

December 8, 2021

Patrick Whiteford
GIS Group Manager
Arizona Department of Transportation
1611 W. Jackson St
Phoenix, AZ 85007

Subject: John Ehlen Reference

To Whom It May Concern,

I have had the pleasure to work alongside John Ehlen over the past two years on a data visualization project for the State of Arizona. Mr. Ehlen has been an invaluable asset to the ADOT GIS team through his outstanding work across many different projects. The projects include:

1. Designing and implementing a database-wide Linear Referencing System (LRS) Quality Checks (QC) process and publishing the results to an interactive dashboard. The dashboard allows my staff to determine input parameters for improved decision making.
2. His work with his co-worker, Karol Francis, in publishing the State Highway System (SHS) Highway Log. This comprehensive report aggregates all of ADOT's assets, referenced by mile marker along a route, into one location for distribution and reporting. This report was last generated in 2015 and since then ADOT has made the migration to Esri Roads and Highways. John and Karol's expertise in FME was instrumental in recreating this published report.
 - a. <https://www.linearbench.com/LBServedFiles/SHS/DetailLog.pdf>
3. Mr. Ehlen has helped to establish numerous QC procedures and implementation of FME best practices in FME workflows, including generating a comprehensive workspace reporting tool to evaluate all of our FME processes in production. John's QC tools have been critical in evaluating inconsistencies, repairing broken processes, and ensuring the future maintenance needs of our production workspaces can be accomplished as easily as possible.

Sincerely,



Patrick Whiteford
GIS Group Manager