

New Jersey ITS Architectures and Deployment Plans

Training Workshops



April 14 – Newark (NJTPA)
April 15 – Vineland (SJTPO)
April 23 – Trenton (NJDOT)

New Jersey ITS Architectures and Deployment Plans

Module 1 - Introduction



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Introductions & Housekeeping

- Instructor introductions
- Participant introductions
 - Your name
 - Your organization
 - ITS experience / project involvement
- Housekeeping



Training Workshop Goals

To understand:

- What is an ITS architecture?
- What is the National ITS Architecture?
- What is a regional ITS architecture?
- How will the New Jersey regional ITS architectures be developed?
- What is your role in the development of the New Jersey architectures?
- How will the New Jersey architectures be applied?



Course Key Elements

- Modules
 - Lectures
 - Discussions
- Participant Workbook
- Sign up for Stakeholder Workshops
- Participant interaction encouraged



Workshop Agenda

1. Introduction
2. New Jersey Architecture Development Program
3. U.S. DOT ITS Rule/Policy Overview
4. National ITS Architecture Overview
5. Market Packages by ITS Functional Area
6. Applying Your Regional ITS Architecture
7. Stakeholder Participation



What is ITS?

“ITS represents the application of information processing, communications technologies, advanced control strategies, and electronics to the field of transportation.”

23 CFR Parts 655 and 940

ITS?



Integrated Intelligent Transportation Systems

What is an Architecture?

architecture, n.



“a unifying or coherent structure”

“the manner in which the components of a computer or computer system are organized and integrated”

ITS Architecture



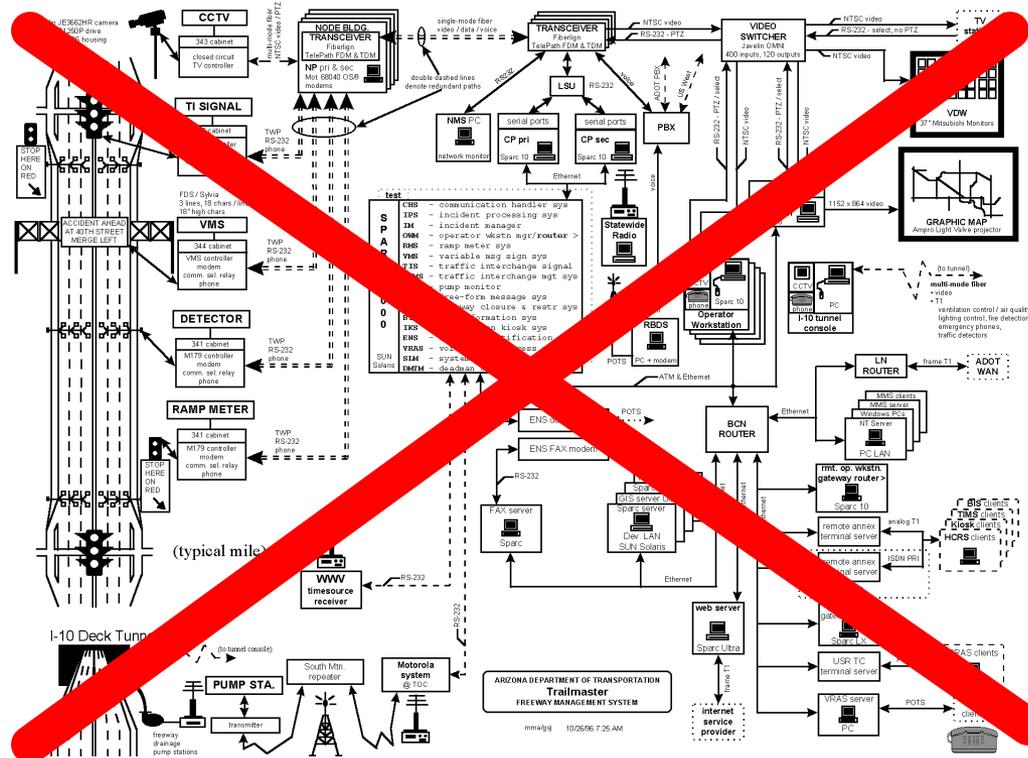
Structure or framework for deploying ITS

- Blueprint for effective cooperation



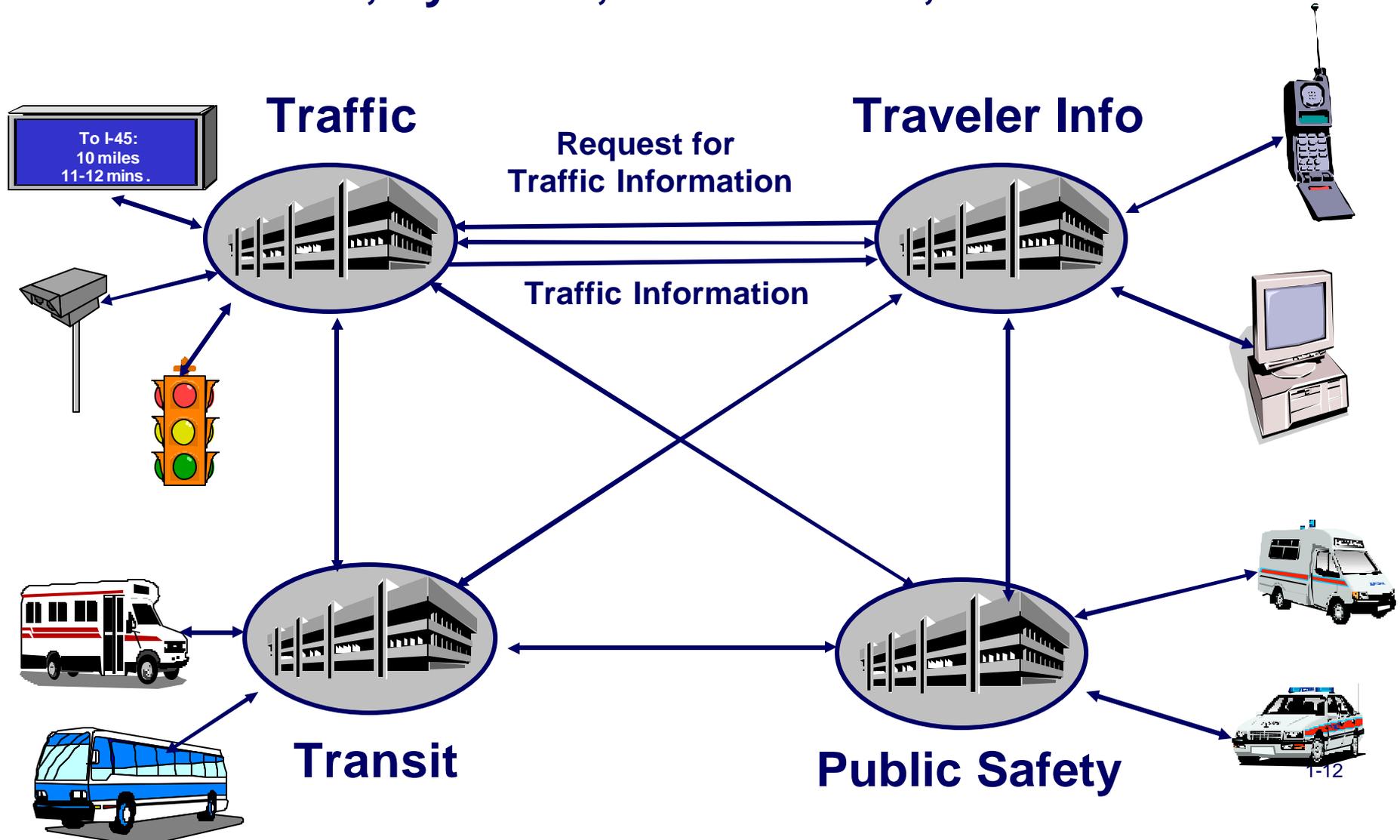
ITS Architecture is not ...

- A design document
- Technology prescriptive



ITS Architecture includes:

Stakeholders, Systems, Connections, Information Flows





Regional ITS Architecture

Structure or framework for deploying Integrated Transportation Systems in a specific area

- Agencies involved
- Transportation systems
- Connections between systems
- Information (data, not voice) exchanged between systems

Why develop a Regional ITS Architecture?



- Identify integration opportunities
- Identify gaps in ITS services
- Efficiently structure implementations
 - Prepare for future expansion
 - Leverage funding
 - Identify standard interfaces
- Comply with FHWA Rule/FTA Policy