Jump Analytics introduces new path to business transformation for mining industry

Partner empowers heavy-asset industries with analytics, apps, and automation

Jump Analytics, which provides advanced analytics solutions for heavy-asset industries like mining, was working with one of the world's largest gold mining companies and ran into a common industry issue. The company's operations-specific software left critical gaps between systems, making analytics and business insights difficult. With separate systems for exploration, machine or material movement, fleet tracking, and milling—plus an inability for those applications to share data—the company was forced to pull information together manually, most often using Excel spreadsheets.

Aiming to bring the data together, Jump Analytics looked at ways it could develop applications that insert themselves in between these independent systems to collect and store business-critical data. "We looked at many technologies and vendors, but Microsoft Power Platform was the only one that had the complete set of capabilities we needed in terms of app development, automation, and data visualization," said Michael Matrick, Co-founder and Partner at Jump Analytics. "We are firm believers that Microsoft has the strongest platform in the industry for building these connective solutions."

With Power Apps, Power Automate, and Power BI, Jump Analytics very quickly and easily designed apps and automations to collect data that could be shared in a single, trusted data source. In addition, Jump Analytics developed solutions to make data more actionable, using Power Apps to embed business logic and flows into Power BI dashboards, allowing users to interact with forecasts and budgets to improve decision making. Power Platform not only helped solve industry data challenges, but it also helped rapidly evolve the partner's practice into building applications for specific business processes.

JUMPANALYTICS

About Jump Analytics
Jump Analytics is a leading provider of advanced analytics and corporate performance management solutions that transform companies in heavy-asset industries such as mining.

Highlighted practice
Power Apps, Power Automate, Power BI

Industries
Mining, Utilities, Forestry, Oil and Gas, Heavy Construction

Headquarters
Canada

Microsoft partner since
2017

Key customer outcomes

- Enabled data centralization for better insights into mine site operations
- Reduced time to collect and organize reporting for 1000+ metrics
- Streamlined shift-change procedures to improve safety and efficiency

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Michael Matrick
Co-founder and Partner, Jump Analytics

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New Gold discovers faster, more economical digital transformation with Power Platform

Jump Analytics is using its Power Platform expertise to help customers like New Gold, a Canada-focused intermediate gold mining company committed to responsible mining. After working with New Gold on several SAP-focused projects for its corporate office, the CIO asked Jump Analytics if they could help address challenges the company was experiencing around accessing information on mine site operations. The partner stepped in to help architect a data and artificial intelligence (AI) strategy using its mine analytics playbook, creating a foundation for collecting, storing, and making data available to business users at each mine site. From there, the partner began fielding requests to enable specific scenarios, such as tracking safety indicators or providing analytics for maintenance tasks, in some cases automating processes that would otherwise require the company to license additional software.

newgold™

"Working with Jump Analytics and Power Platform has helped us create an integrated architecture for delivering new apps and services to our business faster and more cost effectively. We see this as a strategic effort to create sustainable and enduring value for our shareholders, stakeholders, and environment."

**Greg Brown
Director, Information Systems
New Gold Inc.**

For example, when New Gold wanted to streamline its paper-based shift-change process at mine sites, Jump Analytics developed a series of three apps in just seven weeks. The apps provided a dashboard of data collected underground across production, development, and rehabilitation. Now, even without a wi-fi connection, staff working underground can use tablets to input data on gas readings, equipment locations, and blast times. When they surface, the devices sync with supervisor systems for approvals and handoffs. This not only reduces time and manual effort, but it also helps improve overall safety.

Likewise, when New Gold needed help reducing the workload required for annual Environment, Social, and Governance (ESG) reporting, Jump Analytics recommended building a Power App to replace manual processes for reconciling data across multiple excel spreadsheets. The new app creates one central location to collect, edit, and store data on thousands of metrics collected at each mining site to indicate sustainability, interactions with indigenous people, and other key regulatory information. Now in production, the solution has helped accelerate and simplify reporting, saving dozens of hours of manual effort and giving executives and auditors quick visibility to metrics throughout the year.

The success of these new apps at providing a fast return on investment and business impact has spread to multiple departments within New Gold. Jump Analytics has since seen a steady stream of requests for new apps to address additional use cases. Currently, the partner is developing and deploying a new app once every three or four months for the mining company. Because the apps are built on a common framework, even apps built for siloed scenarios are tied together on the backend.

"When beginning our reporting journey with Jump Analytics, we started talking about what our needs were and where we wanted to go with reporting and how we didn't want our reporting to just be a once-a-year thing," said Bethany Borody, Director, Sustainability at New Gold Inc. "We wanted to build a dashboard and a platform where our sites could input data that it was tracked, it was validated and that we could pull that data at any time, or we could pull cross sections of data so that we could look at different things from different perspectives."

Strong growth outlook for industry-driven IP

JUMPANALYTICS

"Power Platform is going to be a big catalyst of growth for our company. We're going to go deeper into other asset-intensive industries that need the process automation we can provide. With our industry expertise and our development capabilities on Power Platform, we see a huge opportunity."

Michael Matrick
Co-founder and Partner
Jump Analytics

With Power Platform already one of the fastest growing areas of its business, Jump Analytics sees additional opportunity around packaging its IP for other industries. Solutions like the ESG app at New Gold are in demand across industries with similar on-site operational demands, such as oil and gas, utilities, forestry, and heavy equipment manufacturing. By building on Power Platform, it is easy to customize IP to meet the needs of a specific industry or client. Power Platform also allows for straightforward language translation, which is extremely useful for its customers with operations in multiple countries.

"Power Platform is going to be a big catalyst of growth for our company. We're going to go deeper into other asset-intensive industries that need the process automation we can provide. With our industry expertise and our development capabilities on Power Platform, we see a huge opportunity," concluded Matrick.