

Work Plan:

Barrier Reflections

- * This was the group's first choice and it happens to be the most complicated update to incorporate.
- * The data structure/framework for barrier reflections is currently present in the TNM code; however, it was never activated because it is incomplete. This function will need to be validated before it can be activated.

Basic DXF and GIS (including geo-referenced backgrounds) Import/Export Functions

- * Clumped together since they both share similar issues and tasks.
- * Both will be implemented barring any unforeseen issues with licensing, which currently there seems to be no known licensing issues with either DXF or GIS.
- * The import/export of these file formats will be implemented by the use of 'plug-ins'. A 'plug-in' is a new addition to TNM's architecture which allows for the efficient addition of new functionality into TNM.
- * One problem with the DXF format is that it is often updated, however, the use of plug-ins allows for updated formats to be added as new plug-ins are developed.

Multi-lane Tools

- * This item will be implemented to facilitate input of multi-lane geometries and traffic.
- * Tools will be added to the plan view that will allow for:
 - * Multiple-lanes to be defined with more automation
 - * Some potential issues include the determination of appropriate radius of curvature for multiple-lanes and the assignment of different ground types for medians, roads, and shoulders.
 - * The level of automation will be dependent on available resources.
 - * More automatic distribution of traffic among lanes.
 - * This may include applying the same volumes to each lane or applying different percentages of heavy trucks to travel and passing lanes.

Contour Functionality

- * This item will be improved by providing additional export functions (such as to GIS) so that contours can be more easily used in other applications. This is the simplest method of improving the contour functionality and have all five items fall within the current funding amount.

In Summary:

As we get further into the development, the Pooled Fund members may be interested in additional functionality for multiple-lanes and/or contours. If so, this may require additional funds.