



BUILDING ANALYTIC CAPABILITY



Discover how Enterprise Decision Analytics® from SEAMS is securing a more efficient future for infrastructure

SEAMS provides decision-making via our Enterprise Decision Analytics platform, EDA®. EDA® has enabled SEAMS' clients across a range of infrastructure industries to achieve up to 17% savings in capital and operating costs.

Enterprise Decision Analytics® informs and empowers stakeholders

SEAMS' clients gain a strategic oversight of what needs to happen to their assets, costs, and revenue requirements to keep their businesses performing at desired levels.

By using advanced algorithms, EDA® explores the extraordinary and overwhelming numbers of decision choices available to asset managers to find the best series of actions to deliver a required outcome. This automated search method frees up clients to focus on evaluating business scenarios and not be buried under a mountain of information. We call this optioneering.

Spend money on the right assets at the right time

Pipes, wires, transport, structures, buildings, plant and equipment – they are all assets with common issues; they produce or deliver a service, and over time they deteriorate and need investment.

EDA® uses data to understand, forecast, and visualize the impact of asset deterioration on a system. A whole-life view is formed from which investment choices can be made. By making better use of their data, clients see how they can do more with less; something that is fundamental in achieving the best value for money for stakeholders, customers, and tax payers.



SEAMS
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Discover how Enterprise Decision Analytics® powers decision-making in infrastructure today for tomorrow's needs





Data Preparation

Take back control of data by structuring and storing it within a single centralised Data Hub. SEAMS ensures that clients' data remains identifiable to analytics and modelling for a transparent and repeatable process. This is important when multiple stakeholders are needing access to information to provide credible and justifiable business cases for spending.



Optimized action plans

EDA® algorithms process the billions of business action possibilities for modifying how your infrastructure performs to achieve the outcome you need within the constraints of your business. These may be financial; regulatory; environmental or human resource. The output is an action plan that is reported via graphical, document, financial forecasts and GIS interfaces that all of your stakeholders can use.



Analytics

Millions of data items are explored to reveal contextual information about asset performance and deterioration. This is displayed via informative graphical interfaces, including heat maps and geographical information systems. EDA® reveals patterns and trends you may never have known existed.



Rich visualisation

EDA® presents dynamic views of the results of modelling and asset analytics. Rich data visualisations using charts, graphs, tables and maps enable a rapid understanding of the best decisions. With 'what if' scenario analysis, EDA® shows how different investment options impact business outcomes.



Performance, Cost & Risk Predictions

EDA® explores asset behaviours to build a picture of the current and future states of assets, so that we can start to learn how to make a difference through optimal investment actions. Your business decisions create a cause and effect. It is the job of EDA® to explore how this can be used to achieve performance and risk outcomes at minimum whole life cost.



Enterprise Decision Analytics[®] solves problems across business areas

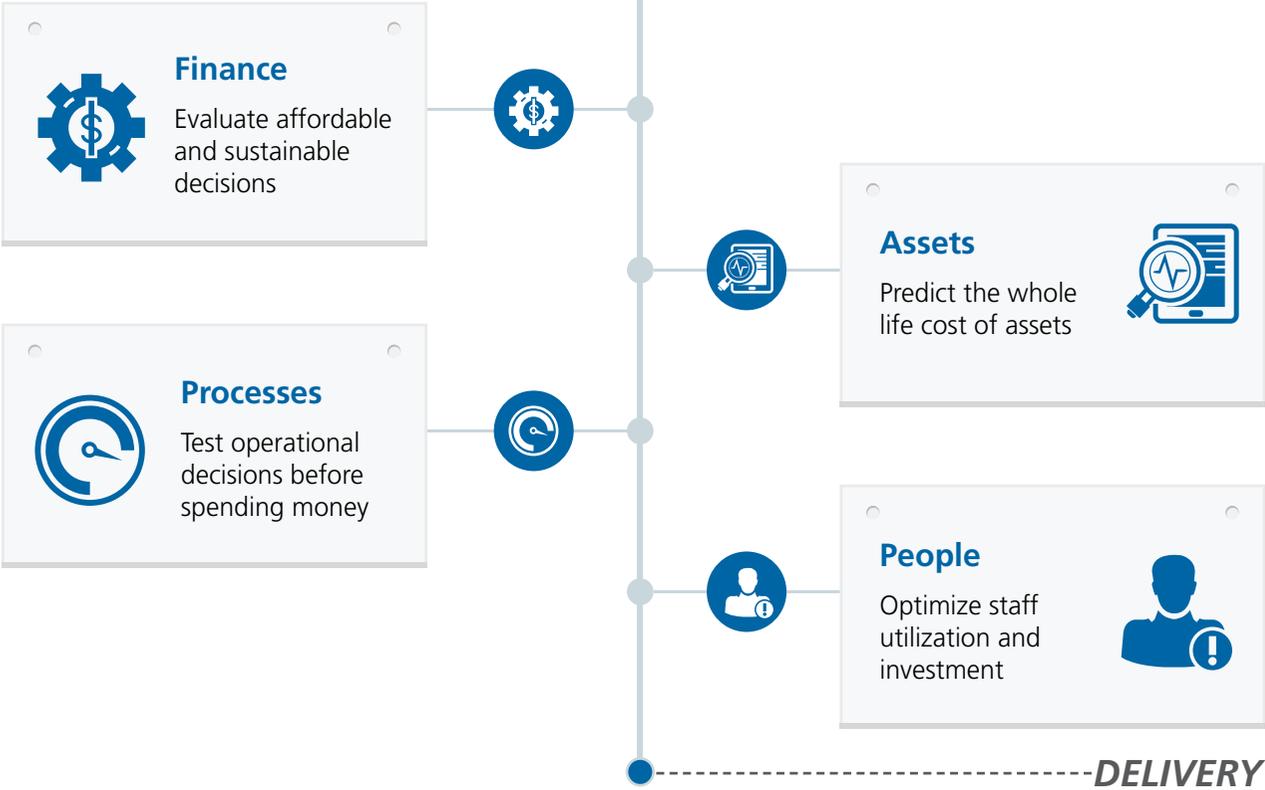
There are complex interactions between decisions and outcomes that are not understood by offline data interrogation using traditional spreadsheets and databases.

We make your decisions go further because EDA[®] explores the data relationships that individuals cannot; this means doing more with your money and avoiding negative consequences such as increased costs in the future, unfavourable financial risk and worsening service levels.



EDA[®] connects your business to improve decision efficiency

STRATEGY-----





Finance

Our clients can consider the affordability of their asset investment decisions in terms of financial performance indicators such as liquidity measures, profitability indicators and debt ratios. This important strategic tool provides a rapid, scenario rich and error free solution which reduces the costs and time to produce financeability tests for investment options; something demanded in today's world with stricter controls by regulators and authorities on the security of supply.



Assets

The ability to predict the whole life cost of assets enables companies to avoid the mistakes of short term decisions such as 'cheapest is best', or 'oldest out first' which ultimately cost more and penalise the customer. Asset investment planning has matured within the regulatory environment where the need to justify prices by a need to demonstrate the 'best value for money' for investment choices is a fundamental requirement to improve the customer deal. This improves the reputation of our clients with all its stakeholders generating better regulatory settlements and rate cases.



Processes

Around long term capital programmes of work, there may be opportunities to do things more effectively today – meet regulatory compliance through better operating performance of assets, reduce costs of energy consumption, select the right equipment, provide early fault detection. These are just some examples – the list may be endless, so taking a structured approach to an analytics framework, operational analytics explores the options available across your infrastructure and allows you to test the result before spending money on site and without knowledge of the likely outcome.



Operations

People are critical assets within an organisation - people need continual investment resulting in positive impacts on your business. One of the ways in which analytics is improving business performance is by optimising staff utilization by directing deployment and investing in skills. This is resulting in more effective use of staff to improve productivity.

Enterprise Decision Analytics® solves common problems across sectors

SEAMS has a proven track record in delivering efficiency to large infrastructure organisations across utilities, energy generation, transport and the public sector.

EDA® is applicable to any large-scale asset base because all industries face common problems when dealing with large-scale, high value, high volume decisions.

There is a need to find new ways of achieving efficiency when there is minimal room for price adjustments, the supply chain is stretched, and assets are at full capacity or deteriorating.



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Here's what our clients say about Enterprise Decision Analytics®

Utility | Severn Trent Water

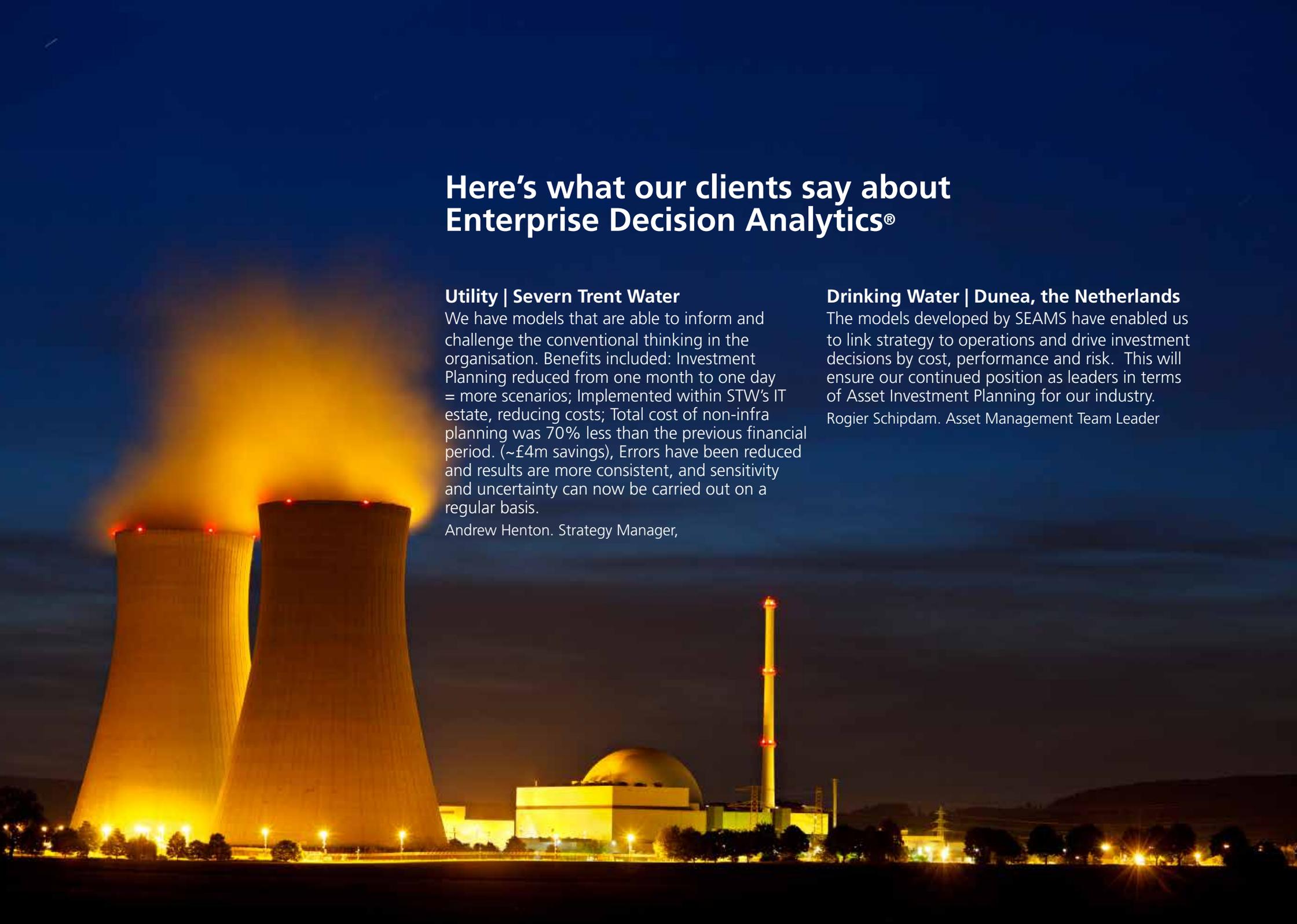
We have models that are able to inform and challenge the conventional thinking in the organisation. Benefits included: Investment Planning reduced from one month to one day = more scenarios; Implemented within STW's IT estate, reducing costs; Total cost of non-infra planning was 70% less than the previous financial period. (~£4m savings), Errors have been reduced and results are more consistent, and sensitivity and uncertainty can now be carried out on a regular basis.

Andrew Henton. Strategy Manager,

Drinking Water | Dunea, the Netherlands

The models developed by SEAMS have enabled us to link strategy to operations and drive investment decisions by cost, performance and risk. This will ensure our continued position as leaders in terms of Asset Investment Planning for our industry.

Rogier Schipdam. Asset Management Team Leader



Energy | Northern Gas Networks

We recognised that introducing structured data analytics had the potential to add real value to our business, helping us to work more efficiently and deliver significant benefits to our customers and stakeholders. The team at SEAMS helped us carry out a valuable exercise to scope out the extent of the opportunity and have supported us with the development of a roadmap and a robust strategy for embedding structured data analytics into the organisation.

Tony Pearson. Head of Planning and Data Analysis

Drinking Water | Bristol Water

SEAMS Cross Asset Optimiser module has allowed us to optimise investment across our asset base, helping us to maximise the customer benefits we could obtain for a projected level of savings. This allowed us to deliver the desired customer outcomes at a £10 Million lower cost.

Mike King. Regulatory Director

Public Sector | London Borough of Bromley

SEAMS' analysis showed that, by investing £7.5 million, LBB would realise cost savings equivalent to approximately £1 million per annum. Following a pay-back period of 7.5 years, it is projected that LBB will save a total of £17.5 million over the desired life of the assets.

Garry Warner. Head of Highways

Rail | Transport for London

EDA has provided LU with a secure and stable platform from which to calculate the expected cost, risk and performance profiles associated with the ownership of our track assets. This is invaluable when producing the 10 year Asset Management Plan along with optioneering during the Business Planning round. The ease of adding new lookup tables for accumulated tonnage forecasts, renewals costs and measured life has helped us to use our time more efficiently and is central to our role as Asset Managers.

Elizabeth Lasserre. Track Asset Manager

Energy | Electricity North West Limited

We need to deliver efficient asset investment plans to ensure we get the best value from our assets, which in turn keeps our costs lower for customers. At the same time we need to minimise risk. One of our key values is innovation, which includes how we approach problems to find new solutions. This project is an innovative solution to help us in our long-term strategic decision making.

Robert Wells. Electricity North West's Asset Management Modelling Manager

A selection of our valued clients



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How else might Enterprise Decision Analytics® shape your Business Outcome?

Find out more about how SEAMS can impact your
infrastructure by continuing your analytics journey at:

seamsltd.com

www.seamsltd.com

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