



## Productivity

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Prepared by Transportation Planning  
Missouri Department of Transportation

## ARGO Surveying [Video](#)



### Description

MoDOT's Bridge department has switched to using 2D Bathymetric design when designing new bridges. This requires a more detailed survey of the stream bed than what was required before. The traditional way to collect this survey data was walk the stream bed in the shallow areas and use a boat for the deeper sections. This innovation is a new method using the ARGO that MoDOT has not used in the past. By using the ARGO, MoDOT can traverse rough terrain or water to collect the field data and get back to the truck quickly and safely. This minimizes the number of trucks used at the site and the overall time to collect the data.

### Benefit

Work with the ARGO saves time and money by completing work faster, which requires fewer trips to the field that in return saves costs on fuel and labor. The stream bed can be surveyed without switching between walking and the boat. Instead of carrying the boat back to an area that the trucks can access, with the ARGO workers are now able to easily drive back. The ARGO is roughly 50% faster than the traditional methods depending on the site conditions. Using the ARGO frees up more time to work on other projects.

Work is now simplified and safety is improved by removing the need to walk the stream and dragging a boat to gain access to deeper areas, helping workers avoid slips, trips, falls and strains.

### Materials and Labor

There were no initial material costs since the ARGO was borrowed. To buy a new one would cost between \$10,000 to \$30,000. There would be a yearly cost of \$500 for vehicle maintenance.

### For More Information Contact

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Additional information, photos or videos can be seen by accessing Innovations Challenge SharePoint page at: <http://sp/sites/tp/planpol/SitePages/InnovationHome.aspx>