









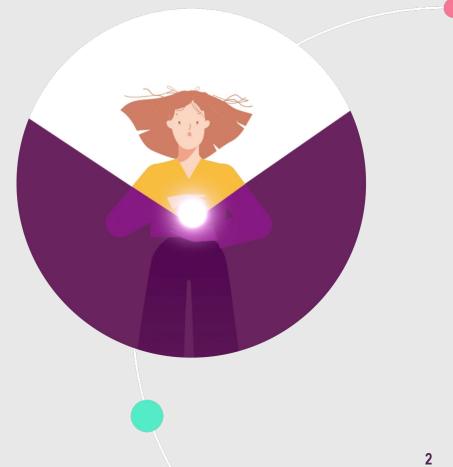


FORCES ARMÉE CANADIENNES

Your ideas. Our support. **Unlimited possibilities.**

IDEaS connects Canada's toughest defence and security challenges with creative thinkers, providing them with the resources and guidance they need to bring new solutions to light.

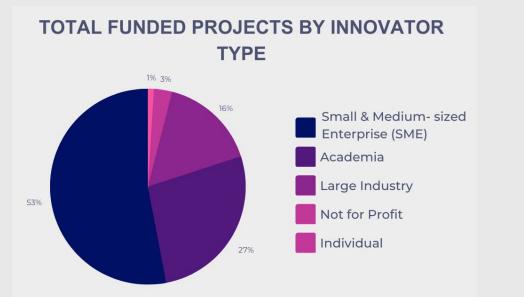
\$1.6 Billion over 20 years to tap into external innovation.

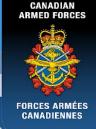




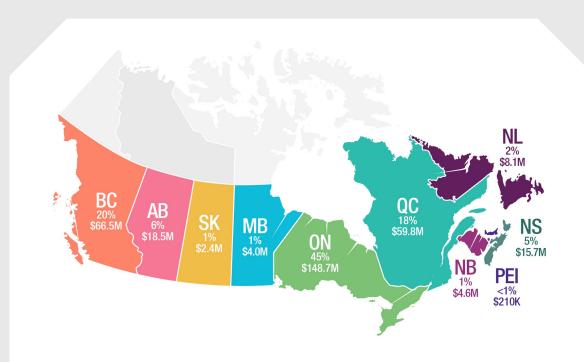
Program participation

- Across all **75 challenges**, IDEaS has so far committed and spent **\$330.4M**.
- The program has funded 664 projects with over 298 unique Canadian organizations across all 10 provinces.





Total \$ Committed & Spent per Province





IDEaS INNOVATION FOR DEFENCE EXCELLENCE AND SECURITY







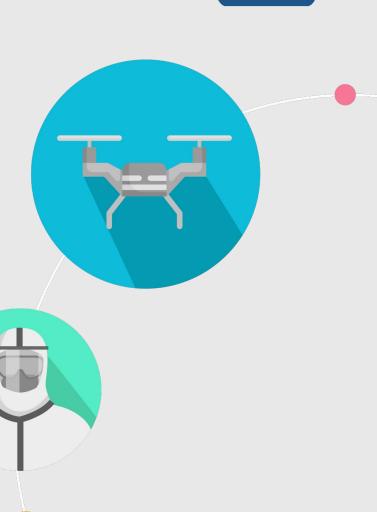
IDEaS is preparing for the next generation of threats and risks...to leap ahead of what's next

Some of our areas of interest:

- •Autonomous vehicles
- •Space defence
- •Sustainable operations
- •Enhanced camouflage

And many, many more...

- •Data analytics
- •Cyber defence
- •Network security
- •Drone technology







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Vibrant innovation community Bring industry, researchers and academics together. **Open competition of ideas** Find multiple solutions to challenges faced by DND/CAF. Validated innovative solutions Advance the most promising technologies along the innovation continuum.







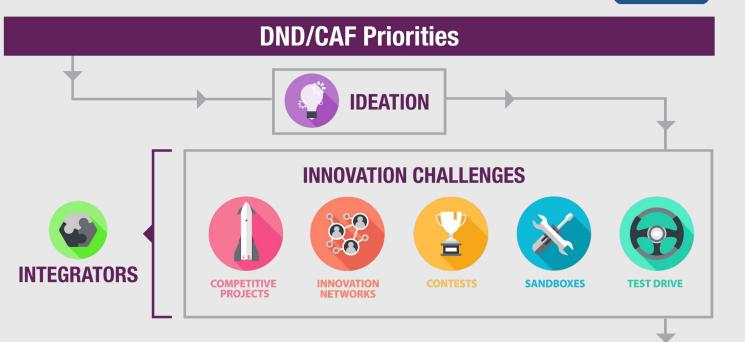


CANADIENNES

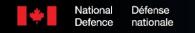
How IDEaS delivers

IDEaS is intended to help foster solutions at any stage of development that have potential defence and security focus and align with DND/CAF priorities.

From early research and development to prototyping and testing your concepts, we help advance your technology.



Defence Capability





Benefits to you: Funding and support

- IDEaS has around \$85 million in funding annually to develop, test or build your concepts
- Post-IDEaS support: Partnerships with other government funding organizations enables referrals of IDEaS projects







Benefits to you: Intellectual Property

- Innovators own the IP they develop under this program.
- The Crown gets a license to use and have used for its own purpose but cannot exploit it commercially. Standard Government of Canada contract conditions apply.
- You are able to further commercialize your products after they've been through the program.

Support during IDEaS projects

• Partnership with the Canadian Intellectual Property Office delivers training to our innovators on IP, and helps innovators get their questions answered to protect their IP.











Artificial Intelligence is everywhere...

- •Of the 75 challenges released through IDEaS, around 65% 70% of all proposed solutions involve AI components
- •No AI Challenges were released until now...
- •Current Contest Robotics and Artificial Intelligence (AI)

Proactive Deterrence Al Deterrence: Science, Theory, and Practice	Combining for Auto	f Concealed Explosives Al with SWIR Camera matic Detection of Explosives		
Staying Four Steps Ahead – Understanding & Predicting the Behavior of Adversaries		All Systems Go! Predicting & Optimizing Maintenance for Military Platforms		
Al Support for Behaviour Understanding and Prediction in Naval Operations		Advanced Al-based Service to Predict and Optimize the Availability of Military Systems		

Pushing Technology Forward: Advanced robotics platforms and control solutions

The Robot Round-up contest calls for Canadian innovators to demonstrate to DND/CAF how advancements in robotic platforms and methods of control can be leveraged to help CAF members accomplish high risk tasks.

IDEaS has invited five participants to demonstrate their solutions to DND/CAF stakeholders in the Robot Round-up contest.

Contestants will demonstrate their technologies at a live later in the year with the best technologies being awarded a cash prize and the possibility of additional funding.







Pushing Technology Forward: Testing Solutions for DND/CAF

Challenge: What is in Full Motion Video? Monitoring and interpreting the high volume of Full Motion Video (FMV) feeds.

Multimodal Input Surveillance & Tracking (MIST)

MIST is an integrated hardware and software Al solution that detects, tracks, and identifies multiple objects, person and events of interested across multiple sensors.



TERRASENSE

COMPETITIVE PROJECTS

10 Innovators awarded \$200K3 Innovators awarded \$1M18 months of solution development



TEST DRIVE

TerraSense MIST solution selected to be acquired by IDEaS **TEST DRIVE** for CJOC and CANSOFCOM testing \$10.5 Million

OUTCOME FOR CAF:

- Multiple sensors and multi-client integration
- Processes high volume of FMV with less demand on CAF/DND
- "Make Sense" | Decide | Act in real-time

CJOC - CANSOFCOM



Key updates

- The second IDEaS CUAS Sandbox took place in September 2022. A new one is planned for 2024.
- New Innovation Networks call on Quantum Technology has closed, 50 applicant proposals are now being evaluated.
- Our next Call for Proposals under Competitive Projects is slated for Fall 2023.









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How to participate

- •Visit our Website: Canada.ca/defence-ideas
- •Subscribe to our mailing list (on our homepage)
- Follow DRDC Twitter/LinkedIn and look for #DefenceIDEaS
- •Email us with any questions: DND.IDEaS-IDEeS.MDN@forces.gc.ca
- •Don't forget to read the applicant guide and apply when a challenge is right for you!

