



# CASE STUDY:

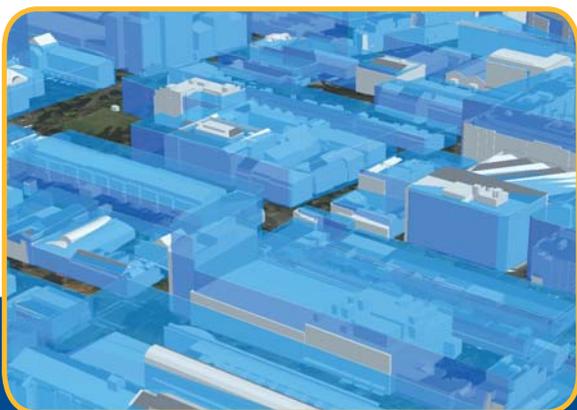
## City of Sydney 3D Model Update

### OVERVIEW

AAM has been providing 3D modelling services to City of Sydney since 1995. In 2013 AAM was commissioned to provide an update to 4300 buildings across the LGA since the last model from 2008. AAM was commissioned in February 2013 to acquire, process and deliver updates to the identified buildings with high accuracy 3D building models. In August 2013, the 3D models were provided within K2Vi software for use in the various business units of City.

### SITUATION

The client is a large urban centre that is dynamic, large and has numerous factors affecting policies, heritage conservation, assessments, environment and control plans. There are strict conditions for urban development and timeframes for feasibility studies, development applications and decisions are a constant concern for council, assessors, the public and applicants.



Height of Building Analysis

### RESULT

An accurate 3D building model assists with the decision process. Assessments for line of sight, shadowing and Local Environmental Planning can occur with confidence.

### ACTION

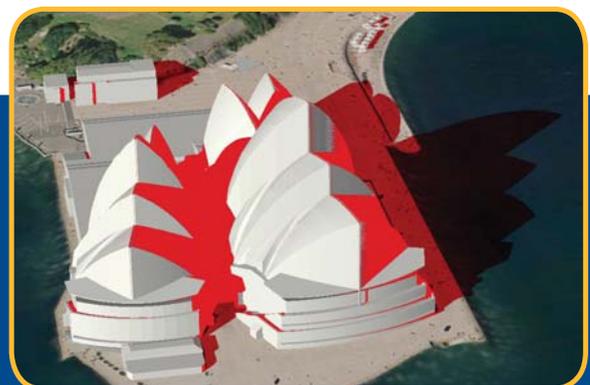
AAM is a trusted advisor for 3D modelling at City of Sydney. A large format aircraft was flown over the city to capture the data. Once complete, photogrammetric mapping allowed the digitizing of 3D building points. The quality control process at AAM then ensure all 4300 building updates were accurately represented. This updated model will assist with the ongoing design and approval of Australia's biggest city.

**“The urban model is used daily by the City’s designers and development assessment planners. The CoS benefits by knowing that we’re making decisions based on the most accurate, highest quality data available.”**

**Jesse McNicoll**, head of urban design in the Strategic Planning and Urban Design Unit at the City of Sydney.

Uses include:

- Shadow analysis can be positively assessed using the new models in the K2Vi 3D software from AAM.
- Development applications can be quickly and easily assessed using the model as well as internal processes at council.
- The design of the city’s new LEP can also be kept in check.
- As-built structures can be analysed using the accurate 3D model and planned buildings.



Shadow Analysis