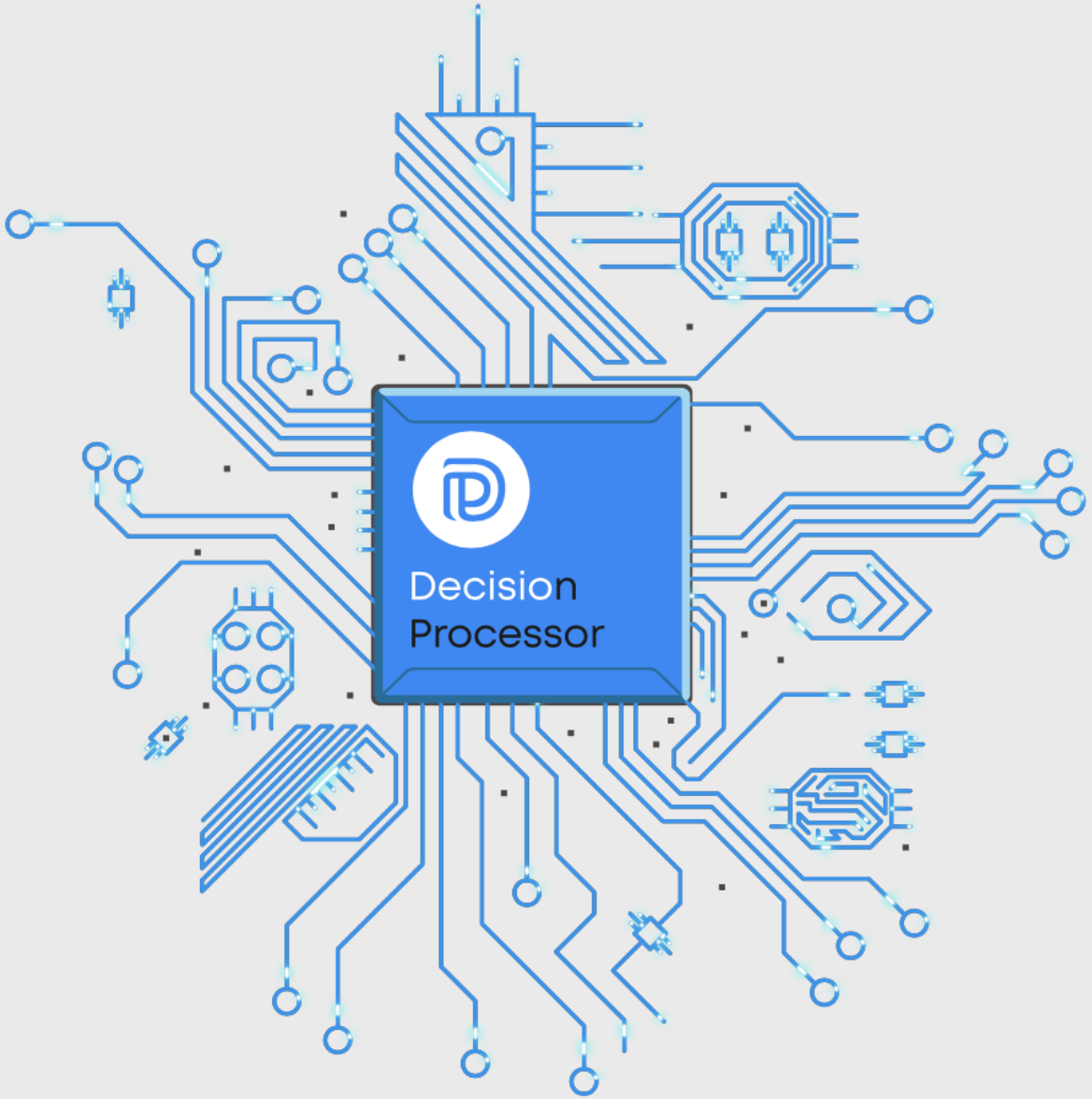
DECISIO
Decision Intelligence Platform

Introduction to Decisio™

We help our customers navigate a profitable transition to resilient, low-carbon business models using proven AI-assisted decision-making

Our Decisio™ decision processor helps build the most complete understanding of our customer's business and the broader ecosystem in which they operate.

This enables Decisio™ to help make and coordinate strategic, tactical, and operational decisions across the customer's organisation (finance, operations, engineering etc) to more reliably achieve their defined business objectives and to adapt effectively to connected changes and risks.

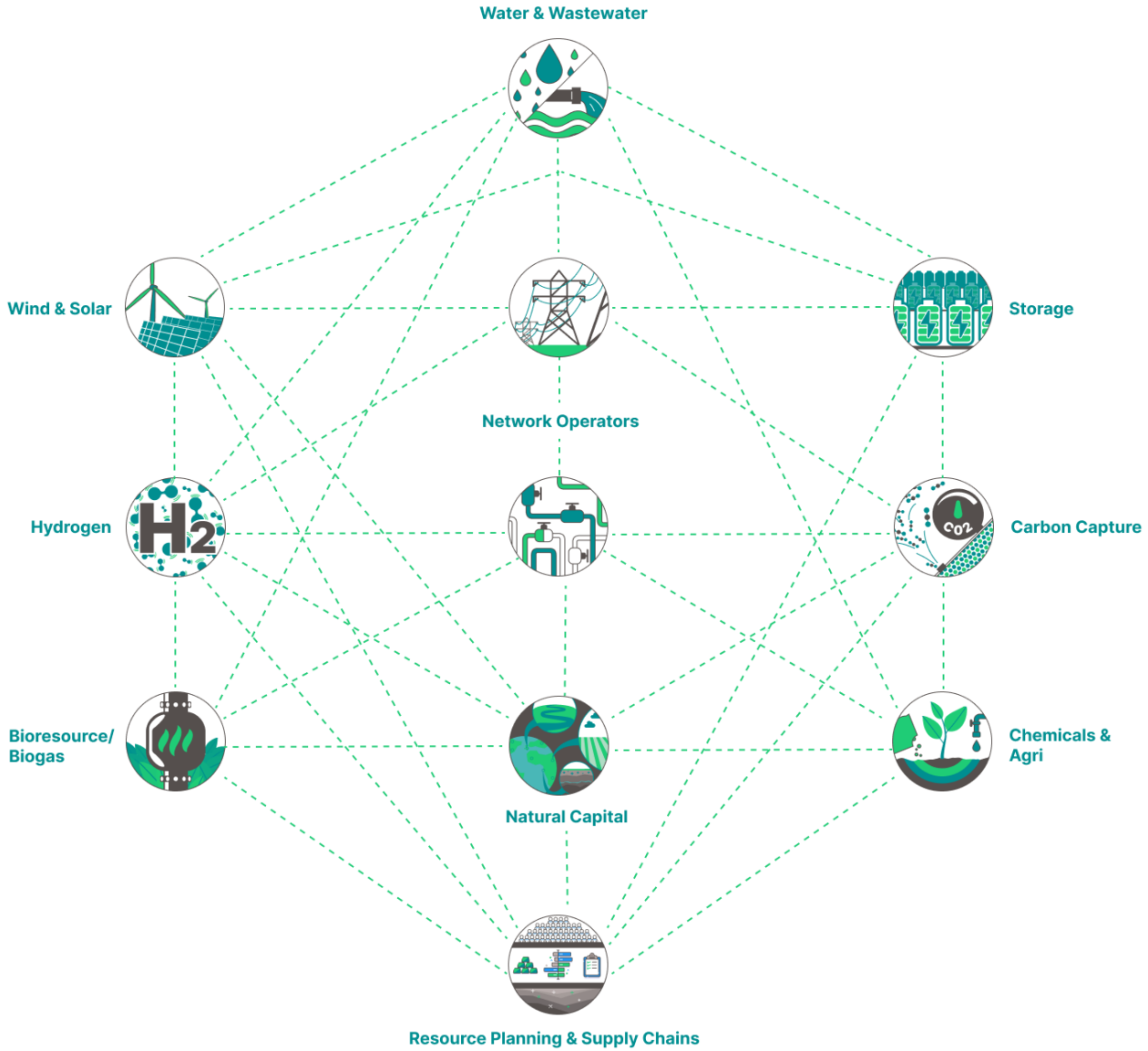


Our target ecosystems

The world's expectations of cleaner energy, cleaner water, and more sustainable materials & products is driving the next industrial revolution, necessitating new value chains, tools & technologies.

Given the criticality of accurate, timely and connected decisions in this dynamic environment, a step-change in decision-making capability is required – one that leverages AI while ensuring suitable controls and governance.

Decisio™ provides the decision intelligence platform and application suite to serve the connected value chains and stakeholders that will determine the long-term sustainability of the broader economy.

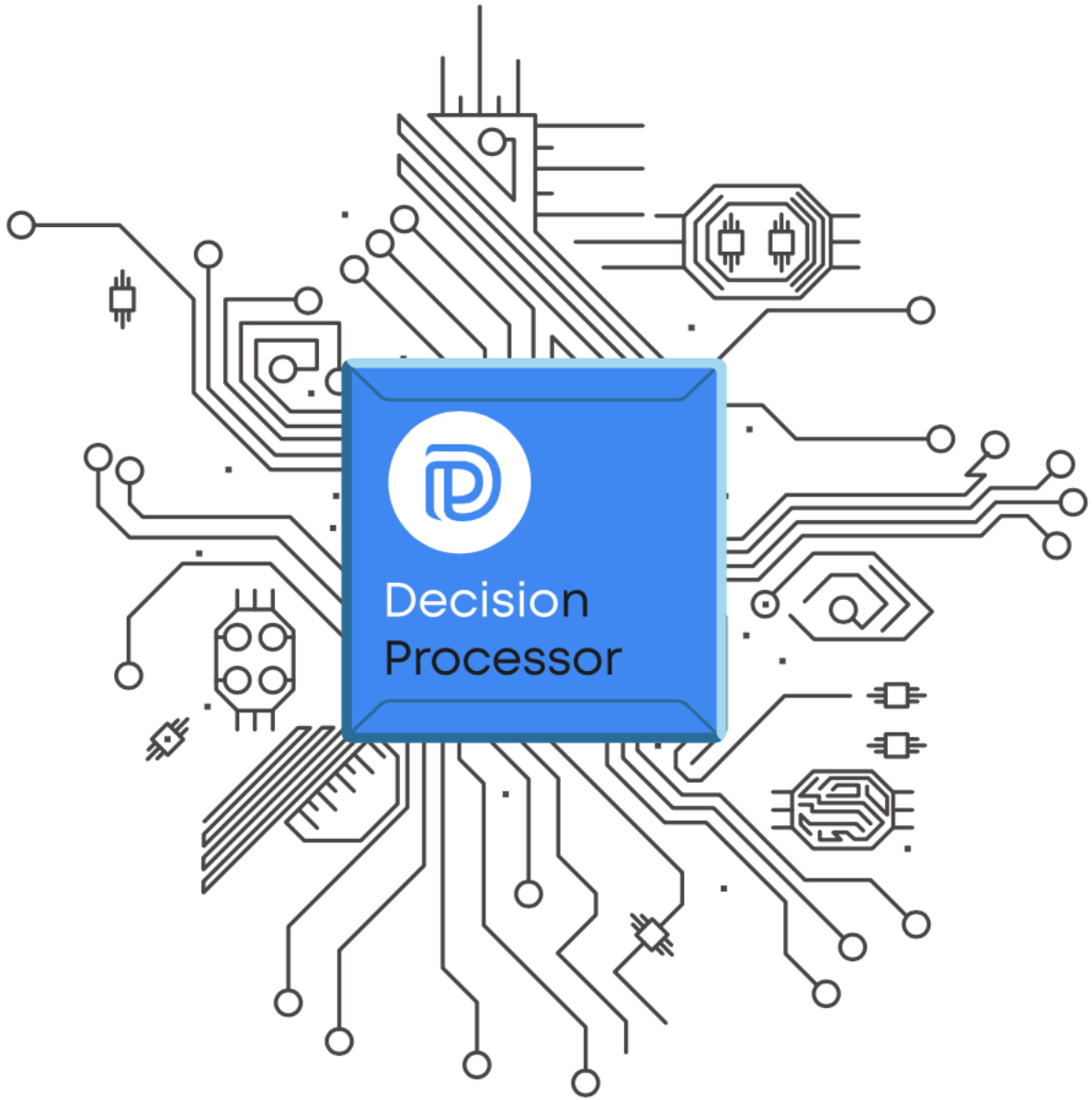


We are pioneers in AI-assisted sustainability decision-making

The complexity and increasing speed of business has left decision-makers across organisations inadequately equipped to consistently make the right decisions at the right time. The challenges of sustainability, decarbonisation and energy transition have amplified this challenge.

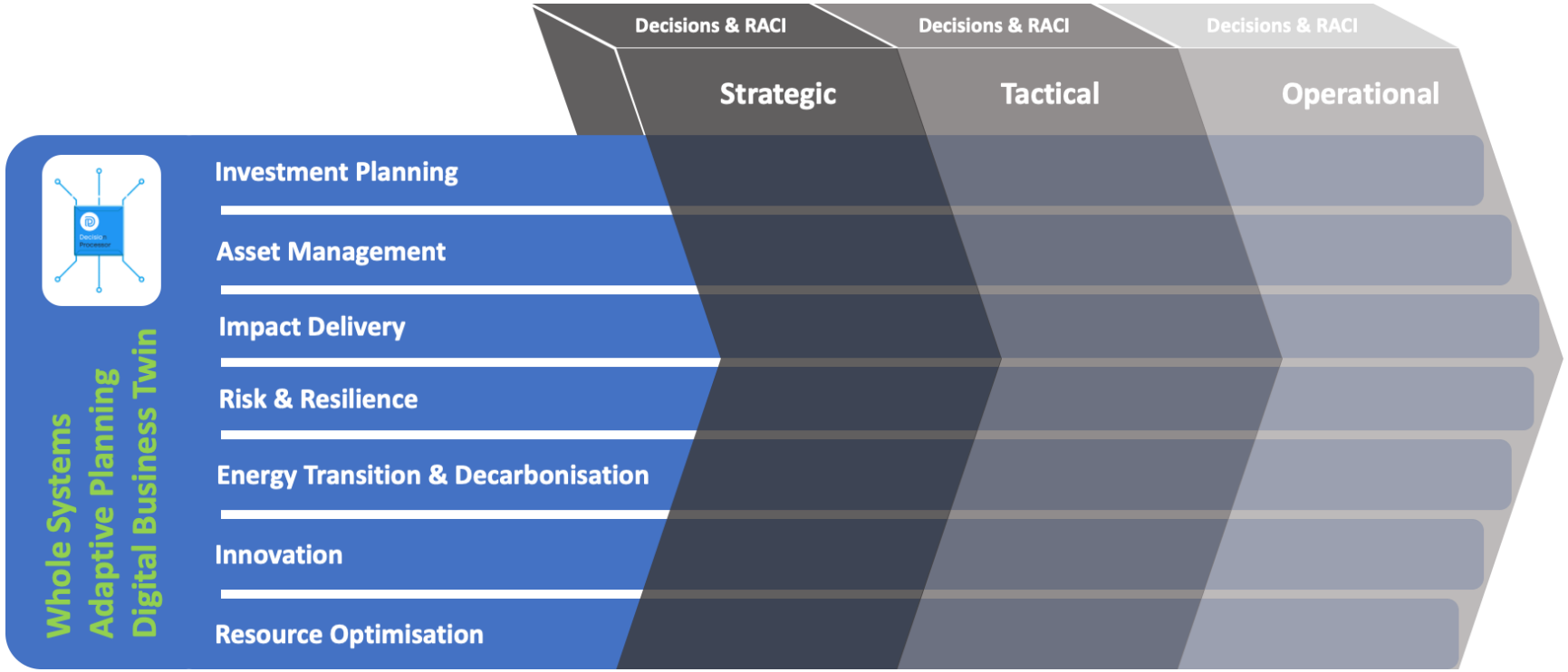
We developed Decisio™ to harness AI and cloud technology to support our customers in making better, faster and more coordinated business decisions, factoring in the specific challenges of sustainability, decarbonisation and energy transition.

To do this Decisio™ encapsulates a range of technologies, analytics, methodologies and decision science principles into a ‘decision processor’ that is controlled through a single user interface and that has the security and governance built-in to support the smooth adoption of AI to boost human decision-making.



Helping our customers make better, faster and more connected decisions

Decisio™ helps deliver optimal connected decision-making across strategic, tactical and operational time horizons, and across business functions from finance to engineering. Our decision framework and integrated responsibility assignment matrix (RACI) brings transparency to decision-making and adjustments over time and allows for the practical application of advanced analytics and AI with the required controls and governance.



What's inside Decisio™

Decisio™ encapsulates the most advanced 'whole systems' and 'adaptive' thinking, composite AI, data management & governance, analytics technologies, and methodologies, and provides a single interface from which decision-makers across the organisation can define and manage the 'decisions to be made' based on their individual roles and requirements.

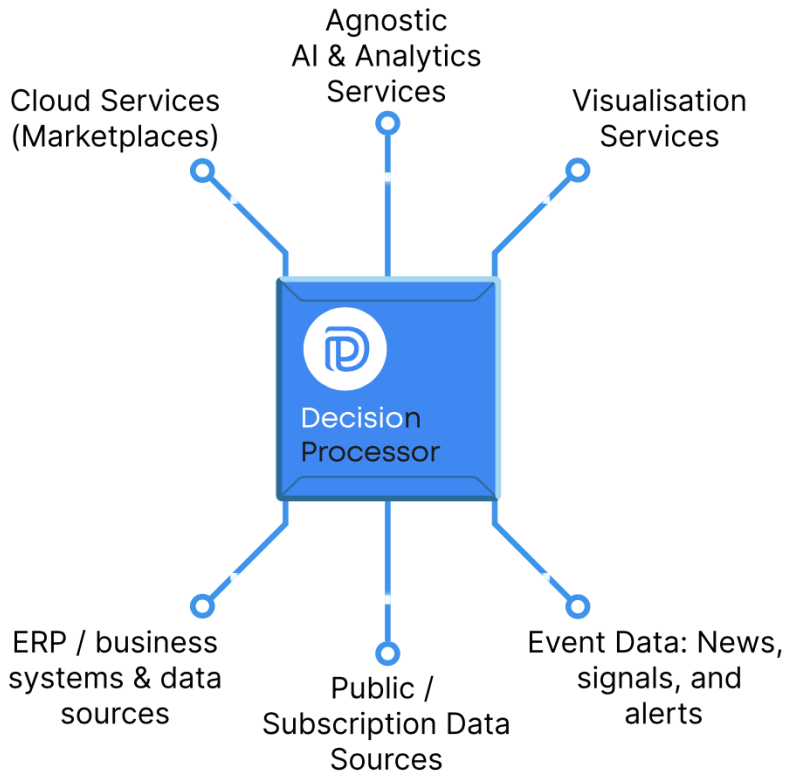
Decisio™ enables decision-makers to quickly hone in on the most viable decision pathways, compare and stress test these, and record the adopted decision, effectively creating a 'decisions system of record'.

The result: transparent, optimised and controlled decision-making at the heart of our customer's business.

What does Decisio™ connect to

Decisio™ is cloud-native (Microsoft Azure) and can therefore seamlessly leverage a range of Cloud and AI services, providing the highest levels of scalability, performance, reusability, resilience and security. Similarly, the ability to access cloud-based visualisation services ensures the richest and cleanest user experience when assessing decision recommendations.

Decisio™ connects simply to our customer's internal systems & data sources, as well as external publicly-available or subscription data sets, to build the most complete understanding of their business and the broader ecosystem in which they operate. The addition of event data allows the activation of automatic sensing and course-correction capabilities.



Decisio™ Conceptual Architecture

Leveraging Microsoft technology & AI suite

The Decisio™ decision intelligence platform has been built natively on Microsoft Azure Cloud in order to take advantage of the scalability, security and resilience of Azure, as well as the broader Microsoft software ecosystem including Office applications, PowerBI, Teams and Dynamics.

Composable architecture:

The Decisio™ architecture ensures efficient application development through composability - leveraging readily available tools, technologies and Cloud services rather than developing competing components of our own. Our IP is therefore in the platform itself and how it combines and utilises its own, Microsoft and third-party technologies to support critical business decision-making. Our suite of applications is focused on addressing critical strategic, tactical and operational decisions faced by our customers.

Data Management & Data-level Security

Decisio™ provides a comprehensive data model for each value chain, allowing for the efficient implementation of data pipelines. Role-based data-level security ensures that users are only able to view and maintain the data they have rights to.

Some of our customer success stories

We are adding new Decisio™ customers and increasing the application footprint of Decisio™ at existing customers supported by a range of decision intelligence use cases covering strategic, tactical and operational decision-making.

nationalgrid

Additional £110m of infrastructure investment justified & secured from regulator to manage low-probability, high impact risk of failure of critical part of transmission network.

national gas

Mass scenario analysis capability amplified from 10's of scenarios per year to 10,000+, resulting in a step-change in network development insights and optionality for Hydrogen transition.

Consumers Energy Count on Us®

Applied advanced system risk and resilience analytics to prescribe the optimal capital investments and operating models to mitigate vulnerability low probability and high impact risk.

Northern Gas Networks

Gas to the Future: a stakeholder engagement tool providing dynamic exploration of a wide range of future gas network scenarios against KPIs including cost, greenhouse gas emissions and security of supply.

UKRI UK Research and Innovation

UK Research and Innovation agency funded project to determine the optimal pathway to achieve Net Zero for the UK's largest industrial cluster including significant use of Hydrogen

Northern Gas Networks

Combined network modelling and AI optimisation of a 15-year gas mains replacement programme to reduce cost by decreasing the % of open cut replacement from 7% to 2% while also ensuring the network capacity is hydrogen ready.

Sydney WATER

An integrated water and wastewater system model delivering a 26% reduction of Sydney Water's core 30-year investment plan (A$17bn reduction) towards ensuring affordable water for greater Sydney area.

Southern Water

Mass scenario analysis to challenge 'as is' strategy, testing sensitivity to assumptions resulting in revised PR24 investment strategy and greater assurance to shareholders

United Utilities

Mass scenario analysis and automated investment options generation to identify optimal roadmap to increase system resilience and reduce unit cost to serve.

YorkshireWater

4% reduction in cost to serve achieved in parallel with increase in network resilience and therefore reduction of risk.

NWG living water

System risk and resilience tool to identify single points of failure and critical assets to protect against simultaneous asset failure.

love every drop anglianwater

Optimise network design to drive improvements in system resilience (security of supply) and reduce the unit cost to serve.

SA Water

Avoided stranded assets resulting from legacy planning approach, resulting in A$2bn cost avoidance.

SEVERN TRENT

Improved leakage reduction to the extent that £9m of regulatory penalties were avoided..

NWG living water

Secured significant additional investment approval from regulator to reduce leakage sustainability

South West Water

Quantified detailed unit cost to serve to inform optimal targeting of leakage reduction.

Scottish Water Always serving Scotland

14-fold increase in the identified risk by taking a systems approach, resulting in more effective risk management and mitigation.

love every drop anglianwater

AI driven decision support to develop adaptive decarbonisation pathway for wastewater that manages the uncertainty around process emissions

65% of the UK population benefiting from Decisio™ bioresource solutions (sewage sludge to energy management)

Scottish Water

Scottish Bioresource Strategy demonstrated how 1.2 million tons of CO2 emissions can be avoided through improved planning and operations. Scottish Water are now able to quality the system benefit of new technology for Net Zero

love every drop anglianwater

Identified opportunities for market trading and achieved 8% increase in low carbon energy generation (bioresources to bio-energy).

Southern Water

Mass scenario analysis to challenge 'as is' strategy, testing sensitivity to assumptions resulting in revised adaptive investment strategy with core and alternative pathways to avoid risk of stranded assets.

Ofwat

National economic regulator Ofwat and 5 of largest utilities using Decisio™ solution to understand and shape the UK Bioresource market

SEVERN TRENT

Mass Scenario Analysis and Constraint-based optimisation to inform adoption of new technology and product formulation that balanced commercial risk and achieving net negative emissions.

love every drop anglianwater

Achieved £2m a year OpEx reduction and highest ever (90%) asset utilisation

Thames Water

Operational model returned OPEX savings in excess of £7M/year through savings across the value chain

South West Water

Optimisation of operations identified a 5% reduction in OPEX without need for capital interventions