

OpenRoads Technology

Immersive Modeling Throughout
the Workflow

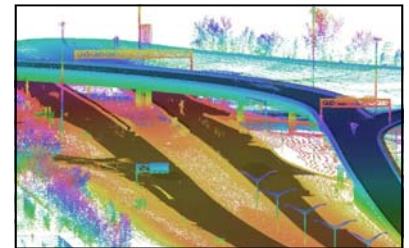


Top Ten Reasons to Use OpenRoads Technology

1. Use data throughout project lifecycle

Work with any type of field data—survey, ASCII, GPS, LiDAR, contour maps, photogrammetric, and many other forms of data. Users can modify and process the data as needed and when the design is complete, upload design data to data collectors for stakeout or automated machine guidance for site preparation.

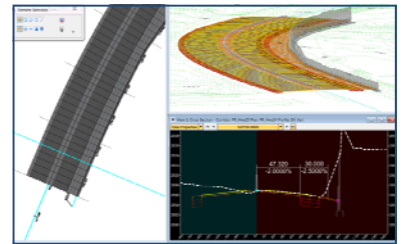
Result: Reduce project costs by eliminating expensive and sometimes redundant data conversions.



2. Ensure engineered projects

Know the designed project is reflective of engineering intent. Design intent builds associations and relationships between civil elements. Object information (how, where, and by what method it was created) is stored with the object to insure the original intent is retained and honored in the design. If an element is modified, any related elements will recreate themselves based on these stored relationships.

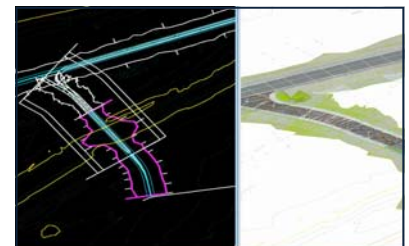
Result: Assures the project is engineered. Design quality is enhanced with element relationships and links in the project.



3. Take advantage of dynamic civil cell functionality

Create commonly used 2D and 3D geometric configurations as civil cells to accelerate design production by using repurposed design layouts. Design, constraint, and relational intelligence are maintained between elements to ensure design standards.

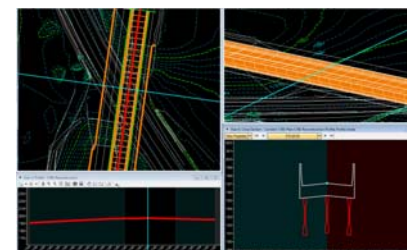
Result: Accelerate design production by using repurposed design layouts.



4. Use immersive modeling with parametric design

Combine plan, profile, and cross-section workflows with innovative 3D modeling technology and the result is immersive modeling. Add parametric design features that allow users to incorporate rules, relationships, and constraints into the modeling workflow and you have incomparable modeling capabilities.

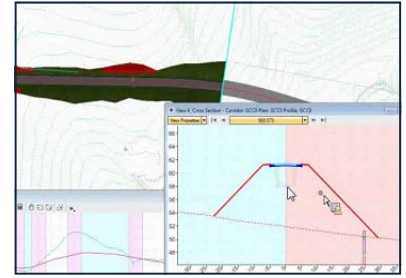
Result: Improve quality with integrated designs based on parametrics, relationships, and constraints.



5. Work with dynamic cross sections

View updates on the fly as the design is modified with dynamic cross sections. Grab a handle on a particular point along the corridor and watch as updates are instantly reflected in the design. Readily view the ground changing to reflect the design changes, enabling immersive modeling capabilities.

Result: Reduce production time with dynamic updates reflected throughout the design and modeling process.



6. Enjoy dialog-free editing

Use context sensitive, dialog-free editing tools. Hover over a line and see a set of grips and key input fields so you can edit on the fly. The software knows the type of object selected and offers design options.

Result: Enhance user experience with dialog-free editing.



7. Work in the latest design revision

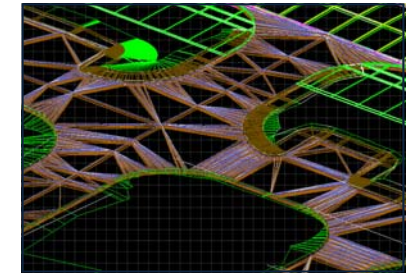
No longer worry if you are working in the latest design file. Dynamic updating ensures that the design automatically stays up to date.

Result: Eliminates time spent making design edits on older versions of the project.

8. Protect the investment in existing data

Know that your investment in data is protected with SELECTseries 3 products. Readily use legacy geometry, terrain models, standards, color tables, cells, and more to ensure users maintain equity from their previous designs.

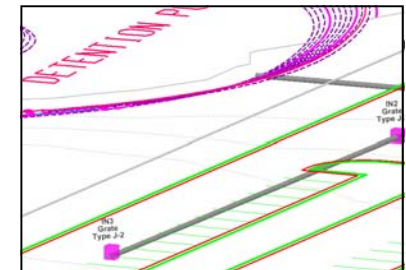
Result: Save time and money by easily incorporating legacy data into new designs.



9. Integrate corridor and site designs

Build sites relative to neighboring corridors and sites will respond to any modifications to corridor conditions. Since all aspects of the design are stored in the model, relationships in the design are automatically stored and recognized by other objects in the design.

Result: Increase design productivity with objects associated to each other in the design. For example, associate a pond's location relative to a road center line and any edits to the road will be reflected in the pond's location.



10. Experience design time visualization

Experience designs real-time. The software includes constraint driven templates, a context sensitive, intuitive interface, and a dynamic 3D modeler. Visualize the design at any time and on demand within the modeling workflow. No translations, software, or special workflow process is needed.

Result: Visualize the design within the workflow eliminating the need for additional staff and visualization software.

