



# EMERGING COMMUNICATIONS TECHNOLOGY FOR TRANSPORTATION

ITS AMERICA ANNUAL MEETING, JUNE 4-7, 2018 – DETROIT, MICHIGAN



Kevin Gay, ITS Joint Program Office  
Chief – ITS Policy, Architecture and Knowledge Transfer

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# Session Agenda



- **Welcome**
- **Introduction of Panelists**
  - **Andrew Boedigheimer-Thiessen**  
**National Telecommunications & Information  
Administration/ITS Boulder**
  - **Jovan Zagajac**  
**Ford Motor Company**
  - **Hideki Hada**  
**Toyota Motor North America**
- **Opening Remarks**
- **Panelists Presentations**
- **Q&A**

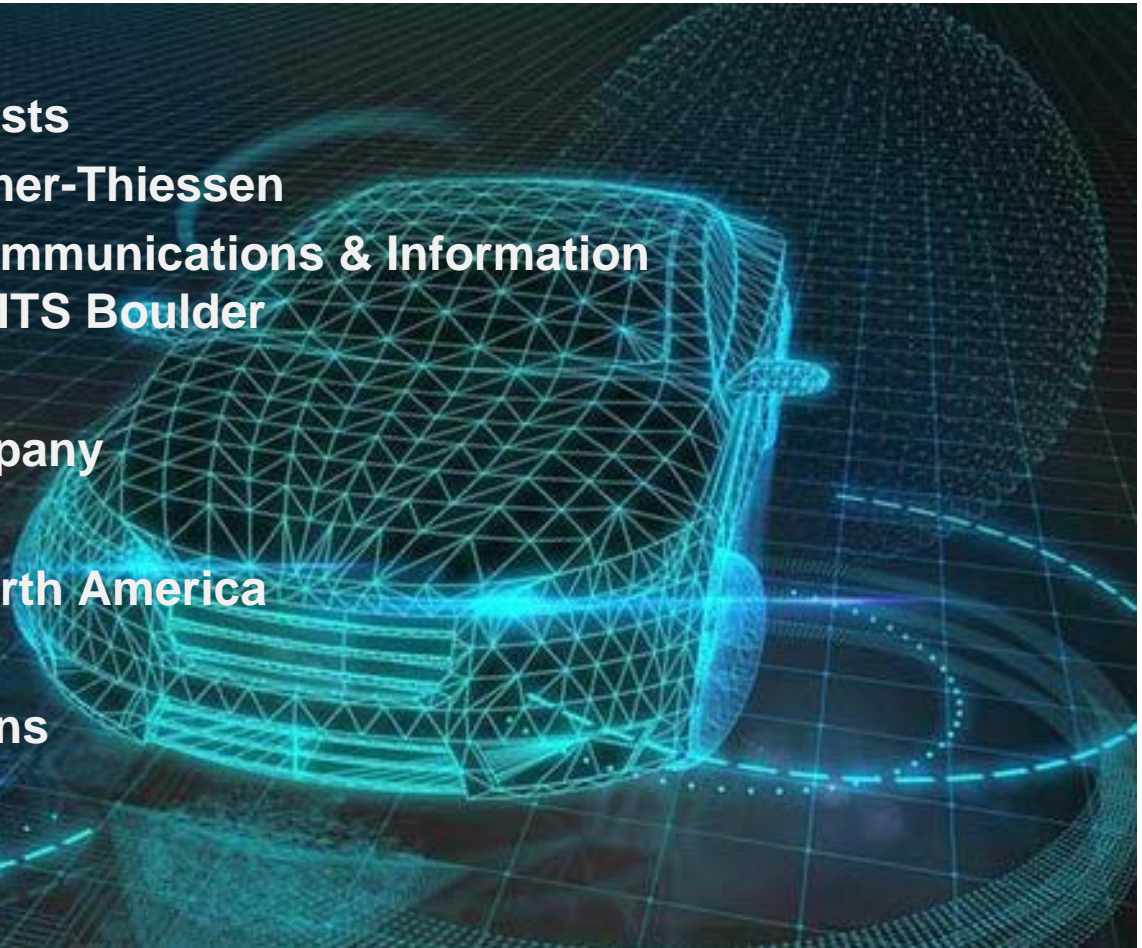


Photo: Automobile Italia/Flickr





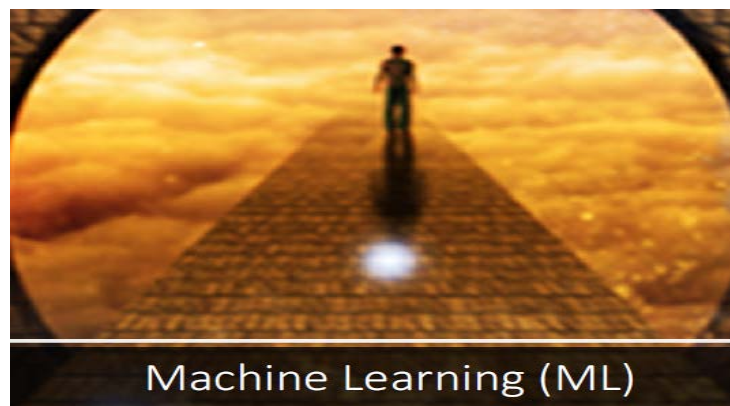
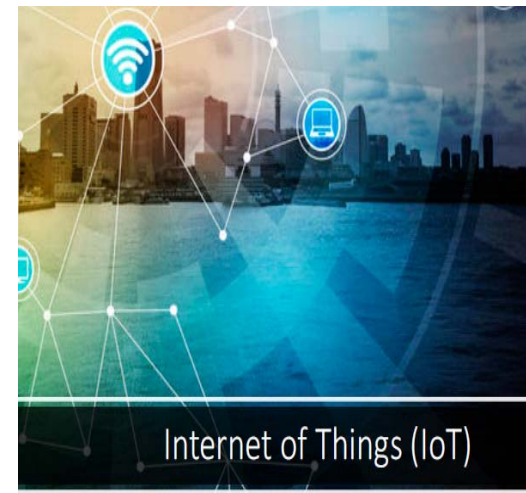
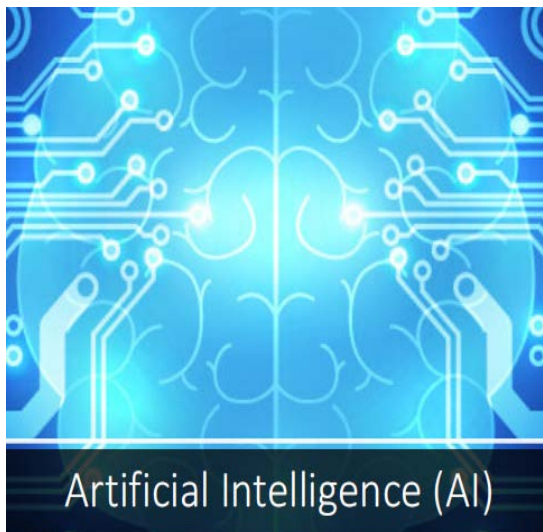
# Transportation and Communications



# Innovations in Telecommunications Offers Opportunities



- Ongoing Traffic Operations
- Connected Automation
- Platooning
- Machine-to-Machine Communications & Edge Computing
- Artificial Intelligence & Machine Learning
- Robotics
- Digitization of Assets
- Virtual Traffic Management



Photos: HNTB Corp./TransOvation™ 2017





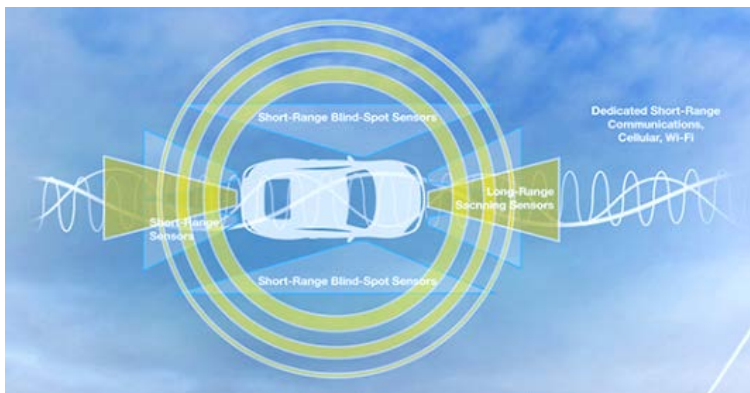
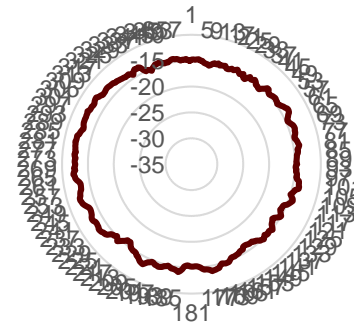
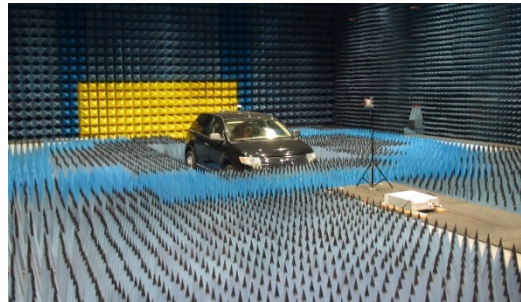
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# Focus Area 1 for Next Generation Communications Research



## 1. Research on Emerging Innovations:

- Unlicensed Wi-Fi Sharing
- C-V2X device to device communications



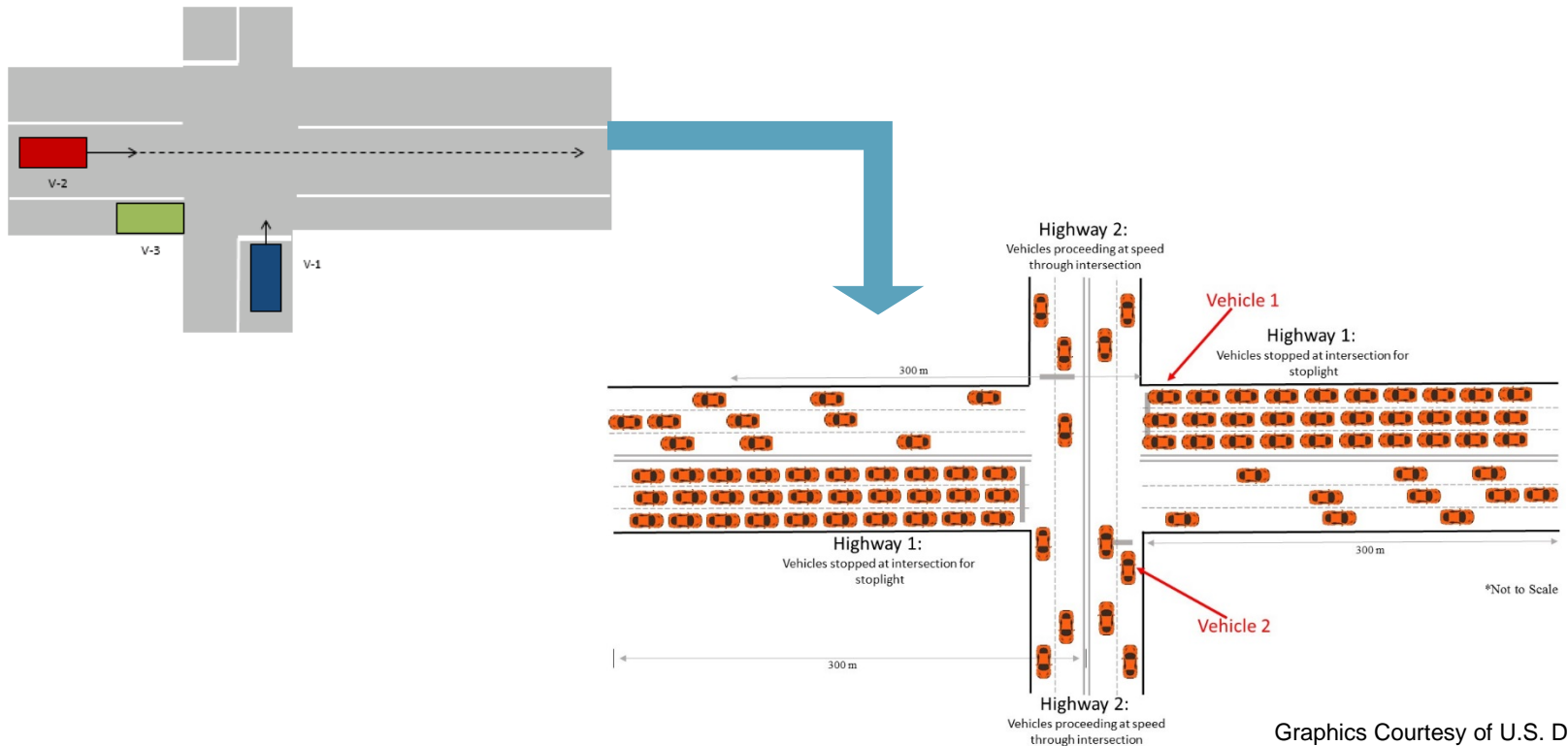
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# Focus Area 2 for Next Generation Communications Research



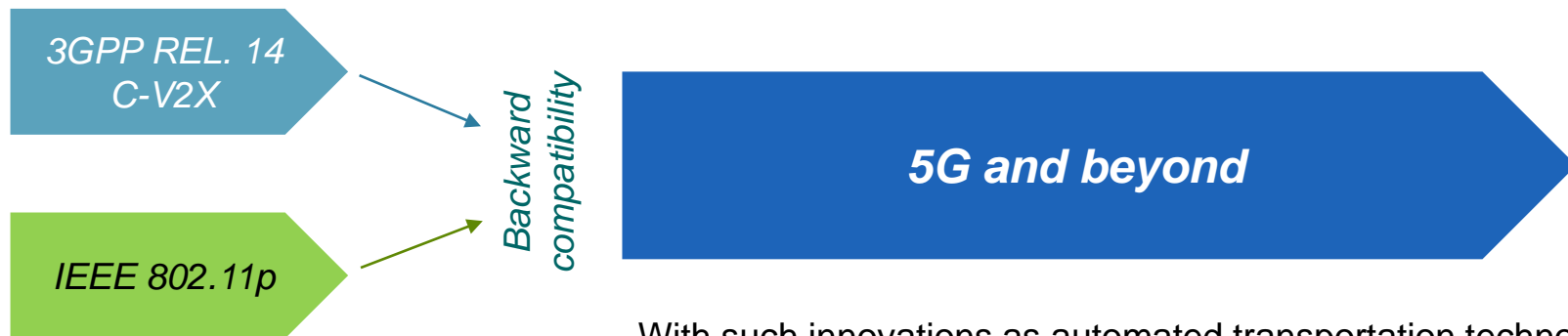
## 2. Public/Private Transportation Sector Collaborations for safety and mobility use cases for specifications and standards setting



# Focus Area 3 for Next Generation Communications Research



## 3. Development of Evolutionary Scenarios for 5G communications to Inform Investment Decisions.



With such innovations as automated transportation technologies, edge computing, virtual traffic management, or machine learning and artificial intelligence, transportation use cases will need to leverage a variety of forms of communications that enable:

- Higher throughput
- Higher reliability than we have today
- Lower latencies
- Narrowband and wideband delivery





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# Audience Q&A