FY2016 Annual IT Survey

SCOBS 2016 - Minneapolis, MN
June 27, 2016

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(Judy Skeen Tarwater, P.E. effective - 07/02/16)
Survey conducted
October 2, 2015 - November 24, 2015
### History of Responses

<table>
<thead>
<tr>
<th>Fiscal Year Period</th>
<th>Number of Responses</th>
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</thead>
<tbody>
<tr>
<td>FY00-01</td>
<td>19</td>
</tr>
<tr>
<td>FY01-02</td>
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<tr>
<td>FY02-03</td>
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<td>FY03-04</td>
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<td>FY04-05</td>
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<td>FY06-07</td>
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<td>FY08-09</td>
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<td>FY09-10</td>
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<td>FY10-11</td>
<td>36</td>
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<td>FY11-12</td>
<td>33</td>
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<td>FY12-13</td>
<td>27</td>
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<td>FY13-14</td>
<td>24</td>
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<td>FY14-15</td>
<td>33</td>
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<td>FY15-16</td>
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</tbody>
</table>

* 2 additional responses received following the close of the survey.
Top Agency IT Projects

• Pavement management systems
• Asset management
• Modernization (from Mainframe)
• Mobile Development / Accessibility
• Oversize / Overweight routing system
• Intelligent Transportation System (ITS)
<table>
<thead>
<tr>
<th></th>
<th>FY2014</th>
<th>FY2015</th>
<th>FY2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile</td>
<td>18</td>
<td>20</td>
<td>14</td>
</tr>
<tr>
<td>Cloud Computing</td>
<td>6</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>GIS</td>
<td>4</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>UAVs (Drones)</td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>
Documented Data Governance Plan?

- Yes: 13
- Not Sure: 2
- No: 15
Integration of Externally Hosted Application Data with Internal Applications or Databases?

- Yes - In Real Time - 7
- Yes - Nightly / Periodic Syncs - 21
- Yes - Via VPN - 5
- Yes - Via Web Services - 14
- No - Only Use Stand-alone Hosted Services - 4
- No - Do Not Have Externally Hosted Data - 4
Software as a Service (SaaS)
Other than office productivity suites does your agency use software as a service?

Yes - 24
No - 6
Crowd-Sourcing Applications / Data?

- Yes – 10
- Not Sure – 1
- No – 19

+ Twitter
+ Bluefax
+ WAZE
Big Data Initiative?

- Has Been Implemented: 3
- Is In Development: 8
- Is Being Considered: 8
- No Current Plans: 10
- Not Sure: 1
Mobile devices anticipated for support for external use (by the public)
Mobile devices anticipated for internal use and/or support

- FY2015
- FY2016

[Bar chart showing the percentage of mobile devices anticipated for internal use and/or support, categorized by device type and year.]
Desktop operating systems projected for use and/or support
Browsers projected for external (by the public) use and/or support
Browsers projected for internal use and/or support

- Safari
- Microsoft Edge
- IE11
- IE10
- IE9
- IE8
- Firefox
- Chrome

FY2015 | FY2016
Web servers projected for use and/or support

- Other
- NGNIX
- IIS (Future)
- IIS 8.5
- IIS 8.0
- IIS 7.5
- IIS 7.0
- Apache

FY2015
FY2016
Is your agency linking AASHTOWare product information with your agency’s GIS?

- Yes: 10
- Not Sure: 5
- No: 14
How well does the AASHTOWare organization communicate its product capabilities?

- Adequately to Staff: 14
- Adequately to Management: 9
- Are not adequately Communicated: 6
From an IT organization perspective, what specific areas would your agency like to see improved in AASHTOWare product delivery:

<table>
<thead>
<tr>
<th>Area</th>
<th>FY2014</th>
<th>FY2015</th>
<th>FY2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improved Quality &amp; Testing</td>
<td>6</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>Speed to Market</td>
<td>6</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>Mobile Development</td>
<td>4</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Reduce Licensing Fee</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Configurable</td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
What distinguishes AASHTOWare products from market competitors?

Agency Involvement

• Agency representatives set priorities and are involved in the design and testing of the applications.
• Unique relationship with states and transportation specific focus
• Purposely built for transportation work
• Specific to state DOT's / DOT-centric solutions
• Backing power of multiple states to develop new software
• Collaborative development and cost efficient
• User input is used and expertise is pooled
• Promotes consistency in processes and procedures across the States
• Input from multiple transportation entities
What distinguishes AASHTOWare products from market competitors? (continued)

Functionality

- Relationship between the software across different steps of project development
- Joint Design/Development directed by agency end-users rather than what a market competitor thinks you need
- DOT and FHWA reporting/requirement focused
- My experience, and the feedback I get from business, is that they don't seem to be as robust or configurable as market competitor solutions
Software Development

• Software written by DOTs for DOTs.
• Direction – projects are completed by multiple internal (State DOT) resources
• Mechanism to allow users to request enhancements and short turnaround time on break fixes
• Vendors contracted by AASHTO employ adequate staff resources to support improvements and responses to call tickets, questions and assistance
What distinguishes AASHTOWare products from market competitors? (continued)

Software Delivery

• Lower cost to develop
• Prices seem competitive
• Poor Quality; bugs
• Pricing model and development are based on a State’s need
• In general, several market competitors have faster time to market

• The fact that AASHTO is behind these products
Please provide any additional information or comments on this survey, or for a future survey.

• A shorter survey would be better
Questions
Minnesota
Question 1

What toy, considered one of the greatest of all time, was developed in the 1940s by a small garden-implement business and named after a Minnesota lake?
Minnesota
Answer

Tonka trucks, named for Lake Minnetonka
Minnesota
Question 2

One-hundred million pounds of what Minnesota-made lunch meat were shipped to Allied troops during World War II?
Minnesota Answer
Minnesota
Question 3

Which Minnesota State Fair Food contains the most calories?
Minnesota
Answer

Fried Candy Bars