TOPCON

Mass Haul Planning
Made Easy

- Mass haul management
- Gantt chart schedules
- Resource planning
- Traffic planning
- Intelligent production forecasts

The leading production management software for infrastructure and earth moving sites

DynaRoad provides quicker, more accurate scheduling and mass haul planning for large scale infrastructure construction and earthworks projects. This user-friendly software makes complex tasks simple, helping you easily calculate haul distances, adjust the schedule, update quantities or production rates, and more.
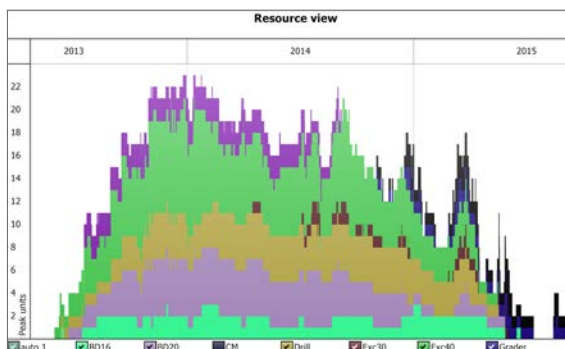
You get a complete scheduling system specially developed to meet the demands of heavy highway construction. The schedule is built either manually or resource-based according to your mass haul plan. DynaRoad is the only tool on the market that combines location based CPM scheduling with mass haul optimization.

DynaRoad's map-based planning is the perfect tool for complex traffic planning, site work, and presentations. The schedule is planned and presented directly on the project map. You can display location of activities, traffic planning, completed tasks, and other information on a color coded map for any given time of the project.

The time-location view gives you an excellent overview of your project and helps you avoid trouble. Production orders, crew movement, haul distances, production breaks, and risk zones are all right at your fingertips. Input work progress data and you'll get a complete project status report comparing actual production to the original schedule. And DynaRoad's intelligent production forecasts will warn you of upcoming problems weeks in advance.

Haul truck – HT-30

Our haul truck application lets you connect all dump trucks, scrapers, and rigid trucks to your office in real-time. Monitor load counts, volumes, load/dump locations, and create hourly/daily/weekly reports from all the trucks connected on your site.

Resource planning

Activities are built up based on amount of work, resources, and their production rates. All views are linked and updated in real-time. You have full control of required machine production rate, while ensuring that your schedules are realistic and achievable. Data on resources, crews, and production rates are all saved in a template file to support future projects.

WEEK 1

Visual planning

- Project map
- Line of balance
- Gantt charts
- Resource tables

WEEK 12

Enabling planning methods

- Critical path
- Location-based planning
- Automatic mass haul calculation
- Balancing cut/fill

WEEK 23

Delivering

- Feasibility for plans
- Production simulation
- Efficiency in production
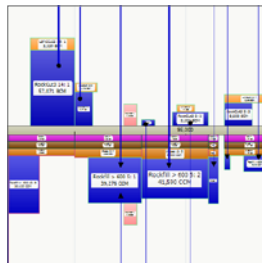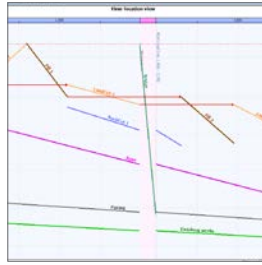- Improved response to delays

Mass haul planning

DynaRoad gives you an optimized plan with the shortest mass haul distances possible, and it is fast and inexpensive to evaluate alternative design solutions.

Plus, you can make efficient use of all available materials with mass deficits and surpluses easily eliminated.

Link DynaRoad and Sitelink3D™

Automate haul data collection from the site and compare it to your plan and schedule.

Haul trucks and scrapers can be used to report haul information to DynaRoad through the Sitelink3D network. Hauled quantities, material types, load, and dump locations are updated online to DynaRoad. This automatically revises your quantities and reports the amount of material you still have to haul.

Scheduling

• Visibility of scheduled activities
• Project control
• Resource based

Map-based planning

• Traffic planning
• Crew location
• Completed tasks

Location-based control

• Overview of the project in one single view
• Production orders
• Movement of crews

Resource planning

• Work load
• Dependencies
• Production rates