# The power to prioritise your electrical asset investment

**ea** technology | **AIM**®
ASSET INVESTMENT MANAGEMENT

## Asset Investment Management

Our risk-based Asset Investment Management is the very definition of excellence in asset management, ensuring electrical assets can be maintained in a safe, reliable state at the lowest possible cost.

**www.eatechnology.com**

# What can AIM do for you?

## Capture, utilise and communicate knowledge

AIM models use your asset data to make an objective and defensible evaluation of asset health, performance, consequence, and risk. Models harness the experience and expertise of your asset engineers who, combined with our worldwide specialist knowledge, ensure that your models reflect your reality.

## Predictive analytics

Using our models can provide you with a predictive assessment of the future health and risk of failure, alongside an assessment of the current asset condition and likelihood of failure.

## Prescriptive analytics

Using our models, you will assess repair, replace and maintain actions for each asset based on the future predictions. The implication of each action is modelled, allowing you to anticipate what will happen, when it will happen, and why.

## Scenario modelling

Using our models, you will simulate different asset investment plans and assess the benefits of these on the network.

**Scottish & Southern**
Electricity Networks

"EA Technology's key strengths are technical knowledge, experience and coming up with innovative solutions."

Landel Johnston
- System Integration Manager

**Health** Index
How healthy is my asset and how fast is it aging?

Probability of **Failure**
How likely is my asset to fail?

**Consequences**
What is the impact on the network, safety, environment and costs if my asset fails?

**Risk**
What is the risk my asset carries in my network portfolio?

**Interventions**
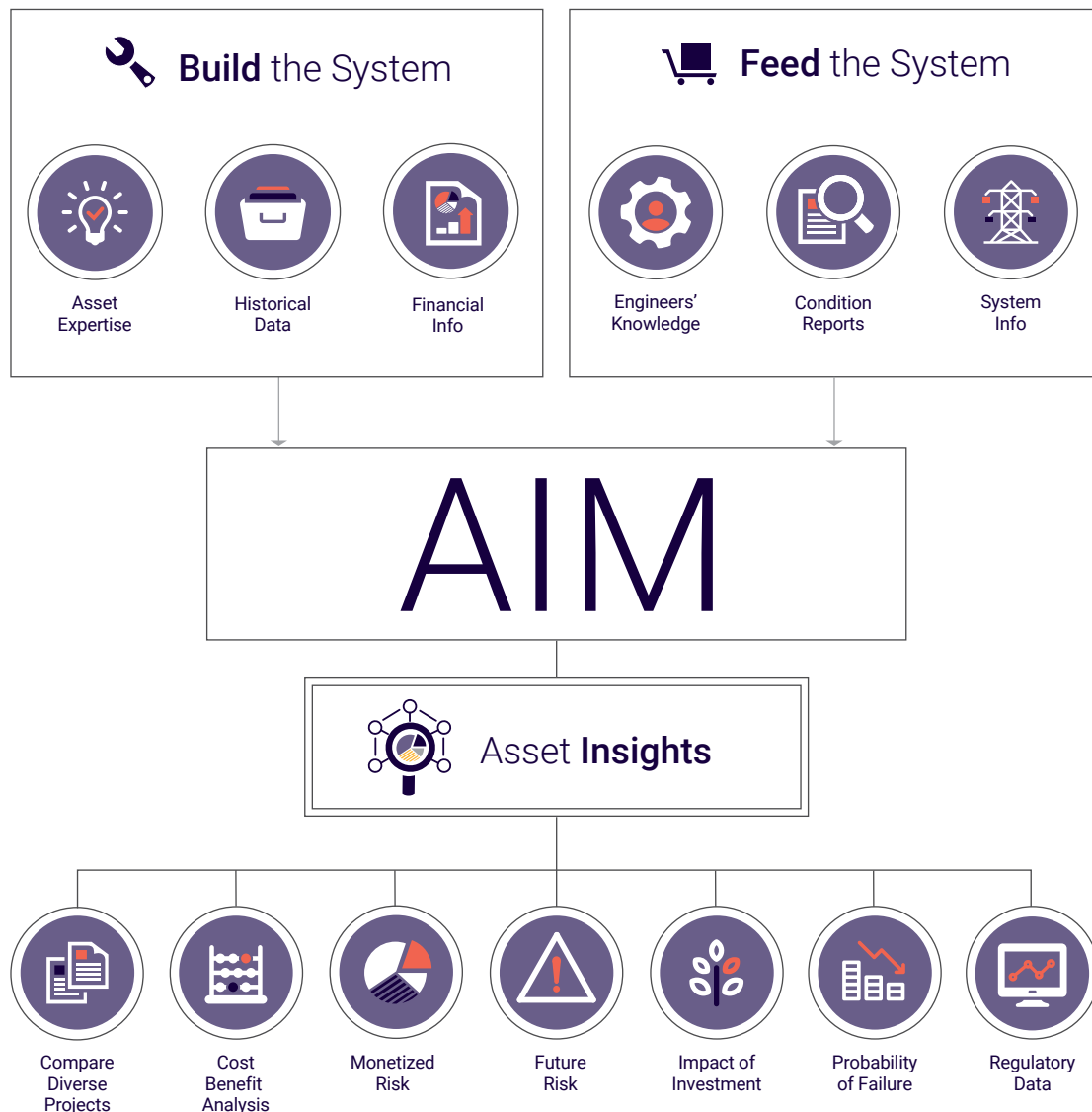What can we do to control our risks?

**Investment** Tracking
Is the plan on schedule and is it having the expected effect?

# In high-performing businesses, accurate information is paramount

## Build the System

**Asset Expertise**

**Historical Data**

**Financial Info**

## Feed the System

**Engineers' Knowledge**

**Condition Reports**

**System Info**

# AIM

## Asset Insights

**Compare Diverse Projects**

**Cost Benefit Analysis**

**Monetized Risk**

**Future Risk**

**Impact of Investment**

**Probability of Failure**

**Regulatory Data**

## Smarter decision making

Our analytic models give you the asset information you need at your fingertips. We provide software encompassing our asset health and risk based modeling, optimised investment planning and benefits tracking. Our software is supported by a team of engineering domain experts, specialising in operations, planning, regulation, asset management and forensic analysis within the electricity industry.

Our decision support framework helps you to target investment for maximum return and ensure the ongoing performance of your assets.

## Tackling the big questions

- How much can we reduce expenditure without impacting future performance?

- Which assets do we urgently need to get off the system?

- Is the asset investment plan delivering the expected benefits?

- Where are there significant safety risks on our network?

# Delivered to fit your needs

Our AIM system can grow with you, from a small scale, manually fed solution to an enterprise solution with full integration into corporate data systems and dashboards.

The software provides all the tools you need to manage your assets. Alternatively, we can offer you a managed service where our experts provide you the insights you need to maximise the potential of your assets.

| | |
|---|---|
| **Hosted** **Self-hosted** | **Your Asset Data** **Local Data Files** **Corporate Systems** **Domain Knowledge** |

## AIM System

**Data Interface**
Get the asset data from your corporate systems or local files

**Data Mapping**
Map and transform your data to the models

**Model Engine**
Models run to calculate decision support results

**Results**
Operational and management reports and dashboards

## AIM Results

**AIM Software**

**Corporate Systems**

**Managed Service**

"EA Technology's knowledge of the DNO systems is very good, a healthy mix of engineering and consultant expertise."

Barry Walker
- Asset Manager

## Asset Model Selection

We've been building decision support models with customers for over 15 years and have a wide selection of asset models at every voltage – from low voltage to transmission – in use globally.

Our asset models include:

**Switchgear**

**Transformers**

**Overhead Lines**

**Cables**

# What does AIM look like?



The AIM System is web based, graphical, intuitive, and configurable. The user can drill down from map views all the way to raw data.

## Dashboard

In the dashboard, the user can build their own view of exactly what is important to them.
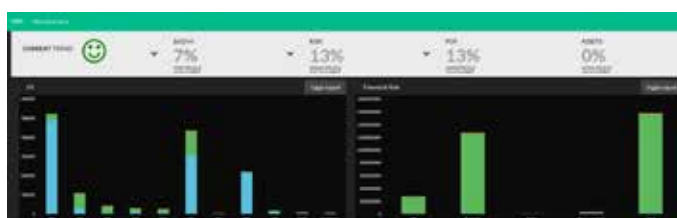


## Asset View

In Asset View mode, the user can see the key information across the asset fleet on current asset health, probability of failure and risk.
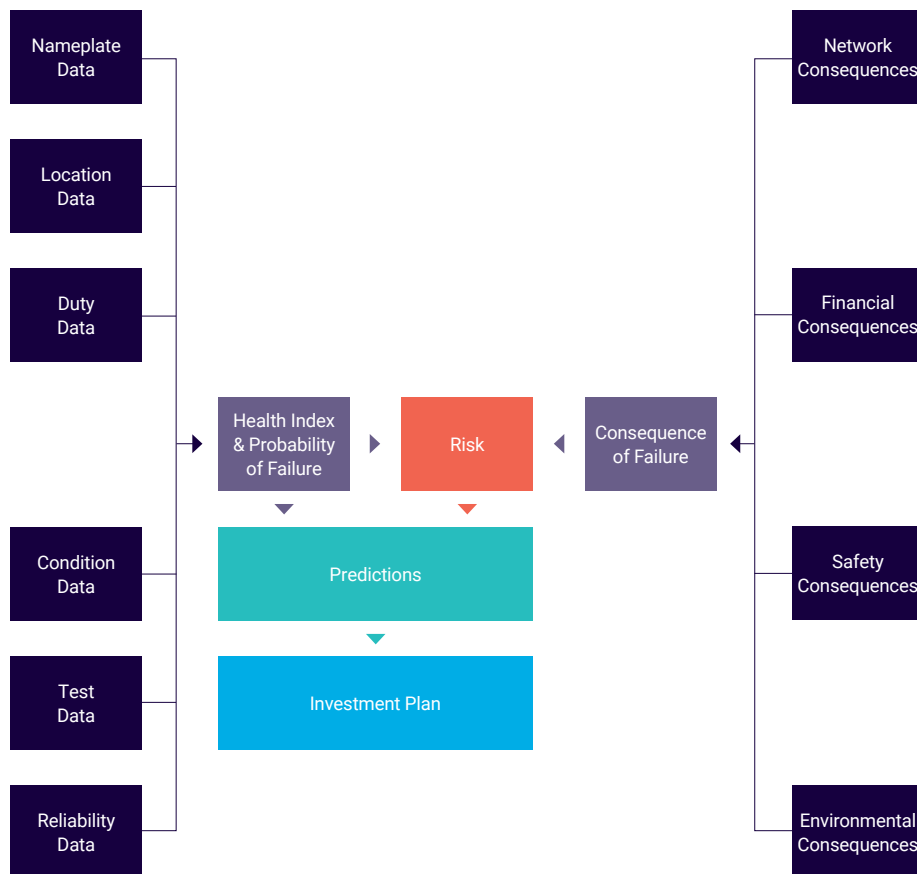


## Map Dashboard

With the Map Dashboard, the user can quickly see where the asset issues are on the network. Filters and drill downs to asset detail allow the user to explore the asset fleet.



## Plan and Track

In Plan and Track, the user can set up investment plans for bundled groups of assets and track the progress and performance of the work.

# World Class Methodology

Nameplate Data

Location Data

Duty Data

Health Index & Probability of Failure → Risk ← Consequence of Failure

Predictions

Investment Plan

Condition Data

Test Data

Reliability Data

Network Consequences

Financial Consequences

Safety Consequences

Environmental Consequences

The AIM system relies on the methodology behind it to ensure results are derived from key data and proper implementation.

It is not enough to buy a software tool: the entire organisation needs to work together to make this system robust and sustainable, and to ensure business as usual.

## Expert Assistance

Our highly experienced engineers are available to provide customers with any assistance they may need with their asset modelling or decision-making processes. This could include training; data collection; data mapping; technical consultancy or system deployment.

We call on the experts from our forensic department, field service team, instrument designers, transformer oil and SF6 lab engineers and utility experienced consulting group to make sure this system is technically superior to financial-only systems.

**#FACT1**
AIM IS IN USE BY OVER 75 UTILITIES GLOBALLY

**#FACT2**
AIM GOVERNS BILLIONS OF $/YEAR OF ASSET INVESTMENT

**#FACT3**
EA TECHNOLOGY HAS MODELLED MILLIONS OF ASSETS ACROSS THE WORLD

# What our customers are saying about us

**WESTERN POWER DISTRIBUTION**
*Serving the Midlands, South West and Wales*

"EA Technology ensure a professional delivery - very well structured and planned delivery process."

**Phil Mann**
- Planning & Regulation Special Projects Engineer

**NORTHERN POWERGRID**

"A genuine intellectual / scientific concern for the customer's problems. Great innovation where customer needs are paramount."

**Mary Black**
- Electricity Distribution Engineer

**HEP**

"The project has brought benefits in securing data, by analysing and linking multiple applications such as GIS, Scada and others."

**Nikola Bogunović**
- Head of Department, Asset Management

**EIHP**

"A logical continuation of the improvement of network development planning activities in HEP DSOs with a shift to a higher analysis of the condition of facilities and equipment."
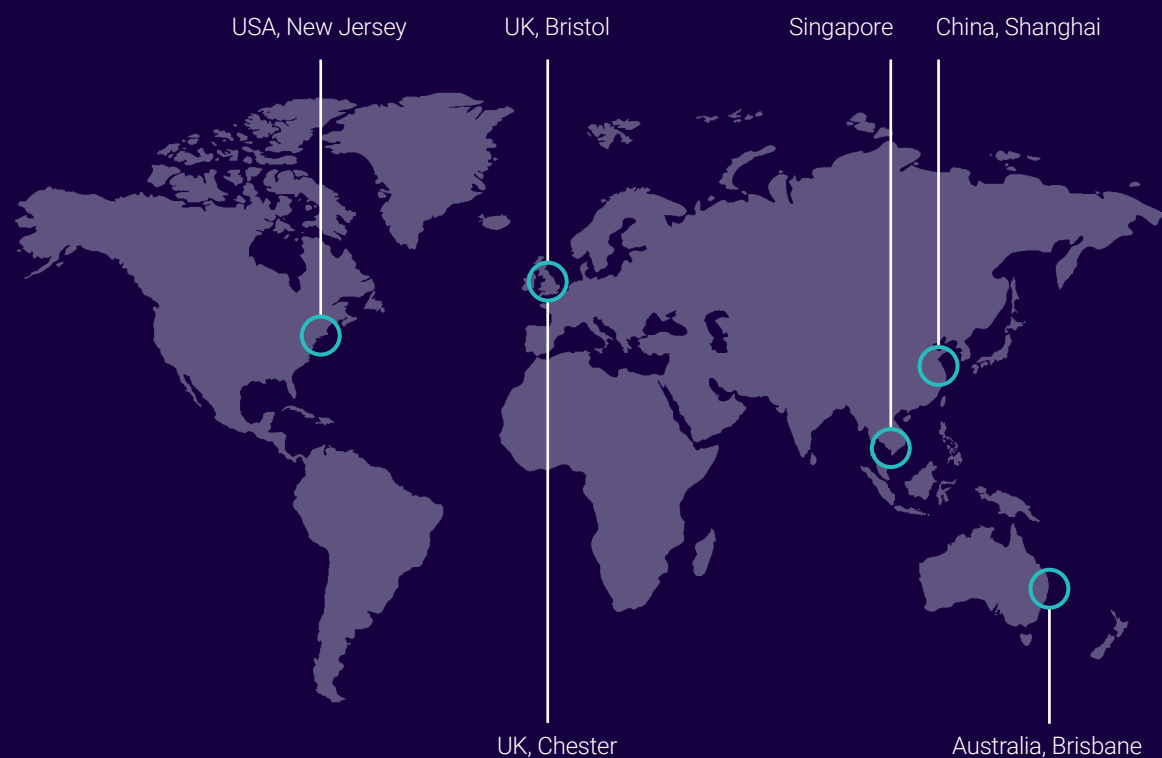
**Tomislav Baričević**
- Deputy Head of Transmission and Distribution Department

For more information please call us on +61 (0) 7 3256 0534 or email us at **au.sales@eatechnology.com**

# Global Footprint

At EA Technology we specialise in asset management solutions for owners and operators of power network assets.

USA, New Jersey

UK, Bristol

Singapore

China, Shanghai

UK, Chester

Australia, Brisbane

**Founded in 1966 we have over 50 years' experience in the industry and 6 regional offices around the world to support our global customer base.**

We work with a lot of our clients on a long-term basis to help them safeguard their power networks.

We advise our clients on strategy and implementation of a range of technology solutions to manage power assets, delivering maximum life and minimising cost

## ea
technology

### Safer, Stronger, Smarter Networks