



Case study - SNC Lavalin Stavibel

VisionLiDAR to improve the security in Quebec mines

SNC Lavalin Stavibel has been using VisionLiDAR since 2016. Before, the Land Surveying department used to survey using an ordinary total station. Now, thanks to the acquisition of a terrestrial LiDAR scanner as well as VisionLiDAR, Geo-Plus's Point Cloud processing software, they can detect different surface movements, and focus on their work in mines and other industrial projects.

Jean-François Belzil, former Land Surveyor with the firm, and user of VisionLiDAR, has been quite impressed by all the time he saved thanks to his software.

"VisionLiDAR 2017 and its online visualization feature is a big step forward for us. In fact, it facilitates the data and Point Cloud sharing process between us and our clients who don't necessarily have a software capable of viewing and allowing them to add dimensions and informations directly into the Point Cloud just by using a Web browser." Mr. Belzil can now use more credible and precise data, as well as offering his services to a larger range of industrial businesses.

"Each month, we have to maintain an update of the data concerning a mine in northern Quebec. Thanks to VisionLiDAR, we can compare reports and analyze the differences between one surface and another," says Mr. Belzil.

The Land Surveyor's goal has been to improve the security in Quebec's mines. "By using LiDAR technology, we can now know more precisely if the surface is moving and at what speed it's moving. Many workers die each year due to a lack of information on soil and mines surfaces. Today, thanks to LiDAR technology, we are hoping to save lives." Jean-François Belzil is currently working on registering two Point Clouds to compare the movements in time of a mine's surface.

