

Infrastructure Visualization

Video Simulation for accessing trackside feature, and maintenance planning

The Challenge

Rail-line personnel need access to visual review of their infrastructure and rail line features, in order to provide:

- Emergency first responder dispatching
- Police and fire communication
- Contingency planning
- Planning of improvements and upgrades
- Inventory of rail system components

The Solution

Visualization and indexing system, using digital video from train engineer's viewpoint. In addition to standard video control panel, features include:

- Access to line features by
 - Category
 - Milepost
 - Alphabetically
- Enhanced visual control panel with automatic looping
- User-definable looping
- Printing of view and notes page

The Results

- Less time spent by rail operations personnel in time traveling to rail sites.
- Increased accuracy in assessment and contingency planning by operations personnel, faster and better assistance provided in emergency/first responder situations.
- Additional uses include
 - Training and orientation of rail personnel
 - Presentation tool for justifying needs during annual budgeting process.

All Metra rail lines have been reproduced, in both directions (over 20 visualization discs), and all lines continue to be updated on a regular basis.

