

Component data to lifecycle intelligence providing client insights



Background

BGIS has partnered with SPM Assets to provide lifecycle intelligence to its facilities management clients across Australia and New Zealand. This synergistic partnership takes the best of BGIS' in-field knowledge of its clients' assets, and combines it with SPM Assets' software, reference models, and lifecycle tools, to produce a new level of asset intelligence that makes a real difference to works-programming

BGIS and SPM Assets have been working collaboratively with the following clients:

JORN (Jindalee Operational Radar Network):

JORN's radars support the Australian Defence Force's air and maritime operations, border protection, and rescue operations. There are three radar centres plus a control centre across three remote locations.

BAE Systems:

This global defence, aerospace and security company has a wide range of products and services covering air, land and naval forces, as well as advanced electronics, security, information technology, and support services. This particular asset management project focused on four sites across Australia.

BAE SYSTEMS

The goal

The overarching goal was to produce lifecycle renewal forecasts for selected client sites – capturing the in-depth knowledge of BGIS' management, technicians and trades people to provide a reliable component level data model that can provide insights through it's analysis and reporting in a compelling way.

JORN:

The objective was to produce lifecycle renewal forecasts and reports. Where BGIS had been working with the client to produce these reports over a period of, SPM Assets was able to bring it together within two weeks from them approving the proposal, using their existing data and knowledge.

BAE:

This client also required lifecycle renewal forecasts, and as well as additional reporting for specific purposes: a Quinquennial Inspection Report, and also for its Capital Replacement Plan. A raw lifecycle analysis identified the potential future cost of replacements and renewals over the next 20 years (the Capital Replacement Plan). Policies and standards would then be applied at a site and building level to produce a series of planned projects, which then inform the Quinquennial Inspection Report.

The challenges

Both JORN and BAE had asset data in spreadsheets, and needed help to translate this data into meaningful information that they could use for lifecycle and expenditure projections. Even though these organisations had good quality data, it needed to be in a useful format for reporting and decision making.

Where there was plenty of existing asset data, the real challenge was to apply deterioration models, risk models and policies to provide a meaningful and reliable forecast well into the future. There are many ways this data and analysis could be done and BGIS needed a simple pragmatic approach that has been proven over time.

Our solution

We were able to transform the raw data from spreadsheets into meaningful information and reports, such as lifecycle modelling, risk ratings and planned projects. This is done by overlaying the raw data with the reference libraries that SPM Assets has been gathering since 2001, covering \$150bn of physical assets. Transforming the data in this way was achieved within only a few days.

The asset lifecycle analysis informs real-life decision making in a way that's practical, actionable, and scientifically calculated using proven technology.

3 easy steps to gaining lifecycle intelligence for decision making



Whether small or large data sets, standardised intelligence reports and lifecycle forecasts can usually be delivered within two weeks from sign-off.

Lifecycle intelligence is presented in reports that give clients the insights they need for decision making. The reports are customised based on individual needs.

JORN:

A summary report at site and building level was delivered that uncovered new insights, complete with:

- **Component schedules:** Containing all asset data, including the reference data used for analytics.
- **Lifecycle report:** Covering remaining life, risk score, gross replacement cost, and criticality of every component analysed.
- **Valuation report:** Analysis on the calculated useful life, calculated remaining life, gross replacement cost, depreciated replacement cost, and annual depreciation of every component.

BAE:

As well as a summary report, this client required more comprehensive reports to meet contractual requirements. This included providing more detailed commentaries associated with the range of insights uncovered. It also considered different policies and standards to produce a list of potential 'planned projects' from the lifecycle analysis results to better manage their risks. These in-depth reports were produced in conjunction with the BGIS operational team, drawing on their specific site knowledge.

The benefits

Taking BGIS' in-the-field and on-the-ground knowledge, and combining this with client data that's then overlaid with SPM Assets' asset reference libraries, gives clients the lifecycle intelligence they need for better project level decision making.

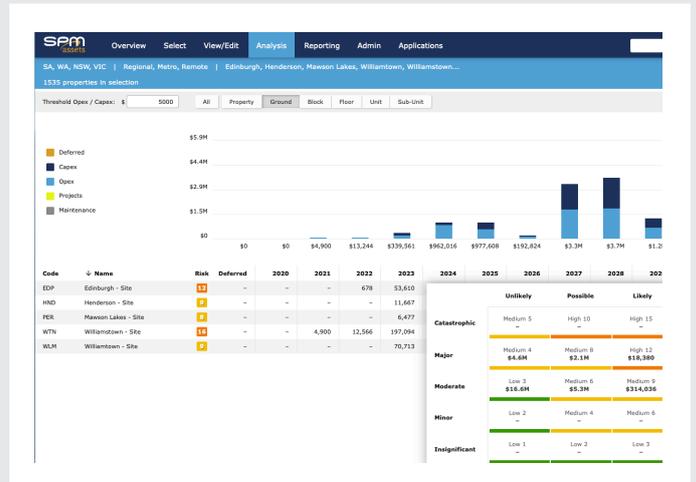
Both JORN and BAE now have clear and concise insights into their assets via SPM Assets' software dashboards and reports. The lifecycle projections create an understanding of the clients' exposure to risk, and assists them in the development of prioritised works programmes. This provides clarity

on where money needs to be spent (at both a component and project level), and the key risks that need to be addressed, now and well into the future.

BAE, who invested in additional reporting, also have a ranked list of planned projects that the BGIS site operational team will be involved in implementing. This identifies: urgent repairs; repairs that need to be made in the next 12 months; repairs that need attending within the next five years; and 'desirable' upgrades that aren't high priority. This gives the team total clarity as to where their priorities lie.



"Utilising the SPM Assets' Software has provided a vast level of detailed information on all assets captured across the nation for our BAE Systems client," explained Jack Panada, BGIS' National Account Manager. "The lifecycle intelligence enables the client to really breakdown the data and get a clear understanding of where to make investments, and gives them confidence in making long-term strategic plans across their portfolio."



EXAMPLES OF SPM ASSETS REPORTING

Next steps

Now that JORN and BAE have an asset management planning framework, they will both continue improving their data and processes over time - they are now able to:

- Improve the asset register with data coming from completed works
- Run scenarios of future planned projects to compare the outcomes

- Provide evidence to justify the priority of planned projects
- Be more effective with targeting assessments
- Write asset management plans aligned with ISO 55000
- Provide more strategic advice to the BAE



Contact us for assistance or further details

New Zealand and Global:
Phone: +64 9 921 4075
Email: support@spmassets.com
or visit www.spmassets.com

Australia:
Phone: +61 2 9880 2955
Email: support@spmassets.com.au

United States:
Phone: +1 212 574 8349
Email: support-us@spmassets.com