

# Full steam ahead

## Destination: The (Data) Lake House

With a cloud-first strategy, Irish Rail is on track to running a truly modern rail system.

Millions of train journeys per year generate vast amounts of data, so Irish Rail decided to streamline processes and improve efficiency with a centralized Azure Data Hub. Integrating Azure Synapse, Azure Data Factory, and Microsoft Power BI allowed Irish Rail to switch tracks to advanced analytics, giving them insights into train performance and schedule delays, which steers them towards a more efficient service for passengers.

With a complex data environment that includes IoT devices, supporting software, and touchpoints across multiple lines of business, the national railway operator has built a powerful engine for enterprise-wide reporting and analytics so that trains can run on time, every time.

Irish Rail is well on its way to creating a state-of-the-art data lake house that sets them up with the capabilities needed to fully leverage unified solutions like Microsoft Fabric for a seamless, data-driven rail network across Ireland.

