

7.3.2

Culvert Integration

Presenter

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Four years ago Vermont Agency of Transportation created an asset management section within its design division. One of the first tasks that were tackled was to build an inventory of culverts that were under 6' in diameter. The initiative was started as a review of system condition in order to prioritize culvert replacement through programmed projects. A field procedure was developed and in two years of field collection, the interstate system was completed. At this point the focus was changed to the recovery of the maintenance activity and the update of the existing data. The maintenance side of the agency had an existing activity tracking system that is used for all daily activity including time, equipment, materials and reporting. For various reasons it was decided this was a logical place to expand its capability for asset management. There were limitations in this system from the user perspective. A group of representatives across divisions was established to integrate the existing system with the existing GIS database. The scope of the project and the actual plan of integration has evolved and changed as we test, learn and evolve. Today we have completed the first phase of integration and extended the use of the data from this system through web reports, web mapping and Mobile mapping to extend the user experience. The project has taken us longer to complete than expected because of the hurdles we have come up against. There are lessons that can be learned through this first phase of implementation.

Bio(s):

Kevin Viani has been doing Asset Management with the Agency of Transportation for the last 5 years. He has recently been tasked to help bring Asset Management to our Operations Division. He graduated from the University of Vermont with a degree in Environmental Studies, concentration in GIS and is currently a student in the Champlain College School of Business. More importantly, he lives in central Vermont with his wonderful wife Heather, 20 minutes from the ski hills and a couple hundred yards from world class mountain bike trails.