

Votorantim Cimentos is one of the largest cement manufacturers in the world, with global companies including St Marys Cement and Canada Building Materials (CBM) in North America. St Marys CBM is a leading provider of aggregates and ready-mixed concrete from 40 plants and operates 12 sand and gravel operations and quarries. The company promotes infrastructure improvements and sustainability for long-term positive impact.



Mine Planning

- Analyze activity with measurements and images to plan extraction work
- Measure extracted volume of stripped overburden
- Design plans and track progress for progressive rehabilitation



Topographic Survey

- Collect views of entire sites for detailed traffic safety maps
- Measure exact active work areas to classify land for tax reporting
- Frequent surveys for current information and saves cost of hiring third party survey

5k+

Acres Mapped
Per Year

8

Missions Avg
Per Month

10

Kespary Cloud
Users

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I love the fact that I can go to one of our sites, fly the drone and then look at the data the same day and use it to work on mine and rehabilitation planning.

Jen Bernard

Land and Resource Coordinator | St Marys CBM



Accuracy

Precise mine planning measures exact volumes for accurate extraction and rehabilitation, maximizing fertile soil productivity and reducing costs.



Safety

Safer work environment compared to hiring 3rd party surveyors who are not familiar with the job site and require new orientation each visit.



Efficiency

Same day access to high resolution images from the Kespary Cloud enables fast updates for mine planning designs and site traffic map.



Saving Money on Taxes

Kespri helps CBM save money on tax assessments. Aggregates companies pay industrial tax on land that is in production, while land that is not in production is assessed at a lower tax rate. CBM uses Kespri to get a snapshot of the entire site to identify and measure land that is already rehabbed or not extracted yet, to get a tax break on that portion. Instead of paying industrial tax on the entire site, CBM has documentation to justify a tax break on certain areas, which saves significant cost.



Mapping a Safer Work Zone

In Ontario, the Ministry of Labour (MOL) requires every site to have a detailed traffic map. CBM found a unique use for their Kespri system to use the high resolution drone images to create the traffic maps. The maps are essential for CBM's safety program to ensure that vehicles and equipment entering the pit have an updated image of the site layout with current stockpile locations and active work areas. The complete aerial images are on the Kespri Cloud and available to download quickly, making it much simpler to keep the maps updated.

15

Minutes Average
Inspection Time

20x

Faster Data Compared
to Hiring a Survey

100%

of Site Surveyed in
a Single Flight

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We chose Kespri because the system was so efficient at providing the information and the capabilities that we were looking for. A big factor was that the Kespri Cloud supports the background data processing.

Jen Bernard
Land and Resource Coordinator
St Marys CBM