Connected Vehicle Workshop

OUR ROLE IN THE CONVERGING CONNECTED AND AUTOMATED VEHICLE WORLDS

Edmonton, Alberta
April 14, 2015
Agenda

- About ITS Canada
- Annual Conference and General Meeting, National Capital Region, May 24-27, 2015
- Connected-Automated Vehicle Technical Committee
- 2017 ITS World Congress, Montreal
- Questions and Discussion
Our Mandate

Our Mission

The mission of ITS Canada is to be the national thought-leader on advanced technologies and their application for Canadian transportation.

Our Vision

We see a new Canadian landscape, brought about by the use of innovative technologies, where expertise in intelligent transportation research, technology and enterprise is seen by Canada and the world as moving people and goods more safely, efficiently and sustainably than ever before and ensures that Canada remains globally competitive.
New Strategic Plan 2015-19

Promote our members interests through:
- Advocacy
- Research
- Technical education
- Networking and Collaboration

Prepare for the unique opportunity of the 2017 ITS World Congress
- Montreal, Oct 29-Nov 2, 2017

What’s new?
- Policy Committee
- Academic Advisory Committee

www.itscanada.ca/strategy
How We’re Organized:

- **Members**
  - Appoint
  - Elect
- **Auditors**
  - Appoint
  - Report Though
- **Board of Directors**
  - Open Dialog
- **Executive Committee**
  - Appoint
- **Governance & Audit**
- **Member Services**
- **Communications & Advocacy**
- **International BD Committee**
  - Develops
  - Int’l BD Strategy
- **ACGM Committees**
- **Technical Committees**
- **Policy Committee**
- **Academic Advisory Council**

**World Congress Board**

**Board Standing Committees**

**Member Advisory Committees**

**Secretariat**

- Supports
- Supports
- Supports
Connected Vehicle Showcase

Automotive Parts Manufacturers’ Association (APMA)

Intelligent Mechatronic Systems (IMS)
On June 25, 2014, the Honourable Lisa Raitt, Minister of Transport launched a statutory Review of the Canada Transportation Act. She appointed six eminent Canadians to lead this ‘arm’s length’ Review. The Honourable David L. Emerson, P.C., O.B.C., will head the Review with the support of five Advisors representing a broad range of transportation perspectives and industry experience from various regions of the country. The Advisors are: Mr. Murad Al-Katib, Mr. David Cardin, Mr. Duncan Dee, Mrs. Marie-Lucie Morin and Ms. Marcella Szel.

ITS Canada has been asked by the CTA Review to speak to the aspects of the new future Act that will/should result from a focus on innovation. Our panelists will represent the views of our Society, the members and several world experts on the subject of transportation reform.

Canada Transportation Act Roundtable:

“Revolutionary change is coming: What the CTA Review needs to know to ensure a safe, secure, efficient and environmentally respectful transport system”
A Strong Technical Program over 3 days . . .

- Connected and Automated Vehicles
  - DAVI – ‘Dutch Automated Vehicle Initiative’
  - GoMentum – Contra Costa County, California
  - Insurance Industry Perspective
  - UK and US Perspectives
  - Active-Aurora Progress
  - Roadmap for AVs in Ontario

- Practical Applications of Big/Open Data

- Federal ITS Initiatives and Related Updates
  - Transport Canada – USDOT

- Smart Cities & New Urban Mobility

- ITS System & Operational Integration

- Policy & Regulatory Issues

- ITS & Freight

- Collaboration for Better Connection
ITS CANADA AWARDS CEREMONY AND GALA DINNER

Guest speaker: Dave Rodney

- Canada's First Mt. Everest Two-Time Summiteer, CEO of Spirit Quest Enterprises, MLA (Alberta), Humanitarian

“It’s Smart to Collaborate: Climb Beyond Your Next ‘Summits’, Together!”
Our Sponsors:

**Gold:**
- Ministry of Transportation Ontario (MTO)
- City of Ottawa
- IMS

**Silver**
- PBX Engineering
- IRD Systems Inc.
- STO
- LEA Consulting
Impact of Automated Vehicles

How Automated Driving Will Shape the Future of Our Transportation System?

- Advances in autonomous vehicle technology have captured the imagination of the public, however, the creation of a fully-functioning automated, connected transportation system is more difficult to envision.

- Challenges to the successful deployment of automation include:
  - realizing the types of technologies and services that users will respond to in the marketplace,
  - collaborating the work of the private sector, road managers, and cities,
  - Insurance, liability and privacy issues,
  - determining the need for global standards, and
  - implementing standards and regulations,
  - integrating automation with mixed traffic.

- How will ITS serve to create the path from today’s legacy transportation system to a highly automated system?

- What new ITS functions may be required to support increasing levels of automation and how can the ITS industry help accelerate the deployment of automation?

- What role should Global ITS organizations play in resolving these issues?
The Role of ITS

- The ITS community has a critical role to play in constructing the underlying “system” aspect of automated transportation:
  - advances around sensors and connectivity in vehicles
  - automation-friendly infrastructure and smart parking
  - data-driven management of roadway systems
  - payment systems for mobility services
  - seamless inter-connection of transportation modes
  - creative solutions for ‘mobility on demand’, and
  - The integration of ITS and C-ITS Architectures.

- ITS Canada and its members can assist governments, insurance carriers and other key stakeholders to better understand these issues and to bring industry expertise to bear.

- Connected/Automated Vehicle Technical Committee (CV/AV-TC) . . .
Activities of CV/AV-TC

- Attend meetings on important matters related to:
  - ITS Architecture and Standards
    - ISO TC204
    - SAE
    - IEEE

- Connected Vehicles Reference Implementation Architecture (USDOT JPO)
  - Invited by Transport Canada to attend meetings at SAE in Detroit in April, 2015

- Conduct Webinars, Training, Integration

- Work closely with TAC, APMA and other industry associations in the emerging CV/AV industries
Oct 29 – Nov 2, 2017

Seamless Mobility in a Connected World

Mobilité sans rupture, un monde connecté!
2017 - A year of Celebrations in Montréal!

150th anniversary of Canada’s Confederation

Montreal’s 375th anniversary

50th anniversary of the World Fair

20th anniversary of ITS Canada
Technology Showcase - Gilles Villeneuve Formula 1 Race Track
Technology Showcase - Gilles Villeneuve Formula 1 Race Track
Plan to join us in Montreal!

24th ITS WC 2017
Montréal

OCT. 29 – NOV. 2, 2017
ITS World Congress Town Hall Meeting

Wednesday, May 25th, 10:30-Noon

Open to all Attendees, Delegates, Technical Committees and Transport Agencies.

Planning for the 2017 World Congress
Putting Vision into Action

Plan to Join us in Gatineau in May 2015!