



## An AI-Enabled Electric Vehicle Fleet Optimization and Energy Resilience Platform

### Helping the Department of the Air Force (DAF) Manage the Transition to Zero Emission Vehicles for Installation Resilience

eJARVIS streamlines comprehensive energy and installation data management for policymakers, civil engineers, and energy or non-tactical vehicle (NTV) fleet managers. The application automatically wrangles DAF and partner data into a clean fabric for rapid analysis and visualization. eJARVIS offers users both traditional dashboards and a unique Generative AI (GenAI) interface called askJARVIS, which executes natural language queries while maintaining absolute data security. SAF/IEE and three DAF installations are using eJARVIS, which has ATO at IL4, to guide their transitions to electrified NTVs.

#### Current Effort: The eJARVIS Pathfinder

VIA is developing and deploying eJARVIS under a four-year, \$30M effort. The first year of the effort has produced:

**Automated Data Integration:** eJARVIS automatically wrangles data from USG and DAF legacy sources (e.g. BUILDER, PAVER, NexGenIT, and the Federal Automotive Statistical Tool), meter databases, electric utility bills, and utility outage reporting into a consistent fabric for rapid analysis and visualization through dozens of user-designed dashboards.

**askJARVIS GenAI Data Visualization:** askJARVIS leverages GenAI to convert human-language queries about the eJARVIS data fabric into custom visualizations (tables, bar charts, line graphs, scatter plots, and geospatial visualizations) on demand. askJARVIS never shares data directly with the GenAI model, ensuring absolute data security, and shows a user all internal prompts and SQL code, providing transparency. Prompt engineering maximizes accuracy while query auditability detects and deters unauthorized activity. SAF/IEE featured askJARVIS at Energy Exchange 2024 as a leading DAF GenerativeAI deployment.

#### Trusted by



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#### Selected Future eJARVIS Milestones for DoD and Industry

**DoD:** VIA will add vehicle and charging station telematics to the eJARVIS data fabric while adding AI-enabled data wrangling and anomaly detection capabilities VIA has previously deployed for other Government and Commercial customers.

**Commercial:** Core eJARVIS elements are the foundation of VIA's commercial offering, which integrates key vehicle metrics for analysis and visualization to help fleet managers optimize vehicle charging schedules.



#### Want to learn more?

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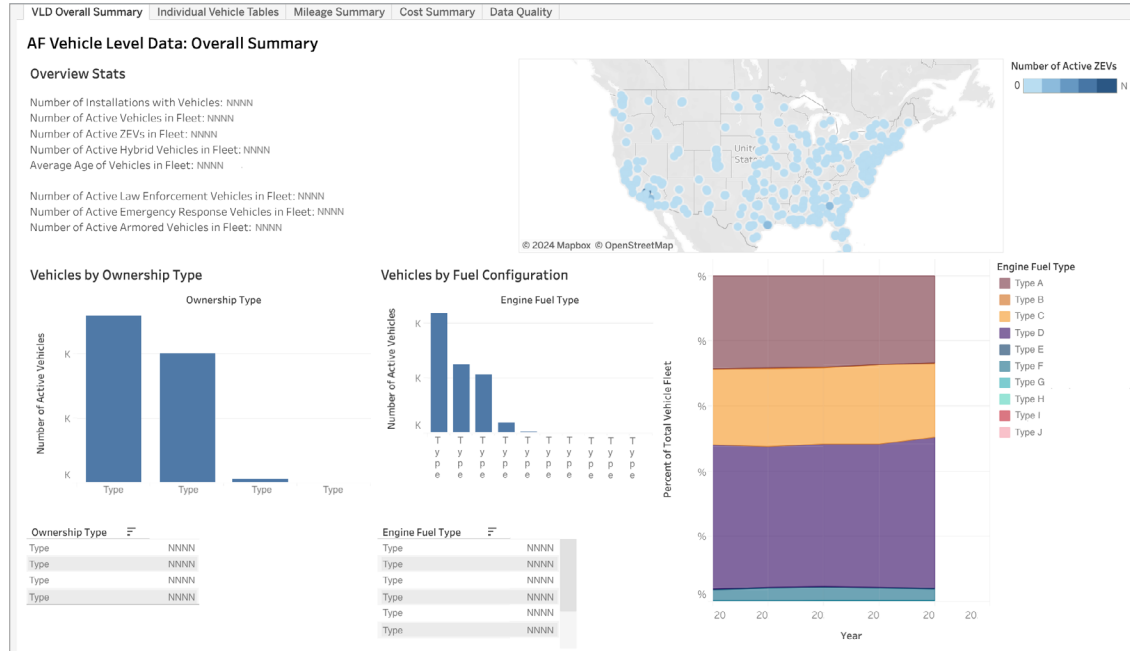
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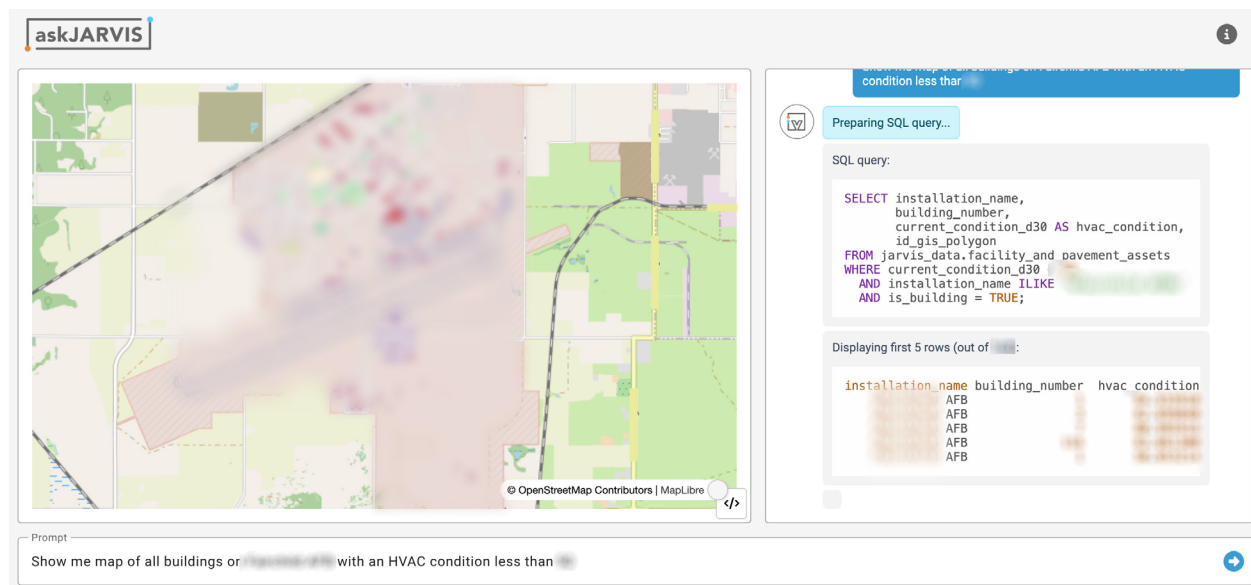
## Automated Data Integration

Interactive real-time dashboards inform the Air Force's non-tactical vehicle fleet electrification transition; automated energy utility billing processes create meaningful time savings for energy managers.



## askJARVIS GenAI Data Visualization

askJARVIS leverages GenAI to convert human-language queries about the eJARVIS data fabric into custom visualizations (tables, bar charts, line graphs, scatter plots, and geospatial visualizations) on demand.



Key details are obfuscated at the request of the Department of the Air Force



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## About us

VIA software rapidly and securely bridges U.S. Department of Defense (DoD) data fabrics with decision-making tools. VIA's Web3 platform verifies data provenance, reliability, and integrity; integrates multi-source, multi-level data into consistent formats in real-time; and enables analysis of centralized or distributed data while enforcing need to know. The DoD and leading energy companies trust VIA to overcome data fabric friction and accelerate decision-making to the tempo of demanding operations worldwide.