

MAJOR CANADIAN AIRLINE MODERN DATA PLATFORM USE CASE



This Use Case will outline a mission-critical modern data platform solution for advanced data analytics in the transportation industry

Background

Within many industries, especially Transportation and Manufacturing, compliance with regulatory boards is absolutely essential. Non-compliance can mean liability, fines, and can even lead to temporary or permanent shutdown of operations. Not surprisingly, companies are always looking for ways to make compliance processes more efficient to avoid headaches and losses. This was the case for one major airline that was looking for mission-critical software that would help them maintain compliance with new and changing regulations. With a tight deadline to adhere to, the airline reached out to Lixar to take on this data transformation project, and deliver a solution that would be critical to their ongoing success.

The solution required a modernization of their entire system, which as it existed, would not be sufficient to keep them compliant with new regulations. The organization needed a way to track real-time data. This means data must be up-to-date, accessible, and easy to engage with. Moreover, the solution had to be delivered and deployed on a very short timeline.

Our long-standing partnership with Microsoft, our proven experience in the airline/transportation industry, and our 20+ years in modernization made Lixar the ideal candidate, and we were selected. We began by understanding their existing system and auditing their data, to decide how best to move forward, given the timeframe. We knew that we had to deliver value quickly, and leveraging our HeroPath platform allowed us to do that. Delivered within only 45 days, the project was deemed a major corporate-wide success by the airline's CEO, CTO, and CIO.

KEY RESULTS

Building on our strong data background, and leveraging our unique modern data platform, HeroPath, we successfully delivered a solution that: 1) **optimizes critical processes** required for compliance with new regulations; 2) **helps mitigate costs** of potential fines associated with non-compliance; and 3) is **scalable and flexible** for future growth and innovation

Solution Overview

Lixar delivered a modern, advanced data analytics solution, with strong ingestion and transformation capabilities, scalability, and interactive visualization dashboards that are accessible to users participating in critical compliance-related processes. It provides users with the data they require, in near real-time, helping them do their jobs quicker and more effectively.



Outcomes

- Optimizes critical processes
- Helps ensure compliance
- Helps mitigate costs associated with non-compliance
- Offers scalability and flexibility for the future
- Offers near real-time data for always up-to-date analytics
- Helps people be more efficient in their work

How it Works | HeroPath

HeroPath is a fully managed, cloud-based, modern data platform. Its scalability and flexibility for today and tomorrow allows you to optimize every step of your data journey, fueled by best-in-class Microsoft components, that can be customized to meet your specific needs. Our unique approach ensures that we understand your goals and help you achieve them by: 1) ingesting the right data; 2) transforming it using the right components, and 3) allowing you to engage with it through interactive visualizations. Moreover, our accelerated infrastructure means your pipeline can be ready in a day, rather than weeks or months.

Technical Breakdown

To meet the client's needs, Lixar deployed our HeroPath solution, which uses a carefully curated selection of best-in-class Microsoft components. For this particular project, we used Azure Cloud, Data Factory, Data Lake, Databricks, SQL server and Power BI.

During the ingestion stage, we had to move a high volume of hybrid data to the cloud using Data Factory. Databricks was then used to parse and curate data, which was stored in the Data Lake. Curated data was then pushed using the SQL server, and pulled in by Power BI to be displayed as interactive visualizations that would be accessible for its users.

As an added benefit, it is a scalable solution that can be adjusted on the fly, so that our clients always have exactly what they need, exactly when they need it.

Features & Benefits

Accelerated infrastructure	A customized solution set up quickly , on time and on budget, with room to grow
Cloud solution	A scalable and cost-effective platform that allows you to make sure you have exactly what you need, as you need it
Data Visualization	Get the insights you need at a glance , with interactive drill-down capabilities



Conclusion

This airline came to Lixar with a very unique business problem that needed solving — rather than looking to increase revenue or customer add-ons, they needed a way to mitigate the risk of non-compliance, and the potential costs associated with that. HeroPath provided this by giving them a strategy for efficiency that allows them to optimize the related processes, with real-time data and an easy-to-use visualization dashboard to help users do their jobs quickly, and effectively. This project is a recognized success, delivered on time and on budget, and notably implemented within only 45 days. We were able to accomplish this so well because of our strong data expertise, and our accelerated infrastructure. As a premier data and AI company, Lixar has over 20 years of experience in helping companies modernize and leverage technologies to help them work better, solve business challenges, and meet their goals.

Take your business to the next level

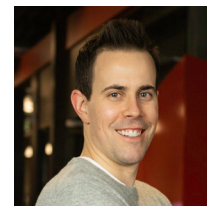
Where are you on the data-driven maturity scale?



Looking to leverage data and AI solutions for a brighter tomorrow? Lixar can help.



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