TRANSPORTATION SAFETY AND TECHNOLOGY SCIENCE (TSTS)

TSTS HUB

The Transportation Safety and Technology Science hub will strengthen collaboration and resource sharing between complementary federal science departments/ agencies and academia to advance transportation safety technology and science in the aviation, marine, railway, and pipeline sectors.

Science priorities:

- Reduce transportation safety risks for Canadians
- Advance new safety technologies for the air, marine, rail, and pipeline sectors
- Investigate accidents to identify safety deficiencies and provide findings to prevent future occurrences
- Improve products, methodologies, and certification standards in the transportation industry
- Provide technical and research services and access to state-of-the-art facilities to stakeholders and clients

TSTS PROJECT AT MONTREAL ROAD

Once completed, accommodating employees from:

- Transportation Safety Board of Canada (TSB)
- National Research Council of Canada (NRC)
  – Aerospace Research Centre, Structures and Materials Performance Laboratory (SMPL)

Construction to begin in 2025 with enabling project and final design development completion expected in 2026

Engagement with Indigenous communities will help inform planning and construction

When complete, the lab will accommodate approximately 260 employees

The TSTS Hub is one of two Laboratories Canada facilities located on the NRC Montreal Road Campus (including TerraCanada). TSTS will bring together the NRC and TSB laboratories from five separate buildings into an updated, shared facility

The facility is scheduled to open in 2030

LABORATORIES CANADA

The Laboratories Canada strategy will advance world-class cross-disciplinary science, enabling breakthroughs and innovation, while remaining ready and agile to respond to national challenges and research priorities through five science hubs:

- Atlantic Science Enterprise Centre
- Cultural Heritage Science
- Regulatory and Security Science
- TerraCanada
- Transportation Safety and Technology Science

ADVANCING UNIVERSAL ACCESSIBILITY

- Fostering equity and diversity
- Inclusion by design in all new science facilities

370K TCO2EQ GHG REDUCTIONS

over 40-year lifecycle
Delivering on Canada's commitments to net-zero

APPROXIMATELY $240M

in benefits for Indigenous businesses and communities across Canada committed to date

APPROXIMATELY 52,000 PERSON-YEARS EMPLOYMENT

in architecture, engineering, trades, manufacturing, and clean tech

OUTCOMES

305,000 m^2 OF SPACE
to be decommissioned, resulting in cost savings

3,000 EMPLOYEES
in safe, healthy workplaces