

International Standardization
Activities for ITS
Radiocommunications:
A focus on the ITU-R activities, and
the recent ITU-T APSC-TELEMOV

Paul Najarian
ITS America

ITS World Congress 2005, Nagoya

International Telecommunication Union

- Three Sectors

- Radiocommunication Sector (ITU-R)

- Radio Frequency and airwaves related

- Telecommunication Sector (ITU-T)

- Networks, Carriers, Security

- Development Sector (ITU-T)

- Requirements for Developing Countries, training, seminars

ITS Activities in the ITU-R

- Mainly Covered under Land Mobile Communications
 - ITS WG (SG8 WP8A WG2)
 - Some activities in the Broadcast Area (SG6)
- Initiated by Canada (1994)
 - Referred to as Study Question 205

Recommendations To Date

- Objectives and Requirements of TICS
- TICS Functionalities
- DSRC @ 5.8 GHz
 - Physical Layer
- Collision Avoidance Radar (61 and 76 GHz)

On-Going Activities

- DSRC @ 5.8 GHz
 - Amendment includes Application Sub-Layer (ASL), approved in Sept. 2004
- Next Generation Broadband ITS Radiocommunication Service
 - Requires cooperation/input from ISO/TC204/WG16 and IEEE (802.11p or Wireless Application for Vehicular Environment)
- Millimeter wave Applications for ITS
 - Requires input contribution from TC204/WG16 on CALM MM
- ITS Volume of the Land Mobile Handbook

Other Technologies

- Software Defined Radio (SDR) for ITS and Telematics Applications
- Adaptive Antenna
- Ultra Wideband (UWB) Applications
- VoIP

ITU-T Activities

- Advisory Panel for Standards Cooperation on Telecommunications related to Motor Vehicles (APSC)
 - Established in Nov. 2003
- A Standards Coordination Forum among Global and Regional Standards Organizations involved in ITS
- Provides Opportunity/Entry for Telecom Sector in Telematics and ITS

ITS @ Geneva Auto Show

- ITS Events Scheduled for March 1-4, 2005
 - Sponsored by the APSC
 - Open Invitation to ALL International/Regional Standards Organizations, and Telecom
 - Focus on eSafety, E-Call, CALM, in-vehicle integration, HMI, Mobile Office/Devices..
- Schedule
 - Press Conference, March 1st
 - Plenary Sessions, March 2nd
 - 8 Technical Sessions, March 3rd and 4th