

Real-time System Management Information Program (RTSMIP)

North/West Passage Coalition Conformance Assessment

NWP Project 6.2 – 23 CFR 511 Final Rule

April 11, 2013

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WISCONSIN TRAFFIC OPERATIONS AND SAFETY LABORATORY



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

North/West Passage Transportation Pooled Fund Study

Eight member states

Focus on Interstate 90 and 94



Founded 2003

www.nwpassage.info



RTSMIP Legislation

SAFETEA-LU, Subtitle B, §1201 (2005)

- (a) Establish RTSMIP
- (b) Data Exchange Formats
- (c) ITS Architecture - for (a) and (b)
- (d-f) Eligibility, Limitations, Definitions

(a) \neq (b)



RTSMIP Rule Timeline



Not in the Rule

No dissemination requirement

No specific technologies or applications

No specifics for measuring accuracy or quality metrics



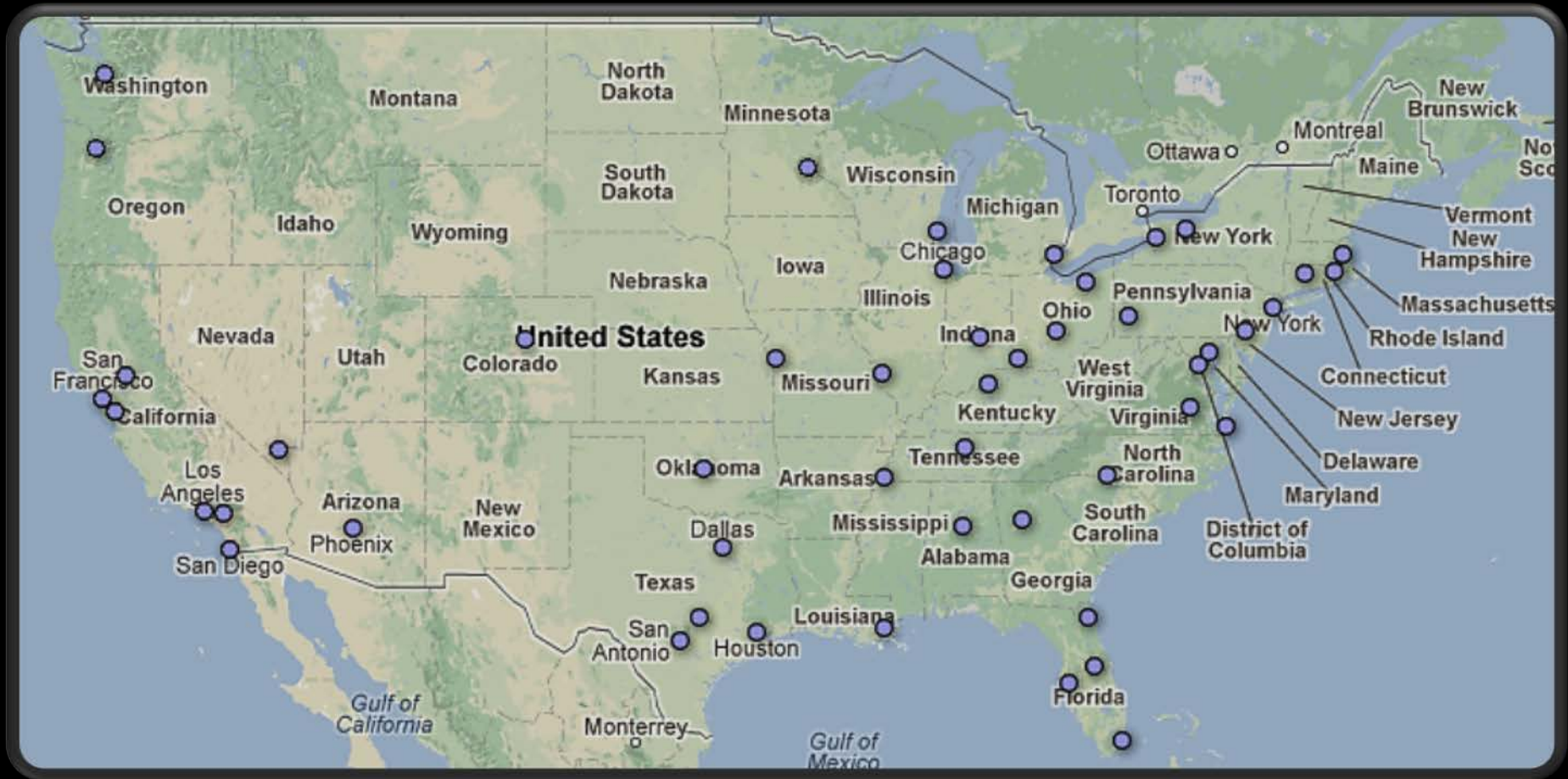
Requirements Summary

Information	Coverage		
	Interstates – Outside Metro	Interstates – Within Metro	Metro Area RoS
Construction – Any lane closure of duration exceeding latency requirement, not short-term or intermittent	20 minute latency from time of closure	10 minute latency from time of closure	10 minute latency from time of closure
Incidents – Any lane blocking incident	20 minute latency from time of verification	10 minute latency from time of verification	10 minute latency from time of verification
Road Weather – Hazardous conditions or lane closures/blockages due to weather	20 minute latency from observation	20 minute latency from observation	20 minute latency from observation
Travel Times	N/A	10 minute latency from calculation	10 minute latency from calculation *
Deadline	November 8, 2014	November 8, 2014	November 8, 2016

* The travel time requirement applies only to limited-access RoS

Metro Areas

List of 49 identified in January 2009 NPRM...



Metro Areas

...since then, San Juan, PR was added

And two more now exceed 1 million population

- Salt Lake City, UT
- Raleigh, NC

Now totaling 52 areas





Metro Area Boundaries

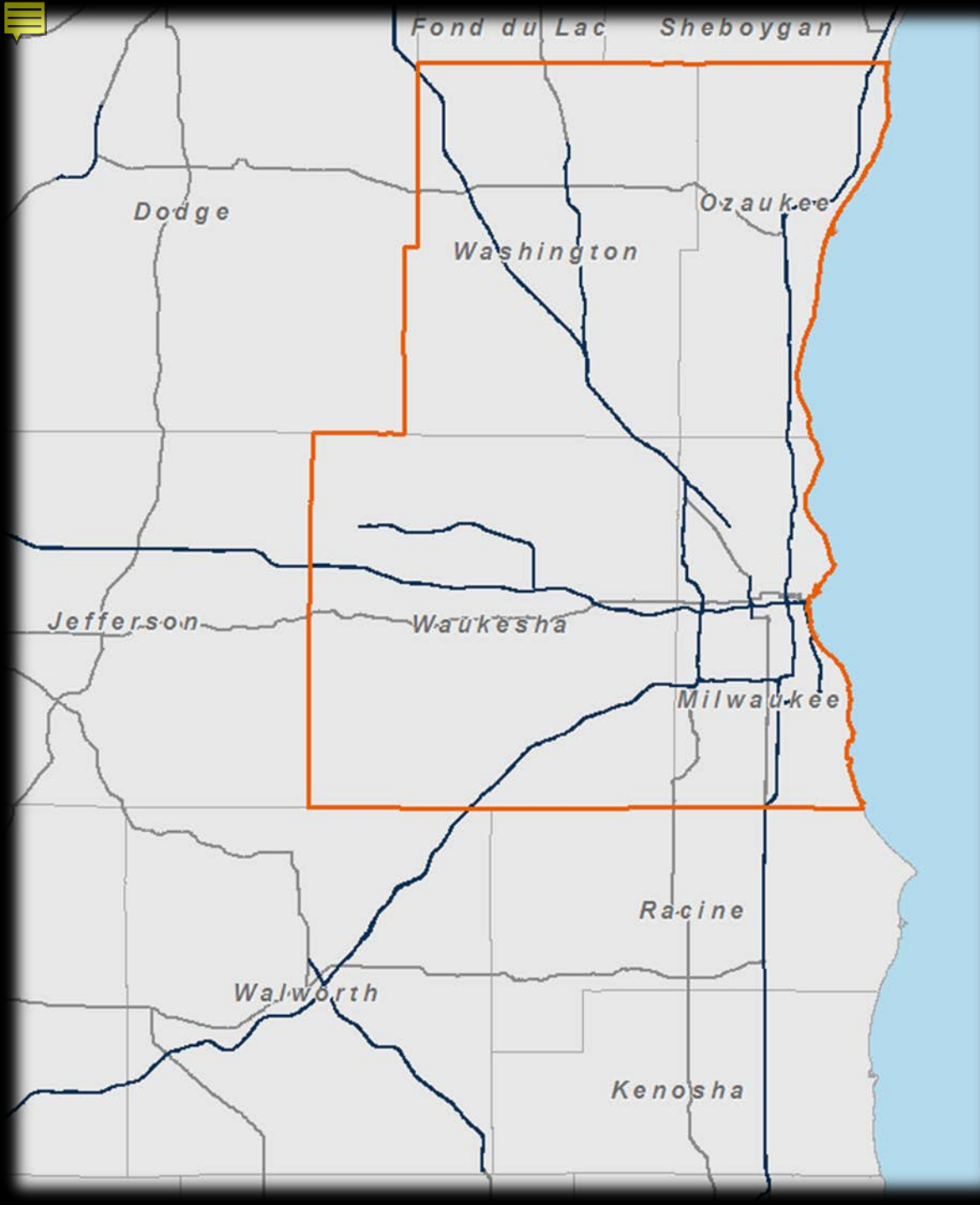
Milwaukee MSA



Metro Area Boundaries



Milwaukee MSA

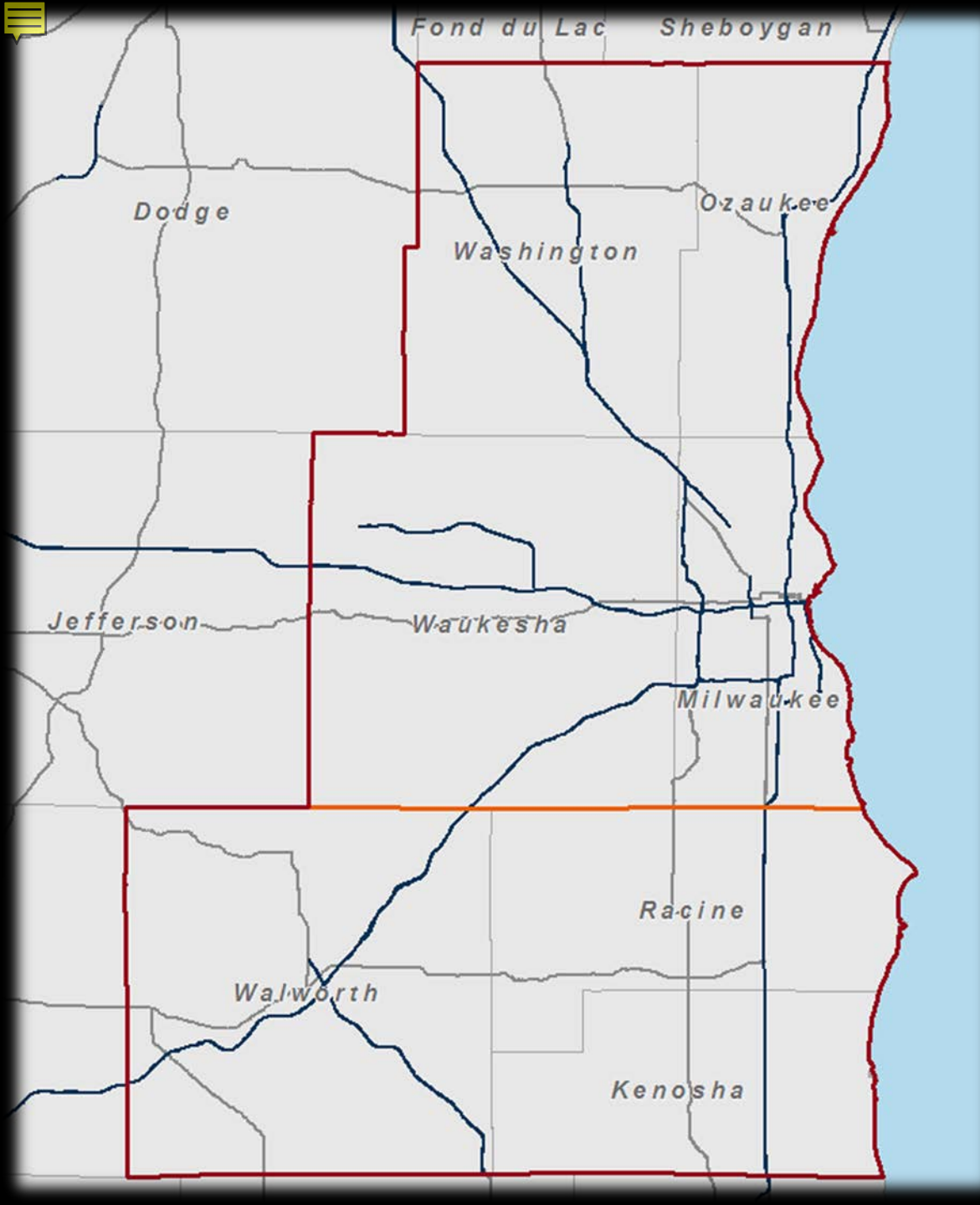
 MSA
(Census)



Metro Area Boundaries

Milwaukee MSA

-  MSA (Census)
-  Planning (MPO)




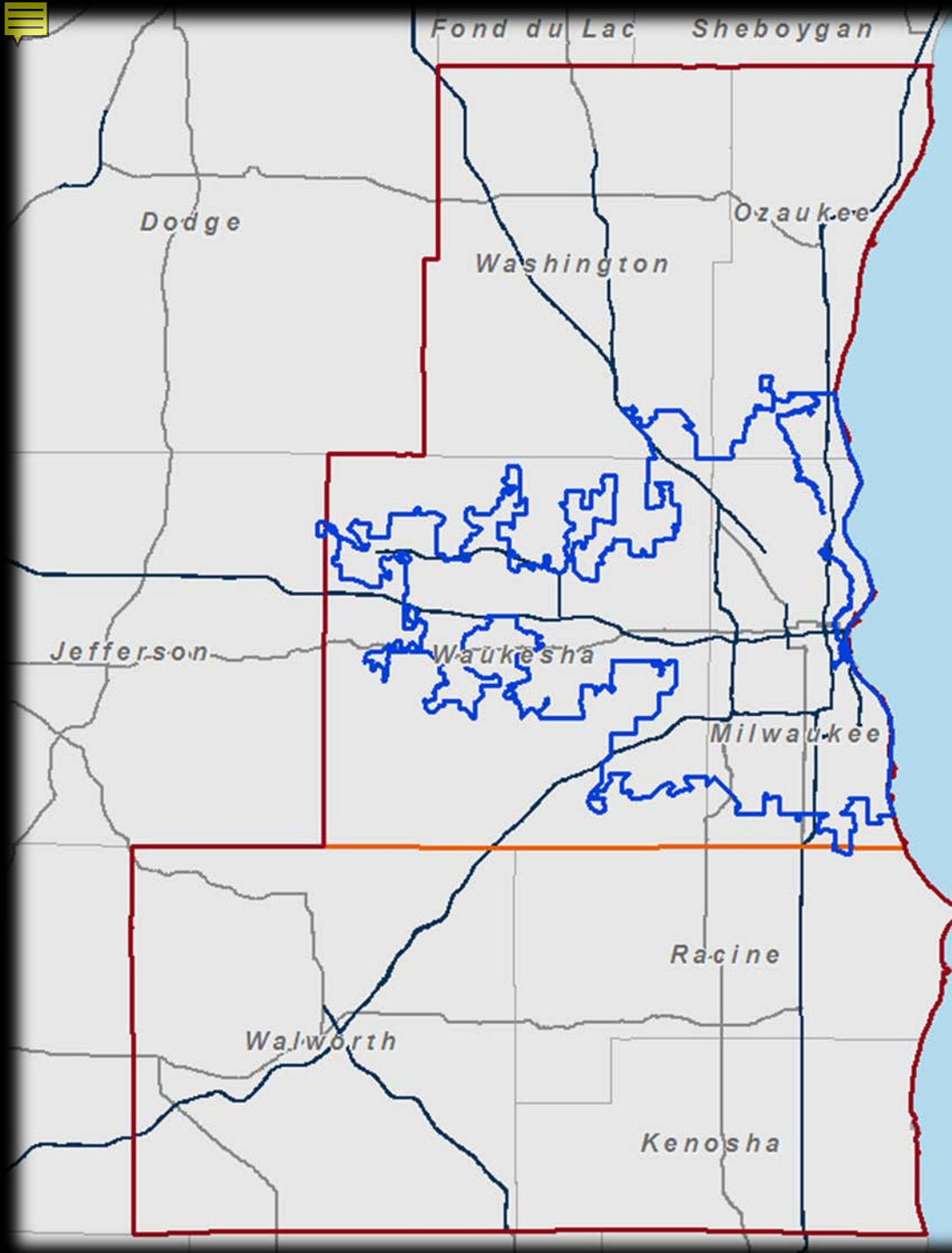
Metro Area Boundaries

Milwaukee MSA

 MSA
(Census)





 Planning
(MPO)

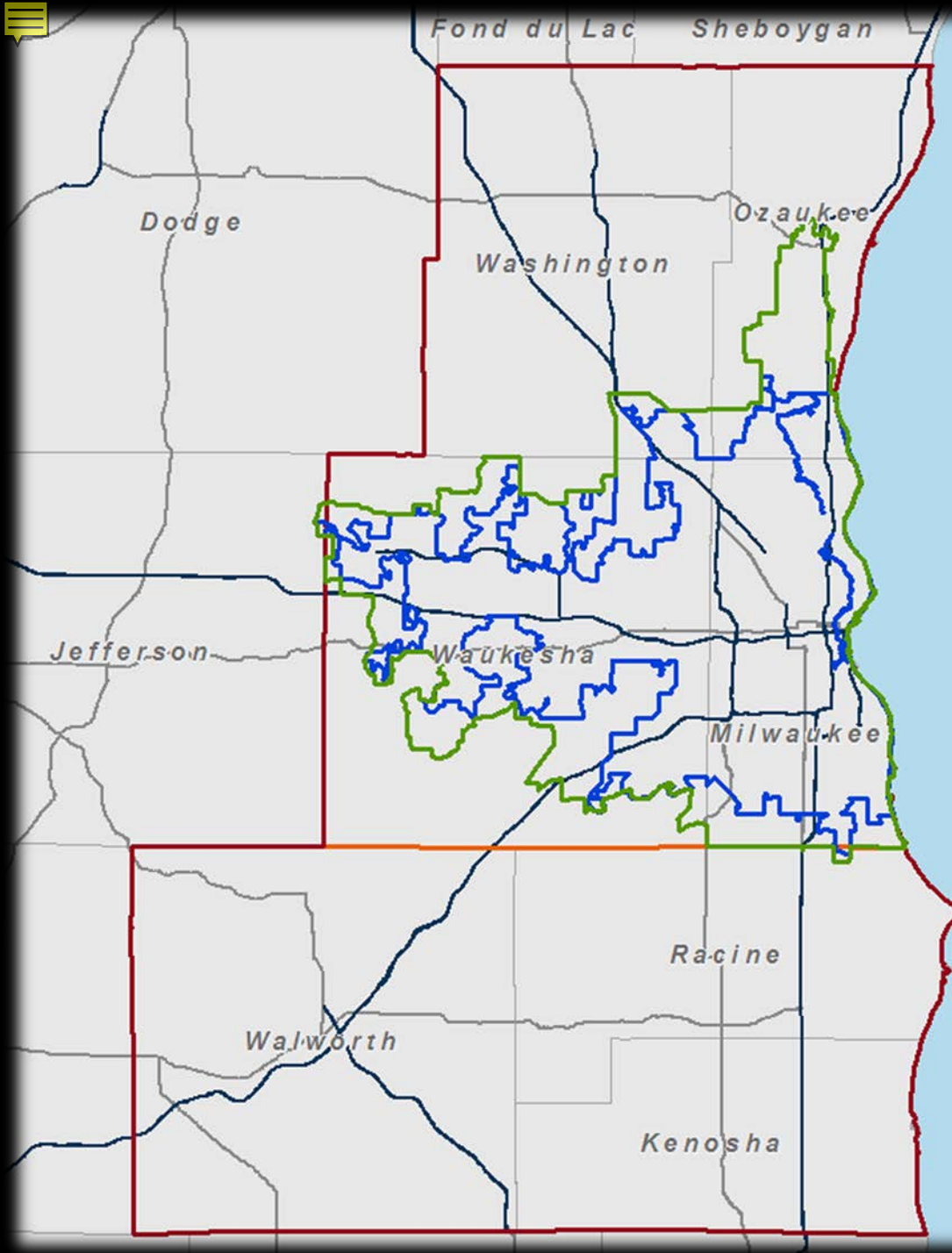
 Urbanized Area
(Census)



Metro Area Boundaries





Milwaukee MSA

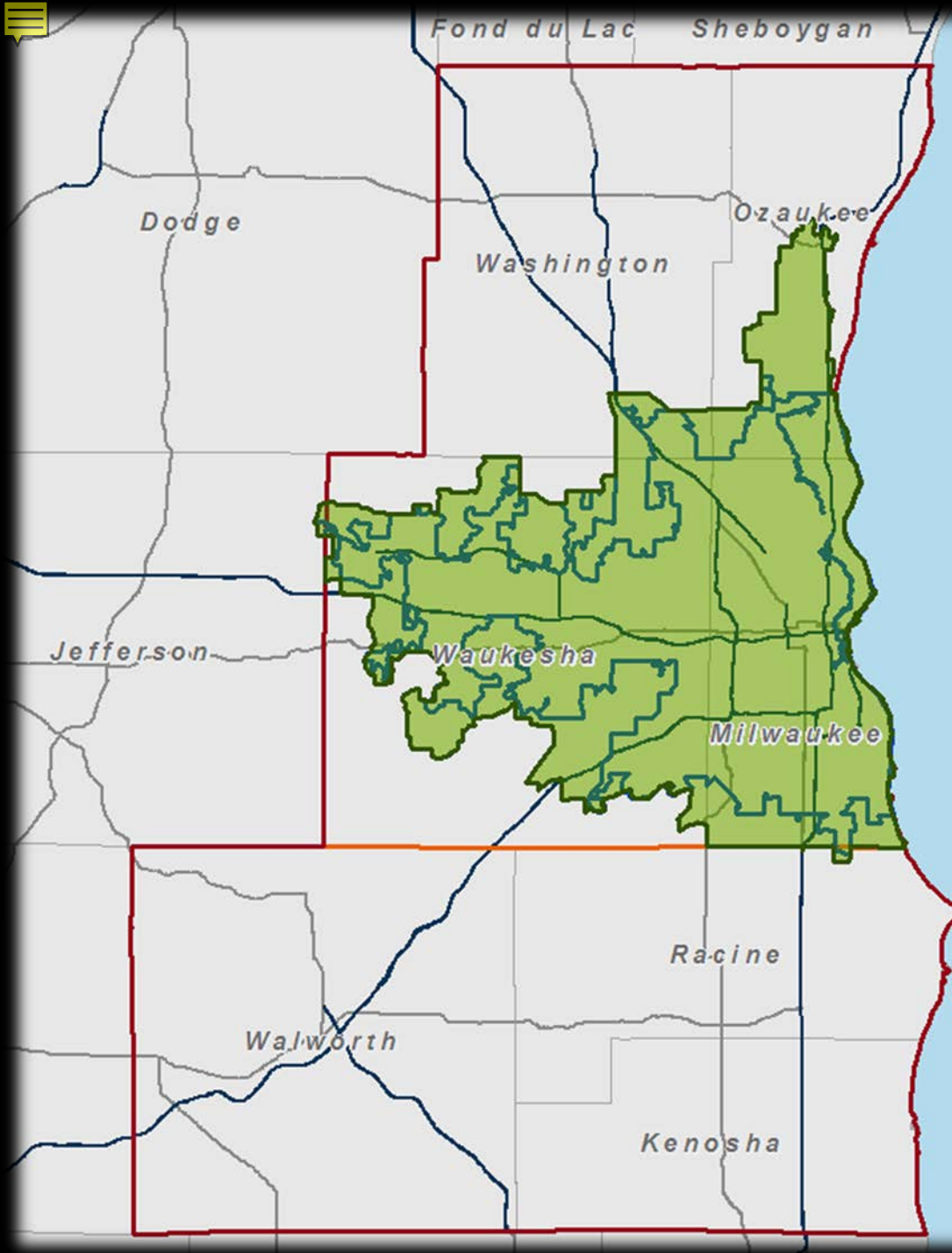
-  MSA (Census)
-  Planning (MPO)
-  Urbanized Area (Census)
-  Adjusted Urbanized Area (consensus)



Metro Area Boundaries

Milwaukee MSA

-  MSA (Census)
-  Planning (MPO)
-  Urbanized Area (Census)
-  Adjusted Urbanized Area (consensus)



Common NWP Themes

Interstate coverages are not an issue (for 2014)

Two items of special interest:

1. Travel time coverage on
Routes of Significance
2. Ensuring 24/7 provision where
DOTs do not operate 24/7
(generally interstates only)



NWP – Q & A

Q: Are maintenance or unplanned closures included in this rule?

A: Yes, the rule applies for any closure with a duration that falls within the latency time (20 min or 10 min).



NWP – Q & A

Q: What lengths of travel time segments are required?

A: Long segments and broad allowances are acceptable, e.g., interstate to interstate junctions may be a good rule of thumb.



NWP – Q & A

Q: How does the Data Exchange Format Specification (DXFS) project and guidance relate to this?

A: No direct bearing.



NWP – Q & A

Q: For winter roads, can point data (e.g., RWIS) satisfy the requirement or is segment information required?

A: Point data can contribute, but if conditions are especially hazardous or result in a closure, human observation must be part of the process.



NWP – Q & A

Q: Are non-freeway interstate segments – such as business loops – also covered under this rule?



A: No, that is not the intent.



Continuing Activities

- Confirm metro boundaries
- Determine Routes of Significance and expand coverage if necessary
- Collaborate with other agencies for 24/7 coverage
- Meet deadlines of November 2014 and November 2016



Thank You

Further information:

www.ops.fhwa.dot.gov/1201

www.topslab.wisc.edu/its/1201

www.nwpassage.info

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