



CRITICAL
INDUSTRIAL
TECHNOLOGIES

Critical Industrial Technologies Sector Adoption Program

Accelerating Home Construction through the Adoption of Critical Technologies

Challenge Launch Date	<ul style="list-style-type: none">• March 26 2024
Challenge Submission Deadline	<ul style="list-style-type: none">• May 3 2024
Challenge Statement	<ul style="list-style-type: none">• Ontario has set a goal of building at least 1.5 million homes by 2031 and has assigned the provinces 50 largest municipalities with housing targets to help meet this goal. <p>To accelerate home construction rates, Ontario through CIT initiative is calling for transformational solutions that can significantly accelerate the building process through the adoption and integration of innovative critical technologies and automation in the construction industry Solutions could include, for example, automated manufacturing of prefab housing, or improvements through on-site tools, new products and automation technologies that significantly accelerate the building process.</p> <p>Ontario companies are welcome to submit their ideas.</p>
Timeline	<ul style="list-style-type: none">• Maximum Project duration is up to 1 year
Available funding	<ul style="list-style-type: none">• Up to \$1,000,000• Funding must be matched 2:1 by the Applicant Companies by cash or cash equivalent. Matching contributions can also be provided by Industry Partners.• Cash equivalent can include, but is not limited to, capital costs, salaries, and other operating expenses that will be allocated to the projects
Project Details	<ul style="list-style-type: none">• Applicants are encouraged to form a consortia of partners who will work collaboratively to develop a solution that will have widespread adoption and impact on Ontario's construction industry.• The lead applicant for the consortia <u>must be</u> an Ontario-based SME. SMEs must meet the requirements identified in the Sector Adoption Program Guidelines.

	<ul style="list-style-type: none"> • Applicant Companies must identify at least 1 Industry Partner who will commit to participating in the project as a strategic partner, customer, etc. Industry Partners do not have to be based in Ontario. • Projects must involve the integration, development, adoption and/or acceleration of critical technologies (5G, AI, Robotics, Quantum, Cybersecurity, Blockchain) • Solutions developed through the challenge must have a significant impact for the construction sector, catering to multiple customers and addressing diverse needs
<p>Project Outcomes and Participation Benefits</p>	<ul style="list-style-type: none"> • Develop and implement innovative solutions that significantly accelerate the building process, reducing construction timelines and increasing efficiency. • Create scalable solutions that can be easily replicated and deployed across various construction projects and sectors, fostering widespread adoption and impact. • Successfully integrate critical technologies such as 5G, AI, Robotics, Quantum, Cybersecurity, or Blockchain into construction processes, leading to enhanced productivity and performance. • Foster collaborative partnerships between Ontario-based SMEs and industry partners, leveraging diverse expertise and resources to drive innovation and achieve shared goals. • Proposed projects can be enhancements to existing products/services or new products/services • Implement cost-effective solutions that optimize resource utilization, minimize waste, and reduce overall construction costs, making housing more affordable and accessible. • Enhance the quality and durability of constructed homes through the adoption of advanced construction techniques and technologies, ensuring long-term sustainability and customer satisfaction. • Create opportunities for market expansion and business growth by introducing innovative solutions that meet evolving market demands and customer needs, both within Ontario and beyond. • Generate significant job creation and economic growth for the applicant companies and construction sector and related industries, supporting Ontario's broader economic development objectives.