



Alchera Highways Service Description

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Alchera Technologies: data-driven mobility experts.

Alchera is a specialist in enterprise-grade mobility and infrastructure systems, providing software tools and machine learning to power data-driven infrastructure.

Alchera specialises in helping operators of road networks to maximise the operational and commercial value of fragmented mobility data.

Our flagship platform, analyses & fuses data in real-time from existing sensors across the road network - including cameras, connected vehicles, GPS and IoT sensors - providing auditable access to relevant stakeholder groups both internally and externally where data can be shared for wider impact.

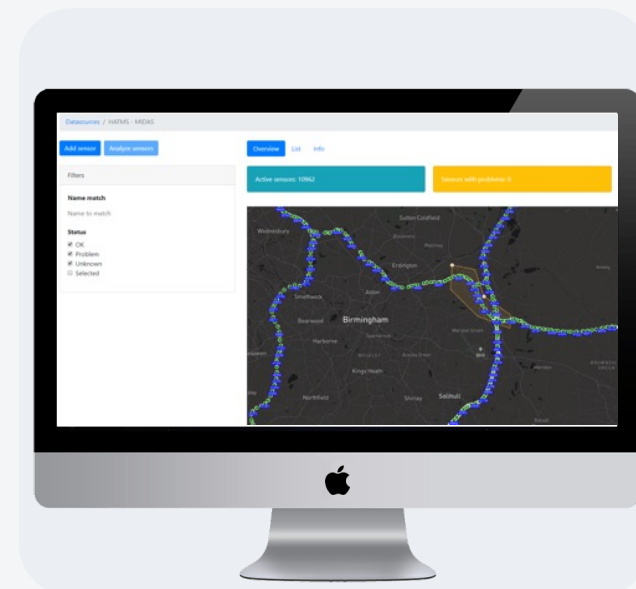
250+

YEARS OF INDUSTRY
EXPERIENCE

20+

PEER-REVIEWED
PAPERS

TEAM EXPERTISE



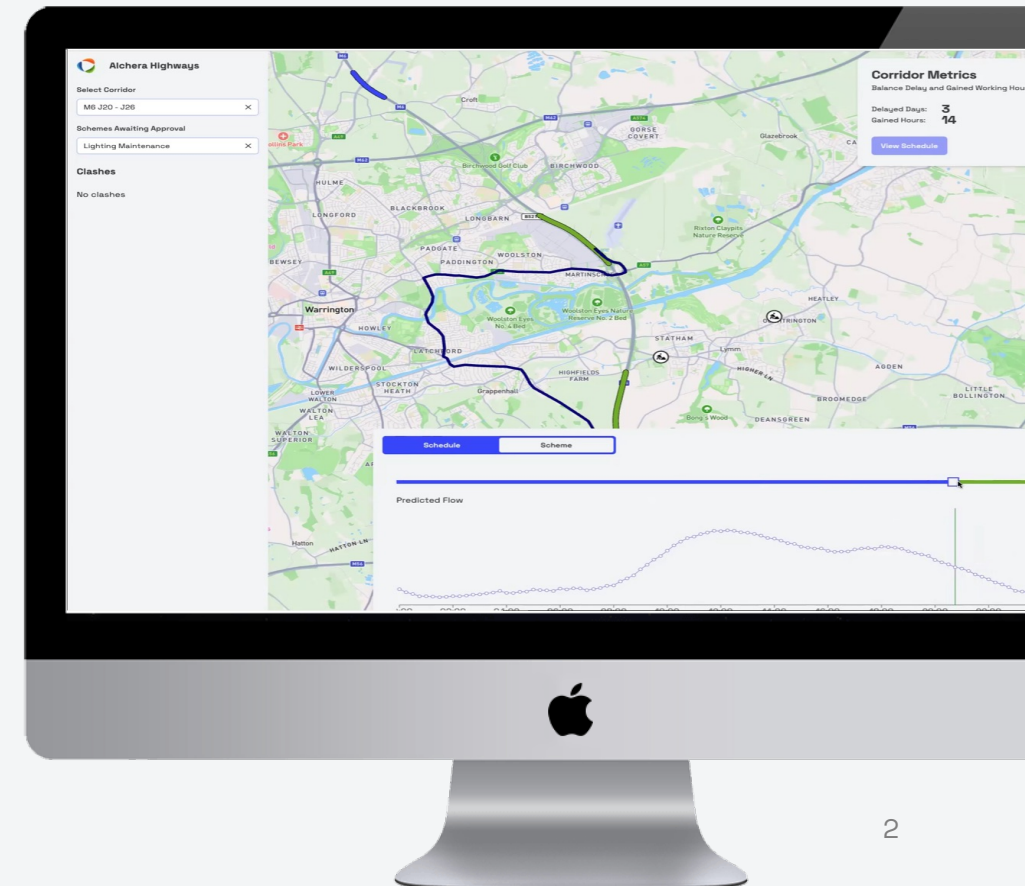
Motivation: reducing the impact and increasing the efficiency of roadworks

Local Authorities receive hundreds – if not thousands – of requests for roadwork permits a year.

A problem exists when a team receives requests and lacks the data to efficiently appraise, mitigate and monitor the requests. For example: “are these roadworks likely to have an impact on bus operations?” or “how much will these roadworks affect commuters?” as those teams often don’t know whether data exists to help them, then they struggle to access it, then when they have it, they struggle to use it effectively.

There’s an opportunity to increase the value of **existing** data. Firstly, by making it more efficient for teams to use data. Secondly, by applying that data to specific highways and roadwork use cases.

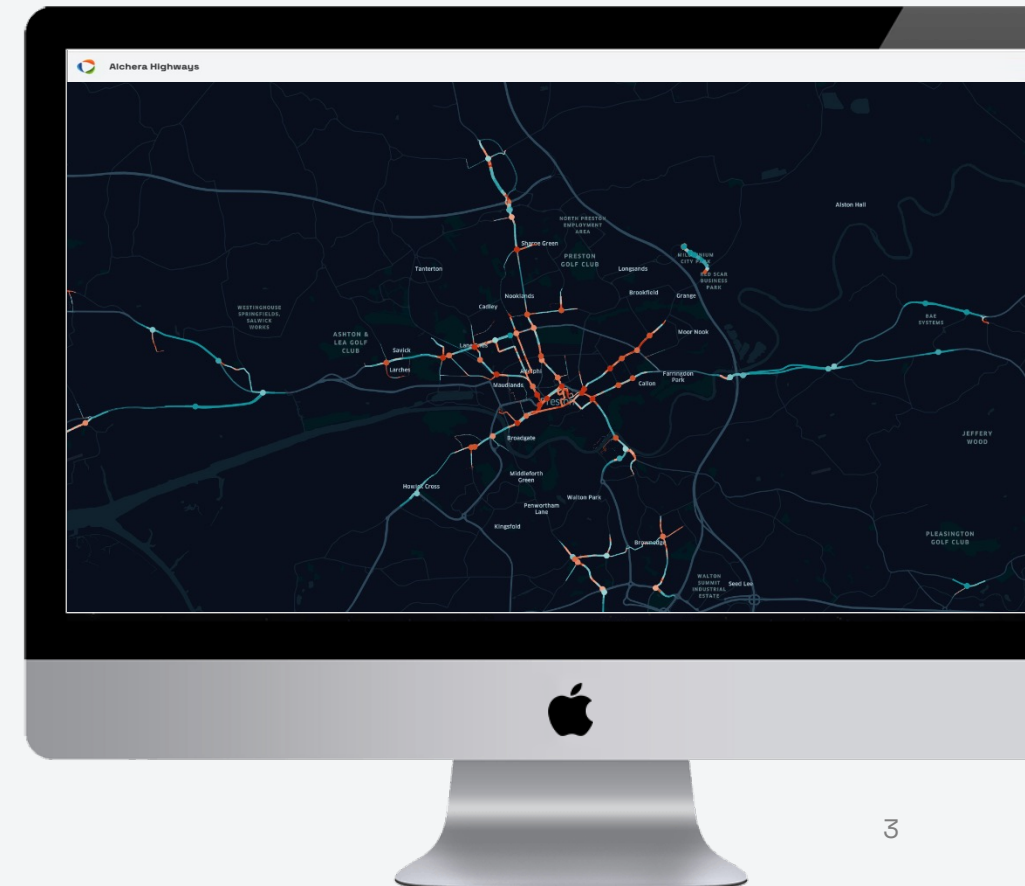
Alchera’s Highways solution makes this possible. All accessible through an easy to navigate web-based user interface, compatible with all major operating systems.



Alchera Data Hub: Streamlining mobility data

Organisations use a range of tools in their ecosystem to manage road works smoothly. Alchera integrates with these tools and provides highways teams with the visibility of:

- upcoming roadworks, so they can effectively plan
- impacts across all transport modes, so the appropriate teams can be engaged and impacts mitigated
- real-time monitoring of roadworks to ensure they're proceeding as expected and not seeing any unintended consequences



Alchera Highways: Features

Triage

Efficiently and effectively appraise requests.

If you receive hundreds of roadwork requests, how do you triage which ones to look at? With Alchera Highways, we provide the insight to achieve this.

Communicate

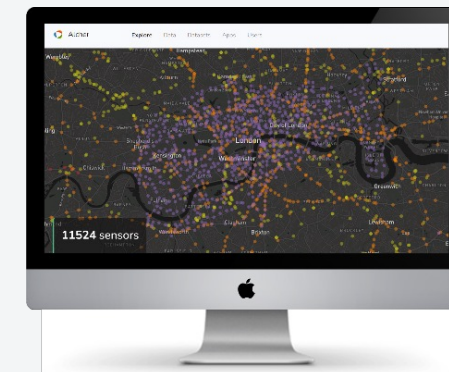
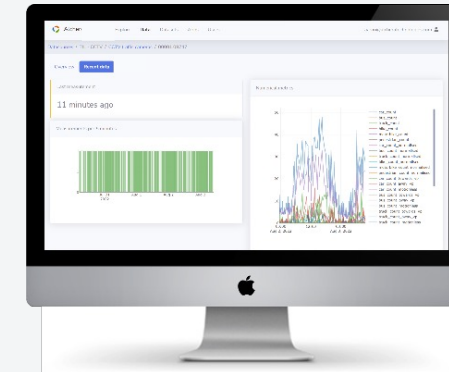
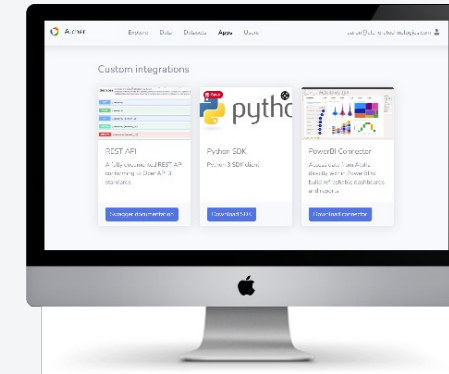
Increasing collaboration with other teams.

Some roadworks affect buses and are solved by letting bus operators know what to update their timetabled journey times, to avoid buses running late. This improves wider network operation through increased collaboration between teams.

Monitor

Ensuring roadworks proceed as expected.

Sometimes even "low impact" roadworks can have a big effect, if they're setup wrong or against regulations. E.g. cones in the wrong place, temporary traffic lights left on. Monitoring these roadworks in real time allows these unintended or unexpected impacts to be alerted and fixed asap to avoid unnecessary disruption.



Alchera Highways:

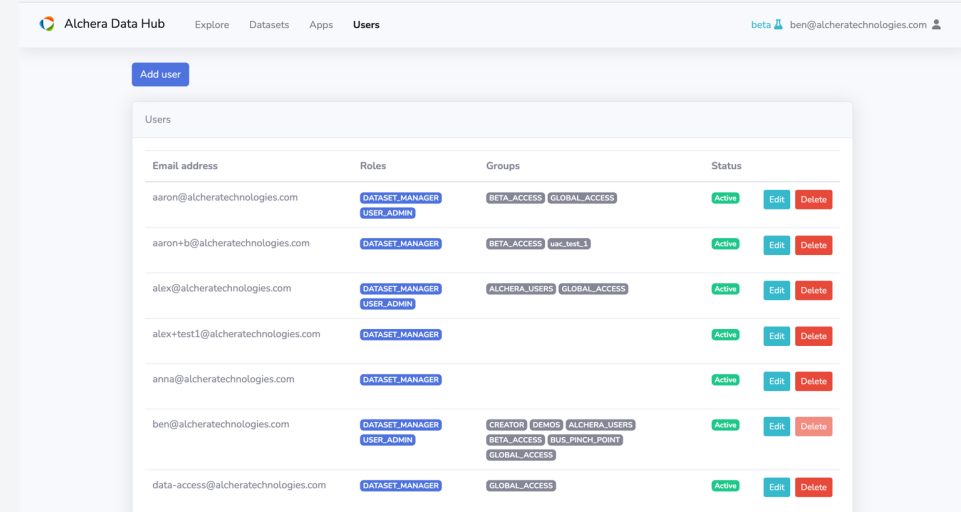
No limits roadworks insight

Alchera actively encourages customers to get the most out of the platform. What does this mean in practice?

1. No limits, or additional fees for users. Once modules have been deployed, logins are available to anyone who would get value without worry about extra charges.
2. No additional fees for usage or storage. Use Alchera Highways when you need it and store all the historic data you want.
3. Third-party users? Feel free to give access to third parties that need your data, such as external consultants.

User Access Management

- Granular level user access management, allowing
 - Control over what data each user gets to see
 - Addition and removal of users on demand



The screenshot shows the 'Users' management page in the Alchera Data Hub. It features a table with columns for Email address, Roles, Groups, and Status. Each row represents a user with their assigned roles and groups, and buttons for 'Add user', 'Edit', and 'Delete'.

Email address	Roles	Groups	Status
aaron@alcheratechnologies.com	DATASET_MANAGER USER_ADMIN	BETA_ACCESS GLOBAL_ACCESS	Active Edit Delete
aaron+b@alcheratechnologies.com	DATASET_MANAGER	BETA_ACCESS User_Mkt_1	Active Edit Delete
alex@alcheratechnologies.com	DATASET_MANAGER USER_ADMIN	ALCHERA_USERS GLOBAL_ACCESS	Active Edit Delete
alex+test1@alcheratechnologies.com	DATASET_MANAGER		Active Edit Delete
anna@alcheratechnologies.com	DATASET_MANAGER		Active Edit Delete
ben@alcheratechnologies.com	DATASET_MANAGER USER_ADMIN	CREATOR DEMOS ALCHERA_USERS BETA_ACCESS BUS_PINCH_POINT GLOBAL_ACCESS	Active Edit Delete
data-access@alcheratechnologies.com	DATASET_MANAGER	GLOBAL_ACCESS	Active Edit Delete

Alchera Highways: Platform & Cyber Security

Alchera Highways Updates & Enhancements

Alchera will continue to release timely and free of charge updates to Alchera Highways, for the software to remain compliant with current regulations and to ensure its proper operation.

Further bespoke development work requested by the client will be strictly by negotiation. Costs and timescales for delivery by mutual consent.

Cyber Security

Alchera is Cyber Essentials Plus certified, which is a UK Government approved equivalent of ISO27001:

<https://iasme.co.uk/iasme-cyber-assurance/>

