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ACTIVATING GLOBAL MOBILITY SOLUTIONS
ITS—ENHANCING LIVEABLE CITIES AND COMMUNITIES

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Tri-Lateral Automation in Road Transport WG: Achievements and Next Challenges
Digital Infrastructure

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Content

• International Research Exchange
  – Tri-Lateral ART WG
  – Digital Infrastructure

• Accomplishments
  – Definition of Digital Infrastructure
  – Establish Work Plan
  – Completion of Survey 1

• Next Steps
  – Survey 2
  – Conduct Work Plan Activities
International Research Exchange

• The European Commission, United States and Japan work to foster cooperative international ITS research and to support international harmonization of ITS standards through international research exchange activities.

• This exchange was formalized in 2009 and 2010 with a series of three bilateral agreements among the three parties, officially authorizing exchange activities among them.
Automation in Road Transport

• Automation in Road Transport Working Group – Topic Areas
  – Human factors
  – Evaluation of Benefits
  – Digital infrastructure
  – Connectivity (V2V / V2I / I2V)
  – System Reliability and Security (to include cybersecurity)
  – Roadworthiness/Testing and Certification
Definition of Digital Infrastructure

• “Digital representation of road environment required by Automated Driving Systems, C-ITS, and Advanced Road/Traffic Management Systems”
Stepwise Implementation of DI

- Use Case Identification
  - Connected/Automated Vehicles
  - Advanced Road Management
  - Advanced Traffic Management

- System Architecture Development

- Prototype Development

- Model Deployment

- Standardization
Survey 1 – Is there a role for government?

Is there a role for national governments in promoting or facilitating the development of the necessary static and dynamic geospatial infrastructure for cooperative or connected vehicles? (31 responses)

- Yes – 80.6%
- No – 9.6%
- Unsure – 9.6%

- Digital map provider (1), Auto industry (1), University (1)
- EU (2), Japan (1)
Survey 1 – Is there a role for government?

Is there a role for national governments to play in promoting or facilitating the development of the necessary static and dynamic geospatial infrastructure for automated vehicles? (31 responses)

- Yes - 80.6%
- No - 6.4%
- Unsure - 12.9%

- Yes
  - Automobile industry supplier (1), University (1)
  - EU (2)
  - Two of the 3 that answered “No” to the previous question
- No
- Unsure
Next Steps – Survey 2

- Why a 2nd Survey?
- Status of 2nd Survey?
Thank You!