All for One, One for All

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Michigan Department of Transportation
Where’s Wally

If you see Wally in this presentation be the first to stand up and win!
Construction

Courtesy Dean Bowman, Bentley Systems
Mac, we’ve been in business for over 100 years there’s nothing to worry about!
Agriculture
LiDAR
I-96 US-23 Interchange
Mobile LiDAR by Survey Solutions Inc.
US-131 at Kalamazoo River
Terrestrial LiDAR by Design Survey Support
ITS
Contractors – Stringless Paving

US-10 Coleman
Horseless Carriage with no Driver!
Data I$
ASSET Lifecycle

Conceived in Design

Born in Construction

Cared for During Maintenance & Operations

End of Life

Reincarnation By Design

Capture Data During Normal Business
“Maps are like campfires – everyone gathers around them, because they allow people to understand complex issues at a glance...”

Sonoma Ecology Center
GIS Vision
Contractors - Machine Guidance

US-2 Crystal Falls 2005

I-96 Latson 2013
Inspectors - Stake Diet
I-96 at Latson Rd.
Maintenance

- White is MDOT
- Blue is Contracted
- Others Mixture

No Common System
### Asset Inventory Management

**Table 10: Data Quality Assessment Summary**

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Coverage</th>
<th>Reliability</th>
<th>Confidence</th>
<th>Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lane Inventory</td>
<td>Complete</td>
<td>Excellent</td>
<td>High</td>
<td>No Action</td>
</tr>
<tr>
<td>Signs</td>
<td>General</td>
<td>Very Good - Excellent</td>
<td>High</td>
<td>Collect GPS locational data through BAU updating</td>
</tr>
<tr>
<td>Guardrail</td>
<td>Complete</td>
<td>Good</td>
<td>Medium</td>
<td>Improve reliability issues through BAU updating</td>
</tr>
<tr>
<td>Culverts¹</td>
<td>Initial</td>
<td>Poor</td>
<td>Low</td>
<td>Consider undertaking an initial Statewide data collection effort to improve the data quality for culverts</td>
</tr>
</tbody>
</table>

¹ Culverts data quality assessment requires further investigation and validation.
Enterprise Asset Management System (EAMS)

Request for Proposal “off the shelf” software

• Asset Inventory Management
• Highway Maintenance Management
• FutureRoad Network Management
• Integration Capability
EAMS Functionality

• Unlimited Asset Types
• Geo-referenced database
• Asset characteristics
  – Physical description
  – Historical info
  – Condition
• Maintenance Management
  – Work Orders
  – Field Inventory Collection
• Initial focus on
  – Lanes
  – Signs
  – Culverts
  – Guardrail
EAMS Project Status

- EAMS RFP advertised – April 18, 2014
- Mandatory Pre-Bid Meeting – May 2, 2014
  - Attended by twenty vendors
- Bids due – May 29, 2014
- Short listed vendor – Est. August 15, 2014
- Vendor oral presentations – August, 2014
- Award date – October, 2014
- Implementation – Sept 2016
Questions?