



CASE STUDY

The Barossa Council optimizes asset management and workforce efficiency

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As one of the largest and fastest growing regional local government authorities in South Australia, the Barossa Council wanted to improve the management and planning of its infrastructure to support its community's expanding needs. It also wanted to find a better way for its office-based staff to communicate with field teams to complete maintenance jobs and inspections more efficiently, while improving data collection in the field to support decision-making.

CHALLENGE

As a world-renowned premium food and wine region just an hour from Adelaide, it's no wonder more people are moving to the Barossa Valley. Population rates are expected to double over the next 25 years, with an additional 10,000 homes proposed to accommodate approximately 25,000 new residents. This growth places increasing pressure on the Barossa Council to sustainably manage its existing assets while planning additional infrastructure to meet future demands.

According to Glen Carter, Manager of Infrastructure & Environmental Operations at the Barossa Council, it was vital that the Council shifted to adopt a more holistic and streamlined approach to maintaining, operating and upgrading its assets.

"Having reliable infrastructure is essential to the health and wellbeing of our expanding community. To gain greater investment clarity around where the Barossa will grow and what infrastructure is needed, we needed a better understanding of the state of our assets today and how to deliver sustainable levels of service to present and future customers."

The Council's biggest challenge was that they used multiple disparate systems to record asset data and perform maintenance, making it difficult to prioritize maintenance jobs and plan for future infrastructure investments.

"Our team was working between several different programs and Excel spreadsheets to record, program, schedule and close out maintenance works," explained Glen. "We also



Customer: The Barossa Council

Location: The Barossa Council, South Australia

Details:

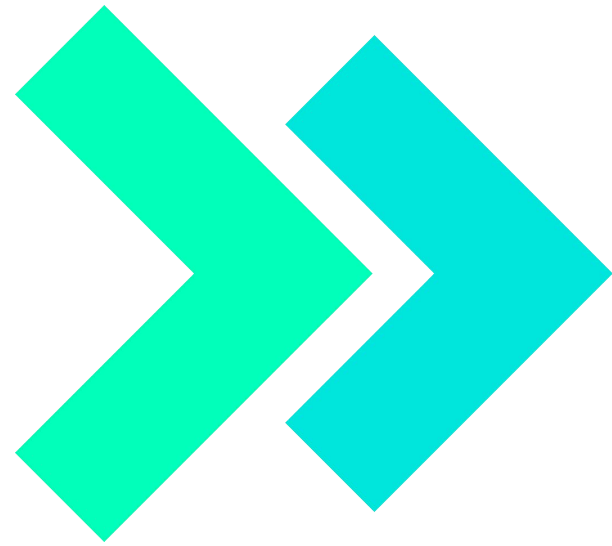
- Located approximately 60 kilometers northeast of Adelaide, adjacent to the town of Gawler
- \$527M assets, including roads, footpaths, community wastewater systems, parks, buildings, storm water and bridges
- Covers an area of approximately 912 square kilometers, servicing a population of over 26,000 people

Results: The Barossa Council have successfully:

- Moved away from relying on siloed programs and Excel spreadsheets to a single asset management platform and source of truth, saving hours of work each week
- Enhanced field mobility, improving communication between office and field staff and the way maintenance work is recorded
- Boosted the efficiency of its inspection-based unsealed roads program, reducing time spent grading customer requests by 33%
- Improved its long-term planning using predictive modelling to support future capital works programs.

relied on numerous manual processes, like printing out hard copies of job cards, which slowed our team down.

“Working across multiple systems also made it hard for management to leverage our data for future maintenance, renewal and replacement planning. We needed a more consistent way to capture asset data and work undertaken in the field to help us model future scenarios and support decision-making.”



SOLUTION

The Barossa Council turned to Siemens for help, entering a collaborative partnership that resulted in the Council rolling out the cloud-based Siemens enterprise asset management (EAM) platform including the Mobility and Maintenance modules and Predictor for predictive asset management modelling.

“Siemens worked with our staff, particularly our maintenance planners and GIS officer, to ensure that the system was configured to suit the way our teams were structured, which is a little different from other organizations.”

“This was no problem for Siemens, who tailored a solution for us and guided us through the implementation process. Siemens ran separate targeted trainings for our management team and field staff and were always available for support whenever we reached out,” explained Glen.

With Siemens solutions, the Council now has a single platform to capture and analyse asset data and allows the team to raise a work order on the spot if a defect is identified during an assessment, improving response times.

“Siemens gives us a single hub for all our asset information. It has also helped us identify holes within our data, so we know what else to capture when conducting condition assessments.”

Glen said introducing field-based mobility has been a key advantage. “Siemens has helped transition our council in a very contemporary manner by enabling our office-based staff to communicate in a much more timely and effective way with field-based operators.”

“Since implementing the Mobility app, we’ve been able to mobilise our workforce more efficiently across the region and better utilise our personnel and fleet. We can now send work orders directly to our maintenance crew’s devices, complete with all information they need – including attached documents and photos – enabling them to receive, action and close out any tasks while still in the field.”

Predictor has also helped the Council model long-term funding and service scenarios to show the potential impact of their decision-making on asset health, service delivery and budgets.

“With Predictor, we can model different funding scenarios and compare their impact on infrastructure health and budget, which is particularly important as we welcome more citizens to the area. Predictor will play a key role in supporting our capital planning decisions as we consider the next 30 years of growth in the Barossa.”

RESULTS

Since moving to Siemens, Glen says the Council now has a lot more confidence in their data to support their asset decision-making and planning.

“With recent population growth, climate change and other factors, the Council’s priorities in managing assets and funding allocations may change over time, which is why it is so important that we continue to collect data and review our infrastructure asset management plan.”

“Siemens gives us confidence that the data we’re capturing, and the integration of our corporate systems will help us make long-term, sustainable and informed decisions to best equip us to manage our infrastructure and assets into the future.”

The Siemens platform is already driving tangible improvements, as demonstrated during its recent inspection program of 560km of unsealed roads in the region.

“By inspecting zones and mobilizing graders based on needs as documented in our Siemens system, rather than customer requests or dues dates, we reduced having to grade customer requests by 33% – saving us many hours of work.”

The software has also improved the council’s ability to respond to urgent maintenance needs, with jobs being sent straight to field staff with all details. “We can also set priorities for tasks with due dates, allowing us to schedule works based on risk and urgency.”

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LOOKING AHEAD

Already, the Council has identified future improvements to be made, thanks to scenario modelling using Predictor.

“It will be good to see the next round of our condition data and the changes this will have on our future modelling. Most importantly, the continual updating and improvement of our data helps provide evidence-based acknowledgement of the work currently being undertaken and a solid background for future decisions.”

“As we continue to improve our data, we look forward to seeing how else we can use scenario modelling to show the impact of decision-making across various criteria and asset types, as well as to support our EOFY processes.”



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