

# Transportation Authority

## Case Study

### **Business Aspect helps a large transport authority keep its citizens moving with a modernised spatial infrastructure**

#### **Organisation Profile**

This large transport authority services a population of more than seven million people making more than 16 million trips a day in its metropolitan centre. Committed to delivering the highest levels of service to its community, the transport authority is investing in its transport and communications network to ensure its citizens can travel as safely and quickly as possible to their destinations.

#### **Business Situation**

The transport centre relies on multiple spatial data sets and systems to manage events to keep their trains, buses and traffic running smoothly. Transport is a 24/7 concern and the systems supporting that needed to be always on, always available, and the existing infrastructure was unable to meet this level of service.

The transport authority recognised that a major piece of supporting infrastructure was due to be replaced and this presented an opportunity to review alternative cloud hosting options.

Any infrastructure solution also needed to have the high-end computing power to support big data from other Government departments, often large image files, and convert those into smaller bite size chunks that can be used to gain insight into transport related operations and accessed via the cloud.

#### **Objectives**

Key to meeting these requirements was a 24x7 highly available infrastructure that would:

- Minimise commuter inconvenience by being able to respond to traffic events 24x7
- Achieve greater operational efficiencies and performance offered by the cloud
- Enable large image files to be accessible via multiple devices via the internet

For help in evaluating a new highly available, high powered spatial infrastructure, the transport authority turned to Business Aspect.

#### **What we achieved**

Business Aspect helps our clients adopt leading technologies to drive business performance improvements. The transport authority engaged Business Aspect to explore and assess their options for providing an improved high availability and automated failover environment with enough high end computing power to support Big Data across government departments.

Business Aspect adopted the clients Cloud Services Policy, Cloud Decision Framework, and the Hosting Platform Reference Architecture to make the assessment.

Business Aspect found that the high availability priority limitations could be substantially addressed by a cloud deployment that would:

- Deploy spatial systems in an industry acknowledged highly resilient infrastructure and services environment;

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- use cloud service automation functionality to deliver a high availability response;
- provide browser access to spatial information via multiple devices without requiring access to spatial delivery platforms or applications;
- remove dependencies on custom developed replication solutions, and
- use 24x7 cloud support services.

### Outcome

**“Business Aspect’s recommendation will save an estimated 70% of the spatial infrastructure hosting costs.”**

Business Aspect recommended a cloud based environment (IaaS or PaaS) for hosting their spatial infrastructure. This was supported by analysis which concluded:

- the option was the lowest risk approach to cloud deployment and delivery;
- it offered capabilities around auto-balancing and auto-scaling;
- it supported web browser access to spatial information; and
- would enable the client to utilise government big data to improve its services.

Additionally, Business Aspect’s recommendation facilitates deploy on demand and halting services when not actively in use, resulting in a very cost effective solution - estimated at more than 70% savings on 24x7 production availability requirement.

### Business Aspect

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