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Olympic Tasks of Facility Management and Design Simplified with Bentley Products

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The world's best athletes are now populating the Sydney 2000 Olympic Village, and the Sydney Olympic Stadium-the largest Olympic arena in history-is now center stage. Bentley products are at the heart of this Olympic infrastructure.

It Takes a Village - and ActiveAsset Planner

Marc Klein, program manager for the Sydney Organizing Committee for the Olympic Games, Olympic Village Support Operations, and his staff are managing the space and building asset demands of the massive Sydney 2000 Olympic Village, perhaps one of the most monumental facility management tasks on the globe.

"The village was purpose-built to house more than 15,000 people for 30 days," says Klein. "We have more than 10,000 staff members working to operate the Olympic Village over a 24-hour period, with over 4,000 working at any one time. Each day, more than 3,000 guests will visit the Olympic Village, creating a total population of approximately 22,000 at any one time."

Seven days after the Olympic's ends, the

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team must reconfigure most of the site to get ready for the Paralympic Games, housing 7,000 people, including 1,500 wheelchair athletes. Every building and office space will need to be reset and reconfigured to meet the special needs of the Paralympic teams.

"We have basically outfitted, completely moved in and set up two suburbs' worth of goods with $25 million worth of furnishings and $60 million worth of technology," says Klein. "All the pieces have to be put in the right room in the right place in a very short space of time for us to operate. What we are really talking about is building all the inventories of assets, then managing them, getting them all moved around, then changing ownership, all within in a two-week timeframe. We also need to manage them while we're in operation and then move them all out again."

Using Bentley's ActiveAsset Planner, Klein's team integrated all those details into one comprehensive system. With the help of MVAR Quantum Leap, ActiveAsset Planner was customized to catalog furnishings, fittings, equipment, technology, rate card and staff to predefined spaces to the Olympic architectural space data and drawings. The system designates an "owner" or "function" to its associated space. It incorporates the existing housing allocation tracking system to assign the appropriate NOC (National Olympics Committee) as the owner of specific spaces in the Olympic Village.

Further, the system links MicroStation DGN files at a room level to the database. It then enables the querying and updating of the database live from the drawing. The

system is linked to a hotel front office system to manage the hotel-style functions of check-in, check-out, housekeeping and so forth.

"The application is covering all aspects of Olympic Village maintenance," says Quantum Leap Principal Marc Forestieri. "To our knowledge, it is the first time that such an automated system is being used to maintain the quality of the Village throughout the Games. We believe it is the most specific Olympic maintenance solution in the world."

Stadium Australia - The making of a landmark

When Stadium Australia welcomes five million ticket holders and the 25 billion cumulative TV viewers, it will likely be remembered as the decade's most recognizable stadium. This single structure first captured the world’s attention when its MicroStation-generated imagery was released in 1996. Bligh Voller Sports, a division of Bligh Voller Nield, partnered with the UK's Lobb Sports Architecture to create the now-famous design.

"MicroStation has really freed up the form of stadia," says J Parrish, director and architect at Lobb Partnership. "Manual design imposed its own limitations--it's very easy to do a linear design with the same cross-section all the way along, but what about a design where every cross section is different? With some of our designs, it could take two to three weeks to manually create typical sections--a useless waste of time. If you do a 3D model, you can work up a cross-section almost immediately by using the hidden

line commands on sectional views of the model."

The 3D model was also used to create photorealistic animations and visualizations as was a video containing "time-lapse" pieces for sunlight and shadow effects, as well as showing the phased movement of seating following the event.

Bligh Voller Sports is also the force at work behind many other new and revised facilities for the Game, including:

- Temporary overlay design of the Sydney Olympic Park site itself, which contains the greatest concentration of venues in Olympic history
- Operational planning and temporary overlay design of the Darling Harbour Precinct, the housing and accommodations for athletes and officials, media, sponsors, spectators and other constituent groups
- Design of the International Broadcast Centre, a 70,000-square-meter production studio
- Design of the Sydney Olympic Tennis Centre at Homebush Bay, a world-class sports center comprising 10,000 seats.

"MicroStation is such an integral part of our process, and so well suited to large-scale projects of this nature, that it is hard to conceive of the same process being possible without it," says John Whatmore, director of Bligh Voller Sports. "It can well be said that the benefits to productivity and communications have made a significant contribution to the planning and preparations for the Sydney Olympic

Games."

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