

Update on New UPWP Operations Task

Presented to: BRTB Technical Committee

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Baltimore Metropolitan Council



Overview of New Task

At the request of the Technical Committee, BMC staff has prepared and BRTB has approved a new task in the FY 2017 Unified Planning Work Program under the Operations Planning project.

Purpose of new task:

Identify potential congestion management strategies for corridors that have significant operational issues.

Congestion management strategies include items such as:

- geometric improvements
- adaptive traffic signal control and other low-cost operational strategies that could reduce recurring as well as non-recurring congestion
- transportation system management strategies that manage demand and reduce single occupant vehicle usage



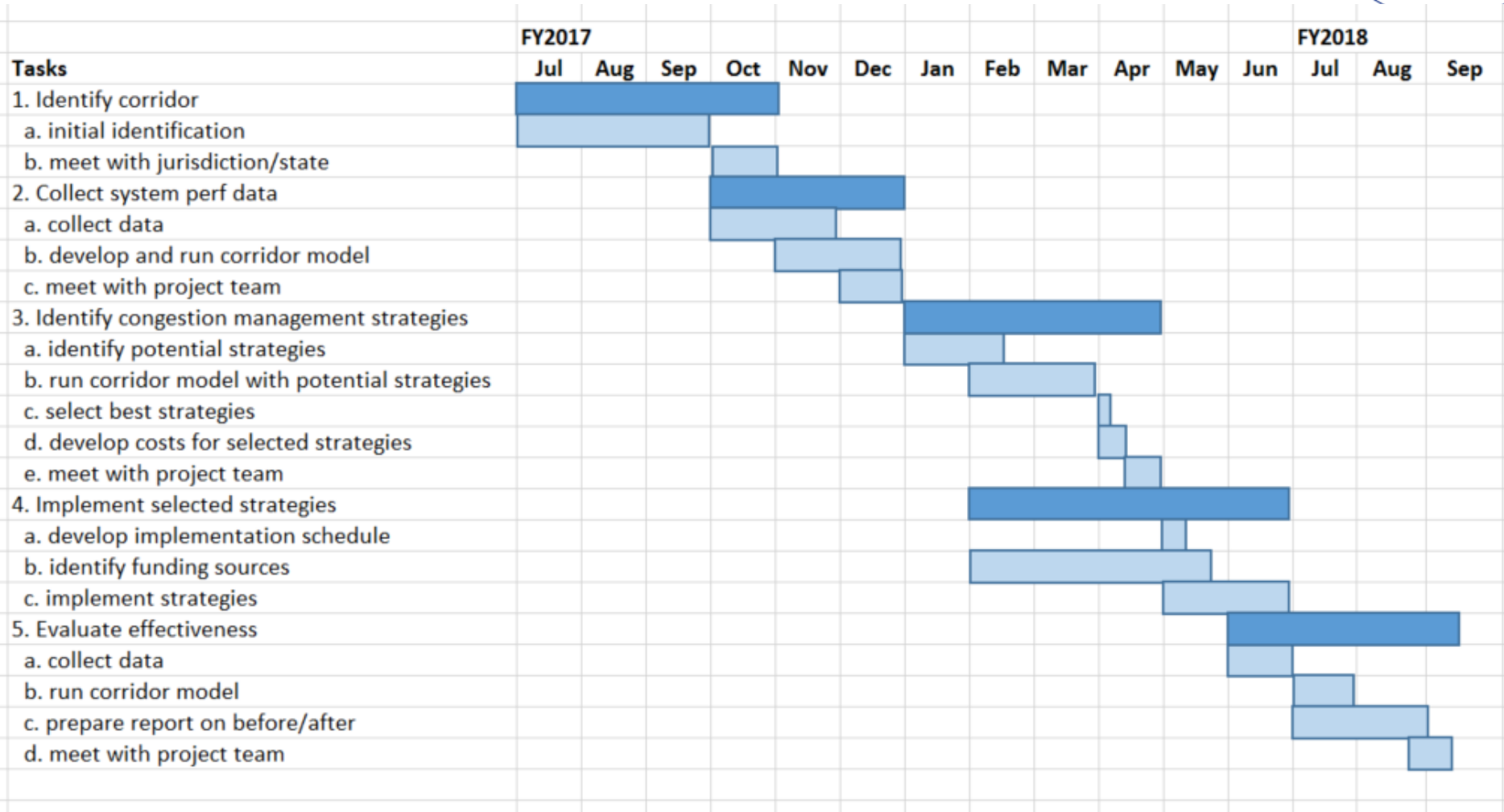
Actions for This Task



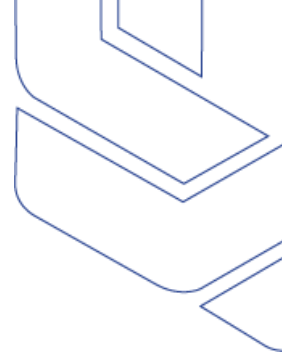
1. **Collect data on system performance** to define the extent and duration of congestion and determine the causes of congestion. This task will use state-of-the-art tools, technologies and data (e.g., from ITS, CHART, I-95 Corridor Coalition Vehicle Probe Project suite, and corridor modeling);
2. **Identify congestion management strategies.** Possible congestion mitigation strategies could include geometric improvements, adaptive traffic signal control, and other low-cost operational strategies that reduce recurring and non-recurring congestion;
3. **Implement selected strategies**, including development of an implementation schedule and identification of possible funding sources for each selected strategy; and
4. **Evaluate effectiveness** of the implemented strategy using similar performance data as collected in Task 1.



Draft Schedule



Corridor Selection

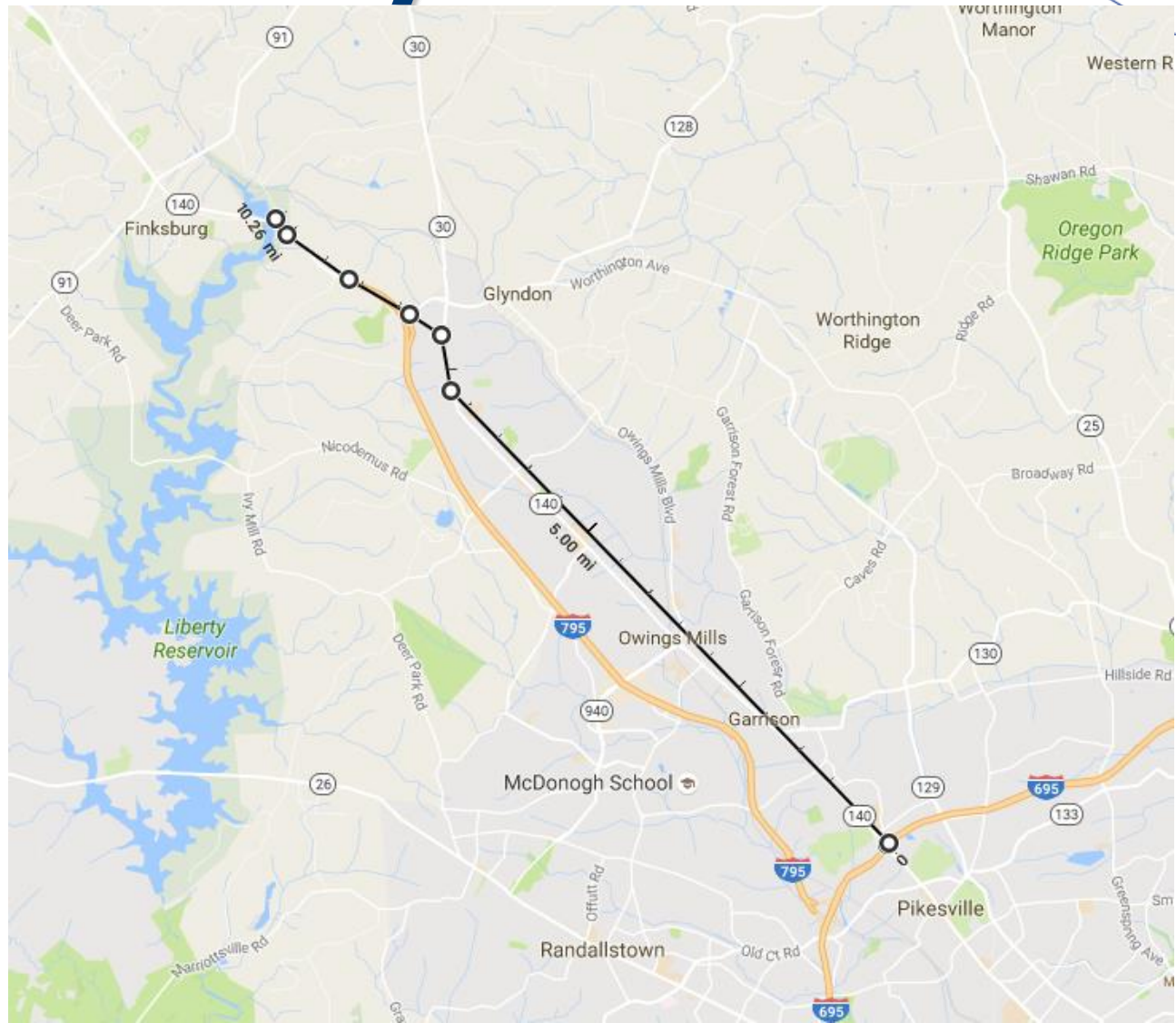


- Considerations for corridor selection includes:
 - level of congestion
 - need for study of the corridor
 - data availability
 - connection to projects in the TIP and LRTP
 - inclusion in previous corridor studies looking at alternatives that improve access to jobs
 - included in the projects submitted by the public during the public outreach process for *Maximize2040*
- **Close coordination between staff, jurisdiction, SHA**
- Replicate the process in each jurisdiction



Pilot Corridor -MD 140 Baltimore County

- I-695 to Carroll County line
- Approx. 10 miles



Characteristics of MD 140 in Baltimore County

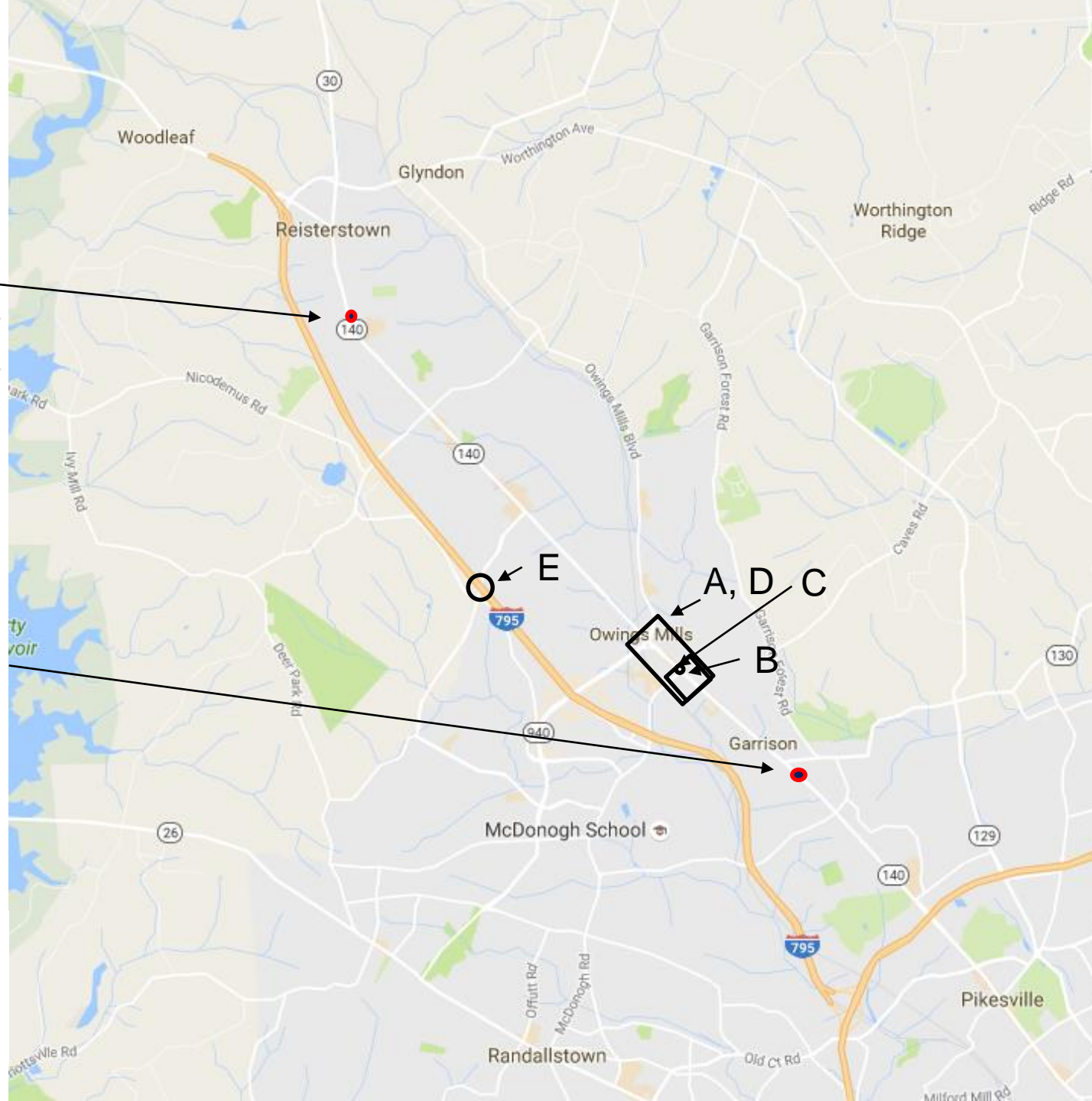
- ADT
 - Slightly decreased since 2012; will increase once development is complete
- Crashes
 - 379 crashes in 2015
- Peak congestion:
 - Increased in corridor from 2013 to 2015
 - AM and PM peak, peak direction
 - weekends, 8 AM to 6 PM
 - Will increase before roadway improvements are completed (Source: Traffic Impact Analysis, Foundry Row, Revised July 12, 2013)
- Various projects in LRTP, TIP, and priority letter
- Bus service on MD 140, metro in corridor
- Significant economic development taking place in the corridor
- Concerns about mobility on I-795



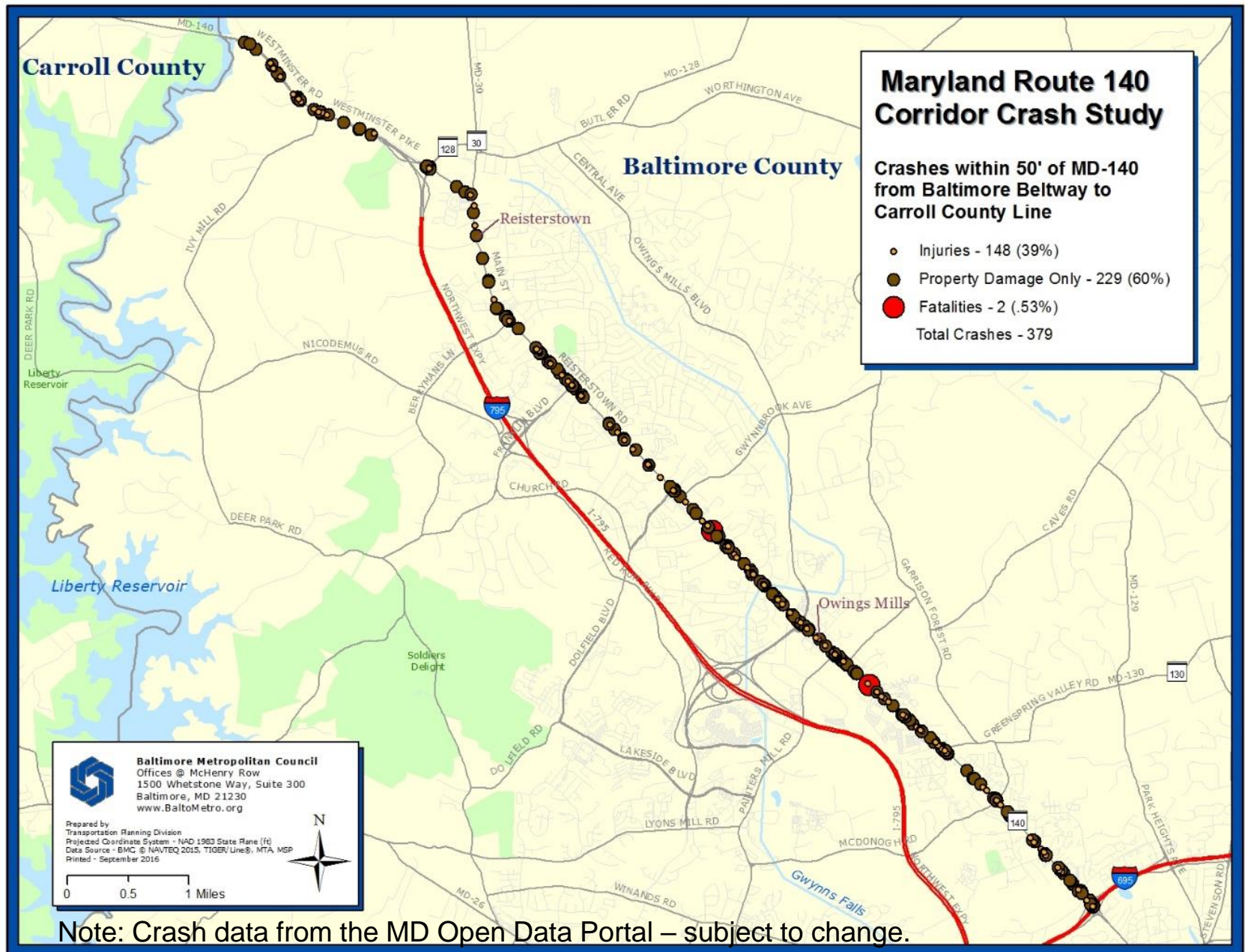
ADT



Note: Letters refer to LRTP (A, B), TIP (C, D), and priority letter (E) projects noted on slide 13.

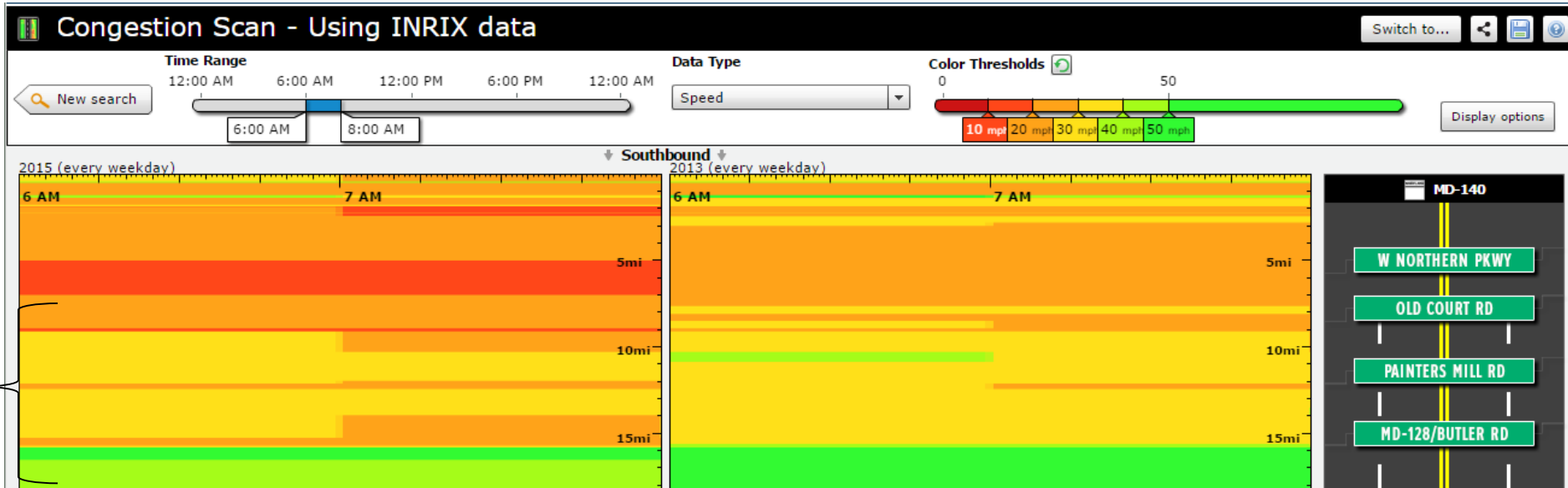


Crashes in 2015



AM Peak Speed Southbound 2013 & 2015

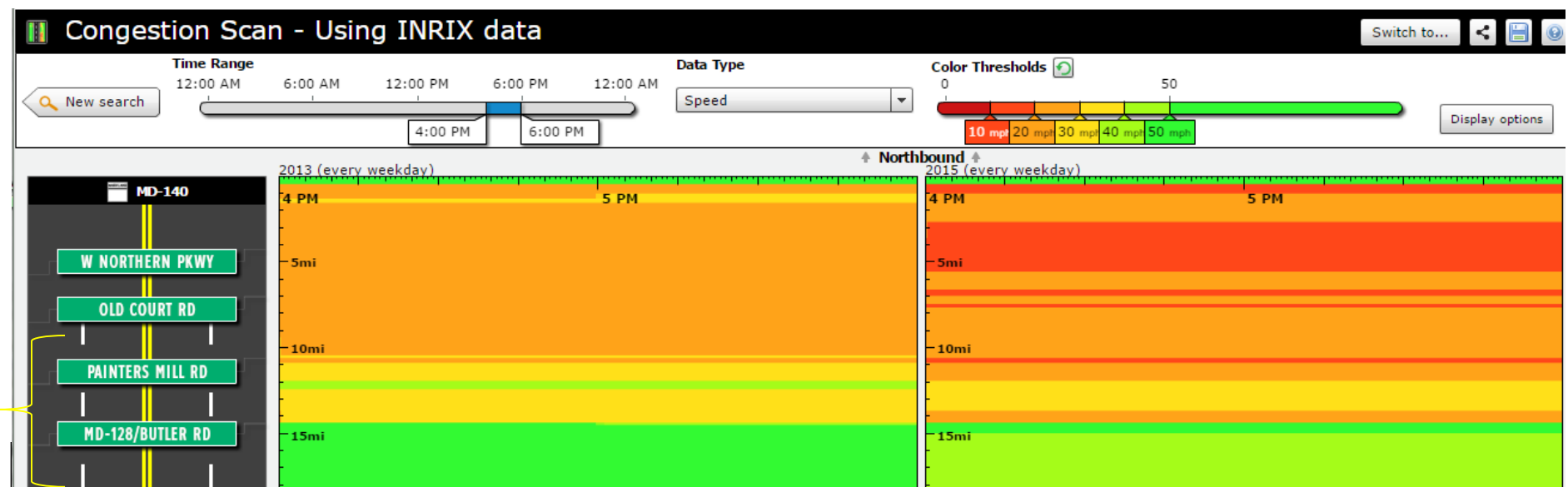
(speed limit in most of corridor is 40 MPH)



I-695 to Carroll Co

PM Peak Speed Northbound 2013 & 2015

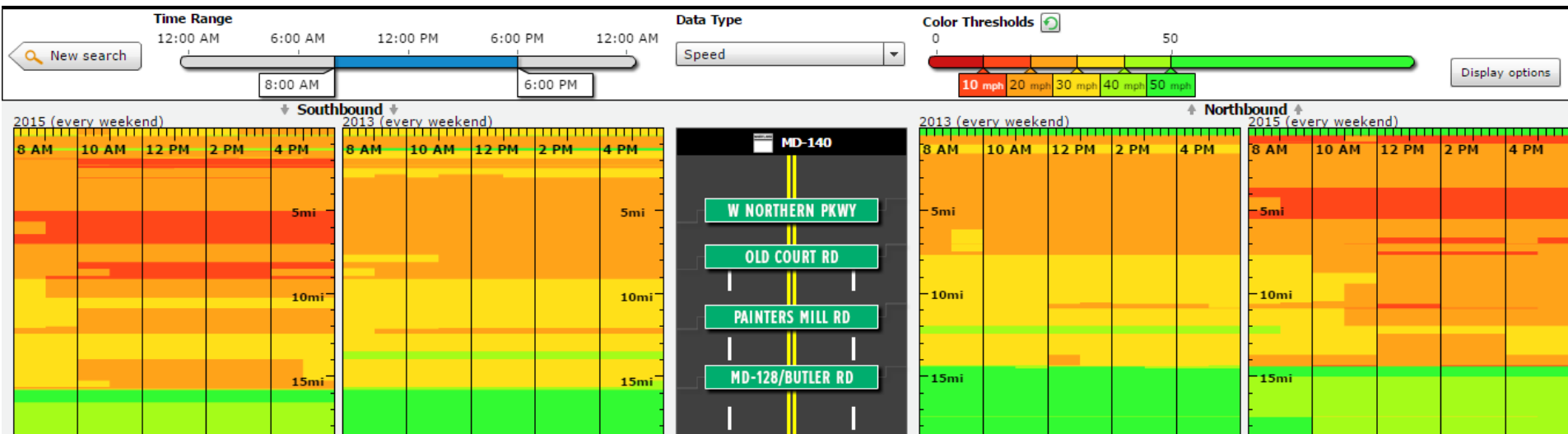
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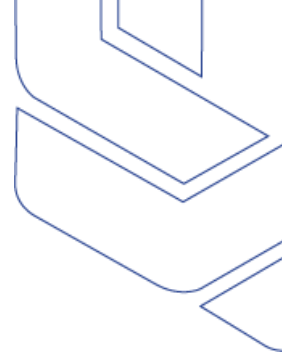
I-695 to Carroll Co



Weekends from 8 AM to 6 PM, 2013 & 2015



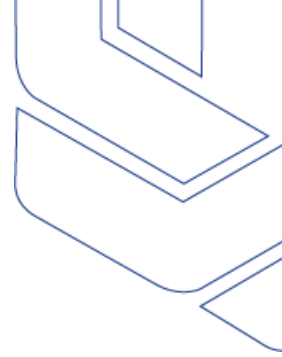
Planned Projects in the Corridor



- Baltimore County projects in the long-range plan:
 - A. MD 140 from Garrison View Rd to north of Owings Mills Blvd, widen from 4 to 6 lanes, remove bottlenecks.
 - B. MD 140 / Painters Mill Rd intersection. Intersection improvements, additional left turn lane, parallel access roads east and west of MD 140
- Baltimore County projects in the TIP:
 - C. Phase 1: Garrison View Rd to Painters Mill Rd. Year of operation: 2017. Widen northbound MD 140 to provide a third through lane and 5-foot raised median, with 5-foot-wide ADA-compliant sidewalks.
 - D. Phase 2: Garrison View Road to north of Owings Mills Painters Mill Road. Year of operation: 2020. Widen southbound MD 140 to provide a third through lane, with addition of left and right turn lanes and added width to better accommodate bicycles.
- 2015 Priority Letter
 - E. Request for funding of new interchange on I-795 at Dolfield Blvd to alleviate congestion due to increased development nearby (Owings Mills Metro Center Transit Oriented Development and Foundry Row Shopping Center)



Status and Next Steps



- Received approval from Baltimore County of pilot corridor selection
- Identified Baltimore County and state representatives to work with staff
- Begin work



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