

Capgemini 

Teck

TECK CREATES COMPOSABLE ADVANTAGE TO **ENHANCE EFFICIENCY ACROSS ITS BUSINESS OPERATIONS**

Capgemini enables Renew Business Systems
platform with MuleSoft integrations



Teck is one of Canada's leading mining companies, committed to responsible mining and mineral development with major business units focused on copper, zinc, and steelmaking coal. These resources are required for the transition to a low-carbon world.

Renew Business Systems project

As part of ongoing work to enhance efficiency across its business, Teck made the decision to enhance its technology platforms to support ongoing innovation and help enable the mine of the future.

The company decided its best option was a composable ERP with a best-of-breed approach to provide the right support to each segment of the company. Named the Renew Business Systems (RBS) project, the new system consists of five main platforms: Health, Safety, Environment, and Community (IsoMetrix); People (SAP SuccessFactors); Finance (Microsoft Dynamics 365); Sourcing and Contracting (Ivalua); and Maintenance and Asset Management (IBM Maximo).

"As we went through the process, we discovered that each of the business functions had unique requirements that we were not finding in packaged ERP systems," says Eric Fechter, Director, Renew Business Systems, Teck. "Our existing system was highly customized, but we wanted to avoid this route. At that point, we decided to choose a composable ERP and then integrate the pieces on our own."

The composable advantage

The composable system aligns platforms to improve productivity, safety, and efficiency as well as provide access to data to enable better decision-making. The RBS project uses hundreds of APIs to move data as needed between the various systems using a publish-and-subscribe model that makes information available to any system that requires it.

"Our decision to use composable ERP opened up a lot of opportunities," he says. "Any time we have a new need that is not met by one of our current platforms, we can always add another platform that will provide a specialized piece and we can integrate it easily to work across all of our platforms."

The system integration is handled by MuleSoft, and Capgemini was chosen to manage this piece of the project. Capgemini has been a Teck partner on several projects over a number of years, and its work on integrating MuleSoft means Teck can implement faster and use multiple platforms in ways not offered by traditional ERP systems.

"Renew Business Systems really sits at the middle of our business foundations," Fechter says. "Not only do we integrate business information like finance and operations, but we also take sensor data and other readings to help us do things like dynamic depreciations to run our preventative maintenance and other time-based or meter-based readings."

"Sustainability is very important to Teck," he says. "It is not just how we do business; it is our business. One of our core platforms specifically deals with health, safety, environment, and community engagement. In addition, our maintenance and asset platform is capturing sensor data to do things like monitor our carbon statistics."

Moving to an agile mindset

Teck was historically a waterfall deployment shop, but it chose an agile path with RBS nearly three years ago. Now it can do much smaller deployments and more rapidly address problems presented by business customers.

Capgemini worked with Teck to implement Agile practices. “When Teck went down the composable ERP route, we knew traditional waterfall would not work,” Fechter says. “As we looked across multiple platforms, multiple implementation partners, and the need to integrate, an Agile practice was the only way that we were going to be able to make everything come together at the same time.”

The partners also developed a pod structure, and Capgemini also advised Teck on governance and structure for managing centres of excellence.

“We use pods within our agile practices as we look for ways to increase our speed of delivery, as well as maintaining competence and expertise in specific areas,” he says. “Using pods keeps those teams together and working on consistent projects has really helped us in our agile world.”

Preparing for growth

One major new focus is an expansion of the company’s copper portfolio, and Teck plans to support this by using MuleSoft and other middleware to increase the base number of platforms and to ensure information moves seamlessly across the business. The improved flow of information RBS delivers means the company can deploy new mines in a shorter timeline.

“We have moved data from our HR system to our maintenance system, from maintenance to finance, and from finance to procurement seamlessly,” he says. “We run millions of transactions a day through this system.”

A key RBS design principal is keeping employees in one system instead of needing to learn multiple new platforms. It reduces the training time and streamlines day-to-day operations. “One of the most important measures of success is the adoption by employees,” he says. “Our ability to move with new technologies in a modern workplace is critical for Teck’s success moving forward.”

Finding the right partners

“The choice to go with a composable ERP is not a light decision to make,” Fechter says. “It increases the number of questions you need to ask your partners. It increases the number of partners you need to have, and it also increases the trust you need to have in each of your partners.”

“As a central partner, Capgemini sits right at the centre of the RBS project. The MuleSoft integration is our integration engine and Capgemini has had a hand in the success of all of our core platforms and ensured we had the ability to move data quickly from one system to another.”

“Capgemini has been an excellent partner over the years for Teck and especially with our RBS program.

They bring a lot of industry experience as well as experience from other industries and clients so we can determine if it applies to our work.”



- ERIC FECHTER

Director,
Renew Business Systems, Teck



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