ITS America – UTC Safety Summit Presentation

March 19, 2015

ITS America Highlights

- Non-profit association
- Ecosystem with **hundreds of organizations** and thousands of contacts
  - **Public, Private, and Academia**
  - Auto, Telco, IT, Industrial, Consumer Electronics, Logistics
  - Cities, counties, MPOs, states, federal, global
  - Universities, tech centers, multi-disciplinary centers
  - Organized into State Chapters and Technical Forums
- Resources
  - Meeting facilities, webinar/recorded webcast/net meeting service, web 2.0 tools, surveys

Membership Diversity is Our Strength

446 Members from…

Academia 28	Homeland Security 7	Public Agencies 97	Telecommunications 14
Automotive 8	Information Technology 26	Public Safety 7	Telematics 14
Commercial Vehicle 4	Infrastructure 36	Public Transit 24	Toll Operations 12
Contractor 3	Legal Counsel 4	Research 9	Transportation Planning 32
Environment 5	**Nonprofit** 70	Supplies 7	Traveler Information 17
Finance 6	Other 11	Systems Architecture 5	

Safety Research and Education Needs

- Safety Research
  - V2I Applications
  - ICM with DSS
  - Data Management
  - Wireless spectrum congestion
  - Sustainability
- Education Resources and Needs

V2I Applications

- Referencing DMA and CVRIA for potential applications
  - Traveler information
  - SPAT
- Deployment oriented and impact to local agencies

ICM and/with DSS

- Processes
  - Systems Engineering
  - IT and ICT processes
- Decision Support Systems
  - Understand what it is and how it works
- Multi-modal analysis
  - Incorporating additional modes compared to typical analyses.

Data, Data, Data

- Data Sources
  - Sensors beyond detectors
  - i.e. Chicago sensors
- Data Management
  - Enterprise level
  - Open Data
- Data Analysis
  - Understanding computer programming
  - GIS applications

Wireless Spectrum

- Spectrum management
- Spectrum congestion
- Application exposure
- Security Credential Management System
- Privacy and Cyber-security

Sustainability

- Environmental sustainability
  - evaluation methods
  - Life cycle analysis
- Financial sustainability
  - How to look at the financial health of an organizations
- Social sustainability
  - How do we include disadvantaged areas

Resources Available

- Learning Materials
  - **ITS e-Primer**
  - **PIARC Handbook**
  - Knowledge Management
- Professional Capacity Building
  - **State Chapter Trainings**
  - University Curricula
- National Operations Center of Excellence

Learning Materials
ITS e-Primer (in partnership with ITE)

- Provide an **online, knowledge-exchange resource** for ITS students and professionals
- 15 chapters describing key ITS topics
- **Multi-media examples for each chapter**
- Final modules and PowerPoint presentation by November

Learning Material
PIARC ITS Web Resource Development

- International ITS focus with resources and examples
- **ITS content focusing on the needs of developing and emerging economies**
- Technical editors and module authors from **United Kingdom, Egypt, Hong Kong, Finland and United States**
- Topics for modules sourced through survey responses from **China, Australia, Japan, Lebanon, South Africa, Finland, UK, United States - ITS academics and practitioners**

Learning Material
Professional Capacity Building Training

- Define the Professional Capacity Building (PCB) needs of state agencies through **ITS America state chapters**

- Evaluate the effectiveness of ITS PCB course offerings for ITS professionals in state and local agencies

- **Attendance increased 60% from 2011–2013**

- Organized and conducted four PCB trainings in 2013 with nine more scheduled for the remainder of the year

- **Remote Deliveries available**

Industry and Education

- Career Path Framework
  - Clear career path for different levels of jobs in ITS with skillset requirements (planning, design, construction, maintenance, operations, and managers)
  - Community College Outreach

Questions

Patrick Son, P.E.
Intelligent Transportation Society of America (ITS America)
E-mail: pson@itsa.org
www.itsa.org