

Predictor & Work Planner Asset Investment Planning Service Definition

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Crown Commercial Services – G-Cloud 15

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Brightly Software

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Overview

Brightly Software Limited (Brightly), a Siemens company, provides asset management and infrastructure intelligence software for public sector and private asset owners. Supported by Siemens' engineering and operational technology expertise, Brightly helps organisations improve asset performance, manage risk, and reduce whole-life costs while maintaining safe, resilient and sustainable services.

With over 25 years' experience, Brightly supports asset-intensive organisations including local authorities, national infrastructure providers, and other public sector bodies. Brightly's approach reflects the shift from traditional asset registers towards integrated, data-driven asset management, where asset information supports both day-to-day operations and longer-term strategic planning.

Brightly delivers a modern, scalable asset management platform that supports organisations at different stages of asset management maturity. Our software enables the centralisation of asset data to create a single source of truth, supporting consistent processes, and provides a foundation for informed decision-making across operational, tactical and strategic functions.

As part of Siemens, Brightly equips organisations to address current operational demands while preparing for future infrastructure challenges. The platform is designed to evolve as organisational needs change, supporting improved efficiency, transparency, and long-term service resilience.

Predictor

Brightly Predictor is a strategic asset modelling and decision support solution that enables organisations to assess the long-term impact of funding and investment decisions on asset condition, risk, and service performance. It supports analysis at both individual asset and portfolio level, providing evidence-based insight to inform sustainable, defensible infrastructure investment decisions.

Predictor is asset and data agnostic and has been deployed for over 10 years across the UK, Australia, and internationally, supporting hundreds of organisations and more than 150 asset types. It is designed to support long-term infrastructure planning and investment, typically over periods of five years or more.

The solution includes an optimised decision-support framework that enables organisations to model and compare alternative scenarios, including:

- The cost of delivering defined service levels over time
- The impact of increased or reduced funding on asset performance and risk



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- The outcomes of alternative maintenance and treatment strategies
- Year-by-year capital works programmes to support budget planning
- Whole-life cost scenarios incorporating capital, operational, maintenance, and risk considerations
- Cross asset trade-off to determine the optimum budget distribution across the entire asset portfolio

By providing consistent, transparent modelling of future outcomes, Brightly Predictor supports improved investment prioritisation, risk management, and long-term asset sustainability.

Key Outcomes

Brightly supports a wide range of infrastructure asset classes through a highly experienced asset management practice, underpinned by robust data, proven methodologies, and industry-leading technology. Supported asset classes include:

- Roads
- Road Furniture
- Footways
- Structures
- Open Space
- Stormwater
- Water and Sewerage
- Heritage Assets
- Land
- Buildings and Facilities
- Landfill and Waste
- Airports
- Ports
- Rail

The outcomes achieved when using Predictor include:

Organisations using Predictor gain the ability to clearly demonstrate maturity and confidence in long-term asset investment planning. This includes a strong evidence base for decision-making and a clear understanding of how alternative funding and investment strategies affect performance, risk, and cost over time.



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Key outcomes include:

- Demonstrated capability in long-term asset management planning, showing the impact of alternative investment strategies across critical performance, risk, and financial metrics.
- A robust foundation for sustainably managing infrastructure portfolios, ensuring assets continue to meet service expectations into the future.
- A transparent and defensible investment framework that clearly illustrates trade-offs between service levels, funding strategies, and risk exposure.

How Predictor supports asset management objectives

Predictor enables organisations to move from reactive planning to proactive, data-driven investment decision-making by:

- Developing Asset Life Cycle Profiles (ALPs) that accurately simulate the expected lifecycle behaviour of individual assets.
- Providing a central repository for intervention thresholds, renewal and maintenance treatments, and asset criticality, using a structured multi-criteria approach.
- Establishing asset-specific decision frameworks that define when capital and maintenance interventions should occur, aligned to organisational policies, service level targets, risk tolerance, and asset criticality.
- Allowing the creation and comparison of alternative models to test, validate, and refine Asset Life Cycle Profiles and decision frameworks.

Advanced scenario modelling and Investment Insight

Predictor supports the development of a comprehensive suite of simulated investment strategies, enabling organisations to:

- Identify the lowest whole-of-life capital and maintenance spend required to achieve defined long-term service level targets whatever the asset class.
- Forecast portfolio-level funding requirements under unconstrained scenarios using asset criticality-based decision modelling.
- Explore a wide range of what-if scenarios, including changes in funding levels, year-to-year spending variations, constrained budgets, and budget distributions
- Understand the impact of renewal investment on future maintenance requirements, ensuring total expenditure is optimised and Asset Management Plans remain robust.
- Develop granular treatment strategies that support credible long-term funding forecasts.
- Produce clear work programmes showing planned capital and major maintenance activities by asset.

- Visualise the future condition and performance of individual assets under different financial strategies.
- Assess future asset health outcomes using clearly defined, measurable metrics.
- Quantify residual risk at both asset and portfolio levels for different funding scenarios.

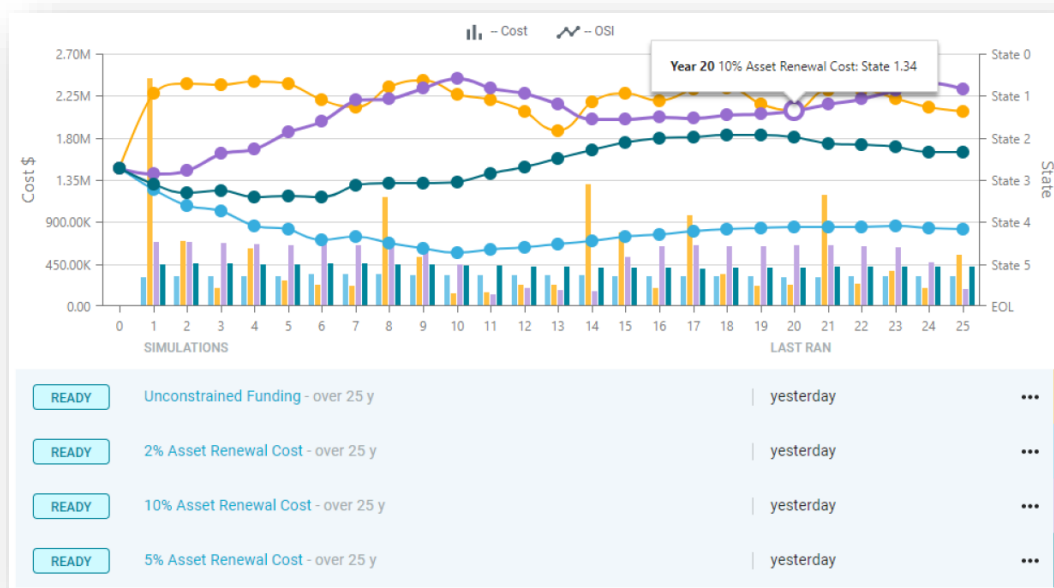
Continuous Improvement framework

Predictor also provides a structured framework for continuous improvement in strategic asset management, enabling organisations to:

- Identify opportunities to improve data quality, structure, and integrity over time.
- Minimise whole-of-life costs by refining ALPs based on factors such as utilisation, environment, and asset context.
- Develop and maintain a clear improvement roadmap, supporting the progression to more mature and sophisticated asset investment models.

Stakeholder-ready outputs

The outputs generated through Predictor are designed to clearly communicate complex investment decisions to stakeholders, decision-makers, and wider audiences who may be non-technical in nature. Asset lifecycle scenario modelling visually demonstrates the impact of alternative investment strategies across six key metrics, empowering leaders to make informed, transparent, and defensible decisions about infrastructure investment using Brightly's Asset Investment Planning solution.



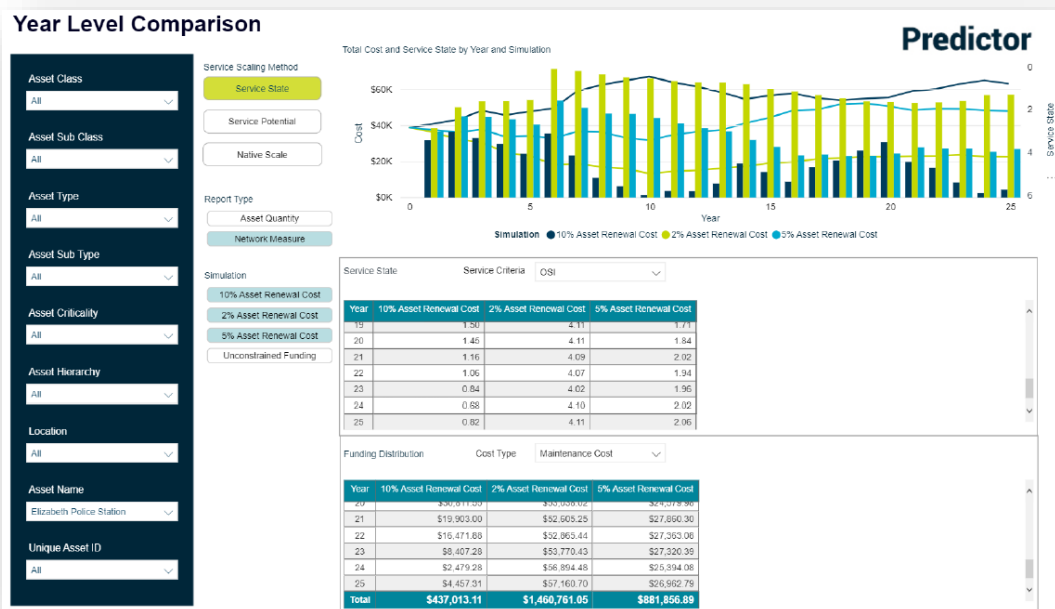
An interactive dashboard allowing you to compare modelling simulations on-the-fly



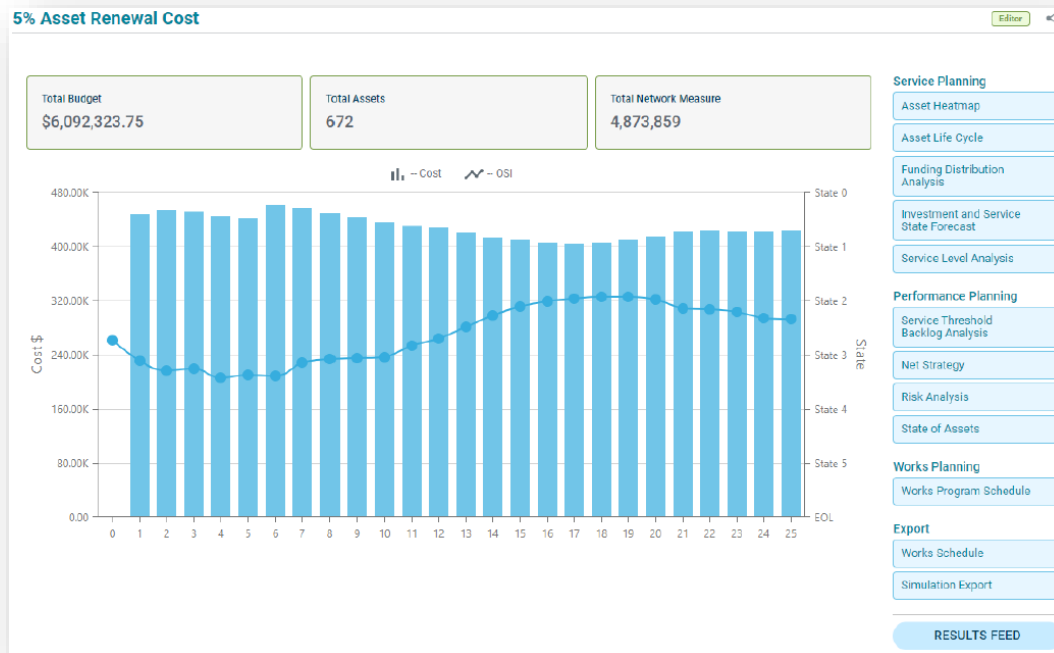
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The Service Level Comparison Report compares asset condition distribution for each simulation over the modelling period



The Year Level Comparison Report compares the average condition and cost breakdown for each simulation over the modelling period



Detailed dashboards and reports are available for each modelling simulation

Year

0

25

01 - \$25M (Current)

Service State by Year

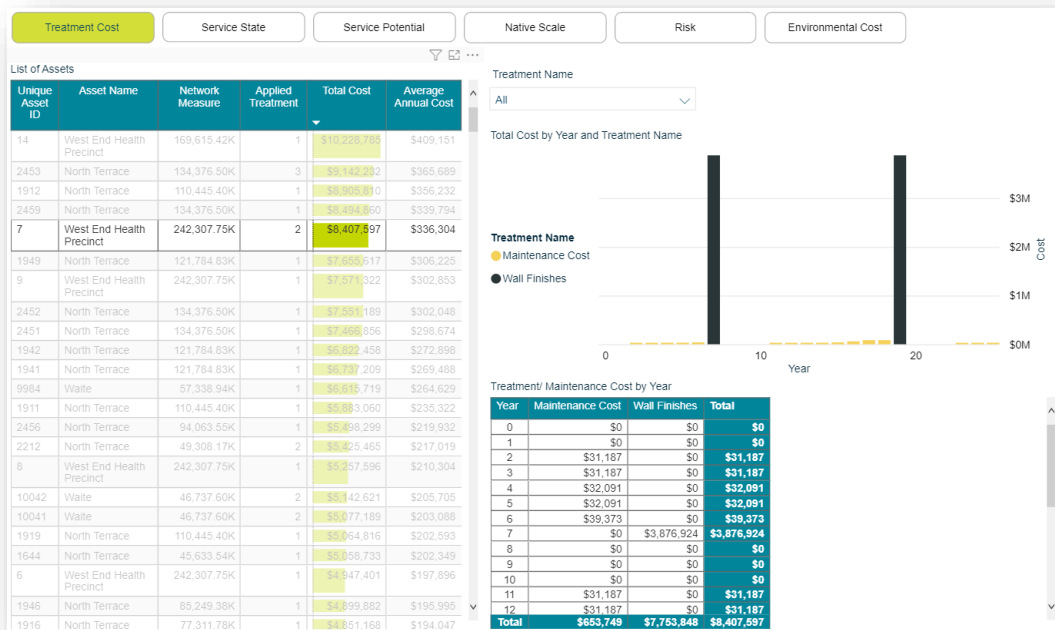
Service Criteria

Condition

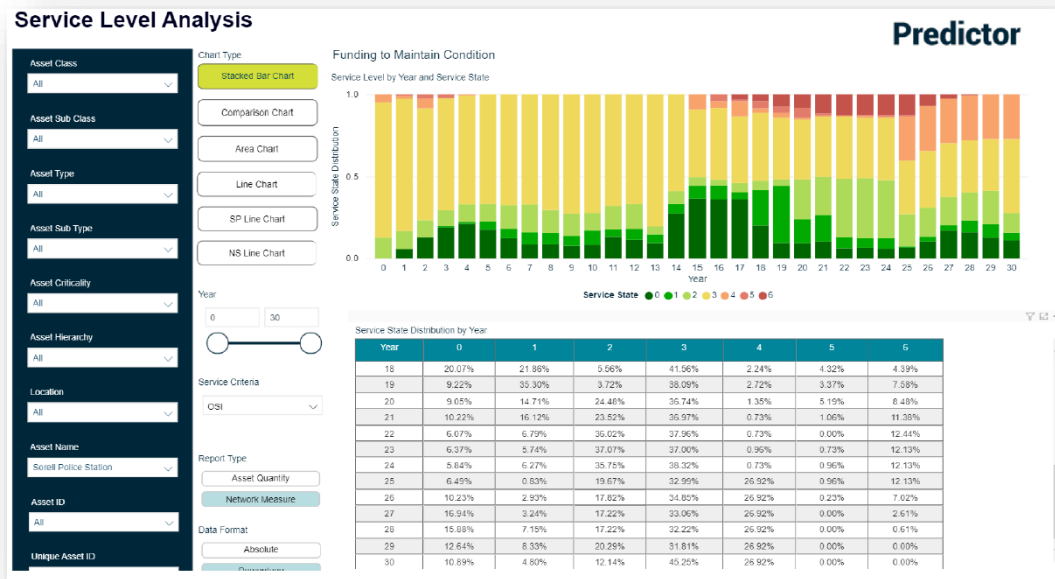
OSI

Asset Name	Unique Asset ID	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
North Terrace	1404 - 2	3.00	3.00	3.00	3.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00
	1494 - 2	3.00	3.00	3.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00
	1704 - 2	3.00	3.00	3.00	3.00	3.00	4.00	4.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
	1914 - 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00
	1944 - 2	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00
Roseworthy	1974 - 2	3.00	3.00	3.00	3.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00
	2094 - 2	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	2184 - 2	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	2214 - 2	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	2454 - 2	2.00	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Waite	4284 - 2	2.00	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	7434 - 2	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00
	7644 - 2	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00
	10044 - 2	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00
	10074 - 2	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
West End Health Precinct	9144 - 2	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00
	9204 - 2	3.00	3.00	3.00	3.00	3.00	4.00	4.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	8004 - 2	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00

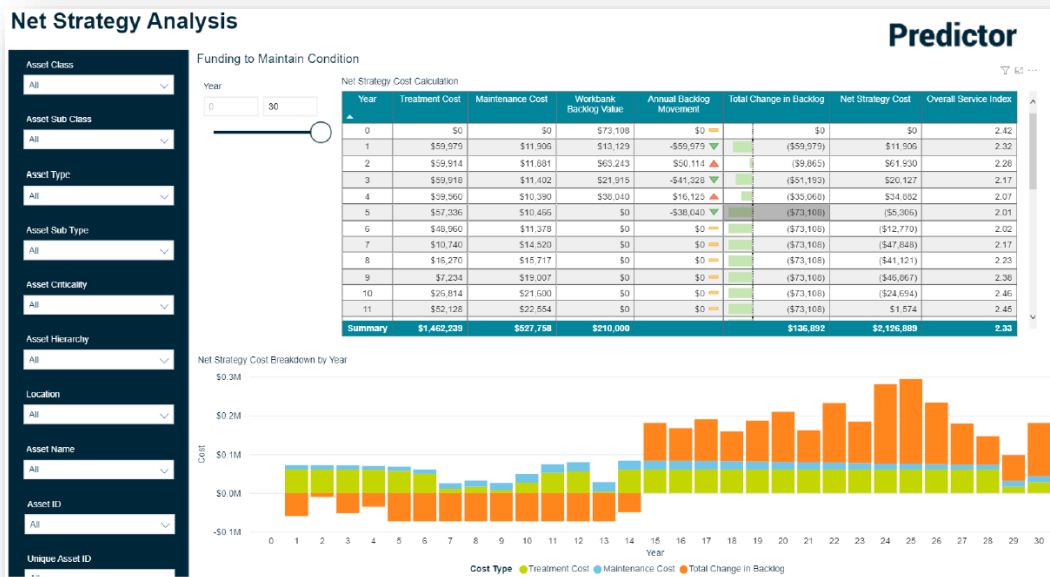
The Asset Heatmap Report illustrates the behaviour of individual assets for the selected simulation over the modelling period



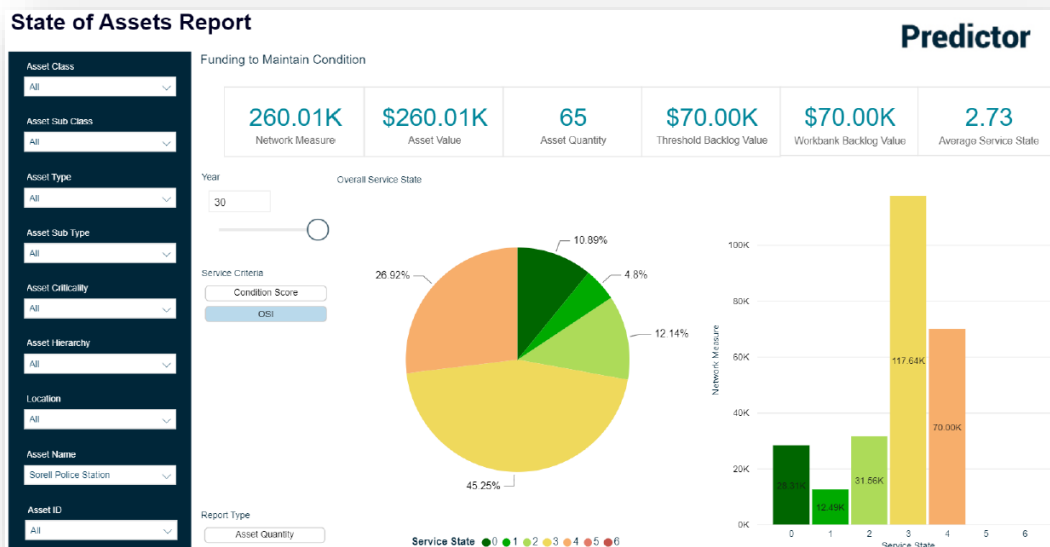
The Asset Lifecycle Report illustrates the lifecycle path and lifecycle costs of individual assets for the selected simulation over the modelling period



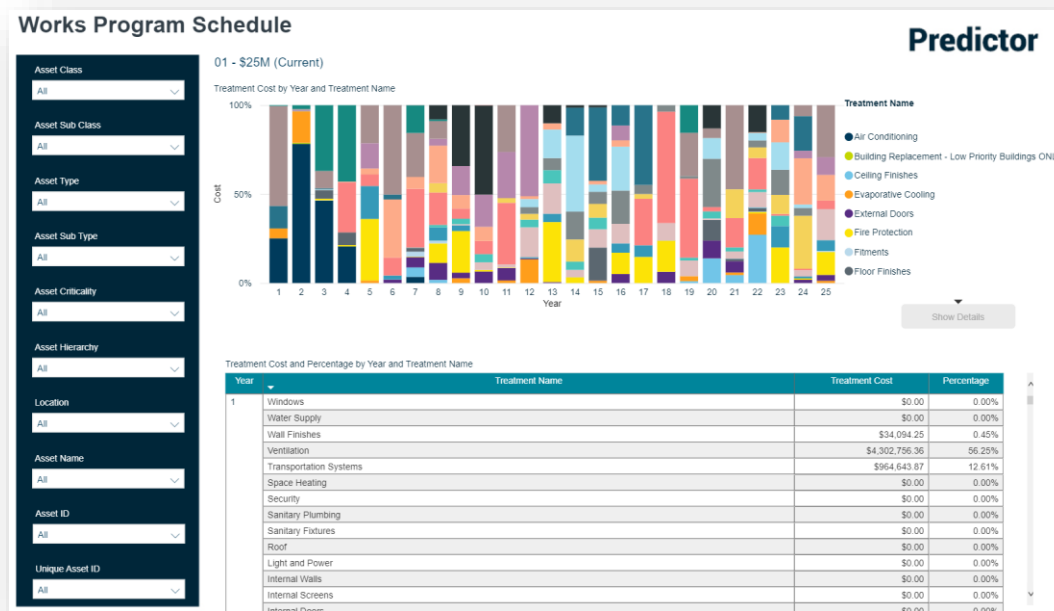
The Service Level Analysis Report displays the asset condition distribution for the selected simulation over the modelling period



The Net Strategy Analysis Report shows the impact the selected simulation will have on the backlog value over the modelling period



The State of Assets Report displays the condition distribution, backlog value, and average condition across all assets over the modelling period



The Works Program Schedule Report presents the capital works program generated for the selected simulation

Integration Capability

Predictor can import data from common file types such as CSV files, Excel Workbooks, and Microsoft SQL Server. Predictor can also integrate with Esri ArcGIS online for the consumption of shapefiles.

Predictor generates a data feed for simulation results that allows external application such as ArcGIS Online and Power BI to consume the results.

The Predictor APIs and simulation Result feed are all server-side integrations that can be fully automated. The APIs are commonly used for asset register / IoT data uploads and running predictive simulations. The Result feeds make it easy to consume the predictive datasets in spatial, BI and CMMS/EAM software applications.

Work Planner

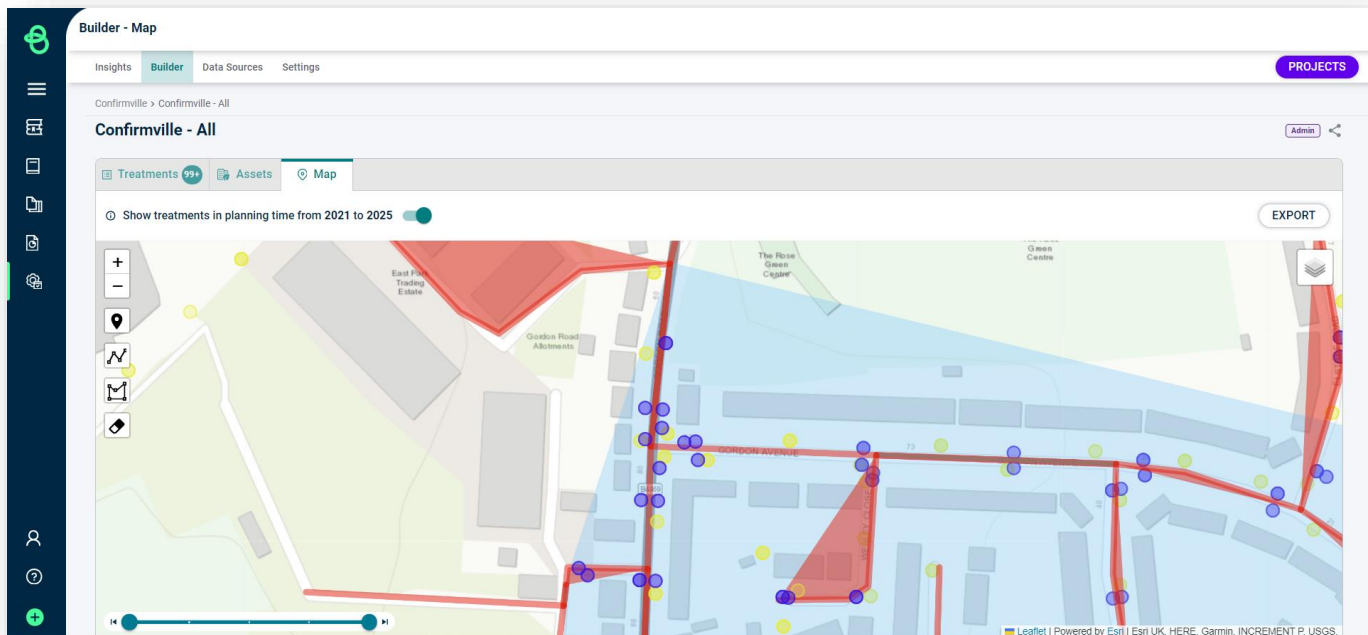
Organisations spend a significant amount of time and effort developing multi-year capital work plans. Project planners need a robust tool that works with GIS to enable them to develop projects across predicted years of treatment and multiple asset types, as well as aligning costs with funding sources and numerous phases systematically and efficiently. Work Planner is a new flexible offering by Brightly that provides planners with a modern, interactive tool to improve both visibility and collaboration across multiple business areas.



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Overview

Work Planner is a web application that enables project planners to select assets and treatments from Predictor's optimised long-term plans on a map enabled user interface, group them together using intuitive selection tools, and create projects to be assessed and taken forward. This intuitive project building tool helps planners refine modelling outcomes and apply logic and local knowledge to plan infrastructure projects across multiple asset types within street and utility corridors, such as water, pavement, stormwater and sewer. Work Planner enables planners to refine their modelling outcomes across facilities assets as well, covering both infrastructure inside and outside of a building.



Use the power of Work Planner to visualise capital works candidates recommended by Predictor

Key Outcomes

Streamline project planning – Plan projects efficiently and transparently, taking optimised long-term outputs and developing short-term capital investment plans (CIP) that balance treatment timings, asset classes and organisational priorities.

Align stakeholders – Communicate with stakeholders, justify projects, and achieve alignment across the organisation using interactive data visualisation.



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The power of GIS – Allow planners with minimal GIS skill to take advantage of the richness of mapping tools to build projects and create powerful visualisations to share with internal and external stakeholders.

A clearer, organised view – See a detailed view of every project and phase, allowing for real-time collaboration between planning stakeholders for maximum efficiency and integration.

Bring it all together – Bundle projects across multiple funding sources and multiple asset types with an integrated solution for developing multi-year investment plans.

Product Features

Connects to Predictor – Seamlessly connect to Predictor simulations and generate GIS, time series, data representing assets and treatments. Export project plans back to Predictor and run simulations to determine the impact on long-term financial strategies and portfolio level asset condition.

Interactive Project Builder – Use local knowledge and experience to interactively bundle assets and treatments from Predictor into projects and phases, within a rich GIS environment. Override Predictor treatments and costs, move treatments to different years – based on local conditions, balance project funding across multiple funding sources, and more.

Intuitive Project Insights – Visualise projects and phases on a tile-based dashboard, drag and drop project cards to balance budgets, prioritise and sequence phases with real-time feedback across funding sources and plan years.

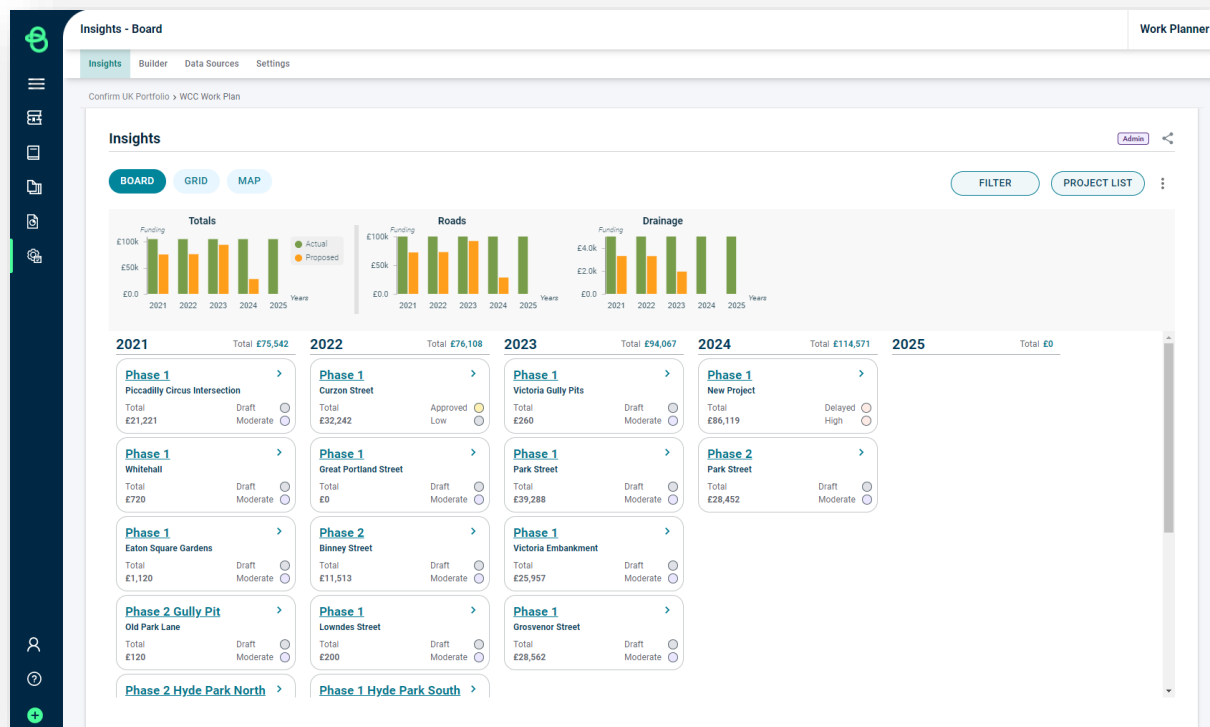
Grid View – Sort, filter and export information quickly to meet reporting and analytics needs across various business intelligence tools.

Configurable Settings – Set up the project workspace with flexible configuration options for funding sources, status and priority values, project fields and more.

Multi-User Support – Collaborate in project workspaces and see what others are doing in real time as project and GIS data are automatically updated.



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Use the Insights area to balance budgets and construct a high-level capital project schedule

Appendix

Implementation and Support Services

Brightly's software suite is based on leading industry standards and requirements that meet regulatory, statutory and internal needs. The standards include ISO55000 and International Infrastructure Management Manual (IIMM). Software development has focussed on the principles of functionality, usability and manageability for every end user, to provide advanced asset management resources. The Predictor & Work Planner solution aligns leading-edge technologies and software design to modern asset management standards and organisational objectives.

Our software suite is widely adopted due to its flexibility and scalability; the platform meets the needs of an organisation, independent of its size or industry. Rapid deployment and ongoing improvement enable an organisation's strategic asset management journey and provides a return on investment in the shortest time possible.

Our experienced and qualified Professional Services team have a diverse array of software, training and engineering backgrounds. We work with clients to implement their vision and business outcomes, working collaboratively across all relevant teams, and provide a seamless experience for clients whether they need one-off consultancy or a large-scale implementation.

Scope of Service

Predictor is the latest generation of asset lifecycle prediction modelling software.

- Predictor Desktop app – local Windows app installed by power users to connect data sources and configure the Predictor models.
- Predictor & Work Planner web app – the Predictor web app is where the predictive simulations are run. Work Planner web integrates directly into these published simulations to build deliverable project plans. Interactive reports created automatically and can be shared with stakeholders.

The Brightly applications and associated services are largely delivered in a Software as a Service (SaaS) model, all web components are accessible from the public Internet and provides access from anywhere.

Some key features of the service:

- High fault tolerance, it's actively monitored from a network, performance & security point of view with real time alerts in place.



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- Target 99.9% uptime 24x5 (Monday to Friday)
- Daily backup – 30 day retention – designed for disaster recovery only
- Connections to Predictor & Work Planner are only through HTTPS

Service Levels and Availability

Predictor utilises extremely scalable and robust AWS platform services to ensure high availability and scalability in all layers of the software.

Brightly provides system information and notifications via the status page:

<https://predictor.statuspage.io>

The status page provides an operational summary (including uptime) and provides notices of upcoming releases and any degraded performance / outage issues being experienced. In terms of unscheduled outages, the platform has been designed with a high degree of fault tolerance and is actively monitored from a network, performance & security point of view with real time alerts in place.

Brightly performs scheduled maintenance every two weeks and provides detailed release notes one week in advance of deployment, within the Knowledge Base and Status Page. The release notes provide a summary of the release Highlights, as well as a detailed breakdown of other smaller features / fixes included in the release.

Brightly targets 99.9% uptime 24x5 (Monday to Friday).

Backups and Disaster Recovery

Brightly has a daily backup policy with 30 day's retention, this is designed for disaster recovery. They are not used to recover any data deleted by the customer. Please note that only the Portfolio owner can permanently delete a Portfolio. Other deleted operations are logged in the customer accessible audit trail feature.

Note: Predictor Portfolio (*.ppf) files used by the Predictor Desktop app are stored locally and should be stored and backed up by your organisation as per other corporate documents.

Predictor has been designed as a high availability, cloud application to meet business continuity best practice. All application layers have been designed to scale-out across multiple AWS high availability zones (i.e. physically separated data centres), which provides protection against data centre failures/outages and also server/service failures.

Predictor utilises at least two AWS availability zones to ensure the application is highly available. These zones operate as follows:



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- Each availability zone runs on its own physically distinct, independent infrastructure, and is engineered to be highly reliable.
- Common points of failures like generators and cooling equipment are not shared across Availability Zones.
- Additionally, they are physically separate, such that even extremely uncommon disasters such as fires, tornados or flooding would only affect a single Availability Zone. When one zone fails, the application is failed over to the other one automatically.

In the event of a catastrophic failure across both AWS availability zones, we utilise the Predictor application stack at another global AWS high availability zone (stack deployments are fully automated via Cloud Formation if required)

Data Protection

All data in transit is encrypted using TLS 1.2 transmitted over HTTPS.

All client data (file systems and databases) stored within the environment are encrypted at rest using the AES-256 algorithm.

Onboarding

Customers will need to be evaluated and resource estimates supplied depending on the amount of data to be transferred, training required, business processes to be implemented. We will use the G-Cloud rate card for this – please refer to the Pricing Document section of the G-Cloud service.

Implementation Plan

A detailed implementation plan will be provided as part of our proposal once we have estimated the resource and effort required. All our Professional Services engagements will follow our Services Methodology to ensure we are delivering consistent and quality solutions to our customers. Different resources will be required at different stages depending on the skills required.

Pricing Overview

Our pricing is available in the Pricing Document section of the G-Cloud service.

Ordering and Invoicing

Please contact us via our website or on the number or email below to discuss your requirements. Ordering is by Purchase Order only; we will invoice on receipt of a Purchase Order. Frequency of invoicing for subscription orders can be monthly, quarterly or yearly in advance.



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- Email: ukgcloud@brightlysoftware.com
- Phone: 0808 167 4526
- Website: www.brightlysoftware.com

Offboarding / Termination

All data is accessible to Clients, who can export the data directly, should they choose.

In terms of data sanitisation, at its end of life, all media is sanitised by AWS in accordance with their Device Management process before disposal.

Technical Support

Our software subscription & support services offer comprehensive coverage for software updates and fixes, product upgrades and technical support under a single, common set of agreements, processes and tools.

Technical Support is available within your subscription fees and includes access to our online case management system and phone support where you can log new cases, report on existing cases and find a vast array of useful information around how to use the product.

Our Technical Support Desk Hours are: Mon to Fri 09:00 – 17:30 (excluding bank holidays).

Communities

We also provide several online resources to answer questions and provide information needed to implement solutions, share knowledge, receive training and obtain technical or client service support.

- Documentation: Find all the product information required in the form of user guides and technical documents.
- Knowledge Base: Get answers to questions. Our Knowledge Base is a vast library of technical and how-to articles.

Professional Services

Our Professional Services Consultants deliver tailored training based on the requirements of each engagement following our standard methodology.

We provide access to our Brightly Academy e-learning platform, which contains an engaging mix of process diagrams, written manuals and videos. The Brightly Academy content is used throughout the implementation project to upskill users.



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Technical Requirements

The Predictor web app is accessed over the internet. Clients are required to provide their users with the appropriate internet connectivity and browser support. You will require a modern web browser that supports HTML5. This includes common web browsers such as Microsoft Edge and Google Chrome.