



# Hot Off the Press!

2<sup>nd</sup> Annual "International Tour of ITS Benefits, Evaluations, and Costs"  
Sunday, 8 October 2006

Barbara L. Staples

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## Intelligent Speed Adaptation (ISA) Trial in Ottawa

Key Objective: Measure effectiveness of ISA as a speed management technology

- 1<sup>st</sup> trial in North America
- Two autonomous systems evaluated
  - Imita w/active accelerator
  - Otto (visual and audible warning)
- 20 vehicles (private, commercial, fleet)
- Questionnaires before, during, and after
- Data collected (e.g., time, speed, location, posted speed limit, fuel flow)
- Future work – Larger trial to include rural areas



Transport Canada POC: Vittoria Battista, [battisv@tc.gc.ca](mailto:battisv@tc.gc.ca)  
Report: Available December 2006

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## Initial Driver Reactions to ITS Implementation on the M42

■ Study Objective: To determine driver reaction to 3-lane VSL and 4-lane VSL during the initial period of Active Traffic Management (ATM) operation

■ Study Approach

- Transport & Travel Research Ltd
- On-street questionnaire surveys
- Stakeholder consultation

■ Study Status:

- 3-lane VSL initial reaction and follow up surveys completed December 2005 and March 2006
- 4-lane VSL initial reaction survey in progress

■ Attend TS080, Oct 10 @16:00 for more info!

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### National Strategy to Reduce Congestion on America's Transportation Network

**Key Objectives:** Establish Urban Partnership Agreements with selected communities...more widespread deployment of new technologies and practices...

- Intelligent Transport Systems (ITS) a key part of the 6-point plan to reduce congestion
- Four ITS leaflets being developed to support the initiative; focus on benefits, costs, deployment statistics, and lessons learned
  1. Traffic Incident Management
  2. Traveler Information
  3. ITS in Work Zones
  4. Traffic Signal Systems

Link to press release: [www.dot.gov/affairs/dot5706.htm](http://www.dot.gov/affairs/dot5706.htm)

Link to leaflets (January 2007): [www.its.dot.gov](http://www.its.dot.gov)

Leaflet contact: Joe Peters, [joe.peters@dot.gov](mailto:joe.peters@dot.gov)

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### Puget Sound Regional Fare Coordination

**Program Objective:** Enable seamless travel for public transportation customers in the Puget Sound region using one fare card.

**Evaluation Objective:** Describe the project implementation and identify institutional issues and how they were resolved.

**Selected Evaluation Findings:**

- A "consensus" decision model works effectively
- Underwriting front-end costs for smaller agencies facilitates participation
- A full time "Site Manager" in each agency and a fully staffed "Regional Team" to lead the project offer substantial benefits
- A coordinated fare structure accommodates agency autonomy

King County Metro Contract Administrator: Candace Carlson

Evaluation Schedule: August 2002 – May 2006

Lessons: [www.itslessons.its.dot.gov/](http://www.itslessons.its.dot.gov/) Search: "Puget Sound Fare"

Report: [www.its.dot.gov/library.htm](http://www.its.dot.gov/library.htm) Search: EDL #14300 [www.ibec-its.org](http://www.ibec-its.org)

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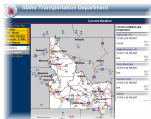
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### Evaluation of Idaho Statewide RWIS Integration

**Evaluation Objective:** Assessed impacts regarding winter maintenance efficiency, safety, information consumption, and institutional issues.



**Selected Evaluation Findings:**

- Common data interface lowered ESS procurement cost by promoting competition
- Integrated system was frequently accessed for winter maintenance but did not preclude the use of other sources of weather information
- Public access to Idaho Road Report web site increased by 69% with the enhanced weather information
- Mixed findings in safety and maintenance efficiency due to exogenous factors such as different scenarios and changing practices

Evaluation POC: Jeff Jenq, Battelle ([JENQJ@BATTELLE.ORG](mailto:JENQJ@BATTELLE.ORG))

Schedule: Evaluation completed March 2006

Evaluation Report: [http://www.itsdocs.fhwa.dot.gov/JPODOCS/REPTS\\_TE/14267.htm](http://www.itsdocs.fhwa.dot.gov/JPODOCS/REPTS_TE/14267.htm)

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### National Evaluation of MAYDAY/9-1-1 Field Operational Test

- Scope of the evaluation:
  - Conduct acceptance test on the voice routing system
  - Perform analysis on ACN/AACN data routing
  - Solicit feedback from participants
  - Identify potential deployment issues
- Results:
  - FOT voice routing system passed the acceptance test at 94% confidence that the true failure rate does not exceed 4%
  - FOT data routing achieved high reliability (96%) with minimal latency
  - Favorable user acceptance to the FOT voice routing service (PSAP)

Link to report: [www.itsdocs.fhwa.dot.gov/JPODOCS/REPTS\\_TE/14297.htm](http://www.itsdocs.fhwa.dot.gov/JPODOCS/REPTS_TE/14297.htm)  
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### eCall Safety Effects in Finland

- Evaluation Focus: to estimate the impacts of an automatic emergency call system (eCall) on accident consequences in Finland
- Data based on the case reports of Road Accident Investigation Teams covering the period 2001–2003.
- Key Findings:
  - Prevent ~4.7% of fatalities in accidents involving motor-vehicle occupants
  - Benefit-cost ratio ~ 0.5 – 2.3 (excluding indirect benefits of eCall)
- Recommendation: immediate and widespread implementation in Finland

[esafetysupport.org/en/ecall\\_toolbox/eu\\_member\\_states/finland.htm](http://esafetysupport.org/en/ecall_toolbox/eu_member_states/finland.htm)  
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### Travelling Time Reliability

- AVV Transport Research Centre of the Dutch Ministry of Transport, Public Works and Water Management
- Developing knowledge on travelling time reliability in response to Mobility Policy Document
- Brochure available 6 September 2006
  - Current status and future direction
- Conducted surveys and now developing tools that incorporate the benefits of travel time reliability in cost/benefit analyses
- Results of the large-scale studies available in 2007

Website: [www.rws-avv.nl](http://www.rws-avv.nl)

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## Delphi Survey of Vehicle-Infrastructure Integration

- Survey automotive industry perspective on future of communication between vehicles and infrastructure
- Specific Features
  - 20 auto industry panelists, 12 OEM
  - Represent their own perspective, not that of company
  - Asked to assume VII was DSRC/WAVE unless otherwise stated
  - Web and paper questionnaire alternatives
- Sample Finding - The automotive companies will support VII by sharing vehicle sensor data with public agencies to support public applications and services.

Strongly Agree	Agree	Don't Know, Neutral	Disagree	Strongly Disagree
4	7	6	3	0

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## ITS in China's 11th Five-Year Plan

- Funding by the Ministry of Science and Technology (MOST) of the People's Republic of China
- Proposes topics on ITS framework and ITS evaluation
  - Several ITS demonstration projects
    - Beijing – 2008 Olympics
    - Shanghai - World Expo 2010
    - Guangzhou – 2010 Asian Games
    - National Expressway ETC system and services system
  - Research project
    - Establish ITS development and evaluation framework

Come to the "ITS and Urban Mobility in China" session to learn more!  
 Website: [www.most.gov.cn/eng/](http://www.most.gov.cn/eng/) [www.ibec-its.org](http://www.ibec-its.org)

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