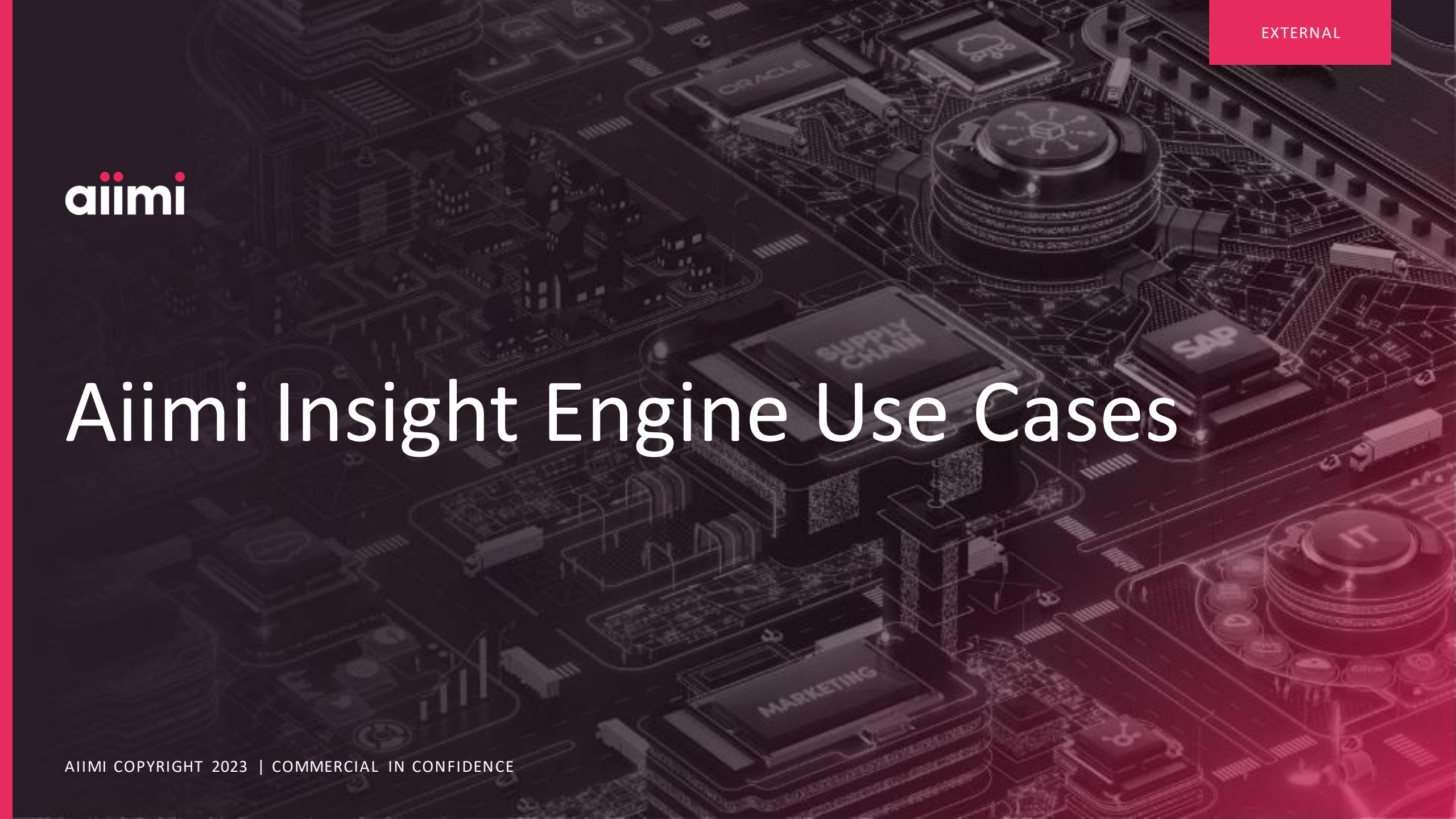
EXTERNAL

aiimi

Aiimi Insight Engine Use Cases



Use Case Themes.

KNOWLEDGE MANAGEMENT

Knowledge search, phrase and topic identification, classification of commercial and bid material to build a Knowledge Centre to support future bids.

RISK & COMPLIANCE

Identifying regulation controlled information within your data and ensuring that it is protected and can be discovered and disclosed on demand.

EXPORT CONTROL

Automatically classify information that contains export controlled data.

DRAFT PROPOSAL CONTENT GENERATION

Proof of concept to use large language models to generate draft proposal content from existing bid material.

Aiimi Insight Engine.

EXAMPLE USE CASES

Supply Chain Risk Analytics – Manufacturing.

How do we identify and respond to international events that threaten our supply chain?

Why?

Our customer's global supply chain is vulnerable to public order disturbances, military action, natural disasters and disease outbreaks. Their global network is a diverse mix of materials suppliers, manufacturing locations, transport links and ports.

The client wished to gain early insight into developing situations in proximity to their locations.

How?

AIE uses public and subscription news feeds and social media to gather intelligence from around the world on events which may impact the organisation's supply chain. These include;

- Raw materials
- Ports and Transit Routes
- Factory / Office Locations
- Key Suppliers
- Key Buyers
- Key Brands

Outcome?

Sentiment-driven risk management dashboards showing positive/negative heat maps for supply chains, key locations and facilities ensure the company is now fully aware of developing threats and can more effectively support their staff in affected locations.

They can also implement alternative supply routes or seek new suppliers when needed to satisfy their demand.

Engineering Knowledge Management – Automotive.

How do we connect engineers to historic design decision information and shorten time to market?

Why?

This customer's engineering workforce had grown rapidly to 60,000 employees across several sites. Time to market for new products was impacted by an inability to use existing design information to shorten new design cycles, identify relevant subject matter experts and to evidence design decisions during market approval processes.

How?

We implemented AIE to discover and index the entire corpus of design information across file shares and Google Drive. Several petabytes of information were labelled with the names of their subject engineers, products, subsystems and parts, which enabled the customer to build a comprehensive knowledge network of all design information.

Outcome?

The solution allows an engineer or quality analyst to enter a description of the component or system that they are working on and to be presented with a relationship map of subject matter experts, existing design documentation and equivalent platform architecture components. This is used to shorten design and quality control (time to market) by up to 2 months for a typical new product.

Export Control – Defence Contractor.

How do we ensure data security to support an outsourcing programme?

Why?

Our customer creates defence related equipment that is restricted (along with its documentation) from export to another organisations or geographies.

When the organisation outsourced a large department that relied on a repository of over 200k poorly catalogued documents, they were faced with having to manually review each document individually to ensure that it was not export controlled, prior to releasing it.

How?

Aiimi Insight Engine was implemented in around 6 weeks and configured with a taxonomy of terms and parts specific to the operation of our client.

This was used to determine if documents contained restricted information by applying a probability factor to each document. The probabilities ranged from 'not export controlled', through 'possibly export controlled' to 'export controlled'.

Outcome?

75% of the documents were automatically classified with high certainty and either immediately released or withheld.

The remaining 25% were manually reviewed using Aiimi Insight Engine to open the document and highlight interesting language within it. Review time was cut from 35 minutes to just 5 minutes for each remaining document. Overall this saved over 50 FTE years of effort.

Fraud Analytics – Regulatory Body.

How do we link events, locations and people to identify criminal activity.

Why?

Our client is responsible for financial services regulation, including authorising financial practices and enforcing against malpractice. The process of gathering and analysing information to make a determination and then to provide the information to enforcement teams was slow and cumbersome, requiring lots of manual input.

How?

Aiimi Insight Engine's data ingestion capability was used to ingest 500 different datasets from public information stores such as Companies House, internal datasets and regulatory submissions amongst others. Each record is tagged with information about the individuals and businesses contained within. Various visualisations are provided to analyse the information and the collection capability is used to create evidence packs which are passed on to the investigation case management system.

Outcome?

The organisation is able to spot patterns in previously unrelated datasets much more effectively and then visualise the flow of events or transactions.

This enables a proactive approach – with 'authorisation to practice' not being issued to suspect individuals - rather than the them being allowed to trade and then shut down via a retrospective 'enforcement action'. AIE also generates a comprehensive custody chain for information used in criminal cases.

Privacy & Compliance - Retail.

How do we achieve regulatory compliance across multiple organisations and data sets?

Why?

Retail organisations such as our client are subject to increasing levels of scrutiny over their handling and compliance with privacy regulations. They need to be able to comply with requests quickly and completely through multiple channels. In 2022 Apple changed its policy with regard to deleting apps from iOS devices, insisting that Right to be Forgotten (RTBF) was included as part of this process. This has lead to an increase in deletion requests.

How?

Aiimi Insight Engine is used to crawl structured customer account, order and returns information from Google BigQuery and employee information from M365. The information is then scanned for personal data. Subject Access Requests and RTBF requests are accepted electronically by form, email or service ticket, the relevant information is then collated automatically for human review and then deleted or redacted and disclosed.

Outcome?

The time to process a subject rights requests reduced by approximately 84%.

Competitive Analysis – Transport Solutions.

How do we gain advantage and stay a step ahead of our competitors by reading the market?

Why?

This client works in a challenging market where each vendor competes with similar solutions.

Small differentiations can make significant differences to a pitch, including the organisations environmental, social and governance (ESG) initiatives. Monitoring the market, looking for good ideas and staying ahead of the competition is of paramount importance.

How?

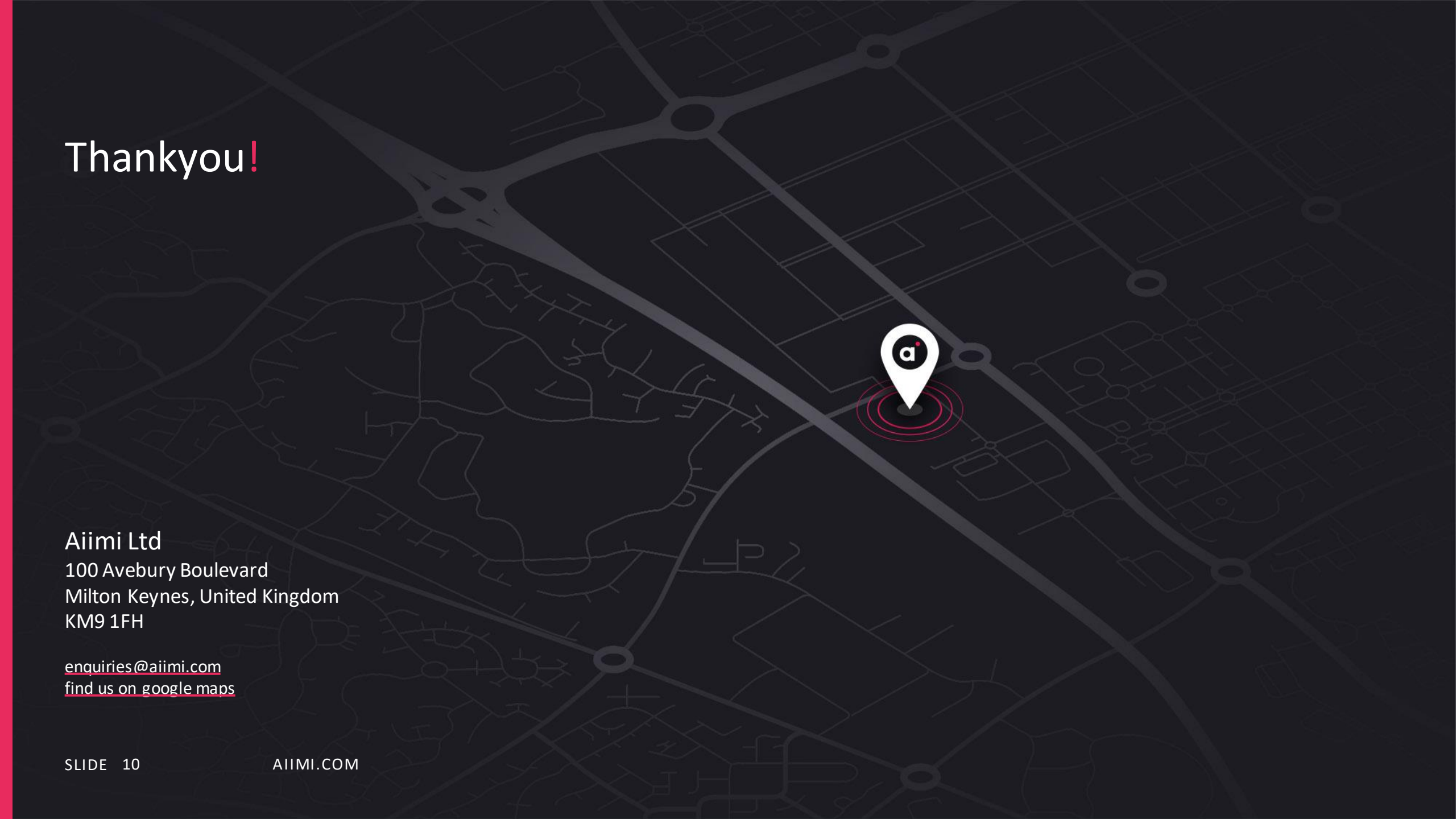
Aiimi Insight Engine discovers information by crawling the websites of peer organisations, think tanks and policy bodies.

Articles or documents related to ESG initiatives are tagged, labelled and summarised, with key phrases and topics extracted to allow periodic, rapid review of new initiatives and collection of packs of information to support our customers own policy making.

Outcome?

The ESG teams within our client are able to combine ideas from across the market and from special interest bodies with internal ideas and initiatives to create a market leading suite of approaches and activities to combat CO2 emissions, contribute effectively to society and protect the organisation against external and internal risks.

Thankyou!



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