assist in creation of market indices aiming to track the overall development of tech industries in the Gulf Region

Constant Enlargement of Database

The number of entities inside the database will be constantly increasing due to automated parsing mechanism

Summary to Gulf Region Tech Industry Big Data Analytics Dashboard

White-label solution for market intelligence for tech industries in the Gulf Region embodying the best practices and most sophisticated approaches pre-validated and developed for other Deep Knowledge Group Big Data Analytical Systems

Gulf Region Tech Industry Big Data Analytics Dashboard will serve as the ideal source of data-driven on-demand analytics guaranteeing uniquely and decisively asymmetric advantages for those who have access to it

Monitoring of technological trend and best-practice analysis of companies in the Gulf Region, deriving actionable insights on the activities of major industry players

AI-driven Big Data analytical tools providing real-time analytics on startups, investors, corporations shaping the tech landscape in GCC countries

Comprehensive suite of AI tools for competitors landscape mapping and conducting tangible, practical and actionable data-drive and endpoint-focused market intelligence

DEEP KNOWLEDGE ANALYTICS

www.dka.global

DEEP KNOWLEDGE GROUP

www.deep-innovation.tech

Deep Knowledge Group

www.dkv.global

DEEP KNOWLEDGE GROUP

www.dkv.global/gcc

InvestTech Platform

www.invest-platform.tech