ARC-IT V8 Workshop

INTEGRATION PROCESS

Merging Architectures

- Finding the best way to address current stakeholders needs/concerns for ITS, including connected vehicle
- *Architecture*
  - National ITS Architecture – based on 1990s concepts
  - CVRIA – based on current ISO 42010 standard for architectures
    - → Use CVRIA's viewpoint structure
- *Scope*
  - National ITS Architecture – bound by ITS User Services (last updated 2005)
  - CVRIA – CV applications from US, EU, AUS
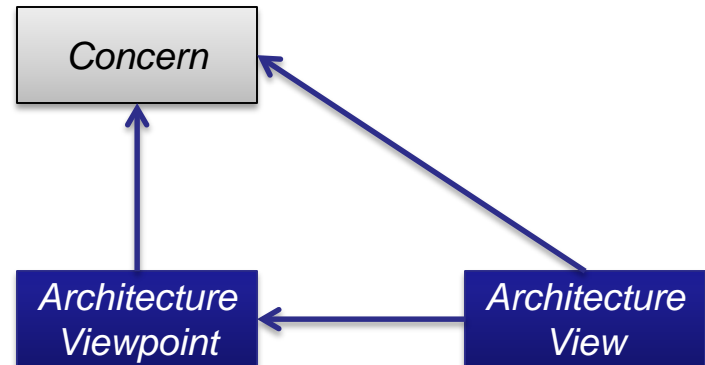   - → Use expanded/ing scope

Merging Architectures

- *Look & Feel*
  - CVRIA developed consistent look across all applications drawings (colors, placement, encoding)
    - →Merged National Architecture will use CVRIA's look-and-feel for Service Packages
- *Terminology*
  - Applications or **Service Packages**?
  - **Physical Objects** or Physical Entities
  - Application Objects or Equipment Packages?
    - → Functional Objects
- *Security*
  - V7.1 Security Areas
  - CVRIA+ Securing ITS

Merging Architectures: Fundamentals

- Concerns were different, so viewpoints were different
  - 7.1 included more "hard" operations such as maintenance activities
  - CVRIA focused on system interfaces
  - 7.1 focused on strategic planning
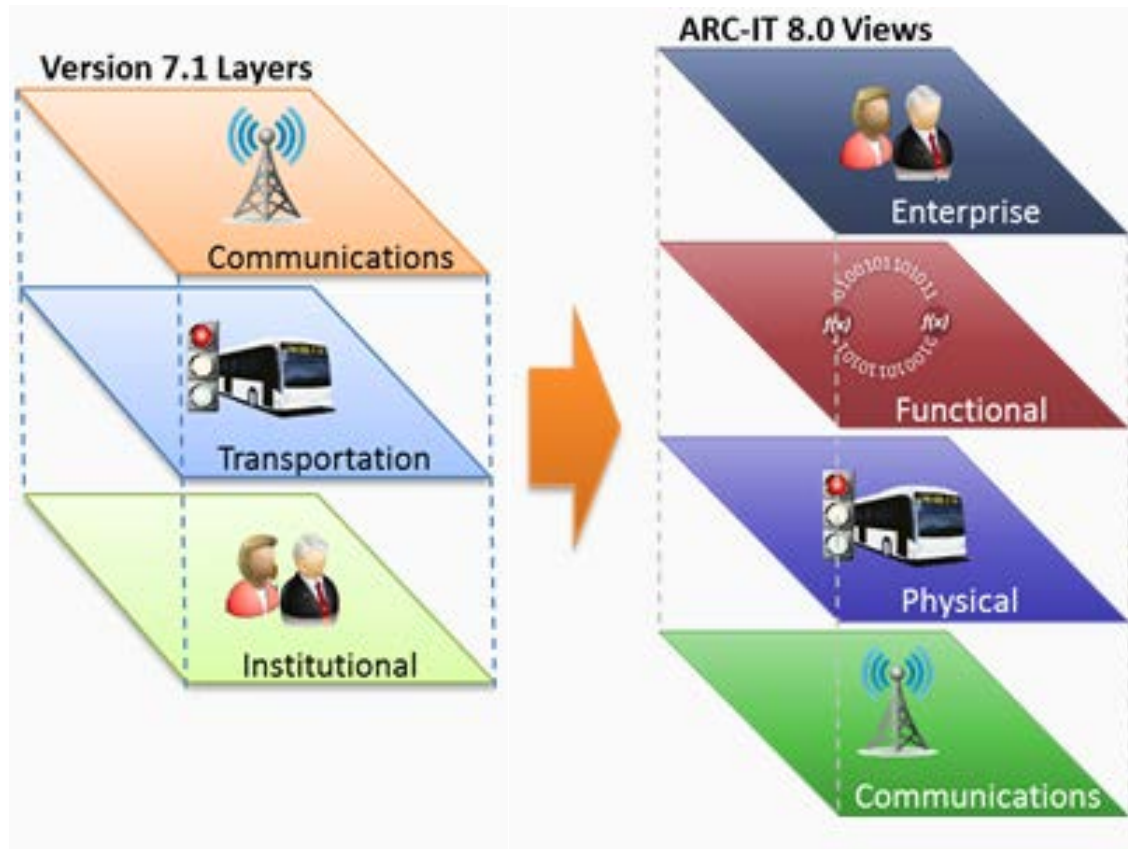 - CVRIA focused on system implementation

Merging Architectures

- *Look & Feel*
  - CVRIA developed consistent look across all applications drawings (colors, placement, encoding)
    - →ARC-IT uses CVRIA's look-and-feel for Service Packages
- *Terminology*
  - Applications or **Service Packages**?
  - **Physical Objects** or Physical Entities
  - Application Objects or Equipment Packages?
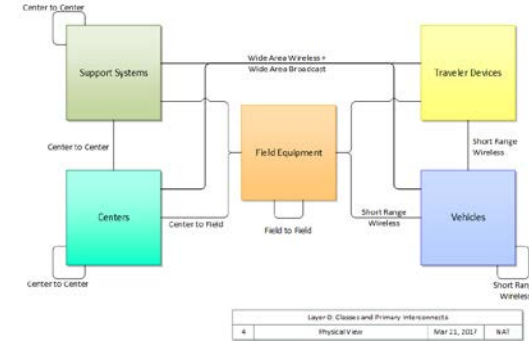   - → Functional Objects

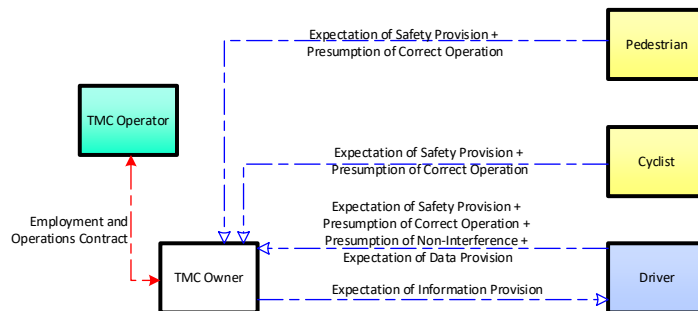# Merging Architectures

- Layers → Views

Getting There: Prioritization

- ## What does planning use today?
  - □ Physical first

- ## What do projects use today?
  - □ Communications next

- ## What should we use next?
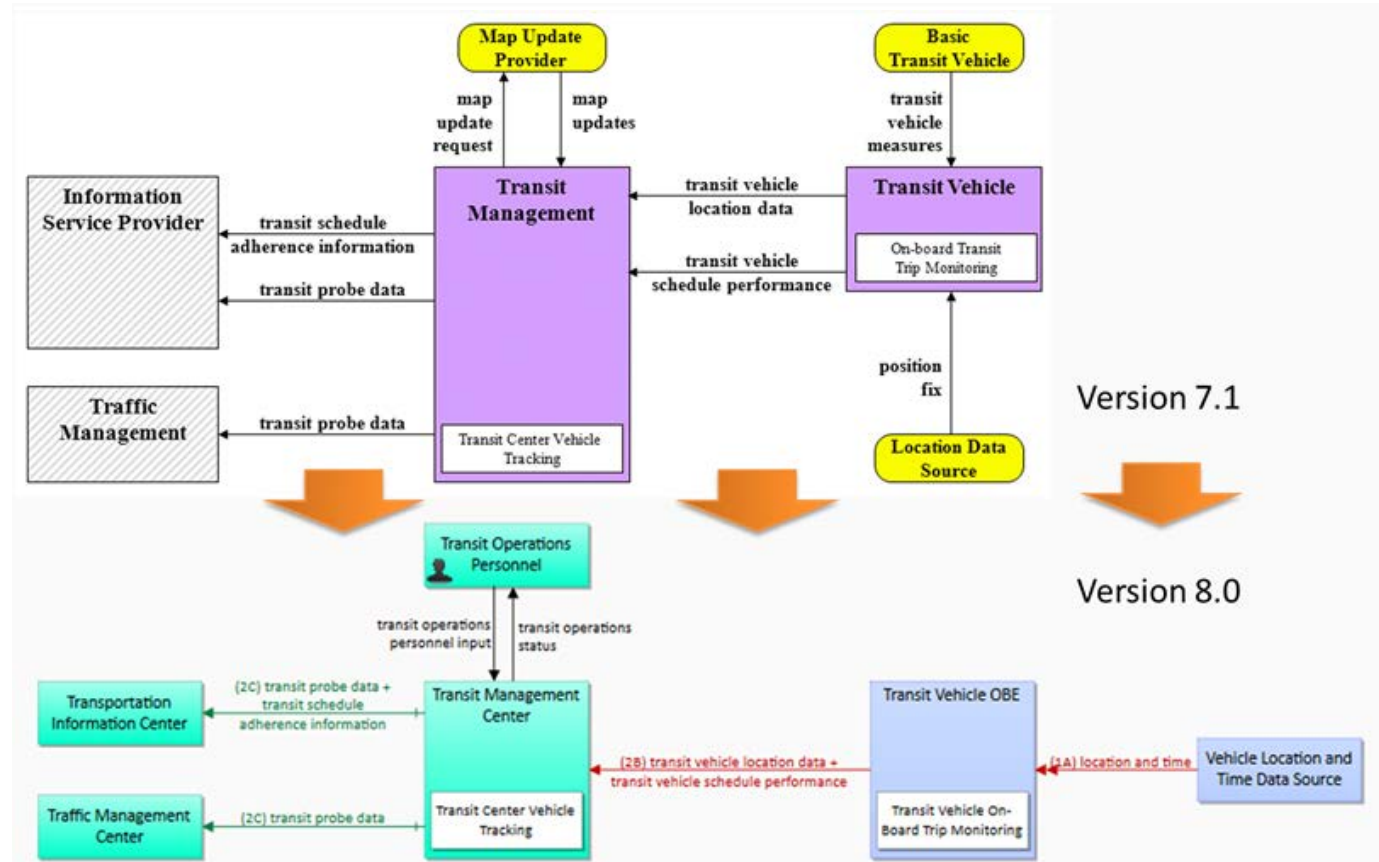 - □ Enterprise, Functional later

Service Package Drawings

- 97 v7.1 Service Packages   /   96 CVRIA Applications
  → 133 v8 Service Packages

Support Content

- ## Support Service
  - A Service Package that
    - provides a service necessary for another SP to operate, and
    - Does not provide a transportation service, and
    - Is managed in the transportation domain
  - Example:
    - Location and Time: "…provide accurate location and time to intelligent transportation system devices and systems."
- ## Support Object
  - A Physical Object that…

Combined/Merged Architecture

- Continue to support regional planning and project implementation