

Cook DuPage Corridor

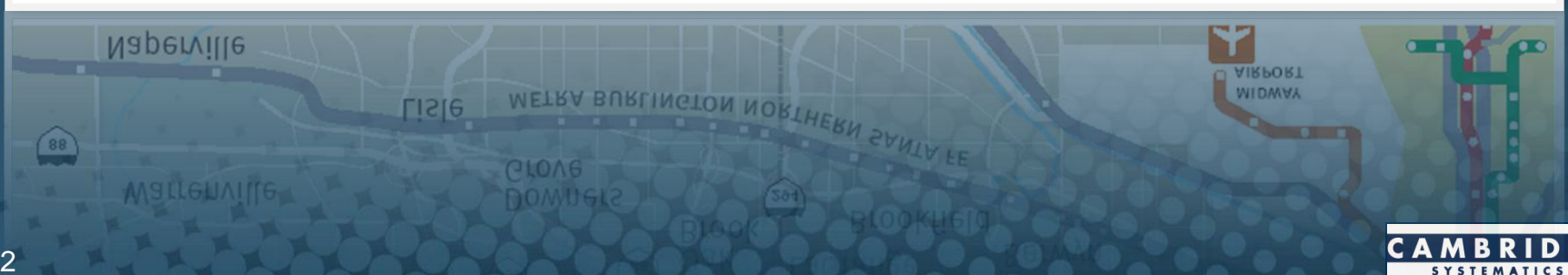
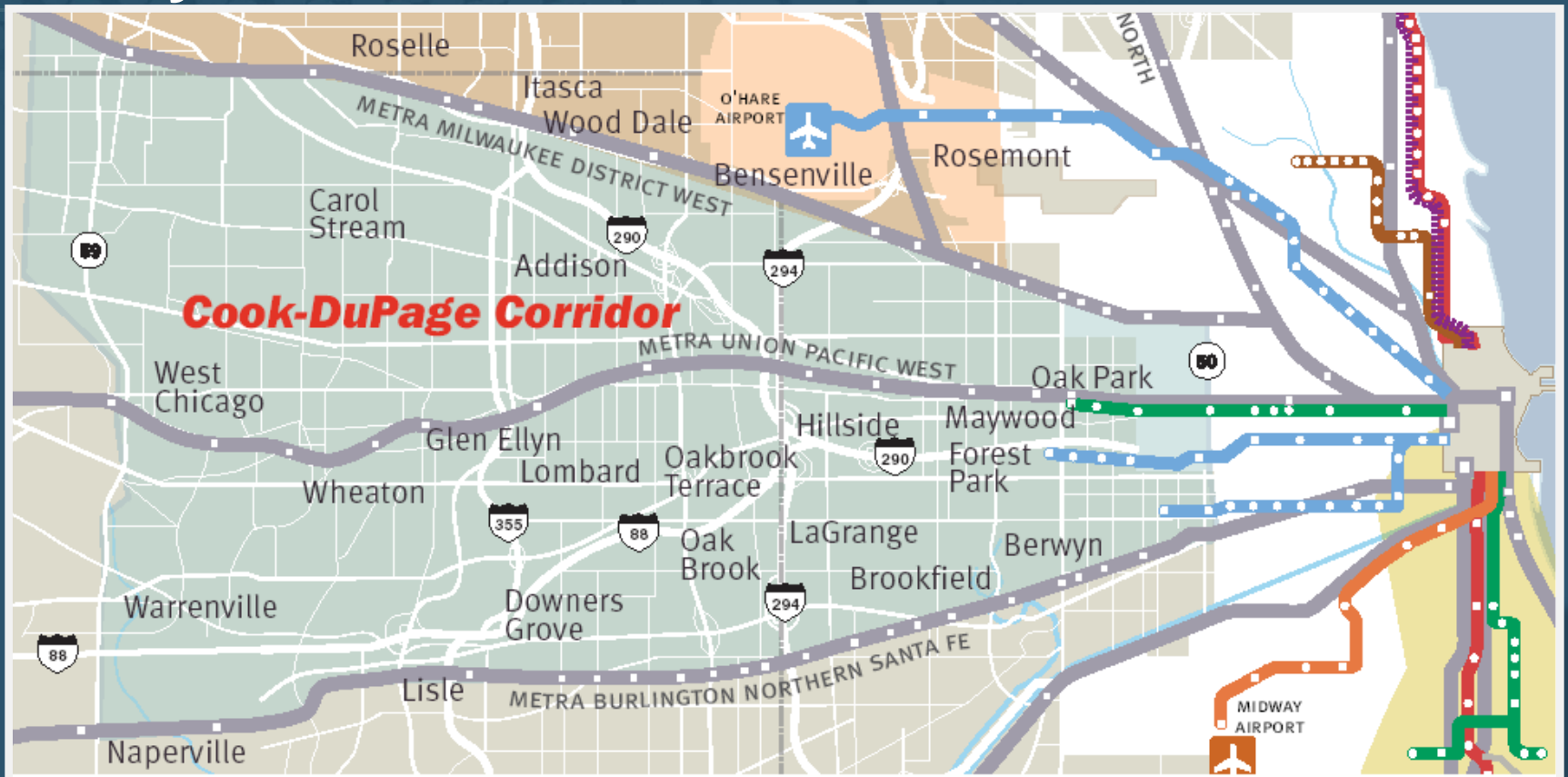
Smart Corridors Plan and Design

presented to
RTOC

presented by
Cambridge Systematics, Inc.

December 8, 2011

Study Area



Smart Corridors Purpose and Goal

- **Purpose:**

- » Improve travel for all modes (vehicles, freight and transit) through low cost operational/ITS solutions.

- **Goal:**

- » Evaluate and prioritize the candidate corridors (40) and select four for implementation and pilot projects.



Potential ITS and Operational Improvement

- **Improved Traveler Information**
 - » Arterial Dynamic Message Signs
 - » Earlier dissemination and information sharing between agencies
 - » Parking availability at park and ride lots
 - » Improved freeway, arterial and transit traveler information (pre-trip and en-route)
 - » Enhance mobile platform information
- **Traffic Management**
 - » Corridor signal coordination
 - » Work zone coordination
- **Incident Management**
 - » Reduced incident clearance times
 - » Incident signal retiming for arterials
 - » Coordinated signal operation
- **Transit Management**
 - » Arterial TSP
 - » Smart parking system
 - » Special events coordination



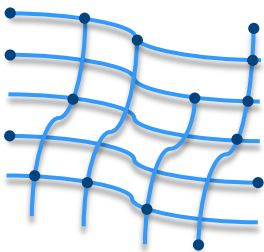
4 Steps to Reach Preliminary Design Stage

1

IDENTIFY CORRIDOR LIMITS

Purpose:

Ensure all corridors are logical candidates for Smart Corridor designation.



Decision Factors:

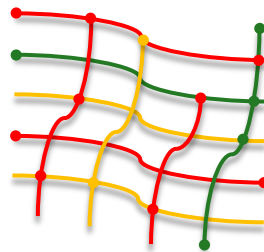
- Roadway network
- Transit locations
- Key nodes

2

PRIORITIZE ALL CORRIDORS (40)

Purpose:

Rank corridors based on evaluation criteria to identify strong candidates.



Decision Factors:

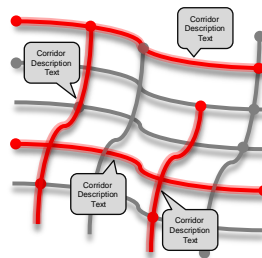
- Evaluation Criteria
- Data Collection

3

CORRIDOR CHARACTERISTIC DIAGRAMS (6-10)

Purpose:

Understand detailed potential benefits and impacts of strong candidates.



Decision Factors:

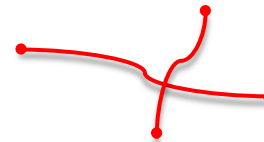
- Operational Review
- Tech Committee Guidance

4

SELECT SMART CORRIDORS (4)

Purpose:

Identify best Smart Corridor candidates for preliminary design.



Decision Factors:

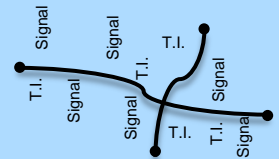
- Technical Review
- Tech Committee Guidance

Phase 2

CONCEPTUAL DESIGN

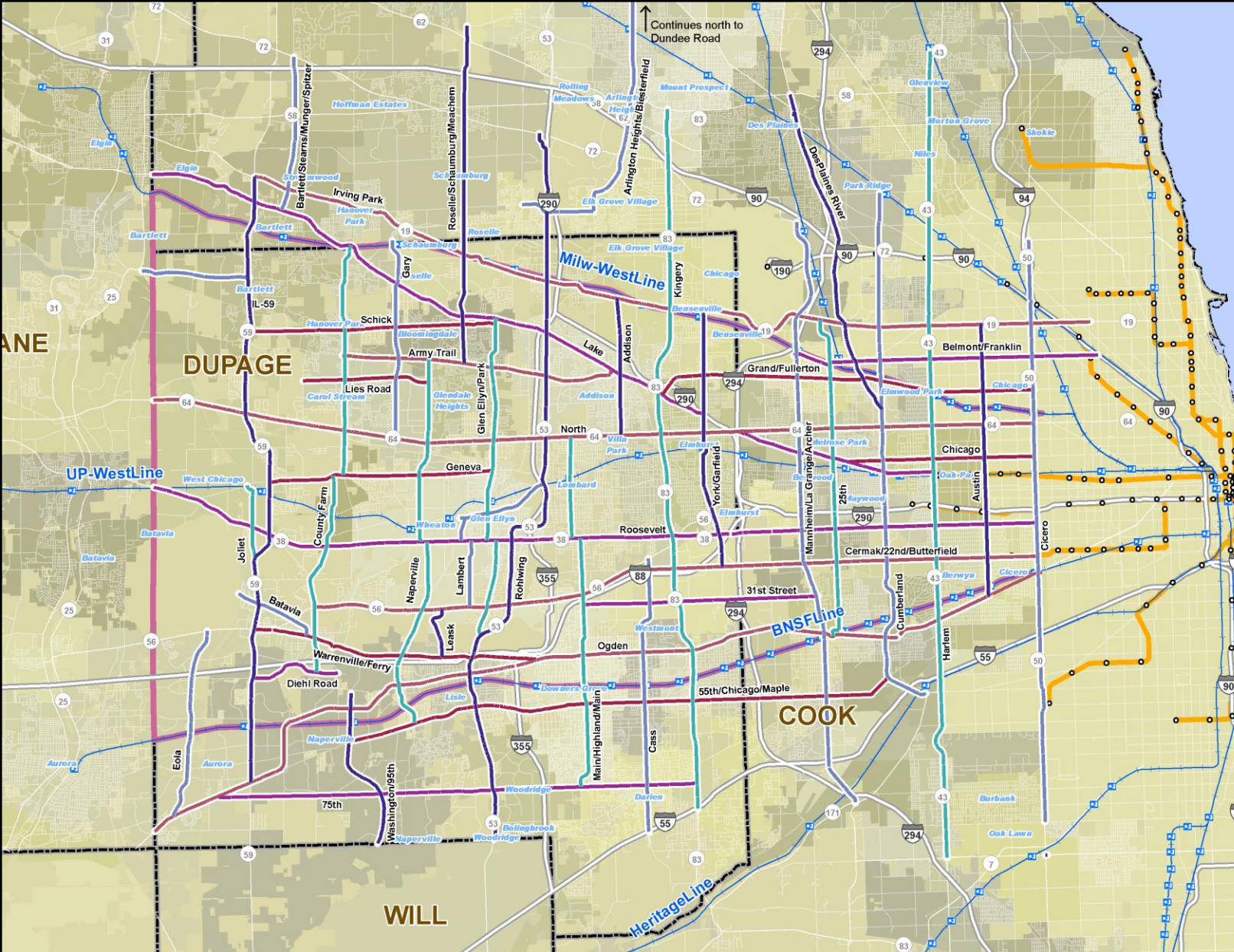
Purpose:

Generate conceptual design plans for each selected corridor.



Including:

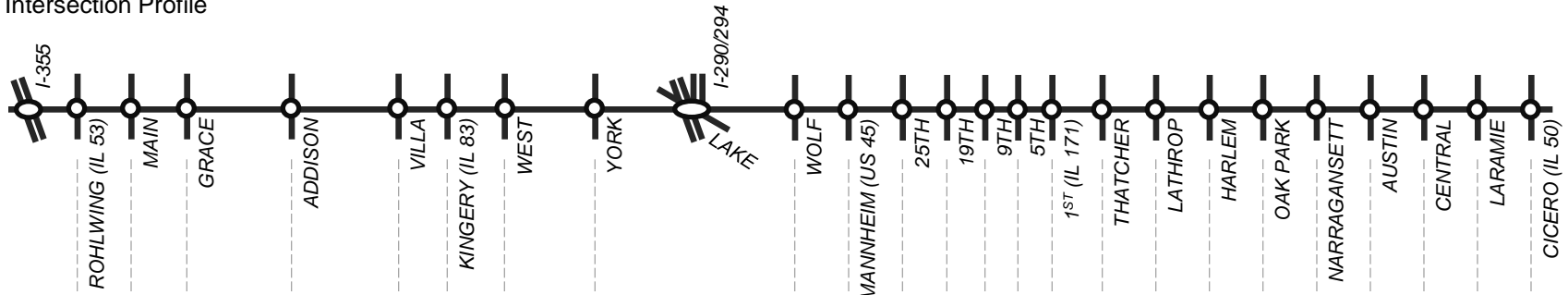
- Concept of Operations
- Assessment of Existing Conditions
- Technology Scan
- Draft MOUs
- Concept Plans



Smart Corridors Limits - Draft

North Avenue Conceptual Corridor Diagram

Intersection Profile



Transit Services Profile



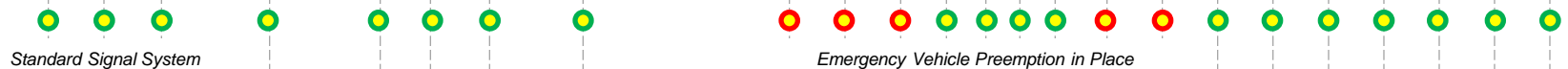
Peak Period Traffic Congestion Profile



Decision Points Profile



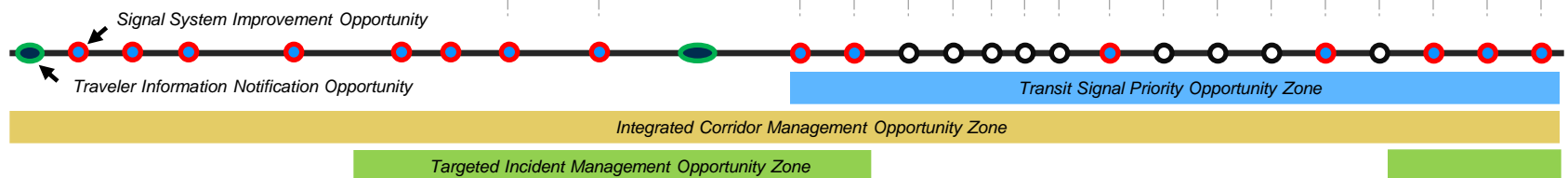
ITS Infrastructure Profile



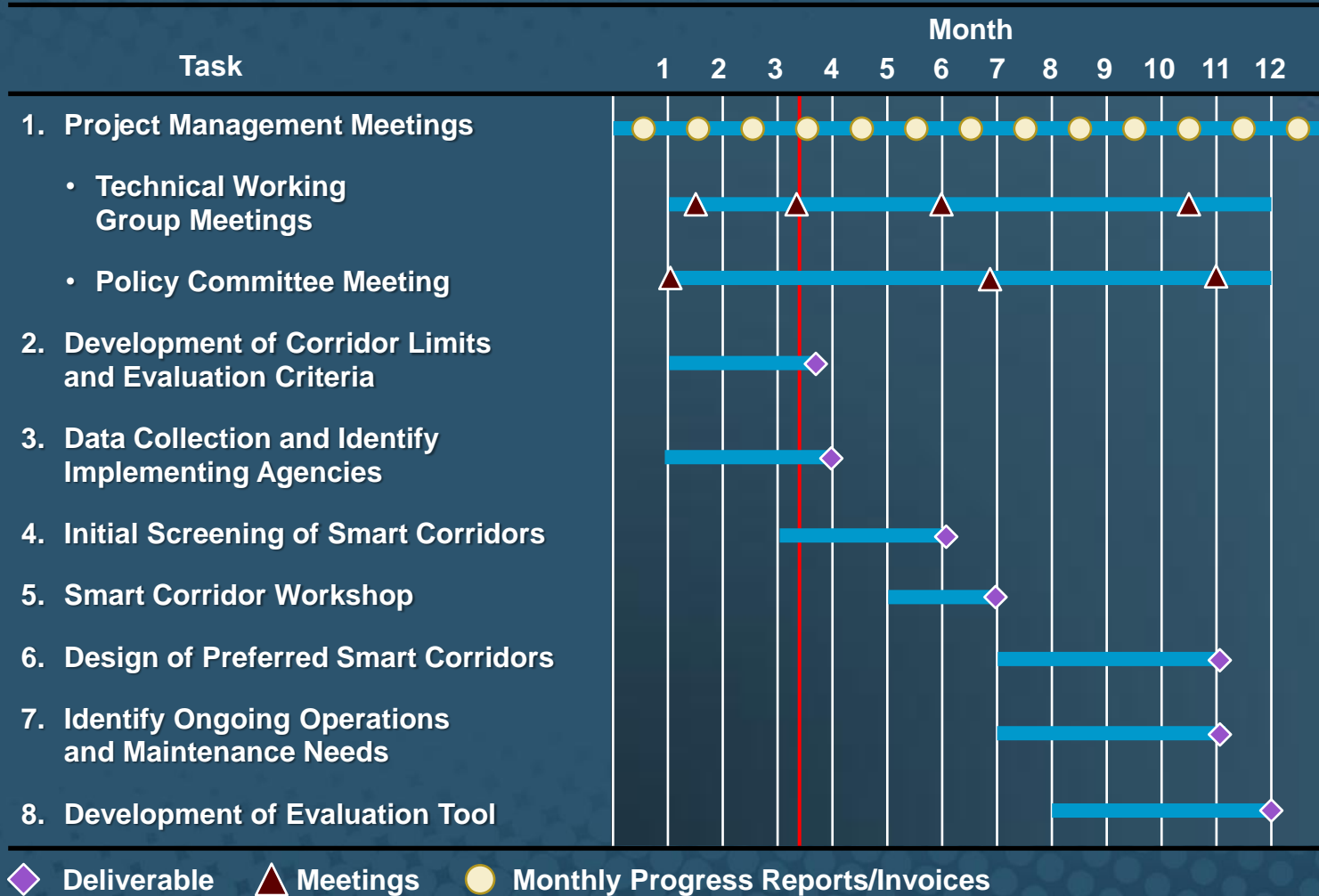
High Incident Zone Profile



Opportunity Areas Profile



Project Schedule



QUESTIONS?