

Downsview Aerospace Innovation & Research

Collaboration Opportunities and Industrial and Technological Benefits

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DAIR

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Alignment with ITB opportunities

DAIR's offerings strategically align with Canada's Industrial and Technological Benefit (ITB) policy's value proposition.

R&D Enable robust R&D collaboration
Digital Leverage data and innovate
Supplier Development* Assess gaps and advance capabilities
Skills Training Develop, deliver and provide space
Physical Tenancy* Co-locate and share equipment
Networking and Events Access a strong and diverse ecosystem
Media and PR Support and co-ordinated efforts

ITB VALUE PROPOSITION PILLARS		
	Work in the Canadian Defence Industry	Support the long-term growth and sustainability of Canada's defence industry
	Canadian Supplier Development	Support the growth of prime contractors and suppliers in Canada , including small and medium business (SMBs) in all regions of the country
	Research and Development	Enhance innovation through R&D in Canada
	Exports	Increase the export potential and international competitiveness of Canadian-based firms
	Skills Development and Training	Fill skills and training gaps within the Canadian economy to support a more innovative Canada

* In-development



Alignment with Canada's Key Industrial Capabilities

DAIR's areas of research focus align with Canada's Key Industrial Capabilities:

- Additive manufacturing
- Aeroacoustics
- Aircraft interiors
- Anti-icing technologies
- Augmented- and virtual-reality
- Clean technology
- Combustion behaviour of alternative aviation fuels
- Design optimization
- Hybrid-electric propulsion
- Optimization of fuel usage in jet engines
- Micro- and nano-satellite development
- New lightweight and multifunctional materials
- Next-generation landing gear technologies
- Real-time predictive risk and cost management powered by AI
- Robotic on-orbit inspection and servicing of space structures
- Solar-powered, long-range unmanned aerial vehicles
- Unconventional aircraft and component design

Canada's Key Industrial Capabilities (KICs)	
Emerging	Leading Competencies and Critical Industrial Services
<ul style="list-style-type: none"> • Advanced Materials • Artificial Intelligence • Cyber Resilience • Remotely-piloted Systems and Autonomous Technologies • Space Systems 	<ul style="list-style-type: none"> • Aerospace Systems and Components • Armour • Defence Systems Integration • Electro-Optical / Infrared (EO/IR) Systems • Ground Vehicle Solutions • In-Service Support • Marine Ship-Borne Mission and Platform Systems • Munitions • Shipbuilding, Design and Engineering Services • Sonar and Acoustic Systems • Training and Simulation



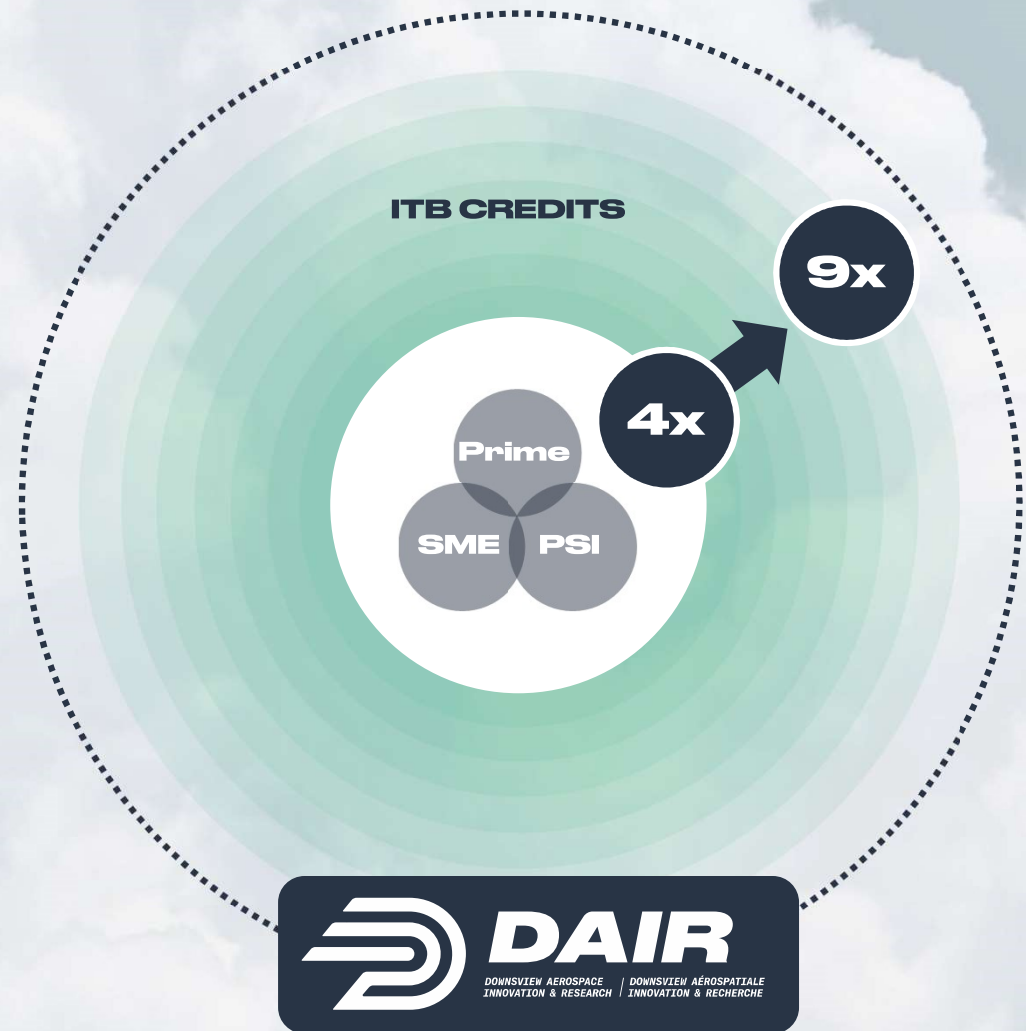
Access to ITB multiplied credit opportunities

Canada's federal Industrial and Technological Benefits (ITB) policy can provide participating Primes with multiplied credits against investments in R&D consortiums that involve Canadian post-secondary institutions (PSIs) and/or SMEs.

DAIR and/or its individual members can qualify as eligible 'recipients' under Canada's ITB policy, specifically SMEs to meet mandatory minimum requirements and partner on R&D and consortia transactions, and PSIs for collaborative research and consortia R&D.

Depending on the type of investment, credits can be multiplied against these industrial investments by a factor of 4 to 9.

To qualify, the Prime must establish or work through an R&D consortium, or through an Investment Framework.



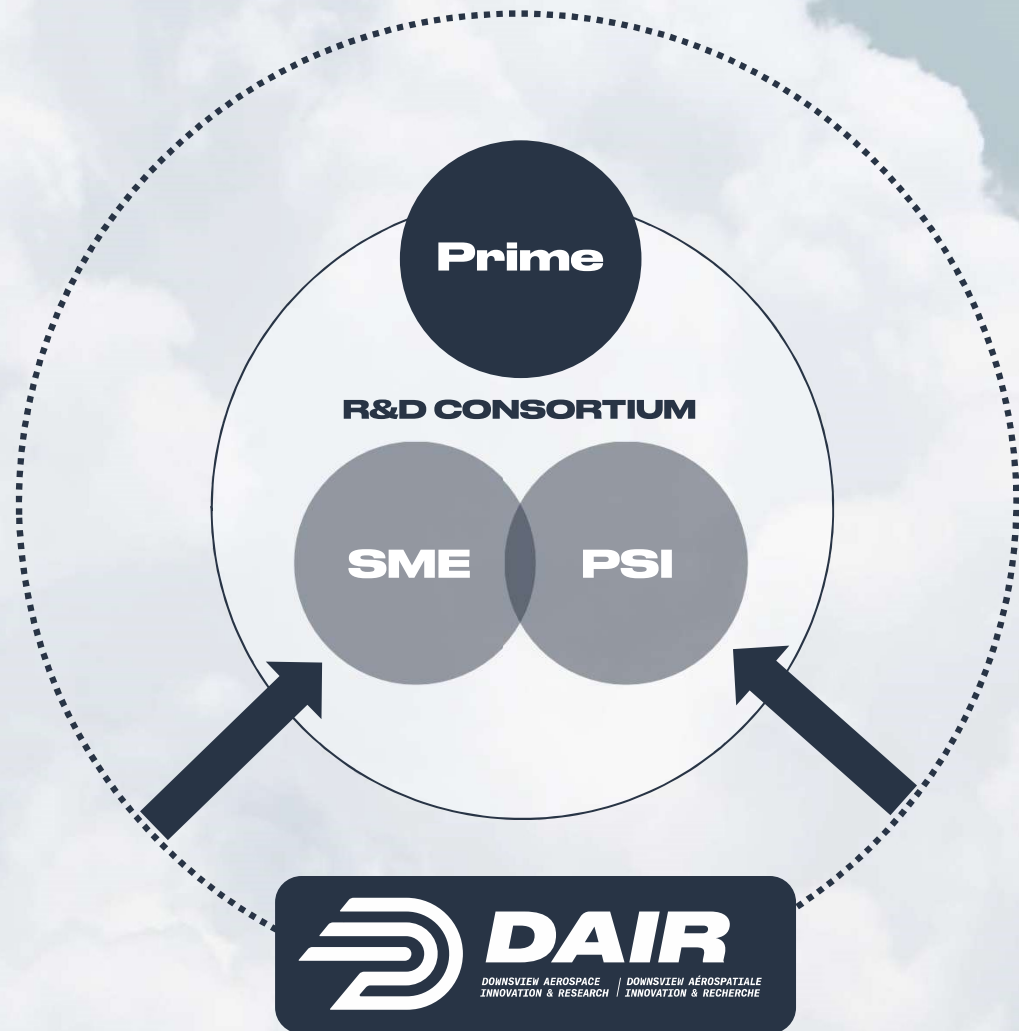
Fast-track ITB transactions


As an established R&D consortium, DAIR offers Primes an expedited way to benefit from Canada's ITB policy.

DAIR can quickly bring SMEs and PSIs to a Prime-led project, including existing DAIR members or select SMEs and researchers to meet specific needs.

Additional advantages:

- DAIR does not take possession of Intellectual Property (IP); each project's IP policy will be determined between the Prime-SME-PSI partnership. DAIR can assist in this process, as required.
- DAIR is available to provide project management, administrative, reporting and other support for ITB transactions.
- DAIR can leverage its strong Government of Canada relationships, including Innovation, Science and Economic Development Canada and the Federal Economic Development Agency for Southern Ontario to obtain information directly from appropriate departments.
- DAIR's experienced and diverse Board of Directors is equipped to provide R&D consortium governance and direction to help Prime partners execute initiatives.
- With a significant investment through DAIR, a Prime may secure DAIR membership and a Board of Directors' seat.





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