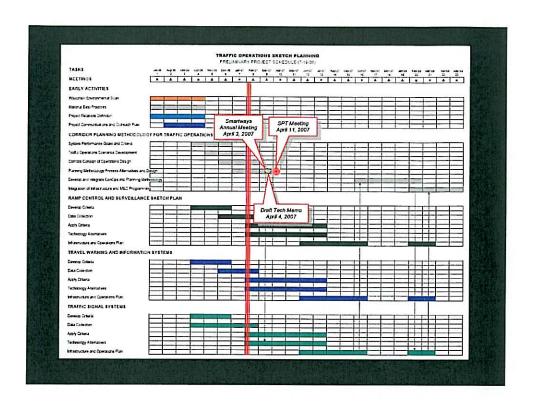
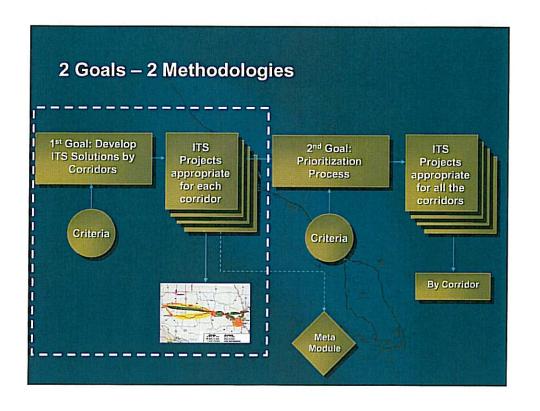
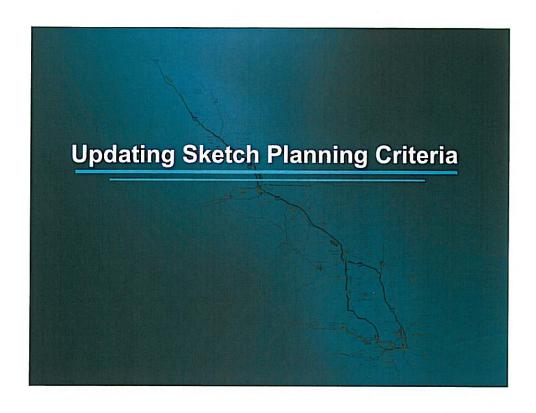
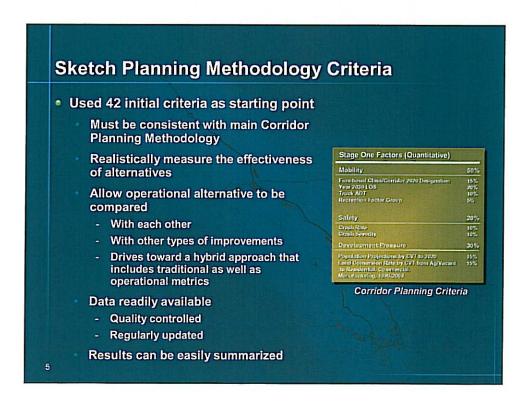


Agenda • Schedule/Progress • Smartways Annual Meeting – Sketch Plan Presentation? • Updated criteria • Concepts for communicating results • Sketch Planning Scenario

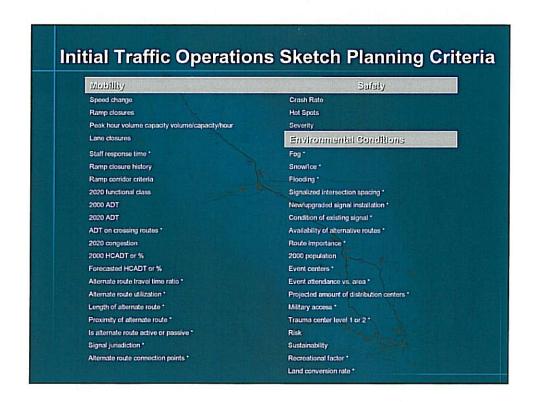








Initial Criteria • Focused on three benefit categories • Mobility • Safety • Adverse Environmental Conditions • Two updates • First updated a SPT Stakeholder Meeting in December • Updated again as part of Technical Memorandum # 3



Updating the Criteria

- Goal: Reduce to manageable number while ensuring operational flavor of criteria are still capture.
 - Readily available data
 - Easily summarized
 - Could be easily ranked
- Process resulted in a reduction from 42 criteria to 12.

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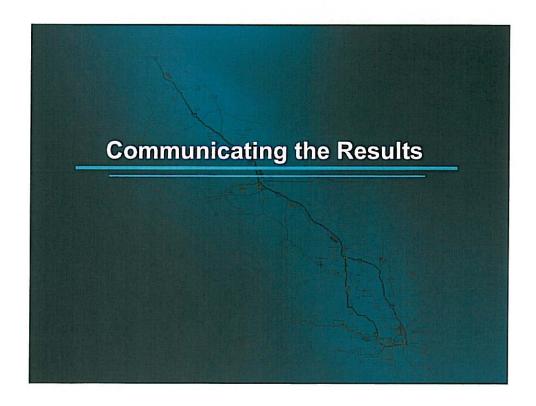
Updating the Criteria

- Initial Concept Create a series of criteria
 - Grouped around functional areas
 - i.e. Ramp Meters, Traveler Information
- Patterns emerged that lent themselves to grouping
 - Weather
 - Fog, Snow, Flooding
 - **Event Generators**
 - Event Centers, Military Bases, Trauma Centers etc.
- Difficulty to capture reliable data
 - Staff Response time, Ramp Closure History
- Alternate Route criteria
- Signal centric criteria

Mebility	
ADT Base Year ADT Forecast Year	Data for 11 out
HC ADT Base Year	of the 12 criteria
HC ADT Forecast Year	can be found in
Peak Hour V/C – LOS	Meta Manager
Congestion Forecast Year – LOS	Weather not
Safety	found
Crash Rate	Growth rates
Crash Severity	calculated
Weather Index	Consider
Davalopmental Pressures	future
ADT Growth (from Base to Foreca	requirements
HC ADT Growth (from Base to Fo	recast)
Event/Traffic Generators	

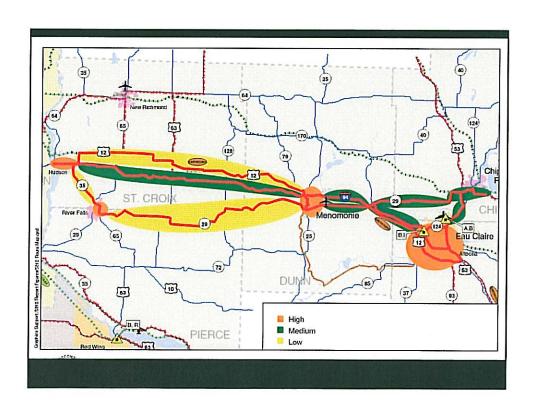
Criteria Mobility ADT Base Year ADT Forecast Year HC ADT Base Year HC ADT Forecast Year Peak Hour V/C – LOS Congestion Forecast Year – LOS Safety	Weight 50% 10% 10% 5% 5% 5% 10% 10%
ADT Base Year ADT Forecast Year HC ADT Base Year HC ADT Forecast Year Peak Hour V/C – LOS Congestion Forecast Year – LOS	10% 10% 5% 5% 10%
ADT Forecast Year HC ADT Base Year HC ADT Forecast Year Peak Hour V/C – LOS Congestion Forecast Year – LOS	10% 5% 5% 10%
HC ADT Base Year HC ADT Forecast Year Peak Hour V/C – LOS Congestion Forecast Year – LOS	5% 5% 10%
HC ADT Forecast Year Peak Hour V/C – LOS Congestion Forecast Year – LOS	5% 10%
Peak Hour V/C – LOS Congestion Forecast Year – LOS	10%
Congestion Forecast Year – LOS	
LOS	10%
Safety	
	20%
Crash Rate	7.5%
Crash Severity	7.5%
Weather Index	5%
Developmental	30%
Pressures	
Pressures ADT Growth	10%
HC ADT Growth	10%

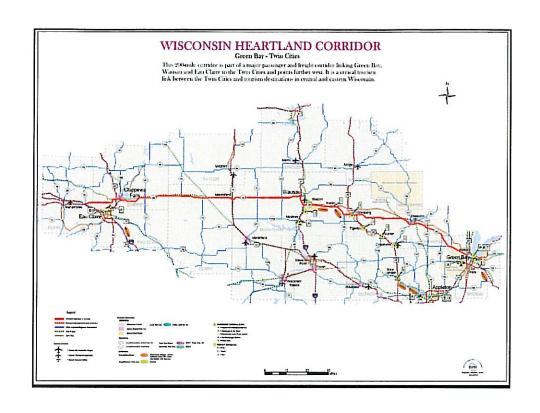
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A. ADT Base Year	o. ^{RO}	C.Nº	O.R.	e.e	,c ^c	A	H	A	3.AS.	A	L	
B. ADT Fores	ast Year	В	В	E	F	В	Н	В	J	К	L	
c,	HC ADT Base	Year	C	C	C	G	H	- 1	С	С	C	
	D. HC AI	OT Fore	cast Year	D	D	G	Н	- 1	D	D	L	
			E. Peak	Hour	E	E	Н	- 1	J	K	L	
			F.	Congesti	on Future	F	H	1	F	F	F	
1 0	- D. D.		- D. D		G. Cra	sh Rate	G	G	G	G	G	
	e each iter eference i					H. Crash	Severily	H	J	K	Н	
THE RESERVE	values to						I. Weath	er Index	1	1	I	
				ille				J. ADT Gro	wth Rate	J	J	
Totals:								К. Н	C ADT Gro	wth Rate	L	
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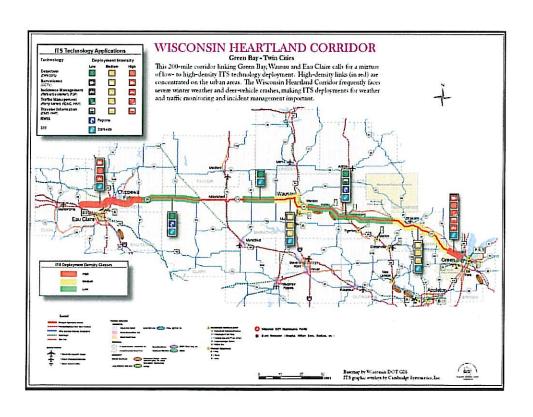


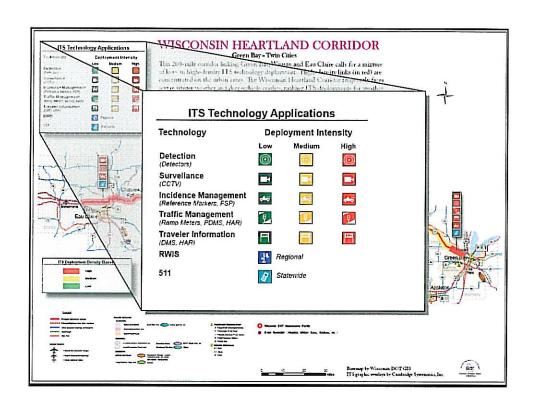
Communicating Results

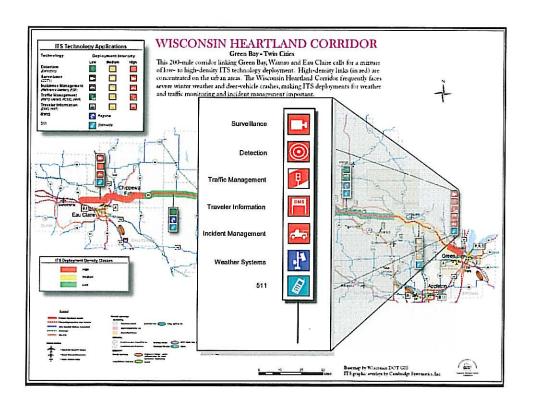
- Goal: Develop ITS Corridor Sketch Plan maps that demonstrate recommended ITS/Operational solutions while still matching overall Corridor Planning Methodology work.
- Challenges:
 - Need for consistency across plans (i.e. GIS Standards)
 - Long statewide corridors (200 miles)
 - Need to show detail for a variety of deployments
 - Level of deployment not location of deployment

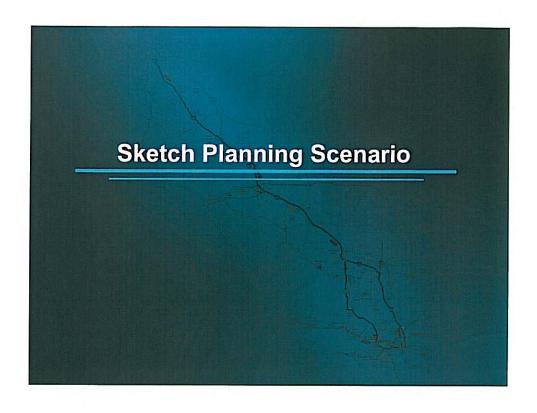


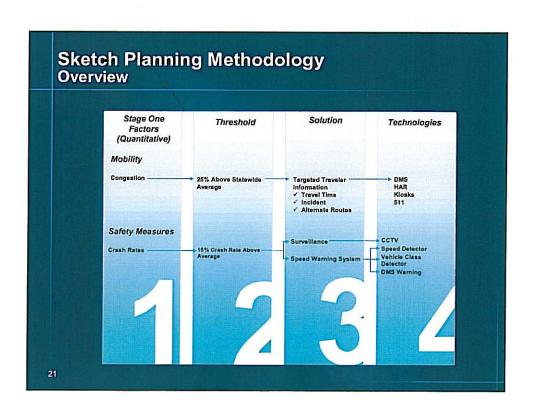












Sketch Planning Methodology Characteristics

- Uses 12 Basic Criteria identified
- Data readily available from existing sources
- Data updated at least annually
- Minimal manipulation of data required

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Sketch Planning Methodology Characteristics

- Analysis conducted in spreadsheet format that can be widely disseminated and easily used
- Criteria closely related to those in Connections 2030
- Takes functional approach to ITS deployment
 - Flexible with regard to technologies deployed
 - Will be able to incorporate new technologies as they emerge

Sketch Planning Methodology Process

- Define Corridor Segment
 - Relatively homogeneous traffic characteristics and land use
 - 5 to 10 miles for urban freeway corridors
 - 10 to 50 miles for rural freeway corridors
 - Shorter for arterial corridors
- Compile corridor data
- Compare to threshold levels
 - Modify thresholds as needed

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Sketch Planning Methodology Process

- Identify tier for operational strategies
- Calculate points for segment
- Apply weights
 - Modify as needed to reflect corridor characteristics
- Identify recommended strategy based on score
- Modify strategy to reflect local concerns
 - Hot spots
 - Corridor characteristics

