

Ground Breaking News

MICA NETWORK UPDATE

CEMI developed the [MICA Network](#) (Mining Innovation and Commercialization Accelerator) to connect innovators in every sector of the Canadian economy to regional mining clusters across the country. MICA is designed to maximize all possible synergistic opportunities in the national innovation ecosystem to meet the needs of the natural resource sector, in Canada and globally. As an innovation accelerator, MICA will capitalize on past and future investments in the mining sector, helping innovators achieve commercial success by closing the gap between technical innovation and commercialization. Participants in the national cross-sector commercialization network will help resolve the social, environmental and economic issues in the mining sector, while MICA's network activities will focus on increasing domestic and export sales and attracting additional investment to support the scaleup of innovative Canadian-based small-to-medium sized enterprises (SMEs). These companies are among those committing over \$80M to leverage MICA's request for \$40M of federal funding.

With a focus on clean-tech solutions, MICA will use the global brand strength of the Canadian mining sector to provide a gateway for Canadian companies to sell into global mining jurisdictions. Mobilizing increased export capacity will grow the number and scale of SMEs, stimulate a rapid economic recovery in Canada and help transition to a new low-carbon economy.



REVOLUTION MINING

Congratulations to Lorrie Fava on the acquisition of her company [Revolution Mining Software](#) by [RPMGlobal](#) of Australia! Revolution's Schedule Optimisation Tool (SOT) TM, is a cutting-edge financial mine scheduling optimization solution that is industry's only strategic financial optimizer for underground mines, enabling mine planners to improve mine performance by optimizing the net present value (NPV) of the mine production schedule.

SOT emerged out of research undertaken by [Mining Innovation, Rehabilitation and Applied Research Corporation](#) (MIRARCO), at Laurentian University. CEMI was pleased to support the further development of Revolution's Attain TM software solutions as part of the Ultra Deep Mining Network. Being acquired by a company of RPMGlobal's calibre is global recognition of Lorrie's achievement in building Revolution Mining into a successful company in Sudbury.

THE PROGRESSIVE MINING AGENDA

METAL MINING INNOVATION AND THE NEW SOCIAL CONTRACT

Position Piece #5 - Mining on an industrial scale is one of the two essential activities that are required to sustain a global population of over eight billion people; the other is agriculture. For over 40 years the mining industry has offered communities located adjacent to valuable mineral resources a higher standard of living than was available by traditional means. At the same time, this economic activity often introduced new social disparities into these communities and negatively impacted adjacent ecologies. The growth of the modern mining industry reflects the dilemma of progress; economic activity that brings benefits to billions can also negatively impact communities and the environment. [Continue reading >](#)



"Boulby Mine" by cvtperson is licensed under CC BY-SA 2.0

Crush It!



CEMI is pleased to continue to work with NRCan on enhancing Canada's mineral processing ecosystem and supporting its emerging clean tech innovations.

CANADIAN MINERAL PROCESSING ECOSYSTEM MAP

CEMI's Canadian Mineral Processing Ecosystem map (3ft x 6ft), available for purchase at [Global Advantage Consulting](#)



Natural Resources
Canada

Ressources naturelles
Canada

<https://impact.canada.ca/en/challenges/crush-it>

In May 2020, CEMI held 2 information sessions about [MICA](#). One for Mining Companies and Plant Operators, the other for Canadian SMEs, OEMs and Innovators. Both Webinars provided participants with some insight about the program and how organizations can participate. The response was enthusiastic with over 200 organizations participating.

We currently have 70 Letters of Interest from organizations across Canada supporting the MICA Initiative.

Interested in participating?
visit www.cemi.ca/mica
contact us at info@cemi.ca

NEWS/PUBLICATIONS

The Sudbury Star

[\\$40M sought for mining network](#)

Funds would help firms get new technologies to market

June 24, 2020



UPCOMING EVENTS

WEBINARS

[Future of Blast Design: Optimize Mine to Mill through Blasting](#)

iRing Aegis

July 14, 2020, 1-1:30 pm EST

[Next Generation Sample Preparation with Automation](#)

ColdBlock Technologies Inc.

July 22, 2020, 1-1:30 pm EST

[Lean Thinking In Creating and Adopting Mining Innovation](#)

RELAMCO

July 29, 2020, 2- 2:30 pm EST

Fostering Innovation

Implementing Excellence

WHY ENGAGE CEMI?

CEMI helps solve mining industry challenges. We accelerate the delivery of commercially viable innovations to improve operational performance. Simply said, our services are designed to bridge the gap between a challenge and a solution.

OUR SERVICES

- **Innovation Scouting**
Global search for current and emerging pre-commercial solutions
- **Challenge Identification**
Review of existing challenges from technology road maps and uncovers hidden challenges using a systems analysis process
- **Challenge Solution Matching**
Matches current and emerging pre-commercial solutions with validated industry challenges
- **Commercialization Services**
CEMI conducts innovation and commercialization gap analysis assessments and offers services to bridge identified gaps

CEMI'S BUSINESS MODEL

- Fee for services rendered
- Success based fee for services
- Commission based agreements
- Royalty and licensing agreements
- A combination of any of the above

PARTNER AND CLIENT SEGMENTS

Our services are designed to bridge the gap between a challenge and a solution. To do that, organizations are matched and grouped together based on their needs, and to deliver the best possible outcomes.

STAY INFORMED

Receive event notifications, CEMI Newsletter and other special announcements. Ask us to add you to our mailing list. Contact info@cemi.ca

ADDRESS

105 Elm Street, Unit A
Sudbury, Ontario P3C 1T3

PHONE: 705-673-6568
FAX: 705-671-3878
E-mail: info@cemi.ca

www.cemi.ca
app.cemi.ca

CEMI COMMERCIALIZATION SERVICES ENGAGEMENTS



Spinetector is an upper-body safety costume designed to lessen or eliminate injuries caused by rock-fall, the impact of heavy machinery and tools on the spinal cord of the vertebral column, shoulder section, kidneys as well as the rib cage to be worn by workers in mining and high-risk construction companies.



CleanTech Geomechanics Inc. (CTG)

Innovative technology for geo-Energy Storage Systems (geo-ESS) called Cased-Wellbore Compressed Air Energy Storage (CWCAS). Utilizes low volume, high pressure compressed air energy storage system for renewable energy sources. Mining applications: arbitrage, behind-the-meter power generation, and load levelling.



Provides accurate positioning and navigation services for indoor and outdoor complexes. No additional hardware required. Turn by turn "blue dot" wayfinding accurate to within 1 meter (100 cm). Platform is off the shelf mobile/kiosk/web ready. Can be run locally or via the cloud. Meets all privacy standards and is compatible with IOS and Android. Can run as a stand-alone app or integrated very easily into an existing app.

Greeter.AI

GREETER uses artificial intelligence (AI) to encourage, monitor and enforce compliance with health and safety protocols, including COVID-related health protocols. It can be used to improve health, safety, and operational outcomes within mining. It leverages cameras + AI to detect unsafe working conditions (e.g. missing PPE, lack of physical distancing and hazardous equipment usage/situations).



Enables true IT-OT integration and facilitate intelligent & autonomous end-to-end mining operations with Sensital's iBOTics IoT Platform. Join the Sensital overview webinar on September 2, 2020 to find out more about this platform.



CEMI is developing a continuous ore or waste haulage system to improve throughput in both development and product faces. This new system will result in 100% utilization of the equipment while it is removing broken rock from the working face.

Contact cnyabeze@cemi.ca for more information.

For more [Commercialization Services Engagements](http://www.cemi.ca/commercialization-projects) visit www.cemi.ca/commercialization-projects

SUPERCLUSTER MEMBERSHIPS

CEMI is pleased to be a member of all the Superclusters funded by the [Canadian Government Superclusters Initiative](#). We will be collaborating with the Superclusters to identify opportunities for mining application in Supercluster funded projects and activities.

- Ocean Supercluster (based in Atlantic Canada)
- SCALE.AI Supercluster (based in Quebec)
- Advanced Manufacturing Supercluster (based in Ontario)
- Protein Industries Supercluster (based in the Prairies)
- Digital Technology Supercluster (based in British Columbia)