# Intelligent Transportation Systems Joint Program Office

# ITS Foundation and Technology

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# Agenda

- Introduction

- National and Connected Vehicle (CV) Architecture

- ITS Standards for CV Deployment

- Security

- Certification

# Context: How Do the Pieces Fit Together?

- **Architecture** provides a framework to guide planning and interoperable deployment of ITS (incl. connected vehicle) and identifies interfaces for standardization. **Standards** define interfaces with architectures to enable required interoperability and support efficient, non-proprietary ITS deployment. **International Harmonization** seeks to leverage global resources and expertise to (1) maximize commonality of ITS deployments, (2) share labor resources and (3) access best-available expertise in order to facilitate ITS deployment and open markets. **Security** assures that systems and services are safe from intrusion and can be trusted with privacy protected. **Certification** assures that components and systems are fully compliant with performance requirements including architecture, standards and security.

- **Program Goals** – Enable secure, effective, interoperable and affordable ITS infrastructure; connected vehicle and automated vehicle deployments.