

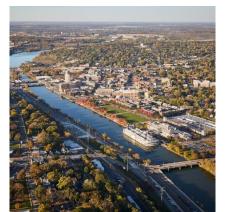
Transportation Technology and Operations Coalition

November 6, 2025 9:30 – 11:00 a.m.

When you are not speaking, please mute your microphone to reduce background noise.



















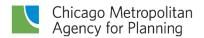
1.0 Welcome

Stephen Zulkowski, DuDOT (Chair)



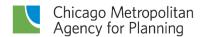
2.0 Agency updates

Open discussion among TTOC members regarding current work projects, topics of interest for upcoming meetings, etc.



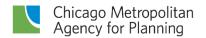
3.0 CMAP announcements

Aaron Brown and Noah Harris, CMAP



4.0 Regional ITS Architecture update

Matthew Letourneau, AECOM





Northeastern Illinois ITS Architecture Update

Transportation Technology and Operations Coalition (TTOC)

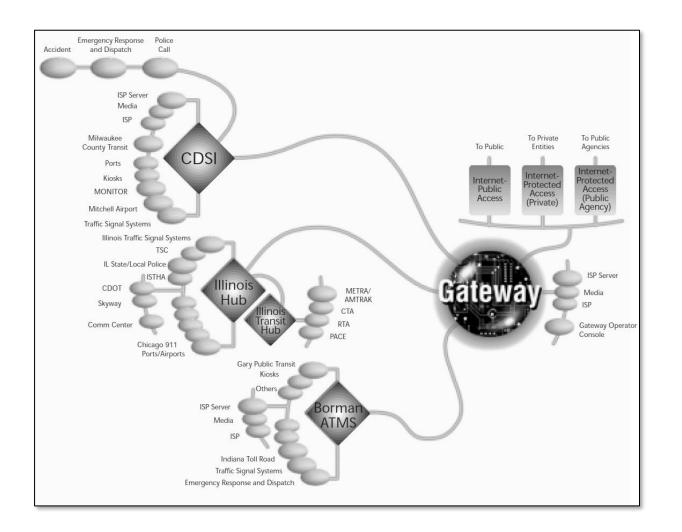
Quarterly Meeting, November 2025

Matt Letourneau Ming-Shiun Lee Dan Nelson



Agenda

01 Need for an ITS architecture02 Update process overview03 Agency collaboration04 Next steps





Defining the ITS Architecture

- Roadmap for transportation systems integration
- Reflects the goals of ON TO 2050
- Developed and updated through collaboration among regional transportation stakeholders
- Defines the stakeholders, elements, services, functions, interfaces, agreements, and projects that make up our ITS landscape
- Consists of a website, RAD-IT database, and supporting documents



Evolution of the Regional Architecture



1999 Strategic Early Deployment Plan



2003
First version of the
Northeastern Illinois
Regional ITS Architecture



2015
Approval of
Version 3.0 of the
architecture



2000 Tier 1 Architecture workshop (CATS)



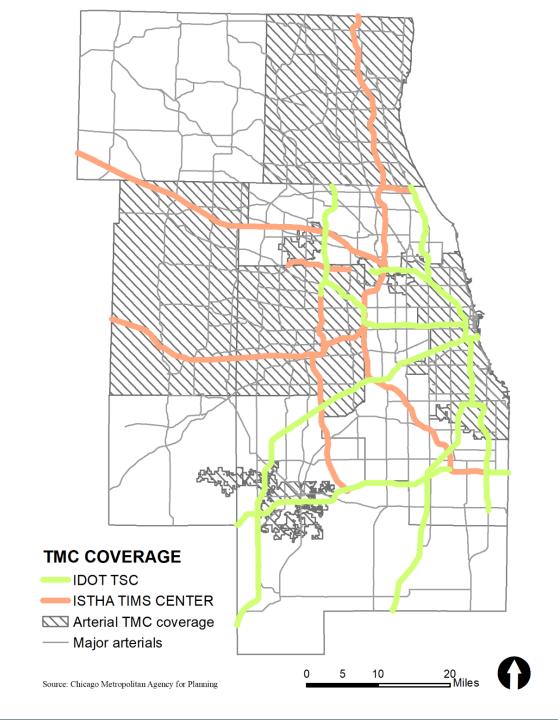
2008
Initial update related to emergency management, arterial operations, expressways, and transit



2020-2022 Introduction of ARC-IT, architecture converted to RAD-IT, Version 4.0 approved

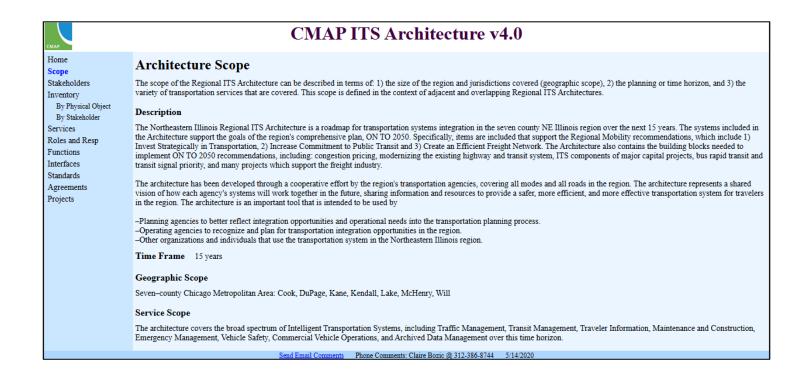
Why Do We Have an ITS Architecture?

- Supports upcoming MPO federal certification process
- Required to apply federal funds toward ITS projects
- Effective tool for collaborative planning transportation technology deployments
- Promotes integration, information sharing, operational coordination
- Provides visibility into the relationship between individual projects



Scope of this Update Cycle

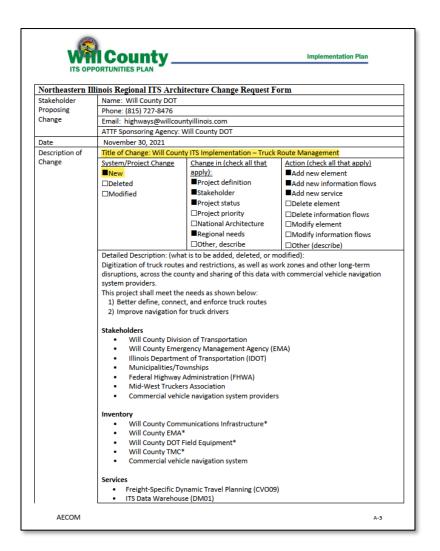
- Add outstanding projects to the architecture 4. Revise the architecture executive summary
- Review and update architecture items
 - 5. Provide guidelines for element interfaces
- Update the architecture website





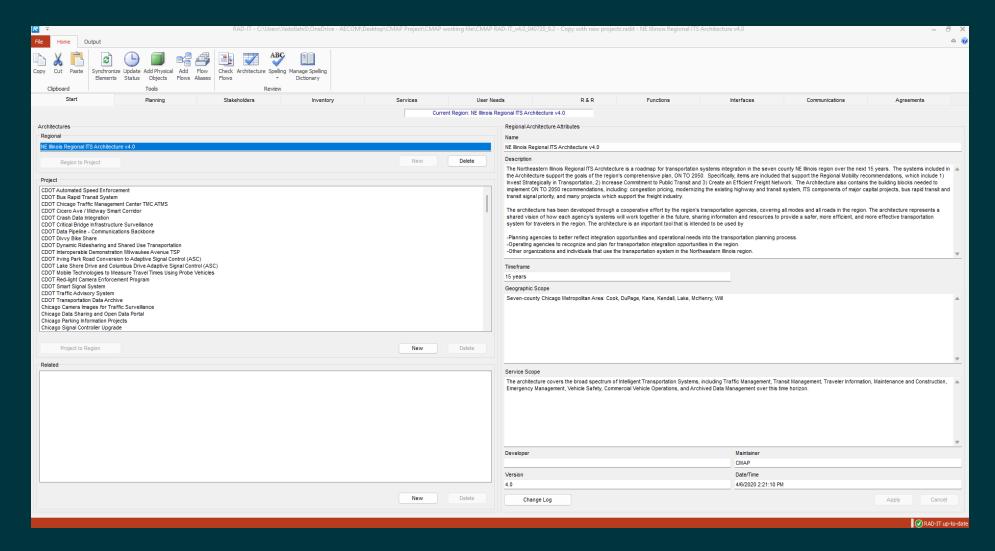
Add Outstanding Projects to the Architecture

No.	Title of Change	Project Status
01	Truck Route Management	Proposed
04	Common Communication Platform	Proposed
05	Centralized Traffic Signal System (CTSS)	Proposed
06	Construction Information Data Portal	Proposed
07	Computer Aided Dispatch (CAD) Integration	Proposed
80	Interconnected Traffic Signal Systems	Existing
09	Community Alert System Expansion	Proposed
10	Smart Work Zone Management Systems	Proposed
11	Intermodal Facility Data Sharing	Proposed
12	Traffic Management Center (TMC)	Proposed
13	Smart Truck Corridors	Proposed
14	Commercial Vehicle Alerts	Proposed
15	Third Party Traffic Data	Proposed
16	Infrastructure Asset Management System	Proposed
17	Highway Rail Crossing Notification System	Proposed
18	Gateway System Link	Proposed
19	Weigh-in-motion (WIM) Stations	Proposed
20	Countywide Transportation Information Repository	Proposed





Add Outstanding Projects to RAD-IT





Review and Update Architecture Items



Northeastern Illinois Regional ITS Architecture (V4.0)

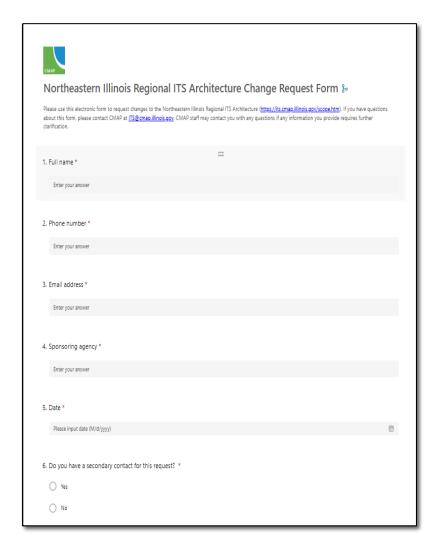
List of ITS Projects

October 15, 2025

This document includes a listing of the 148 individual TS projects contained in Version A.D of the Northeastern Illinois Regional TS Athlecture. As a regional TS stakeholder, your input is needed to identify updates to these projects. This includes changes in status, timeframe, or other project details. Please filter to your agency or your agency and add your comments in the highlighted cells (column F) to identify desired changes. To share more specific details about a project listest below, or to provide information about a new TIS project that is not shown in this list, please use the new online <u>Architecture Change Request Form</u>.

When you have finished adding your comments, please save and send this file to Matt Letourneau at matthew.letourneau@aecom.com.Thank.you.

Stakeholder	Project	Status	Timeframe	Description	Stakeholder Update Comments
CDOT	CDOT Automated Speed Enforcement	Existing	Short	This project includes the tue of cameras and speed detection for automatic ticketting of speeding vehicles. The focus is on safety speed zones (tchools and parks). The cameras are also capable of caputing raffic (volume and speed data, which can be accessed by CDOT. There are plans to expand CDOT access to system cameras to view live video streams.	
СДОТ	CDOT Bus Rapid Transit System	Existing	Short	This project refers to the implementation of bus rapid transit and related systems. This project covers the road side of BRT development which includes changes in lane configurations, allowed turns, and transit signal priority (TSP), and other traffic signal changes. The TSP aspect consists of street side equipment including communications, signal upgrades, and agreements. Two projects have been completed which only dealt with the road side of BRT and implemented TSP. Ashland Avenue and Western Avenue. The transit side project elements, listed under the CTA BRT project include stations, station fare collection equipment, station passerps information, and unique BRT vehicles. Two projects have been completed which implemented the road side and transit side of BRT. Loop Link (East-West Downtown BRT) and Jeffrey Jump. The Clarge DOT received UWP funding to develop a Chicago Bus Rapid Transit Master Plan in FY 13.	
CDOT	CDOT Chicago Traffic Management Center TMC ATMS	Existing	Mid	The project supports the City of Chicago's Smart City Initiative and includes the planning, design, and deployment of an integrated system that the summorns diverse systems and technologies together. Paroson worked with the Chicago Department of Transportation (CDOT) to meet the City's goal of collecting and processing data from multiple sources across departments to optimize transportation planning, design, management, and maintenance activities.	
CDOT	CDOT Cicero Ave / Midway Smart Corridor	Planned	Short	The advanced traffic management system is implemented and has deployed 10 signals, 7 CCTVs, 2 DMS, and multiple system detectors. Future enhancements relate to traffic adaptive control on the signals and possibly other roadside device enhancements. The other component of the smart corridor is the advanced traveler information systems, which provides upgrades to several traveler information systems along the smart corridor. Specifically the project will include lightneys advisory radio upgrades to provide information on delays and closures at highway art intersections, and installation of additional dynamic message signs.	
CDOT	CDOT Crash Data Integration	Existing	Short	Implementation of electronic collection of crash reports on–site by Chicago Police Department using mobile data terminals. This is 100% complete and transmits xml formatted data to the Chicago Department of Transportation.	
CDOT	CDOT Critical Bridge Infrastructure Surveillance	Planned	Long	This project involves installation of CCTV cameras and weather sensors on City of Chicago bridges. These devices ensure the safety and security of the bridges as well as the motorists. Video and sensor data will provide information to assist in pre-treatments with chemicals to prevent black ice buildup.	
CDOT	CDOT Data Pipeline – Communications Backbone	Existing	Short	Provide connectivity from Daley Center to IDOT-CTIC and Gateway Servers at IDOT ITS Program Office. Will include fiber along CTA Blue Line and Tollway to IDOT District 1.	
СДОТ	CDOT Divvy Bike Share	Existing	Short	Bicycles and bicycle docking stations available to the public by daily payment or animal subscription. Wireless centralized tracking of docking station use is monitored and truck are dispatched to balance bicycle supply between stations. The bicycles are equipped with GPS devices so their locations can be maded. Wireless centralized payment system is also in place. The system is existing upon it is being expanded to locations throughout the city. The system is currently owned by the City of Chicago and is operated by the company Motivate, owned by Lyft, under a comment with the City of Chicago until 2023.	
CDOT	CDOT Dynamic. Ridesharing and Shared. Use Transportation	Planned	Short	Reflects current and planned tue of car sharing applications in region and data sharing with Chicago open data portal. Also reflects B—Scooter pilot project in 2019 that will expand in 2020. Pilot tested the viability of scooters from maintpile companies as a mobility option. Scooter vendor companies required to make trip data available to the City that is posted to the City's Open Data Portal.	
CDOT	CDOT Interoperable Demonstration	Existing	Short	Demonstration of inter operable transit signal priority system on Milwaukee Avenue between Jefferson Park and Golf-Milwaukee. This segment includes various traffic signals and serves both CTA and Pace buses. Transit signal priority system is installed and	





Next Steps

- Gather stakeholder input
- Conduct targeted stakeholder interviews
- Incorporate projects into the architecture
- Update the website and executive summary
- Develop the architecture interface guidelines document







Thank you.

Links:

- ARC-IT website
- Northeastern Illinois Regional ITS Architecture
- ITS architecture change request form



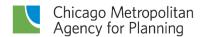
5.0 2026 meeting dates

February 5, 2026

May 7, 2026

August 6, 2026

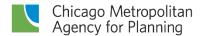
November 5, 2025



6.0 Adjournment

February 5, 2026

Location: TBD





Transportation Technology and Operations Coalition

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