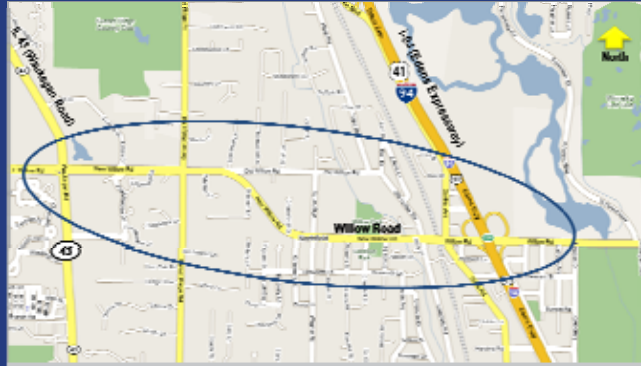


# Community Advisory Group Meeting #7

## Willow Road Study

Illinois Route 43 (Waukegan Road) to  
Interstate 94 (Edens Expressway)

January 20, 2011



1

## Tonight's Topics

- Continue Discussions from CAG Meeting #6
  - Willow Road Pedestrian and Bicycle Safety "Tool Box"
  - Defining Initial Alternatives
- Alternatives Development and Evaluation Process
  - Purpose and Need Evaluation Factors
  - Footprint Analysis Methodology
- Introduction of Full Purpose and Need
- Introduction of 2040 Traffic Forecasts



CAG Meeting #7  
January 20, 2011



2

## Willow Road Pedestrian and Bicycle Safety "Tool Box"

### *Purpose of the Tool Box*

- Tools and techniques to help improve pedestrian and bicycle safety
- Ten general categories, including:
  - IDOT District 1 Standard Practices
  - Pedestrian Crossing
  - School Route Improvements
  - Bicycle Improvements
  - Signage
  - Others

CAG Meeting #7  
January 20, 2011

3



## IDOT District 1 Standard Practices



High Visibility Crosswalks



Pedestrian Countdown Signals



Pedestrian Pushbutton Treatments



School Route Improvements

CAG Meeting #7  
January 20, 2011

4



## IDOT District 1 Standard Practices

Sidewalks and Walkways



Multi-Use Bike Path



Signs Prompting Motorists



Detectable Warning Tiles & ADA Ramps



CAG Meeting #7  
January 20, 2011

5



## IDOT District 1 Standard Practices

Driveway Improvements



Eliminate Screening by Physical Objects



Transit Stop Treatments



Turn Restrictions



CAG Meeting #7  
January 20, 2011

6



## Other Pedestrian and Bicycle Safety "Tool Box" Items



HAWK Mid-Block Signals



Grade-Separated Crossing Overpass



Grade-Separated Crossing Underpass



In-Road Crosswalk Warning Lights



Passive Pedestrian Sensor



Pedestrian Refuge Island

CAG Meeting #7  
January 20, 2011

7



## Other Pedestrian and Bicycle Safety "Tool Box" Items



Double-Sided Pedestrian Crossing Signs



Signs to Prompt Pedestrians



Pavement Legends



SCHOOL Pavement Marking



Roadway Lighting



Bollards & Protective Barriers

CAG Meeting #7  
January 20, 2011

8



## Other Pedestrian and Bicycle Safety "Tool Box" Items



Roadside Fence



Education, Outreach & Training



Radar Speed Display Sign



Red Light Running Camera

CAG Meeting #7  
January 20, 2011

9



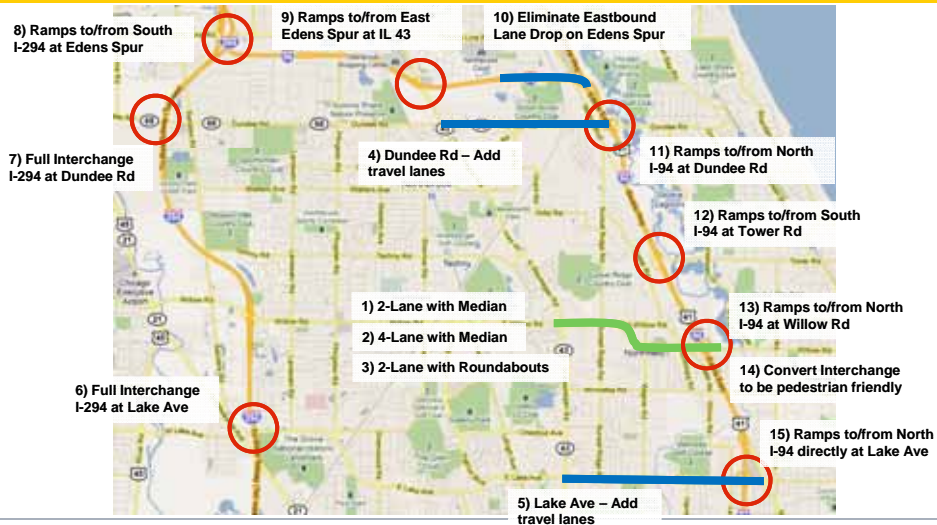
## CAG Discussion

CAG Meeting #7  
January 20, 2011

10



## Defining Initial Alternatives



CAG Meeting #7  
January 20, 2011

11



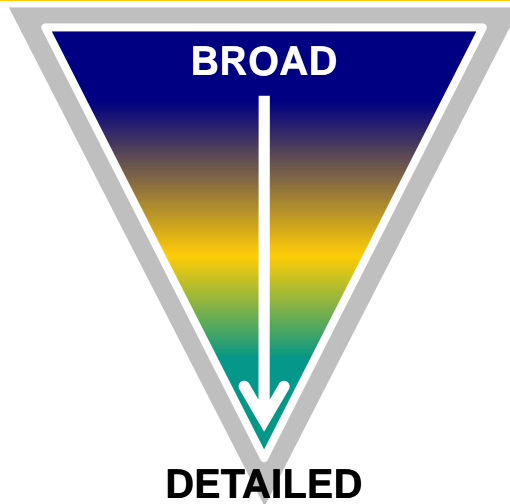
## CAG Discussion

CAG Meeting #7  
January 20, 2011

12



## Alternatives Development and Evaluation Process

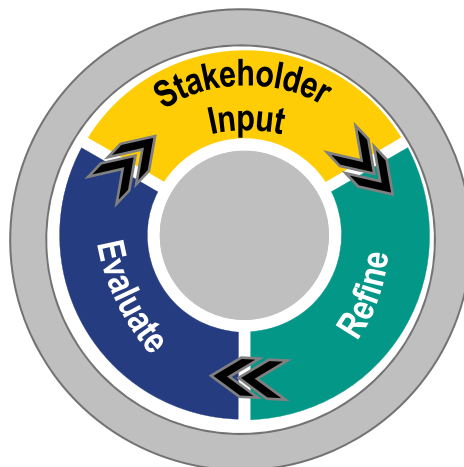


CAG Meeting #7  
January 20, 2011

13



## Alternatives Development and Evaluation Process

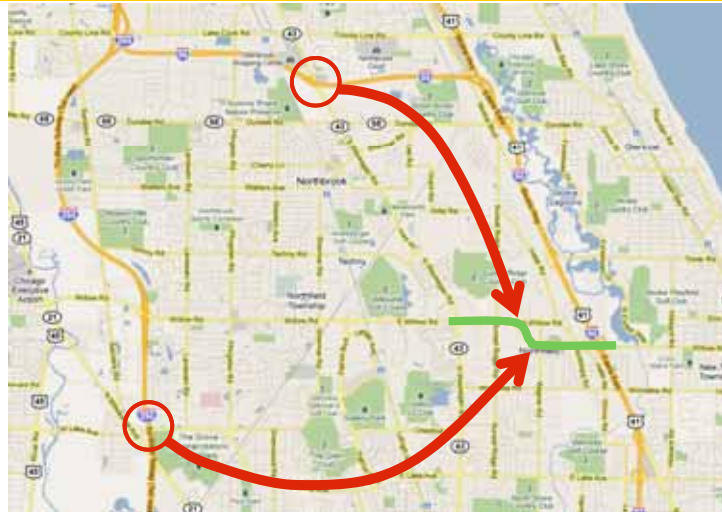


CAG Meeting #7  
January 20, 2011

14



## Alternative Development and Evaluation Process

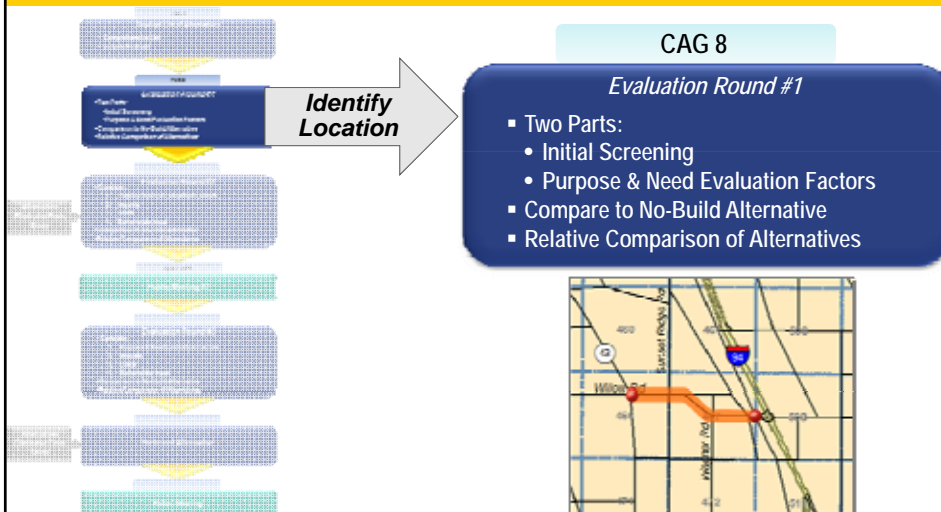


CAG Meeting #7  
January 20, 2011

15



## Alternatives Development and Evaluation Process



CAG Meeting #7  
January 20, 2011

16



## Alternatives Development and Evaluation Process

### Methodology for Evaluation Round #1

Initial Screening and Purpose & Need Evaluation Factors  
Identify Location

Level of Detail:	Tools:	Comparison Criteria:
<ul style="list-style-type: none"> <li>• High level analysis</li> <li>• Identify location of alternatives</li> </ul>	<ul style="list-style-type: none"> <li>• Highway Safety Manual</li> <li>• Travel Demand Model</li> <li>• Highway Capacity Manual</li> <li>• Existing Aerial Photography</li> <li>• Maps and GIS</li> </ul>	<ul style="list-style-type: none"> <li>• Calculated safety performance                             <ul style="list-style-type: none"> <li>• Vehicles</li> <li>• Pedestrians</li> </ul> </li> <li>• LOS at Willow Road/Sunset Ridge Road intersection</li> <li>• Facility condition and design</li> <li>• Flaw analysis</li> </ul>

CAG Meeting #7  
January 20, 2011

17



## Purpose and Need

### - EXAMPLE -

Evaluation Round #1 - Purpose & Need Test			
Alternative	CRITERIA		
	Safety (Calculated Rate*)	Mobility (LOS)	Facility Condition and Design (Reconstruct)
No Build	225	F	No
A	215	F	No
B	190	E	Yes
C	210	D	Yes
D	220	E	No

CAG Meeting #7  
January 20, 2011

\* From Highway Safety Manual (HSM)

18



## Flaw Analysis

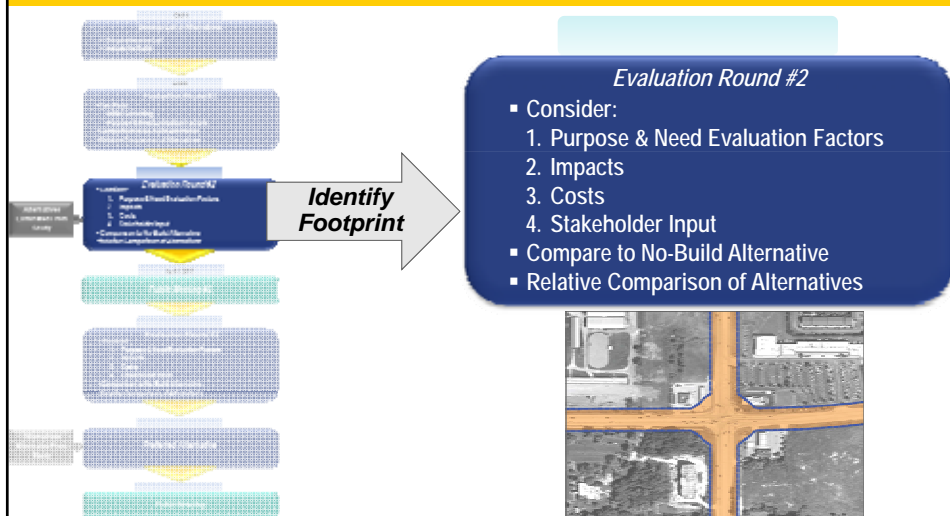
- Impacts
  - Displacements
  - Environmental Features
- Costs (Conceptual Level)
  - Recent Construction Data
  - Location-specific Review

CAG Meeting #7  
January 20, 2011

19



## Alternatives Development and Evaluation Process



CAG Meeting #7  
January 20, 2011

20



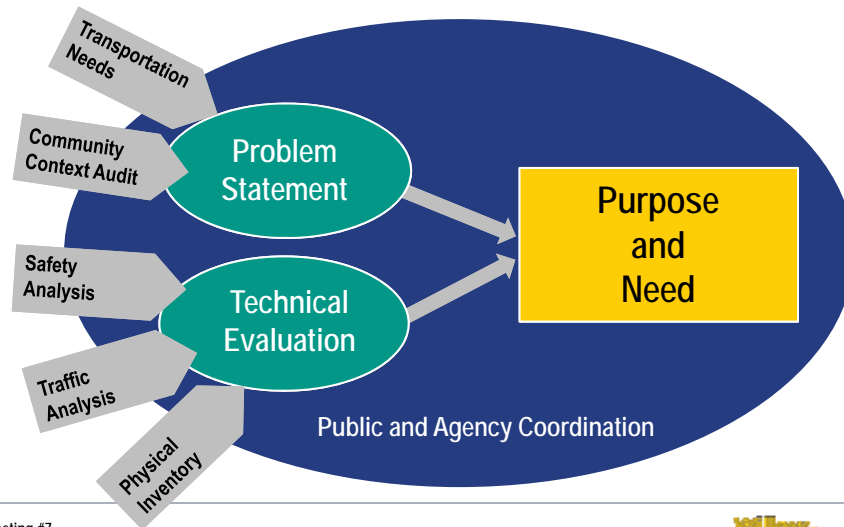
# CAG Discussion

CAG Meeting #7  
January 20, 2011

21



## Purpose and Need



CAG Meeting #7  
January 20, 2011

22



## Purpose and Need

### ■ Purpose

The purpose of the proposed action is to address existing and 2040 transportation needs along Willow Road, from Illinois Route 43 (Waukegan Road) to Interstate 94 (Edens Expressway). The specific needs of the project include improving or enhancing safety for all users, improving mobility, and improving the facility condition and design. These needs will be addressed through either local, regional, or a combination of improvements.

### ■ Needs

- Safety
- Mobility
- Facility Condition and Design

CAG Meeting #7  
January 20, 2011

23



## CAG Discussion

CAG Meeting #7  
January 20, 2011

24



## Introduction of 2040 Traffic Forecasts

- CMAP Regional Plan is updated every 4 years.
- New traffic forecasts are generated based on an updated look at the Chicagoland area in the future.

[www.cmap.illinois.gov/2040](http://www.cmap.illinois.gov/2040)



CAG Meeting #7  
January 20, 2011

25



## Existing (2009) Annual Average Daily Traffic (AADT)

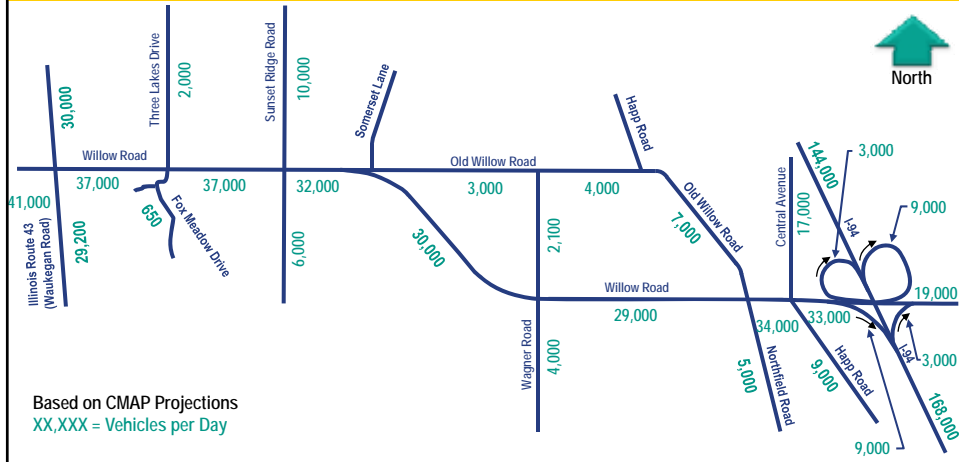


CAG Meeting #7  
January 20, 2011

26



## 2030 No-Build AADT



CAG Meeting #7  
January 20, 2011

27



## 2040 No-Build AADT

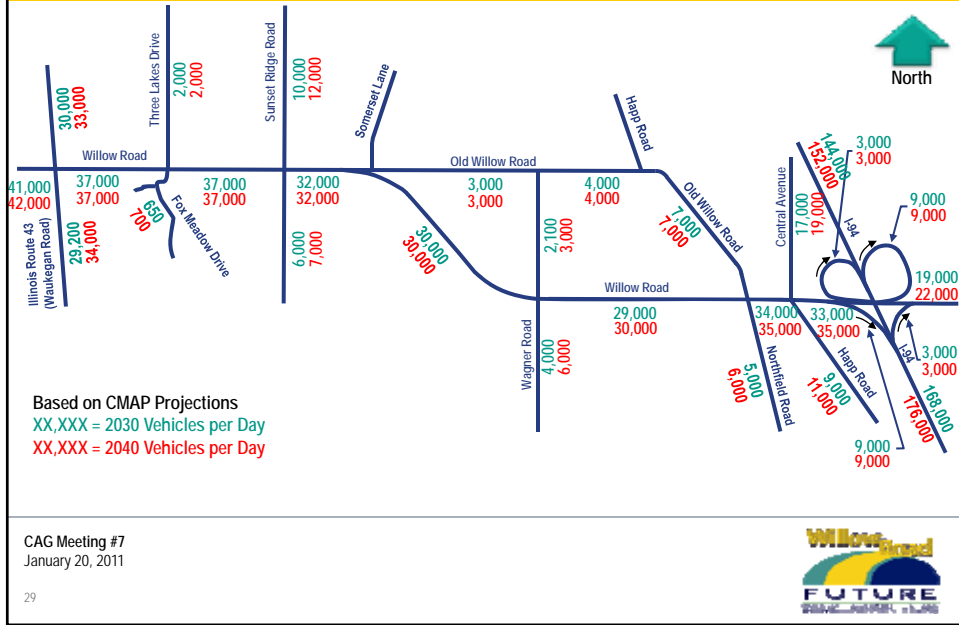


CAG Meeting #7  
January 20, 2011

28



## 2030 and 2040 No-Build AADT



## CAG Discussion

CAG Meeting #7  
 January 20, 2011

30



## Next Steps

- **Begin Evaluation Process**
  - Round #1
  - Cost and impacts to better define alternatives
  
- **Red Line Revisions to Traffic Analysis Report and Physical Inventory Report**

CAG Meeting #7  
January 20, 2011

31



## CAG Meeting #7

- **Initial Comments by February 21, 2011**
- **Thursday, March 10, 2011**
  - 6:00 p.m. to 8:30 p.m.
  - New Trier High School, Northfield Campus
- **Topics**
  - Follow Up Discussions:
    - Results of Alternatives Evaluations
      - Purpose and Need Screening (Round #1)
      - Footprint Analysis (Round #2)
    - Purpose and Need Document
    - 2040 Traffic Forecasts
- **Future Meetings**
  - Public Meeting #2 – April 7, 2011

CAG Meeting #7  
January 20, 2011

32



## Public Comments

CAG Meeting #7  
January 20, 2011

33

