Welcome & Introduction

**Project Overview** 

Why Have A Regional ITS

Architecture...

Review of Current Regional ITS Architecture

**Upcoming Workshops** 

Q&A / Wrap-up

# Northeastern Illinois ITS Architecture Update

**Architecture Open House Web Cast** 

April 12th, 2007









### Web Cast Participant Details

Audio Conference Details:

To join the audio call dial: 1-800-839-9416

Passcode: 8812510

Web Conference Details:

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Conference Link: <a href="http://www.pc-">http://www.pc-</a>

conferencing.com/joinframe.html?schedid=s-09254415

Passcode: 8812510









### **Welcome & Introduction**

- You are participating in an Architecture Open House web cast for the Northeastern Illinois Regional ITS Architecture Update
- Presenting today is the Project Team of Trichord, Inc. with Edwards and Kelcey
  - Project Manager: Lee-Ann Seeling (Trichord)
  - Team Members: Matt Letourneau (EK), Mayank
     Goyal (EK), Craig Franklin (Trichord), & Gary
     Rylander (EK)









# **Project Overview**

- Contract signed Dec 2006
  - Current plan is to complete all work by 3Q07 & on schedule

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33		Maintenance Plan Review	20 days	Thu 9/8/07																					- 1	•		•

#### Four (4) major areas

- Review of existing documentation completed
- Outreach thru interviews & workshops underway
- Update Regional ITS Architecture preliminary mods begun
- Review of Maintenance Plan slated for summer '07









# Why Have a Regional Architecture?

FHWA Rule 940.11.c.1 and FTA National ITS
 Architecture Policy require federally funded ITS
 projects to conform to the National ITS
 Architecture and approved USDOT Standards

But it's also just a good idea because...

 Provides both a common vocabulary & a framework for planning, defining, and integrating ITS in the Northeastern Illinois region



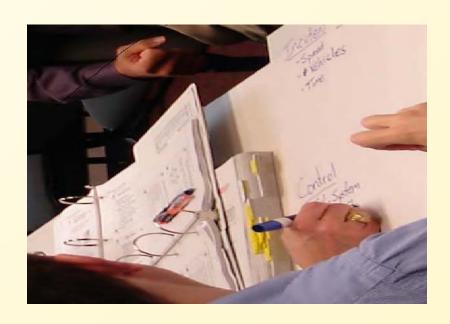






### What is a Regional ITS Architecture?

 Shared vision of how transportation systems in a region may work to share information and resources to provide safer, more efficient transportation system











### What's in a Regional ITS Architecture?

#### Contain details, including:

Stakeholders such as

Public Officials, Transportation
Planners, Law Enforcement,
Emergency Management Personnel,
Public/Private Transportation
Providers, Civic Groups, Media &
Information Providers

- ITS systems (elements)
- Transportation services (market packages)
- Functional requirements
- Information flows
- ITS Standards





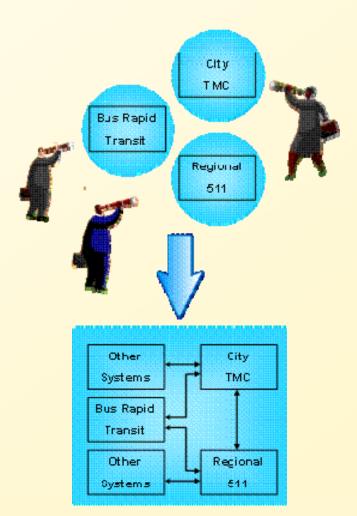






### <u>Uses of Regional ITS Architecture</u>

- Using the regional ITS architecture as a basis for project implementation provides regional context
- It provides each project sponsor the opportunity to view their project in the context of surrounding systems.







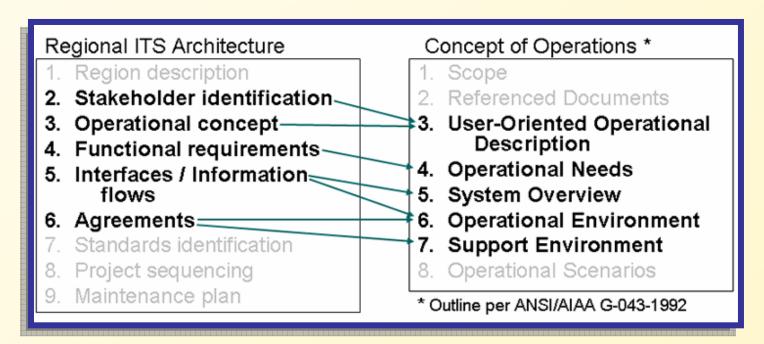






# Example #1: Used to Develop Concept of Operations

Provide starting point for developing concept of operations for an ITS project





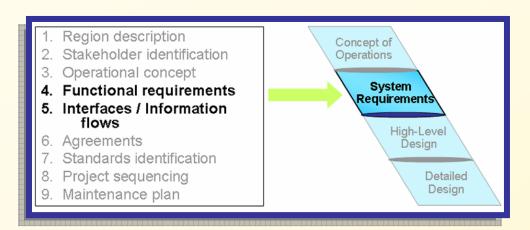
\* Ref: FHWA's Regional ITS Architecture Guidance Document





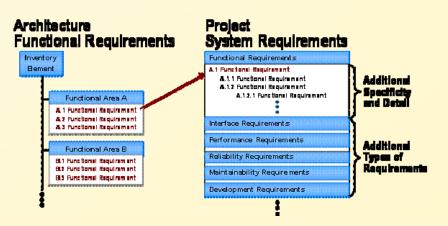


# Example #2: Used to Develop System Requirements



 Used as input to system requirement definition

 Provided additional details not provided in high-level design (Regional Architecture)





\* Ref: FHWA's Regional ITS Architecture Guidance Document



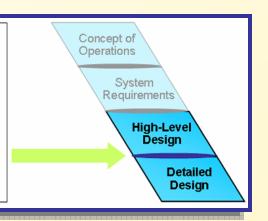


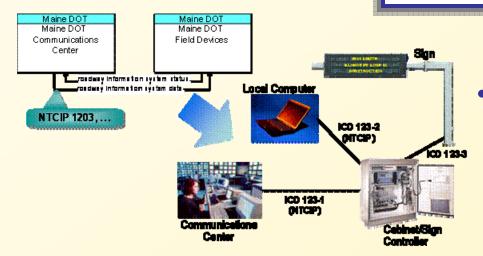


### Example #3: Used in Project Design

 Starting point for the project high-level design

- 1. Region description
- 2. Stakeholder identification
- 3. Operational concept
- 4. Functional requirements
- 5. Interfaces / Information flows
- 6. Agreements
- 7. Standards identification
- 8. Project sequencing
- 9. Maintenance plan





Identify the ITS standards that may be applicable



\* Ref: FHWA's Regional ITS Architecture Guidance Document





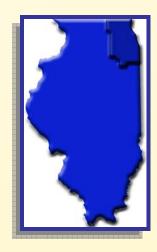


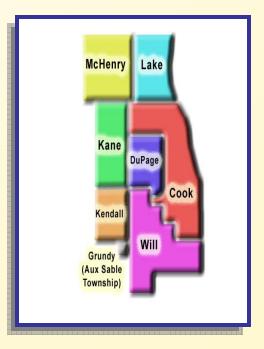
### Review of Existing Regional ITS Architecture

The existing Regional ITS
 Architecture can be viewed
 at

www.catsmpo.com/itsarc/ illinois-finalarch/neil/neilintro.htm

- Effective timeframe: 15 years
- Geographical area:
   CMAP planning
   boundaries













### **NE IL Regional ITS Architecture Update**

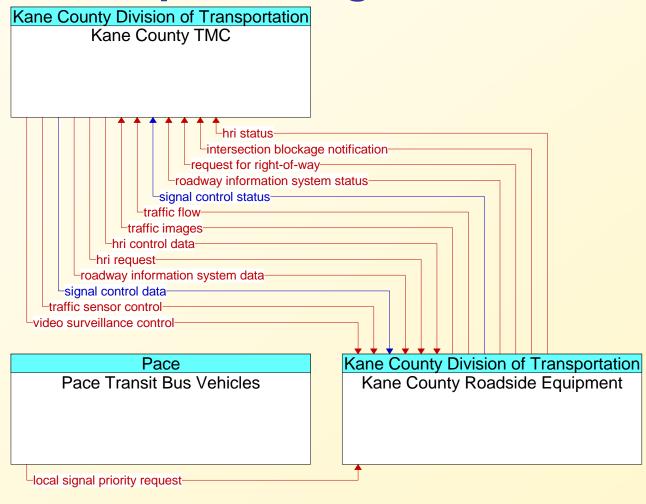
- Research into the region has yielded modifications ahead of workshops
- Change Sources:
  - NE IL Regional ITS Deployment Plan Update document
  - DuPage County TCI Project
  - Kane County ITS/TMC Feasibility Project
  - Outreach Process











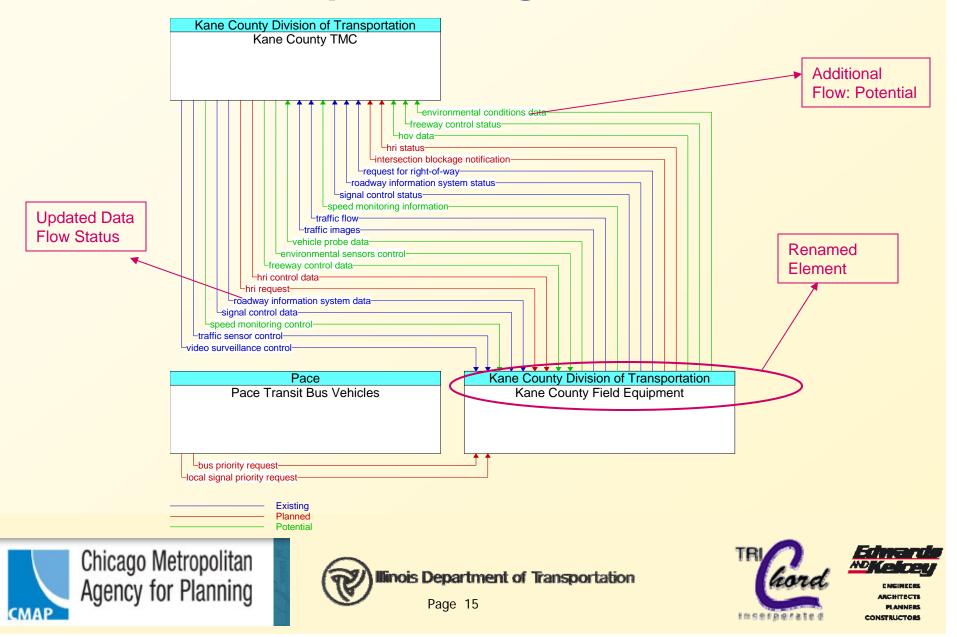


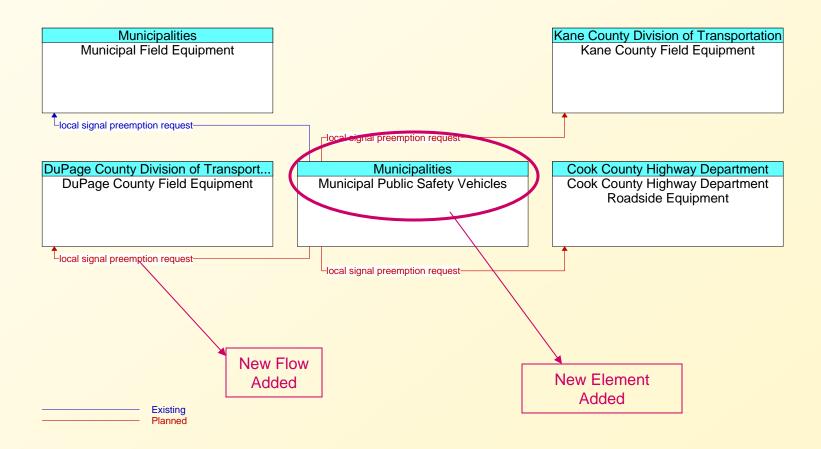


**Existing** Planned







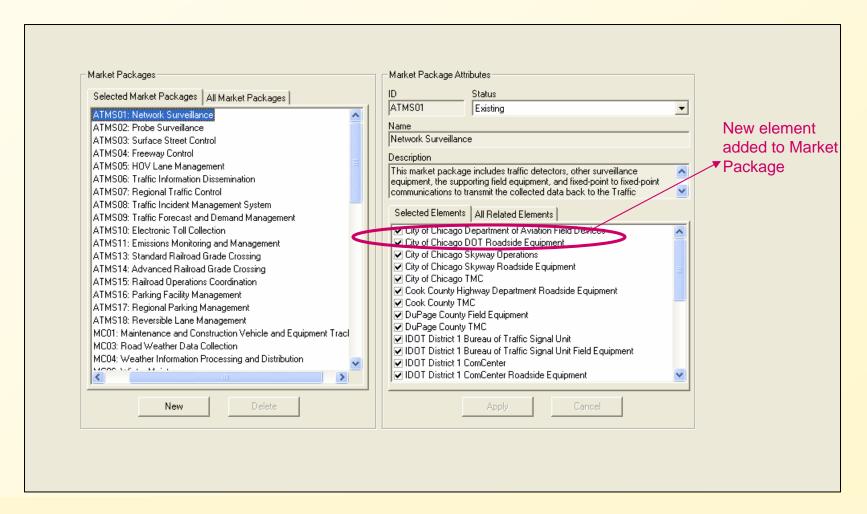




















### **Upcoming Workshops**

- Currently scheduled at the CMAP offices downtown the week of May 7<sup>th</sup>
  - 1 session Tuesday & Thursday, 2 on Wednesday
- Proposed functional area workshops:
  - Arterial Operations
  - Emergency Management and Security
  - Expressway Operations
  - Transit Operations
  - Traveler Information, Construction, Maintenance and Data Archival would be addressed in each session









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