

CASE STUDY



# Brighton & Hove

Cloud Migration Project



## *Brighton and Hove Buses*

Brighton and Hove Buses is renowned for its singular focus on ensuring every journey is an enjoyable one for the traveling public – as evidenced by the operator being recognised as 2017 Top City Operator at the UK Bus Awards and runner-up in 2020.

## *The Objective*

In order to stay at the cutting edge of what's possible in public transport, Brighton and Hove buses decided to migrate their systems to the Cloud with the support of Trapeze.

The benefits of transferring systems to the Cloud are numerous, and include:

- Scalability and flexibility
- High availability
- Increased security
- Cost efficiency

Trapeze is committed to an innovative Cloud-based solution. With this, we can offer improved SLAs and KPIs and deliver a hosting service that is easy and convenient to run, as well as improved security and data replication.

## *Seamless Migration*

With 263 buses and 285 signs to migrate to the Cloud, it was important to Brighton and Hove that the migration was completed without impacting operations. Trapeze completed the shift to the Cloud in just one day, with minimal downtime for Brighton & Hove, safeguarding their reputation and the passenger experience.

To ensure smooth migration with the possibility of switching back to on-premise hosting, Trapeze ran the services in mixed mode; some vehicles and on-street digital displays were connected to the Cloud environment and some were connected the on-premises environment, gradually moved from on-premises hosting to Cloud hosting.

The migration of vehicles and on-street digital displays was transparent to the service controllers as all the vehicles, irrespective of whether being connected to on-premises or Cloud, were being monitored from the same Service Controller Application.



Trapeze did a lot of work with our IT department to make [the migration] possible. We were given access to the test environment, which was very reassuring. I feel we have certainly made the right choice by switching to the AWS cloud. I would like to thank Trapeze for not just their help but also their patience. They certainly went out of their way to make this successful.

**Steve Lane - GPS Officer, Brighton & Hove Buses**

## Effective Disaster Recovery

The primary goal of Disaster Recovery (DR) is to minimize downtime and ensure the continuity of software services. By implementing DR plans, organizations can mitigate the impact of these events and maintain critical operations.

By tailoring the DR approach to the specific needs of Brighton & Hove buses, Trapeze created a robust and cost-effective strategy with an Recovery Time Objective (RTO) of less than 15 minutes and a Recovery Point Objective (RPO) of zero.

Recognizing that a transition to a Microservices architecture wasn't sufficient to meet the rigorous demands of availability, Recovery Time Objective (RTO), and Recovery Point Objective (RPO) for our ITS solution, we embarked on a path to harness the power of the Cloud.

Our top priority was to ensure minimal disruption and, in the unlikely event of any issues, enable a swift transition back to our reliable on-premises solution. The successful execution of our strategy resulted in minimal downtime and a seamless migration experience for Brighton & Hove buses.

We can now proudly presents our state-of-the-art Cloud-based ITS solution, fortified with unparalleled availability, resilience, and enhanced security.

**Nitesh Kumar Jha - CTO, Trapeze UK ITS**

## At a Glance



263 buses



285 signs



6 SIRI partners



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