Labour Market Information Council implements a comprehensive GCP data modernization effort with assistance from Onix

Executive Summary

The Labour Market Information Council (LMIC) knew they needed to build an innovative data lake infrastructure to better utilize and provide metrics about labour market information (LMI). An enormous amount of Canadian LMI exists, but it is spread across multiple sources, often available only in formats that experts can make useful. To address this systemic challenge, LMIC looked to Onix to help launch a cloud-based data repository (Data Hub) that consolidates and curates the high-quality LMI data available in Canada. LMIC looked to Onix expertise to lead them through the process of developing their Data Hub using the Google Cloud Platform so that information is stored and easy to access through front-end tools and user interfaces like websites, apps and dashboards that draw on Data Hub data through APIs.

Partner Solution

Onix began by understanding the desired final state for the LMIC data hub, and then worked with LMIC to define and identify specific milestones to provide the discrete desirable outcomes they required. Using GCP tools BigQuery, Cloud Storage, Cloud Run and Cloud Operations, the approach was to build a foundation that could be later expanded to address growing needs.

Customer Challenge

LMIC was aggregating data from several sources on an ongoing, cumulative basis. Data was consolidated and curated manually into several segregated silos making it challenging for queries both by internal stakeholders and external entities. Along with data harmonization, normalization and analysis, the organization knew they needed a central repository and the right tools for ingesting and automating their processes.

About the Customer

Founded in Ottawa, Ontario in 2017, not-for-profit LMIC identifies pan-Canadian priorities for the collection, analysis and distribution of labor market information. It helps ensure better value from existing labour market information investments across Canada — and fosters exploration of new opportunities for collaboration among governments and stakeholders. The LMIC mandate is to improve the timeliness, reliability and accessibility of labour market information to facilitate decision making by students, workers, job seekers, employers and policy makers, improving the timeliness, reliability and accessibility of Canadian labour market information.

Why GCP?

GCP was selected because it offered the ability to provide a modern and scalable infrastructure that would support future needs and growth requirements for LMIC to provide them with maximum long-term solution flexibility. The abilities of BigQuery and serverless architecture to manage large sets of data were key components.

BigQuery | Cloud Dataflow | Cloud Run | Cloud Build | Cloud Storage | Compute Engine | Cloud Operations | Monitoring

Why the Customer Chose Onix?

LMIC selected Onix and GCP because Onix was able to quickly demonstrate an understanding of the LMIC requirements — and show that it had the skills and experience to establish the foundation that would be needed to shift the LMIC concept to a fully functional Data Warehouse. Onix had a cloud data foundation architecture that could rapidly create a scalable environment to support a data warehouse and would allow them the flexibility to support future growth. Enhancement planning is now underway for 2022.

"Our technical partnership with Onix has enabled us to build an innovative data lake infrastructure — a new area for our organization. Onix's collaboration and emphasis on customer value has ensured our team developed the capacity to take on ownership of the resources they built and ensure long-term sustainability."

- **Tony Bonen**,
Acting Executive Director of Research,
Data and Analytics, LMIC

Impact and Results

Data can now be ingested and harmonized automatically, saving significant time. To provide greater insights, analysis can now be performed across data sets that were previously siloed. The Data hub is being beta tested with other organizations with the intention of providing access as a service, potentially a new offering for LMIC.

About Onix

Onix is a world-class cloud consultant and a Google Cloud Premier Partner. We strive to elevate every client embarking on a cloud journey to new levels through our prescriptive methodology that comes from years of experience. With proven success across hundreds of projects, our team of architects and consultants help accelerate the customer experience by partnering with the customer throughout the cloud journey to help build customized solutions. We back our strategic planning and deployment expertise with incomparable service, training and support to succeed today and in the future.

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