

10:30am - 12:00pm

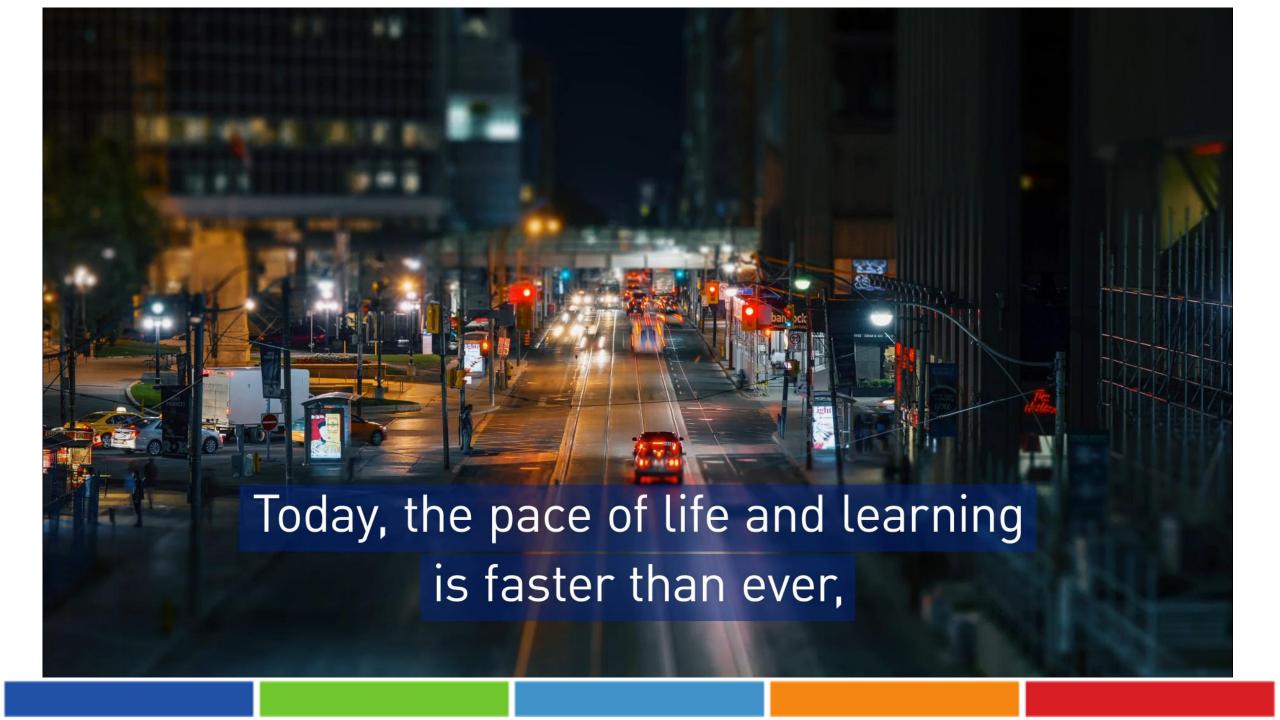
Canada 2067 – Lessons learned in building a national vision for STEM education

Panel Organizer: Bonnie Schmidt Let's Talk Science



The science of a successful tomorrow

Lessons Learned in Building a National Vision for STEM Education



Canada 2067 Resources

(English & French)

Canada 2067 Learning Roadmap

Imagining the future of STEM education

Key Recommendations Overview

Background

In a time when most Canadian your studies before high school graduat and changes in the labour market development of the Canada 2067 youth will be prepared to contribu

Canada 2067 Vision All students develop the full range of skills needed to navigate an complex world and have equal opportunity to study and pursue d

How we teach:

Teachers have the opportunity to participate in professional development at least once per year in areas related to STEM.

Teachers and community partners across regions are linked together, forming dynamic professional learning communities.

Implement competency and inquiry-based curricula and initiatives to help teachers develop the necessary skills to instruct STEM and encourage critical inquiry

How we learn:

Curricula and community learning experiences should include interdisciplinary competency and inquiry-based, and hands-on approaches to learning.

Take advantage of new information and communications technologies (ICTs) to transform teaching and learning into an interactive and student-centred

Provide appropriate training, support and resources for teachers to implement these approaches.

Evolve post-secondary education entry requirements to recognize and value students who have engaged in innovative

What we learn:

All students graduate high school with at least one senior level. interdisciplinary STEM course.

All students engage in hands-on learning opportunities with partners outside the school at least once per year.

Number of students enrolled in STEM-related fields in postsecondary education increases

Who's involved:

STEM learning community partners align their programs with the Canada 2067 recommendations and work together to provide hands-on learning opportunities that a accessible to all students.

Industry aligns 20% of community investment goals in education to support the achievement of Canada 2067 recommendations.

Governments commit at least 1% of STEM research budgets to support the achievement of Canada 2067 recommendations

than my teache

the community are improved

All parents have access to information. and support about STEM education and

STEM and





Canada 2067





THE EVOLUTION OF STEM EDUCATION:

Mars Startup

A Review of Recent International and Canadian Policy Recommendations

10 KEY INSIGHTS GATHERED FROM 1,000 YOUTH ACROSS THE COUNTRY

- Personalized learning
 Education doesn't look the same for every student.
- 2 Student collaboration
 Students work and learn from each other and play a key role in shaping their education.
- Technology in the classroom
 Technology in critical to improving the learning process.
- Changing the education corriculum
 Engage students in science, technology, engineering and nathematics (STEM) early on in their adacation
- react STEM learning to real tills problems in a hands-on Way

- Stadentrasek meaningful relationships with carrieg and transventey adults.
- Critical thinking & problem solving
 Resiliancy and flexibility are excential for today's education and to recreave jobs.
- Self-awareness & counselling STEW education and self-eviareness are connected and help students develop the skills to manage their own improvement
- Stadents Wish for a achool culture that is suggestive, excessing in and inspiring a place where diversity and inclusion are practiced

event videos; career profiles; **Emerald Code web series and more**



Startu

School

Startu

Startu,

Education in Canada

SHAPING THE FUTURE OF K-12 STEM EDUCATION Insights from young professionals and post-secondary students in Canada



scrence canada2067

Canada 2067 STEM Learning Framework: An Invitation to Contribute

Canada 2067 panel

- Bonnie Schmidt, Let's Talk Science
- Andrew Parkin, The Mowat Centre
- Rob Mariani, Hill + Knowlton Strategies @hk_Canada
- Ruth Silver, Groundswell Projects
- Rohan Nuttall, Global Shapers

- @BMSchmidt
- @parkinac









