Intelligent Transportation Systems (ITS)  
Joint Program Office (JPO)

Policy Needs on  
ITS Standardization for Deployment

*USDOT Perspective*

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June 4th, 2013
ITS Standardization for Deployment

- US Regulatory approaches use standards
- Standards support state and local agency deployment of ITS
- Private sector Investment accelerated through standards
- International standards harmonization can further deployment

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Opportunities & Challenges in Standards Harmonization

• Harmonized standards lead to lower costs, faster deployment of new technology and more innovation.

• Standards Development activities are often volunteer driven.

• Harmonization may not mean identical.

• Without collaboration, international standards can diverge and benefits are lost.
US DOT International Standards Engagement

- US DOT cooperates with, financially supports and/or actively participates in connected vehicle standards development across regions

<table>
<thead>
<tr>
<th>Standards Organization (SDO)</th>
<th>Level of Involvement</th>
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<tbody>
<tr>
<td>ISO TC204 (INTELLIGENT TRANSPORT SYSTEMS)</td>
<td>…Expert participation, financial support</td>
</tr>
<tr>
<td>CEN TC278 (ROAD TRANSPORT &amp; TRAFFIC TELEMATICS)</td>
<td>…Observation</td>
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<tr>
<td>ETSI TC-ITS</td>
<td>…Memorandum of cooperation</td>
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<tr>
<td>IEEE 1609 and 802.11p</td>
<td>…Expert participation, financial support</td>
</tr>
<tr>
<td>SAE J2735/2945</td>
<td>…Expert participation, financial support</td>
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- EU-US ITS research cooperation task force
  - Standards harmonization is one of six working groups (“SWG”)
  - Work program governed by Harmonization Action Plan (HAP)

- Japan has been an observer in the SWG activities
  - Korea invited for future observation/participation
Why Standards Matter

FMVSS

International Standards
Looking Forward ….

**Opportunities**

- Further work guided by HAP, build on successes
- Seek to broaden cooperation leveraging existing bilateral agreements
  - Canada, EU, Japan, Korea … welcome others
- Cooperatively execute a gap/overlap analysis
- Documented lessons learned to date will guide future activity
- Address Spectrum, CyberSecurity, Privacy issues

**Challenges**

- Multiple constituencies - governments, SDOs, automakers, suppliers ….
  - Overcome conflicting objectives, approaches, timing needs and levels of commitment
- Complexities associated with widely varying procedures/practices, including contracting & funding
  - Example: IEEE 1609.2 and ETSI TS 103-097 (security) were once harmonized yet diverged over mostly institutional issues
  - Efforts underway to try to re-harmonize