MEETING SUMMARY

TOPMS-Phase 1 Advisory Group Meeting THURSDAY, September 5, 2012 2:30 PM – 4:30 PM Hill Farms State Transportation Building Sheboygan Avenues Madison, Wisconsin

ATTENDANCE ROSTER

| Name | Agency | Email |
|-----------------|----------------------------|---------------------------------|
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| Jesse Patchak | WisDOT OAS | jesse.patchak@dot.wi.gov |
| Jim Kranig | Minnesota DOT | jim.kranig@dot.state.mn.us |
| Dave Vieth | WisDOT BHM | david.vieth@dot.wi.gov |
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| Angela Adams | WisDOT SW Region | angela.adams@dot.wi.gov |
| Adam Boardman | WisDOT | adam.boardman@dot.wi.gov |

MEETING DISCUSSION

1. Welcome and Introductions

Paul Keltner of BTO provided welcome comments and coordinated self-introductions for those in attendance and on the webinar.

2. Project Background and Rationale

John Corbin of BTO provided brief project background and rational comments. John discussed the history of traffic operations in Wisconsin, the wide range of BTO Program Areas, and BTO's emerging initiatives. TOPMS is one of the emerging initiatives highlighted in the recently published Strategic Traffic Operations Program Plan (STOPP). More specific

to the TOPMS project, John indicated "if you can't report credible performance within a corporate framework, proper resourcing is challenging."

3. Project Approach and Schedule

Paul Keltner and Liz Schneider discussed the project approach, individual task descriptions and the schedule (See attached presentation).

Comments provided throughout the presentation include:

Jim Kranig – Mixing quantitative and qualitative data can be challenging – e.g., ramp meters; Need to recognize need to integrate public perception.

Joe Nestler – How do we best understand and incorporate the cycle of technology? Nick Kiernan suggested standards-based approaches can be technology "agnostic".

Include Identify user delay and reliability oriented data to feed MAPSS

Tony Kratofil – Reliability is hard for front-line staff to react to. Michigan has introduced an element of cost into user delay

Rory – Long-term, it's in the Department's interest to report reliability at the corporate level.

4. Early Project Activities

Paul Keltner highlighted some of the early project activities where members of the Advisory Group may be engaged including:

1. BTO and Other Staff Interviews

- 2. Three Upcoming Webinars
 - Regional Peer Exchange
 - National Best Practices Public Agency Peer Exchange
 - Private/Quasi-Private Sector Not Necessarily Transportation Sector
- 3. Pilot Area / 1st Batch of Detectors Determination
- 4. Existing Data Report

5. Opportunities for Cross Bureau and Division Benefits

John Corbin facilitated discussion related to how the project may benefit other bureaus or divisions. Comments from the group include:

- Lori Richter Keep an eye on MAP-21 requirements.
- Jim Kranig Look at measures that make a difference and support the right decision. Also, MnDOT has used iPeMS (<u>http://iterisprojects.com/pems/</u>) and could share recent experiences and lessons learned.
- Tony Kratofil MAP-21 may be too high of level, don't limit yourself.
- Lisa Onken Any use of social media/crowdsourcing anticipated for project? Nick Kiernan response: not right now, but will look at for future phases.
- John Corbin Incident, event and lane closure information is still a responsibility of the public sector.
- John Corbin how do you meaningfully integrate weather information?

• Lori Richter – Do you see WisDOT supporting TOPMS in-house? John Corbin: indicated more likely a service.

6. Other Questions and Next Meeting

The proposed schedule shows an Advisory Group Meeting in January. However, the Advisory Group suggested an additional check-in in Early December (Date TBD).



Wisconsin Traffic Operations Performance Management System (TOPMS)-Phase 1

September 5, 2013 2:30-4:30 PM WisDOT Central Office Room 419





Agenda

- Welcome and Introductions
- Project Background and Rationale
- Project Approach and Schedule
- Early Project Activities
- Opportunities for Cross Bureau and Division Benefits
- Questions and Next Meeting



Traffic Operations Programmatic Development Timeline





Traffic Operations Program Areas

- 1. ITS Planning & Design (TOIP)
- 2. STOC Control Room & IT Systems
- 3. Traveler Information
- 4. Emergency TrafficOperations & Traffic IncidentManagement
- 5. Work Zone Management & Operations

- 6. Signal, Electrical & Lighting Operations, Maintenance & Communications
- 7. Signing
- 8. Pavement Marking
- 9. Traffic Engineering Data & Analysis
- 10. Traffic Safety Engineering & Speed Management
- 11. Traffic Operations Program Support



STOPP Emerging Initiatives

- 1. 511 & FST Service Sponsorships
- 2. Supporting Mega Projects
- 3. Connected Vehicle Integration
- 4. Commercial Vehicle Operations
- 5. Surveillance Data Procurement & Partnering
- 6. Traffic Operations Performance Management System
- 7. Traffic Analysis & Traffic Management Systems Design
- 8. Traffic Infrastructure & Critical Infrastructure Protection (Alternate/Evacuation Route Planning)

System Management & Operations Program Components

Performance Management

-Performance Measurement -Performance Reporting -Performance Data Needs Assessment

Network Infrastructure

Pavement, Bridges, GeometricsITS & Traffic Management SystemsCenters & Communications Systems

Network Operations Services

- -Traffic Management & Traveler Warning
- -Traffic Incident Management
- -Work Zone Management
- -Traffic Signal System Operations

Plans

-Documents Defining Accountability -Business, Strategic, System, Operations Plans

Processes

-Decision making & Production Sequences

Policies

-Corporate & Community Priorities & Standards

Information

-Data Collection -Data Management

Organizational Capacity

- -Organizational Structure
- -Workforce Development
- -Partnerships
- -Executive & Administrative Leadership



Project Approach

3-Phase, 3-Year Project to Design and Build TOPMS

- Phase 1 Planning/Design, Conceptual and Investigative Prototype
- Phase 2 Prototype Refinement, Geographic Expansion and Interim Evaluation
- Phase 3 Statewide TOPMS and Evaluation

Phase 1 Providers

- Cambridge Systematics National and International TOPMS Expertise
- TranSmart with partner TrafficCast Wisconsin based Technology Companies with products to support project
- TOPS Laboratory Traffic Data Assessment, Peer Exchange Coordination, Project Team Coordination



Project Tasks

- 1. WisDOT Traffic Operations Data Inventory
- 2. Midwest Regional & National Peer Exchange Webinars
- 3. "State of the Art" Investigation
- 4. "State of the Practice" Evaluation
- 5. Investigative Prototype Design & Deployment
- 6. TOPMS Organizational Mapping
- 7. Strawman User Interface & Visualization Development



1. WisDOT Traffic Operations Data Inventory

- Inventory and document existing Traffic Ops Related Data Sources:
 - Type (traffic flow, incidents, traveler information, camera images, weather, lane closures, special events, safety)
 - Format(s) (XML, JPEG, GIS shape files, etc.)
 - Frequency of update
 - Data Steward (WisDOT, TOPS, NWS, Private Sector, etc.)
 - Associated Standards (IEEE, SAE, NEMA, NTCIP, etc.)

Deliverables: Draft and Final Report



2. Peer Exchange Webinars

- Regional Peer Exchange
 - Leverage Partnerships with GLRTOC, Northwest Passage, and Lake Michigan Interstate Gateway Alliance
 - Snap shot of current and future TOPMS activities
- National Peer Exchange
 - Select model public and private sector companies to share experiences

Deliverables: Planning for and conducting webinars





3. "State of the Art" Investigation

- Literature Search on Domestic and Foreign Applications
 - Improving operational performance
 - Planning for new operational strategies
 - Enhancing work zone planning and real-time information
 - Documentation of operational system benefits
 - Continuous Improvement Techniques that optimize resources
- Focused Investigation of 5-10 organizations

Deliverables: Draft and Final Report (Combined with Task 4)



3. "State of the Art" Investigation





3. "State of the Art" Investigation





4. "State of the Practice" Evaluation

- FHWA Section 1201 and emerging Performance Measurement Guidance Assessment
- Scan of Private Sector Products
- RFI and/or targeted vendor presentations to WisDOT
- Identification of best practices that can be implemented short-term within WisDOT

Deliverables: Draft and Final Report (Combined with Task 3)



5. Investigative Prototype Design & Deployment

Real-time User Interface to access existing/evolving data sources in Southern Wisconsin

- Cross reference 'live' or archive data where feasible, otherwise point toward development opportunities
- Support visualization of "Strawman" platform



Preliminary Draft 'TrafficCaster' implementation

5. Investigative Prototype Design & Deployment

Supplementary Vehicle probe data via Bluetooth detection

- Eighty sensor deployments, over three phases
 - Priority for Milwaukee, Madison corridors, projects
 - Data provided through TrafficCast BlueTOAD technology
 - Integrate and cross reference speed/travel time/route choice content with available/prospective metrics



BlueTOAD sensor unit, as installed on backside of typical Interstate signage.



5. Investigative Prototype Design & Deployment

Prototype Analysis, Archive Access, Refinement Roadmap

- Functioning Travel Time/Speeds
- Draft congestion metrics, analytics
- Route Choice Behavior Data (via archive)
- Data archive model, coordination; WisTransPortal
- Propose/mock-up refinements



Road Speed "Heat Map" derived from BlueTOAD data

- Visualization of congestion build with causal references
- Example of potential Performance Management tool to be included within Prototype Interface





6. TOPMS Organizational Mapping

- BTO Organizational Mapping to connect goals, objectives, functions and staffing:
 - Infrastructure/facilities
 - Software/technology
 - Traveler warning and information services
 - Innovation/Change Management
- Extend mapping into WisDOT where appropriate
- Data Flow Diagrams and Gap Analysis
- Identify Synergistic Opportunities
- Deliverables: Interviews, Draft and Final Reports



7. Strawman User Interface & Visualization Development

- Design Refinement Guidance
 - Outputs
 - Reports
 - Frequency Requirements (Real-time, weekly, monthly, etc.)
- Future Data Needs Assessment
 - Existing data needing modification
 - Data available from private sector
 - Data not available, but could be developed

Deliverables: Draft and Final Reports



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Schedule

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| EY PROJECT MEETINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TO Project Coordination Meeting | TOPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TO Management Briefing | TOPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dvisory Group Meeting | WisDOT | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ecretary's Office Briefing | WisDOT | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ask 1. WisDOT Traffic Operations Inventory | | | | | | | | | _ | | _ | | | | _ | | | | _ | | | | _ | | | | | | | | | | | | | | | | | | | |
| .1 Develop WisDOT Traffic Operations Data Inventory Report | TOPS | | _ | | | | | | _ | _ | _ | | | | | | | | _ | | | | _ | _ | | | | _ | | | | | _ | | | \square | 4 | 4 | | | 4 | |
| .2 Review Draft Report | TOPS | | | | | _ | | _ | | _ | _ | | | | _ | | | | | | | | _ | | | | _ | _ | | | | _ | _ | | | | 4 | _ | | Ш | 4 | |
| .3 Submit Final WisDOT Traffic Operations Data Inventory | TOPS | | _ | _ | | _ | _ | | _ | + | _ | | _ | _ | _ | | | _ | _ | | | | _ | | | | _ | _ | | | | _ | _ | - | | \square | 4 | 4 | ₽ | | 4 | _ |
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| ask 2. Midwest Regional & National Peer Exchange Webinar | | - | _ | | | _ | _ | - | _ | + | _ | | _ | _ | _ | | | _ | _ | _ | \vdash | _ | _ | + | - | | _ | + | | | | _ | + | _ | | \vdash | + | + | + | Ц | 4 | _ |
| .1 Plan for Midwestern Peer Exchange Webinar | TOPS | - | _ | | | | _ | - | + | + | + | | _ | _ | - | | | _ | + | - | + | _ | + | - | - | | | + | | | | _ | + | + | | ⊢ | + | + | + | | 4 | _ |
| .2 Conduct Midwestern Peer Exchange Webinar | TOPS | - | - | + | | _ | _ | _ | | - | - | | _ | _ | + | | _ | _ | + | - | + | _ | + | - | - | | _ | + | | | | _ | + | + | | ⊢ | + | + | + | | 4 | _ |
| .3 Plan for National Peer Exchange Webinar | TOPS | CS | S | _ | | | | | | - | | | _ | _ | + | | _ | _ | _ | - | \vdash | _ | + | + | - | | _ | + | | | | _ | + | + | - | \vdash | + | + | + | \square | + | _ |
| .4 Conduct National Peer Exchange Webinar | TOPS | - | _ | + | | _ | | - | - | + | - | | _ | - | - | | - | - | - | - | \square | - | - | - | - | | - | + | | | | - | + | - | | \vdash | + | + | + | H | 4 | _ |
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| ask 3. State of the Art Investigation and Task 4. State of the | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| .1 Literature Review .2 Develop candidate list of Agencies/Companies to Interview | CS CS | TO TO | | | | | | | + | + | 1 | \square | | - | 1 | | + | + | + | - | + | - | + | 1 | 1 | | | + | H | | \square | - | + | 1 | \square | \vdash | + | Ŧ | F | | + | - |
| .2 Develop candidate list of Agencies/Companies to Interview .3 Approval from WisDOT | WisDOT | . 10 | - 2 | + | | | | | + | + | | | | | | | | + | + | + | \vdash | - | + | - | | H | - | + | | \square | | | + | + | | \vdash | + | + | + | \vdash | + | - |
| .4 Conduct Interviews | CS | TO | DS | + | | - | - | | | | | | | | + | | | | - | + | | | + | | | | - | + | + | | | | + | + | | \vdash | + | + | + | \vdash | + | - |
| .5 Identify Section 1201 and MAP-21 Gaps | CS | TO | | | | - | - | | | | - | | - | + | + | | _ | + | - | - | + | - | + | + | + | | - | + | | | | - | + | + | | \vdash | + | + | + | \vdash | + | - |
| .6 Targeted "Innovator" Presentations to WisDOT | CS | TO | | + | | - | - | + | + | | | | - | | + | | | - | - | + | + | | + | + | + | | - | + | | | | + | + | + | | \vdash | + | + | + | \vdash | + | - |
| .7 Develop State of the Art Investigation/State of the Practice | LS . | 10 | 22 | + | | - | - | + | + | + | - | | - | | + | | _ | - | + | - | | - | - | - | + | | - | + | | | | - | + | + | | \vdash | + | + | + | | + | - |
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| .8 Review Draft Report | WisDOT | | -3 | + | | | - | + | + | | | | | | | | | - | + | | | - | + | - | + | | | + | + | | | - | + | + | | \vdash | + | | + | | | - |
| .9 Submit Final Report | CS | | - | + | | - | - | + | + | + | + | | - | | | | | | - | - | | - | + | + | + | | - | + | | | | - | + | + | | | - | - | + | | + | - |
| .5 Submit Final Report | 0.5 | | - | + | | | | - | - | + | - | | - | - | - | | | | - | | | - | - | - | - | | - | + | | | | - | + | + | | H | - | - | - | | - | - |
| ask 5. Investigative Prototype Design and Deployment | | 1 | - | + | | | | + | + | + | + | | | + | + | | | + | + | | | + | + | + | | | | + | | | | | + | + | | \vdash | + | - | + | | + | - |
| .1 Real-Time GUI for Southern Wisconsin w/ existing Data | | | | D | aft D | Data | Inte | egra | tion | , Pr | esen | itatio | on, | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - |
| Development | TS/TC | | | | | | | | | | 5.7, 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .2 Proposal of 80 Bluetooth detector locations including | | | | | | | Τ | T | T | Т | T | | | | | | | | | | | | | | | | | | | | | | | | | H | | | | | | - |
| omplimentary locations | TS/TC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| .3 WisDOT approval of detector locations | WisDOT | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - |
| .4 Deployment of 80 Bluetooth detector locations | TS/TC | | | | | Ì | Ph.1 | 1-20 | u | | Ph.2 | 10- | 40u ⁻ | TBD | | | | | | | | | | Ph.3 | 20- | 40u | TBD | | | | | | | | | | | | | | | |
| .4-a Functioning Travel Time/Speeds Alternates | TS/TC | | | | | | | | Sp | beed | ds/Ti | ravel | Tim | nes | | | | | | | | | | | Г | | | | | | | | | | | | | | | | | |
| .4-b Travel Time/Road Speed/Congestion Analytics | TS/TC | | | | | | | | | Т | T | | | | eat I | Мар | ping' | " Pro | oto | | | | | | | | | | | | | | | | | | | | | | | |
| .4-c Functioning Route Choice Behavior Data | TS/TC | | | | | | | | | | | | | | Τ | Π | | | | e Ch | oice | Prot | :0 | | | | | | | | | | | | | | | | | | | |
| .5 Overall data archiving & coordination | TS/TC | TO | PS | | | | | | | | | Defi | nitio | n-Sp | ec | Arch | nitec | ture | Drat | f Pro | op. B | udg | et | | | | | | | | | | | | | | | | | | | |
| .5-a Probe based Data Archiving Integration into | | | | | | | | | | T | | | | | | | | | | | | T | | | | | | | | | | | | | | | | T | Г | | | |
| VisTransPortal | TOPS (unscoped) | TS/ | тс | | | | | | T | L | | | | | | | Defir | nitio | n-Spe | ec. | | | T | | 1 | | | | | | | | | | | | | | | | | |
| .7 Functioning Prototype Mock-up | TS/TC | CS | | | | | | | | T | | | s | ee 5. | 1 | | | | T | T | | | | Co |)-on | dw/ | Stra | wm | an In | terf | ace | Dev' | D. | | | | | | | | | |
| .8 Mock-up Refinements | TS/TC | | | | | | | | | t | | | T | Т | T | | | | | | | | | | | | | T | | | | T | | | | T. | T | | Г | П | 1 | |
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| ask 6. TOPMS Organizational Mapping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | _ |
| .1 Assess Current BTO Performance Measures | CS | TO | PS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .2 Perform In-Person Interviews | CS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - |
| .3 Map BTO Staffing Functions to Existing and Proposed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | _ |
| erformance Measures | CS | то | PS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .4 Develop Management Strategies to actively react to | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| erformance Measures | CS | то | PS | | | | | | | | | | | | | | | | | | | | | | L | | | | | | | | | | | | | | | | | |
| 5 Develop Draft Report | CS | | | T | | | | | | Γ | | | | T | Γ | | | | Τ | | | | Τ | Τ | | | | T | | | | T | Τ | Γ | | | | T | | | | |
| .6 Review Draft Report | WisDOT | | | T | | _ | | T | Τ | Γ | Γ | | | T | Τ | | | | T | | | | Τ | T | | | | T | | | | T | Τ | Γ | | | | T | | | | |
| 7 Submit Final Report | CS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ask 7. Strawman User Interface & Visualization | | | | T | | Т | T | T | T | Γ | | | T | T | | | | T | | | | T | T | | | | T | T | | | | T | T | | | IT | T | | | IT | T | |
| Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 Develop Design and Interface Refinement Requirements for | | | | T | | Τ | T | T | T | | | | | Т | | Π | T | T | | | | T | T | | | | T | T | | | | T | Γ | | | IT | T | | | IT | T | |
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Early Project Activities

- 1. BTO and Other Staff Interviews
- 2. 3 Webinars
 - Regional Peer Exchange
 - National Best Practices Public Agency Peer Exchange
 - Private/Quasi-Private Sector Not Necessarily Transportation Sector
- 3. Pilot Area / 1st Batch of Detectors Determination
- 4. Existing Data Report



Opportunities for Broad Department Benefits

- Do you have data readily available that could enhance TOPMS?
- 2. Are you planning on developing or buying data that could enhance TOPMS?
- 3. What current business practices in your bureau could be enhanced by having information fused within TOPMS?
- 4. Are there key constituencies we need to talk to?





Questions/Upcoming Meetings

1. Webinars

- Regional Peer Exchange October
- National Best Practices Public Agency Peer Exchange November
- Private/Quasi-Private Sector November

2. Next Advisory Group Meeting - Late January

