



Transportation Association of Canada

2022

CONFERENCE & EXHIBITION

OCTOBER 2-5 • EDMONTON, AB

Changing **WAYS** for our Changing **CLIMATE**

CALL FOR
**CONFERENCE
SUBMISSIONS
GUIDE**

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Introduction

The Transportation Association of Canada (TAC) is soliciting submissions for the 2022 TAC Conference & Exhibition technical program.

To Participate in a Presentation Session

SUBMIT A 200- TO 400-WORD ABSTRACT
to be reviewed by a TAC council or committee member

IF YOUR ABSTRACT IS ACCEPTED

You will be required to **submit a presentation, paper and/or poster** depending on the requirements of that technical session (see session descriptions below). Submissions will be reviewed by a TAC council or committee member.

IF YOUR SUBMISSION IS ACCEPTED

You are **expected to present at the Conference in October 2022.**

For more information on submission requirements, submitters are encouraged to review the [Guidelines for Authors & Presenters](#).

Session organizers may invite an author to submit a poster rather than a presentation; this is most likely to occur when too many submissions are proposed for a given session. When posters are requested, papers are optional unless they are a requirement of that technical session (see descriptions below).

Guidelines & Important Information

Submissions must:

- Be submitted using TAC's [conference submission portal](#). When the submission is complete, an email confirmation is sent.
- Be **substantially different** from any papers or presentations delivered through other organizations.
- **Not favour special interests or be of a commercial nature.**
- Submissions will be reviewed for **quality, format, and relevance** to the session topic, and general interest.
- Authors must confirm that their employer and/or related clients are aware and approve of the submission.

- **Authors not adhering to deadlines may be disqualified.**
- Authors are responsible for ensuring submission details and presenter/author information is current and up-to-date.
- **Presentations will be recorded** and made available by TAC as it sees fit.
- Student paper submissions whose principal author is a registered full-time student at a recognized post-secondary institution may be considered for a [Student Paper Award](#). This option must be selected on the abstract submission form.

If the Submission is Accepted

- Submission account holders and presenters/authors will be notified by TAC via email in late June.
- **Presenters must register and pay to attend as a delegate and accept any and all costs** to participate in the conference. Registration and accommodation details/costs will be published on TAC's website in early 2022.
- **Submissions have a limit of two co-presenters per presentation.**
- **Accepted papers will be published** on [TAC's 'Conference Papers' webpage](#), catalogued in [TAC's Library](#) and the [Transportation Research International Database \(TRID\)](#).
- **Presenters will be notified of their scheduled presentation date and time in early August.**

Deadlines

STEP	DATE
DUE DATE: <u>Abstracts</u>	January 25
<u>Abstract</u> notification (accepted/rejected) issued to authors	March 14
DUE DATE: <u>Draft</u> presentations, papers (as required)* and/or posters	April 25
<u>Submission</u> notification (accepted, rejected or revisions requested) issued to authors	June 20
DUE DATE: <u>Revised</u> presentations, papers (as required) and/or posters, if revisions were requested	July 11
Last day to make changes	August 29
DUE DATE: <u>Final</u> presentations, papers and/or posters	Mid to late September (date TBD)
2022 TAC Conference & Exhibition, Edmonton, AB	October 2–5, 2022

* Some sessions require papers in addition to the presentation. Those sessions will require authors to submit both the paper and presentation by April 25.

Questions? Contact:

Christina Ghazal

Meetings & Events Coordinator | cghazal@tac-atc.ca | 613-736-1350 ext. 236

Session Tracks

The conference technical program includes topics related to road and highway infrastructure and urban transportation, all while supporting the conference theme, *Changing Ways for Our Changing Climate*. Topics are organized into tracks aligned with [TAC's councils and committees](#).

Please review all the sessions as many relate to two or more tracks.

AT

ACTIVE TRANSPORTATION

MO

MAINTENANCE & OPERATIONS

AM

ASSET MANAGEMENT

PV

PAVEMENTS

CC

CLIMATE CHANGE

RS

ROAD SAFETY

CV

CONNECTED & AUTOMATED VEHICLES

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SMALL MUNICIPALITIES

CO

CONSTRUCTION

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SOILS & MATERIALS

DA

DIGITAL APPLICATIONS

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STRUCTURES

EN

ENVIRONMENT

TO

TRAFFIC OPERATIONS

GD

GEOMETRIC DESIGN

TF

TRANSPORTATION FINANCE

IT

INTELLIGENT TRANSPORTATION SYSTEMS

TP

TRANSPORTATION PLANNING

MM

MOBILITY MANAGEMENT

WD

WORKFORCE DEVELOPMENT

ACTIVE TRANSPORTATION (AT)

AT

ORGANIZED BY THE ACTIVE TRANSPORTATION INTEGRATED COMMITTEE

Cycling Solutions: Overcoming Challenges and Barriers through Design

Presentation Session (Papers Optional)

AT

GD

Cycling infrastructure has greatly evolved over the past decade with new design treatments such as protected intersections, separated cycling facilities, and bus stop integration. Design practices by jurisdictions seek to overcome new challenges and barriers in designing safe cycling infrastructure, and treatments are often implemented in advance of formal design guidance. Submissions could address:

- Designs for elements that are beyond the available guidance
- Innovative designs to address and improve operations and safety
- Solutions to overcome challenges and barriers to implementing cycling infrastructure
- Designing for interactions between different modes including cyclists, pedestrians, motor vehicles, and transit

ASSET MANAGEMENT (AM)

AM

ORGANIZED BY THE ASSET MANAGEMENT COMMITTEE

Asset Management and Climate Change

Presentation Session (Papers Optional)

AM

CC

This session will further the conversation and share knowledge on the integration of climate change considerations in asset management. Submissions may include adaptation to climate change and/or efforts to mitigate climate change through emissions reduction. The focus should be on network-level asset management planning.

Asset Management of Gravel Roads

Presentation Session (Papers Optional)

AM

MO

This session will further conversation and share knowledge with respect to the management of gravel roads. Submissions could address topics including but not limited to:

- Condition Index parameters and targets
- Deterioration modeling, treatment timing and decision models
- Inspection tools, technology, and methodology
- Challenges incorporating gravel roads into existing surface management approaches
- Best practices in gravel road management

Innovations in Asset Management

Presentation Session (Papers Optional)

AM

This session will highlight innovations in asset management. Submissions could address topics including, but not limited to:

- Innovations in data collection
- Innovations in data
- Innovations in asset management applications and reporting

Technology in Asset Management/New Data Sources

Presentation Session (Papers Optional)

AM

This session will highlight technologies used for asset management, and new data sources for asset management systems. Submissions could address topics including, but not limited to:

DA

- Phone and tablet apps
- AI and machine learning
- Drone surveying
- Video and image processing
- Lidar sensing, radar and laser scanning

CLIMATE CHANGE (CC)

CC

ORGANIZED BY THE CLIMATE CHANGE INTEGRATED COMMITTEE

Meeting Climate Change Challenges post COVID-19 Pandemic

Lightning Presentation Session (No Papers)

CC

COVID-19 has generated public concerns about transit travel, and new live-work relationships. How to integrate climate change considerations into transportation planning and engineering is something to be considered in light of the pandemic and evolving green technologies. This session will include short presentations that focus on lessons learned from projects related to climate change responses post COVID-19. **Each presentation should be no more than 6 minutes long, describe how a project addresses climate change issues, tell a compelling story, share lessons learned, and identify best practices across all modes of transportation.**

Municipalities and Governments Acting on Climate Change

Presentation Session (Papers Optional)

CC

Canadians are facing the impacts of extreme weather due to climate change including floods, heat waves, coastal erosion, permafrost melting, and so on. The need to reduce GHG emissions and adapt to the changing climate is more obvious than ever, and our municipalities and governments are taking action. This session will focus on municipal and governmental actions to mitigate GHG emissions and to adapt to climate change in the transportation sector. What are the challenges faced by your municipality/government, what's in your action plan, how are you mobilizing your community, and what results have you achieved? We want to know it all!

PIARC and Canadian Challenges in Developing Road System Resilience

Presentation Session (Papers Optional)

Organized by the Canadian National Committee of the World Road Association (PIARC)

CC

The World Road Association (PIARC) 2020-2023 Strategic Plan has a focus on sustainability and resilient infrastructure. Canada is well represented on PIARC technical committees and we are working with members from other countries to develop road system resilience to the impact of climate change. The changing climate represents a significant risk to Canadian transportation infrastructure. This session will highlight challenges and lessons learned from vulnerability assessments and adaptation of transportation networks to mitigate the impact of climate change.

GD

AM

Submissions could address:

- Vulnerability
- Adaptation measures and design improvements
- Melting permafrost and ice roads
- Flood and erosion
- Asset management

Transportation Infrastructure—Getting to Net Zero

Presentation Session (Papers Optional)

CC

CO

MO

Fuel combustion by vehicles is a major source of GHG emissions in Canada. But there are two lesser known GHG sources linked to the transportation sector - embodied carbon in the materials used in our infrastructure and GHGs emitted during construction and maintenance. This session will feature presentations on embodied carbon for different materials used in transportation infrastructure, as well as projects and techniques to reduce GHG emission from construction and maintenance activities - considering equipment and transport of materials and labour.

Submissions could address emerging procurement approaches, technologies and methods that provide a pathway to net zero.

CONNECTED & AUTOMATED VEHICLES (CV)

ORGANIZED BY THE CONNECTED & AUTOMATED VEHICLES TASK FORCE

CV

CAV Applications – Infrastructure Maintenance and Commercial Freight

Presentation Session (Papers Optional)

CV

This session will explore the use of CAV technologies for purposes other than moving people, including freight transport (e.g. truck platooning, last-mile deliveries, sidewalk robots) and right-of-way maintenance (e.g. snow clearance). Submissions may address issues including, but not limited to:

- Research and testing
- Policy and regulation
- Cybersecurity
- Safety
- Partnerships
- Implementation

CONSTRUCTION (CO)

ORGANIZED BY THE PUBLIC UTILITIES MANAGEMENT SUBCOMMITTEE

CO

Changing Utilities Management for a Changing Climate

Presentation Session (Papers Optional)

CO

Utility infrastructure is the backbone of our modern way of living. Like all other aspects of our world, it is under pressure from climate change. Increased storms, flooding and other impacts

CC

require us to rethink how we design, maintain and map our aerial and underground infrastructure. This session will highlight processes being evaluated and modified to help build climate-resilient utility infrastructure.

ENVIRONMENT (EN)

ORGANIZED BY THE ENVIRONMENT & CLIMATE CHANGE COUNCIL

EN

Fish Passage Considerations in an Ever (Climate) Changing World

Presentation Session (Papers Optional)

EN

Watercourse crossing structures can become barriers to fish passage and threaten fish populations if they are not properly designed, constructed and maintained. Provincial and federal regulatory requirements have been established to ensure fish passage occurs through transportation-related watercourse crossing infrastructure. To meet these requirements, a complex blend of biological and engineering principles must be considered – and climate change presents a further complication. This session will see fisheries biologists, engineers, other professionals and agencies share information regarding the tools, perspectives and technical approaches that can help the transportation sector address climate change as it pertains to fish passage.

CC

Managing Environmental Liabilities at Maintenance Depots

Presentation Session (Papers Optional)

EN

Government entities are required to report environmental liabilities for contaminated sites in accordance with PS3260. For highway and road maintenance facilities, significant liabilities can be associated with storage and handling of salt and brine for road de-icing. This session will discuss the challenges that public transportation entities face around environmental liability reporting, as well as innovative mitigation strategies. Some of the challenges include consistent assessment and reporting, third-party impacts and estimating procedures, and remediation technologies.

MO

Road Ecology and the Changing Climate

Presentation Session (Papers Optional)

EN

The concept of road ecology has gained significant traction in recent years and is the subject of TAC's 2021 publication *Managing and Enhancing Terrestrial Road Ecology*. There are many ecological considerations to roadways beyond wildlife-vehicle conflicts, and a changing climate presents challenges in designing for future conditions. This session will address topics that could include:

CC

- Climate change impacts on the spread of invasive plant species in rights-of-way
- Low-maintenance and drought-resistant landscaping
- Creation of pollinator habitat
- Changes in conventional mowing practices
- Valuation of natural assets and infrastructure
- Traditional ecological knowledge and Indigenous perspectives

New initiatives, pilot projects, new systems/approaches, case studies and lessons learned are of interest.

GEOMETRIC DESIGN (GD)

ORGANIZED BY THE GEOMETRIC DESIGN COMMITTEE

GD

All Highways Big and Small: Interchanges, Major Facilities, and Two-Lane Highways Presentation Session (Papers Optional)

GD This session will showcase Canada's highways and rural road networks – from large, complex projects to smaller changes that still have a big impact. It will highlight a range of projects, design standards and challenges, along with their geometric design elements.

Designing for Climate Change and Active Transportation Presentation Session (Papers Optional)

GD This session will focus on geometric design that supports active modes of travel and builds equity and inclusiveness for vulnerable road users of different ages and abilities. Where possible, opportunities for climate-resilient infrastructure should be highlighted.

AT

CC

Unconventional Intersections and Roundabouts Presentation Session (Papers Optional)

GD Intersections are required to provide a desired level of service to a diverse set of design vehicles and users, while also accounting for unusual geometry, site conditions and construction challenges. From protected intersections to offset lefts, roundabouts that may or may not be round, and specialized signals beyond red/amber/green, how can geometric design impact and improve outcomes?

Urban Design Challenges—Accessibility, Vision Zero and Complete Streets Presentation Session (Papers Optional)

GD Urban design has changed significantly in recent years, incorporating a growing desire for accessibility, road safety, and complete streets. How are Canadian practitioners rising to these challenges while maintaining the first principles of good geometric design?

AT

RS

INTELLIGENT TRANSPORTATION SYSTEMS (IT)

ORGANIZED BY THE INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE

IT

How ITS Can Help Achieve Vision Zero

Presentation Session (Papers Optional)

IT

As Vision Zero becomes a policy objective for more Canadian municipalities, opportunities for technology to play an important role in road safety are also growing. This session will showcase examples of ITS technologies and applications that have supported road safety and the achievement of Vision Zero.

RS

ITS and Corridor/Lane Management

Presentation Session (Papers Optional)

IT

ITS solutions that increase the efficiency of existing corridors and networks offer an attractive alternative to road expansion as a solution to capacity constraints. This session will highlight challenges, opportunities and examples related to the use of ITS technologies and approaches to performance and post-implementation management.

MAINTENANCE & OPERATIONS (MO)

ORGANIZED BY THE MAINTENANCE & OPERATIONS COMMITTEE

MO

Innovations in Summer Maintenance

Presentation Session (Papers Optional)

MO

This session will feature projects that have addressed challenges in summer maintenance operations and increased the effectiveness and efficiency of operations and/or reduced environmental impacts. Topics could include workforce acquisition, supply chain management, new equipment, new products, new procedures, COVID-19 impacts and opportunities, active transportation, Indigenous opportunities, pavement markings, mowing and more. New initiatives, pilot projects, new systems/approaches, case studies and lessons learned are of interest.

Innovations in Winter Maintenance

Presentation Session (Papers Optional)

MO

This session will feature projects that have addressed challenges in winter maintenance operations and increased the effectiveness and efficiency of operations and/or reduced environmental impacts. Topics could include workforce acquisition, supply chain management, new equipment, new products, new procedures, COVID-19 impacts and opportunities, route optimization, active transportation, Indigenous opportunities and more. New initiatives, pilot projects, new systems/approaches, case studies and lessons learned are of interest.

MOBILITY MANAGEMENT (MM)

ORGANIZED BY THE MOBILITY MANAGEMENT COMMITTEE

MM

Curbside Management

Presentation Session (Papers Optional)

MM

Jurisdictions are experiencing growing demands for curb space to support the movement of people and goods. Factors such as shared micromobility, online shopping and associated deliveries, accessibility, transit service, and new active transportation facilities mean that jurisdictions need new approaches to designing and managing space at the curbside. The pace of change is fast and jurisdictions are juggling multiple priorities. This session will highlight tools, information resources and case studies that can build a shared understanding of the current situation and help practitioners address emerging trends.

AT

Last-Kilometre Goods Movement in Canada—What's Next?

Presentation Session (Papers Optional)

MM

Communities must accommodate and adapt to changes in goods movement while continuing to support economic health, safety, community well-being, inter-jurisdictional cooperation, and overall mobility. This session will highlight data needs, government-industry partnerships, pilot projects, and strategies to reduce GHG emissions from goods movement. Presentations may address communities of all sizes, rural initiatives, new policies, or anything else that enables efficient goods movement in the context of a sustainable multimodal transportation system.

TP

PAVEMENTS (PV)

ORGANIZED BY THE PAVEMENTS COMMITTEE

PV

Innovations in Pavement Management, Engineering and Technologies

Presentation Session (Papers Required)

PV

Submissions may address:

- Innovative designs, tools, techniques or technologies applied to pavement management or pavement engineering
- Case studies of projects involving unique challenges in pavement management or engineering
- Pavement management/maintenance, design and methods of best practices

ROAD SAFETY (RS)

ORGANIZED BY THE ROAD SAFETY COMMITTEE

RS

Road Safety Analysis

Presentation Session (Papers Optional)

RS

This session will focus on data and analysis as inputs to road safety decision making. This extends to a basis for planning, evaluating network performance, prioritization, and post-installation evaluation. It will explore different data sources for road safety analysis, evaluation techniques (e.g. safety performance functions, conflict analysis), asset management, and performance measures and outcomes.

AM

Road Safety Implementation and Assessment

Presentation Session (Papers Optional)

RS

This session will focus on the implementation and evaluation of road safety efforts, and explore the innovative approaches used to implement road safety strategies and the evaluation methods used to determine their effectiveness. The road safety efforts may include system-level strategies (e.g. strategic plans, programs, and policies) or site-level measures. Ideally, assessment would include pre and post studies and the associated collision modification factors (CMF). While a paper is optional, documentation of evaluation findings would be extremely helpful in building industry knowledge, including through possible additions to the CMF Clearinghouse.

Road Safety Planning

Presentation Session (Papers Optional)

RS

This session will focus on experience and innovations in road safety planning. Presentations may focus on any of the various stages of plan or policy development, including but not limited to strategic plans, action plans, mobility plans, plan updates, and equity plans. Lessons learned, methods of engagement, structure, funding, political considerations, use of data, and measures of success are topics of interest.

TP

Road Safety Tools and Technologies

Presentation Session (Papers Optional)

RS

This session will focus on the application and development of emerging and innovative tools and technologies in road safety. Topics could include tools for data collection, monitoring and diagnosis of road safety issues and countermeasures, as well as vehicle solutions and roadside technologies (e.g. sensors) to address road safety problems and address issues such as vulnerable road users, adverse weather conditions, wildlife safety, and so on. Vehicle technologies could include applications or case studies related to connected and automated vehicles or micromobility.

Vision Zero and Safe System in the Canadian Context

Presentation Session (Papers Optional)

Organized by the Vision Zero & Safe System Subcommittee

RS

This session will share information on lessons learned through the implementation of Vision Zero and the Safe System Approach in Canada. Submissions should identify challenges and successes achieved within the regulatory context, and how these were measured. The session will support and align with the Vision Zero & Safe System Subcommittee's ongoing work to synthesize and document current Canadian practice in Vision Zero and the Safe System Approach.

SMALL MUNICIPALITIES (SM)

ORGANIZED BY THE SMALL MUNICIPALITIES INTEGRATED COMMITTEE

SM

Traffic Calming in Small Municipalities – Policies and Implementation Case Studies

Presentation Session (Papers Optional)

SM

Traffic calming is often demanded by residents in almost every urban area. People with subjective and often unfounded speeding and traffic volume issues are vocal and demand

RS

municipalities to install traffic calming measures on residential streets. Requesting traffic speed bump/hump could be one of the major traffic requests coming from residents. Many

TO

municipalities have developed formal policies to handle such requests and to help municipalities implement justifiable traffic calming measures on sound data and evaluation. This session will highlight process, policies, and implementation of traffic calming in small municipalities.

SOILS & MATERIALS (SO)

ORGANIZED BY THE SOILS & MATERIALS COMMITTEE

SO

Green Technology in Roadway/Embankment Materials and Geotechnical Engineering

Presentation Session (Papers Required)

SO

This session will highlight green technology in roadway/embankment materials and geotechnical engineering. Submissions could address:

- Recycling and incorporating recycled materials
- Alternative materials for road construction
- Quantifying GHG emissions for roadway/embankment materials
- Energy and GHG emission reductions through innovative use/design of materials
- Durable construction materials that increase design life
- Field performance of products/methods using recycled materials vs. traditional materials

Innovation in Roadway/Embankment Materials and Geotechnical Engineering

Presentation Session (Papers Required)

SO This session will highlight innovations in roadway/embankment materials and geotechnical engineering. Submissions could address:

- Advancements in design and construction of road and bridge embankments
- Incorporating climate change considerations for geotechnical and pavement materials engineering
- Application of trenchless technology in constructing new infrastructure under existing roadways
- Remote sensing and drone use for geotechnical engineering

Testing and Modeling of Roadway/Embankment Materials and Geotechnical Engineering

Presentation Session (Papers Required)

SO This session will highlight testing and modeling of roadway/embankment materials and geotechnical engineering. Submissions could address:

- Innovative testing and modeling of embankment and road materials, including unbound and bound soil, geosynthetics, and bituminous and Portland cement-based materials
- Development of estimation models for mechanical properties of pavement materials
- Assessment and use of frost and moisture susceptibility
- Seasonal variation mechanical properties of soil and pavement materials
- Case studies summarizing road and/or embankment construction projects with challenges and solutions applied
- Lessons learned from difficulties encountered in road and/or embankment construction
- Long-term performance evaluations of road and/or embankments and lessons learned

STRUCTURES (ST)

ORGANIZED BY THE STRUCTURES COMMITTEE

ST

Transportation Structures

Presentation Session (Papers Optional)

ST This session will highlight informative case studies and experiences in bridge analysis and design, construction, rehabilitation, management and inspection. The consideration of climate change adaptation and mitigation through bridge design and rehabilitation is also a topic of interest.

TRAFFIC OPERATIONS (TO)

ORGANIZED BY THE TRAFFIC OPERATIONS & MANAGEMENT COMMITTEE

TO

#InnovativeTrafficControl

Presentation Session (Papers Optional)

TO This session will highlight innovations in traffic operations and management across Canada, focusing on practical demonstrations of new approaches to solving traffic engineering challenges.

Resilient Traffic Management

Presentation Session (Papers Optional)

TO Major disruptions to traffic systems are becoming a normal occurrence, and such events heighten the vulnerability of transportation infrastructure. This session will highlight the management of traffic and transportation systems during major construction projects, natural disasters or other events.

TRANSPORTATION FINANCE (TF)

ORGANIZED BY THE TRANSPORTATION FINANCE COMMITTEE

TF

The Impacts of New Mobility on Business Case Development

Presentation Session (Papers Optional)

TF The introduction of new mobility solutions and disruptive transportation technologies is affecting individuals' preferences and behaviours, as well as vehicles and transportation infrastructure. This session will highlight the possible impacts of new mobility trends on how agencies develop business cases and project evaluations.

MM

TP

Measuring Infrastructure Sustainability from Planning to Maintenance

Presentation Session (Papers Optional)

TF Infrastructure projects must address a range of sustainability objectives while also meeting technical specifications. Investors, planners, engineers and contractors can all benefit from a sustainability scoring mechanism that measures a project's environmental, economic and social sustainability at all stages from conception to operation. This session will highlight case studies, strategies, challenges, regulations and standards associated with scoring systems, including those already in use such as Envision, CEEQUAL and LEED.

TP

CC

TRANSPORTATION PLANNING (TP)

ORGANIZED BY THE TRANSPORTATION PLANNING COMMITTEE

TP

Applications of Data in Transportation Planning

Presentation Session (Papers Optional)

TP

Measurement has always been an important component of transportation planning, and new approaches to data collection and analysis are revolutionizing the field. This session will feature presentations that show how new data sources or novel applications of existing datasets have helped improve understanding, guide decision making, and engage stakeholders. Preference will be given to submissions that demonstrate:

- Applications and benefits to actual projects, rather than theoretical situations
- Support for transportation planning objectives such as social equity or climate change mitigation and adaptation

Goods Movement

Presentation Session (Papers Optional)

TP

This session will include presentations that address:

MM

- Best practices to move goods safer, faster and better
- Targeted investments and regulations for improved safety
- Data collection practices, policies and regulations
- Public-private partnerships
- Land use planning and community-building initiatives
- Supply chain and logistics practices
- Pandemic-related challenges and opportunities

Health and Transportation

Presentation Session (Papers Optional)

TP

Transportation and health practitioners are working together to improve public health and equity through transportation. Presentations in this session could highlight topics such as:

AT

- Shared values to support active living and integrate health into transportation plans
- Data and tools to help practitioners examine the health impacts of transportation
- Pandemic impacts such as the shift from transit to car use
- Promoting access, not just mobility, in transportation policies and programs
- Aging populations and assisted mobility (paratransit)

Integration of Transportation and Land Use Planning

Presentation Session (Papers Optional)

TP

The goal of integrating transportation and land use planning is widely recognized as vital to more sustainable transportation systems – but is it working? This session will highlight evolving challenges and responses and will explore successes as well as failures. Possible topics include:

MM

- Understanding the two-way relationship between land use and transportation infrastructure
- The influence of land use form, mix, density and design on travel behaviour
- The impacts of transportation and land use on GHG emissions
- Transit-oriented development and mode shares
- Active transportation choices and end-of-trip facilities at new developments
- Parking management strategies
- Seasonal and weather impacts
- Data and tools for performance measurement

Transportation Systems Modelling

Presentation Session (Papers Optional)

TP

This session will highlight new and emerging topics in modelling. Presentations will address why the topic is important, any novel or unique approaches, and transferable lessons learned. Examples could include:

- Accessibility modelling and other GIS applications
- Model creation or retrofit towards the development of:
 - Activity-based models
 - Agent-based/integrated urban system models
- Modelling of transit, cycling and/or walking
- Challenges and opportunities for models in smaller communities
- Goods movement modelling
- GHG emissions modelling
- Challenges and opportunities of multi-resolution models
- Communicating modelling results to the public