



LARUS INNOVATION HIGHLIGHT



COMPANY OVERVIEW

Larus Technologies is a Canadian AI/ML company that develops cost effective real-time AI/ML solutions through its products and expertise. Larus developed and successfully sold its proprietary AI/ML products, (Total::Insight™, Total::Perception™ and Total::Vision™), to the defence, security, and commercial enterprise sectors. They continue to work with their partners to further integrate AI/ML capabilities within the larger marketplace for intelligent systems, simulations, sensor data collection, exploitation, and fusion.

LOCATION: OTTAWA, ON

TECHNOLOGY



Artificial Intelligence

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OUTDATED DATA INTELLIGENCE PROCESSES

With an increasing amount of information, traditional methods to process incoming data by intelligence analysts is not sustainable. Traditional methods lead to intelligence arriving too late or incomplete to impact decisions and operations. Total::Insight™ addresses this limitation by shifting the focus of the intelligence process from individuals to an AI/ML based process. The solution functions by exploiting vast amounts of real-time data from varying traditional data sources. By harnessing the growing open-source data environment and the vast amount of archival information available, Total::Insight™ provides decision makers time-critical intelligence and knowledge with greater depth and reliability.

SMARTER INTELLIGENCE ON-TIME

Total::Insight™ sifts through massive amounts of available data, learns the underlying trends, and predicts future behaviour based on past ones. Through its analysis, the solution un-masks targets that would ordinarily be left undiscovered, reducing the operator’s workspace noise and clutter. Done in real-time and through numerous operational deployments, Total::Insight™ provides advanced big data and predictive analytics within the defence and security domain.

IMPROVING PRODUCT SCALABILITY

During their CENGN project, Larus developed a deeper understanding of hardware and software bottlenecks that could be addressed to improve the product’s scalability. The project was based on a variety of open source, big data projects including Kafka, Kibana, Ignite, and Elasticsearch. The Kubernetes cluster that CENGN provided was standards-compliant and allowed Larus to optimize its deployment of Total::Insight™ HQ in a way that should work with a wide variety of customers. This project also identified possibilities to improve Total::Insight™ HQ’s deployment process and performance.

“Our project with CENGN helped Larus identify opportunities to improve the deployment process and the performance of Total::Insight™ HQ thus allowing us to scale and better handle ever-increasing data throughputs.”

Rami Abielmona

VP Research and Engineering

Larus Technologies

