

AASHTO Technology Implementation Group
 Nomination of Technology Ready for Implementation
2012 NOMINATIONS DUE BY FRIDAY, SEPTEMBER 16, 2011

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| Sponsor | <i>Nominations must be submitted by an AASHTO member DOT willing to help promote the technology.</i> | 1. Sponsoring State DOT: Utah Department of Transportation | | | | |
| | | 2. Name: John Thomas | | | | |
| | | Title: Planning Director | | | | |
| | | Mailing Address: 4501 South 2700 West | | | | |
| | | City: Salt Lake City | | State: Utah | Zip Code: 84114-3600 | |
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| Technology Description (10 points) | <i>The term "technology" may include processes, products, techniques, procedures, and practices.</i> | 3. Date Submitted: 09/15/2011 | | | | |
| | | 4. Is the Sponsoring State DOT willing to promote this technology to other states by participating on a Lead States Team supported by the AASHTO Technology Implementation Group? Please check one: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | |
| | | 5. Name the technology: UPlan | | | | |
| | | 6. Please describe the technology: Uplan is a GIS based tool that organizes data into a spatial format and viewed in a user friendly way that allows 'data to become information'. UPlan is a web based application that allows collaboration with agencies, utilities, and others in a way that is very unique. Currently, UPlan has partnerships with AOG's, MPO's, Utah Transit Agency, utilities, ACE, SHPO, other States and many others. We share our data in a common location and can view and analyze it for our own needs. UPlan has created first ever relationships and strengthened existing relationships where, together, we can view information and discuss it in ways we have never had before. The transparency of information and analysis is the hallmark of UPlan. UPlan is becoming a one-stop place for many agencies/groups for data. please view at www.utahplanning.org , user: guest password: guestpass123 | | | | |
| | | 7. If appropriate, please attach photographs, diagrams, or other images illustrating the appearance or functionality of the technology. (If electronic, please provide a separate file.) Please check one: <input type="checkbox"/> Yes, images are attached. <input checked="" type="checkbox"/> No images are attached. | | | | |
| | | State of Development (30 points) | <i>Technologies must be successfully deployed in at least one State DOT. The TIG selection process will favor technologies that have advanced beyond the research stage, at least to the pilot deployment stage, and preferably into routine use.</i> | 8. Please describe the history of the technology's development. UPlan development began more than three years ago at UDOT Planning. The focus was to develop a tool that is not a technicians tool, it must be usable by decision makers. To that end, data is easily accessible by clicking on/off the information you want to see, the mapping is similar to other commercial applications and provides simple navigation. | | |
| 9. For how long and in approximately how many applications has your State DOT used this technology? It has been used for a variety of projects and studies in the last year or so. Currently, one of the projects we are doing in UPlan is the Long Range Plan. We are working the MPO's in this environment and will have all of the LRP's/RTP's in UPlan. Additionally, we have put a roadway design project in UPlan, loaded the electric utility data, have SHPO's historic and archeologic info, UDOT's safety, pavement, bridges, traffic, environmental, freight, STIP (historic infoas well current) and many other data sources. | | | | | | |
| 10. What additional development is necessary to enable routine deployment of the technology? Some automation of data uploading so that users can upload information. Also, with so much information coming into UPlan (500 layers and counting!), we need some help in developing better ways to navigate the data and be able to allow users to customize UPlan for their own data set needs and look and feel specific to their organization. | | | | | | |
| 11. Have other organizations used this technology? Please check one: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If so, please list organizations and contacts. | | | | | | |
| <i>Organization</i> | <i>Name</i> | | | <i>Phone</i> | <i>E-mail</i> | |
| Idaho DOT | Bill Shaw | | | 208.681.8737 | bill.shaw@itd.idaho.gov | |
| PacifiCorp | Marshall Payne | 503.813.6727 | marshall.payne@pacificorp.com | | | |
| Cache MPO | Jeff Gilbert | 435.755.1634 | jeff.gilbert@cachecounty.org | | | |
| Wasatch Front MPO | Mary Guy-Sell | 801.363.4230 | mguy-sell@wfr.org | | | |

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|------------------------------|--|--|----------------|--------------|-----------------------|
| | | Utah Transit Authority | Chris Chestnut | 888.743.3882 | cchestnut@rideuta.com |
| Payoff Potential (30 points) | <p><i>Payoff is defined as the combination of broad applicability and significant benefit or advantage over other currently available technologies.</i></p> | <p>12. How does the technology meet customer or stakeholder needs in your State DOT or other organizations that have used it? By allowing the data and information to be readily accessible and relatively easy to navigate.</p> <p>There is also a very robust analytic component that in less than 2 hours, we can produce a 4 page report of environmental impacts (hundreds of resources) of a project that can be submitted in an environmental document and be administrative record qualified.</p> | | | |
| | | <p>13. What type and scale of benefits has your DOT realized from using this technology? Include cost savings, safety improvements, transportation efficiency or effectiveness, environmental benefits, or any other advantages over other existing technologies. Currently, day to day of the information is increasing and more information is loaded into UPlan, that should trend should continue. Since there is not an official roll-out of UPlan, rather a grass roots, word of mouth process, the scale of benefits is hard to estimate, but I can imagine it is substantial.</p> | | | |
| | | <p>14. Please describe the potential extent of implementation in terms of geography, organization type (including other branches of government and private industry) and size, or other relevant factors. How broadly might the technology be deployed? Very little. There is already a lot data, this simply provides a framework that organizes the data in very user friendly manner. Again, this is not a technicians tool, this has been developed for a broader, non-technical audience that needs to access information quickly and not have to go through three or four data silo owners that takes days to get.</p> | | | |
| Market Readiness (30 points) | <p><i>The TIG selection process will favor technologies that can be adopted with a reasonable amount of effort and cost, commensurate with the payoff potential.</i></p> | <p>15. What actions would another organization need to take to adopt this technology? Very little. There is already a lot data, this simply provides a framework that organizes the data in very user friendly manner. Again, this is not a technicians tool, this has been developed for a broader, non-technical audience that needs to access information quickly and not have to go through three or four data silo owners that takes days to get.</p> | | | |
| | | <p>16. What is the estimated cost, effort, and length of time required to deploy the technology in another organization? We have started other states and organizations in UPlan and there is a suprisingly low start up cost for basic info (\$1-2k) that gets them going. Over time and as each partner puts data into UPlan, it is at their discretion. It all depends on how fast they want to go. We have to organizations today that are making it an enterprise system, others, simply add a little here and there and leverage all of the data in UPlan for their work.</p> | | | |
| | | <p>17. What resources—such as technical specifications, training materials, and user guides—are already available to assist deployment? We have the metadata for the code writing and documented the processes in data management, as well a user guide.</p> <p>Deployment, as a web application is very simple.</p> | | | |
| | | <p>18. What organizations currently supply and provide technical support for the technology? UDOT, Utah Automated Geographic Reference Center, ESRI, Bio/West, RSG are the primary ones.</p> | | | |
| | | <p>19. Please describe any legal, environmental, social, intellectual property, or other barriers that might affect ease of implementation. Unknown</p> | | | |
| Submit Completed form to | | <p>http://transportation1.org/tig_solicitation/Submit.aspx</p> | | | |

