



INNOVATIVE SCHEDULING: TRANSFORMING TRANSPORTATION

OUR CLIENTS INCLUDE:

CSX Transportation

BNSF Transportation

Norfolk Southern Corporation

United Airlines

Pacer

Toyota Motors

Engineering Firms

At Innovative Scheduling, we build optimization-based decision support systems that help transportation executives make better planning and scheduling decisions. Using cutting-edge optimization, simulation, and information technology tools, Innovative Scheduling's team can assist your company:

- ➔ Solve complex problems arising in railroads, airlines, trucking, maritime, or multi-modal transportation
- ➔ Adapt our existing suite of algorithms to meet your unique decision support system needs
- ➔ Rapidly build and deploy custom software applications
- ➔ Develop models and algorithms to support strategic-level decisions

RAILROADS

- Operating plan design to increase profits
- Train schedule design to reduce resource requirements
- Optimal equipment assignment
- Crew scheduling and assignment

AIRLINES

- Airline fleet assignment
- Passenger airline schedule design
- On-demand passenger airline scheduling
- Air cargo consolidation and routing

TRUCKING

- Truck and trailer assignment
- Dynamic truck scheduling
- Less-than-truckload terminal scheduling and trailer modeling
- Driver scheduling for long-hauls

PACKAGE DELIVERY

- Service network design for express package delivery
- Cross-docking scheduling
- Pickup and delivery job scheduling
- Vehicle routing



OUR TEAM HAS EXPERTISE IN:

- Optimization
- Simulation
- Visual animations
- Desktop-based decision support systems
- Web-based decision support systems
- Interactive map-based applications

AN INDIVIDUAL PLAN FOR YOU AND YOUR PROJECT

At Innovative Scheduling, we understand that every client is unique. Therefore, we approach each project individually to meet your specific needs and requirements. We are guided by three core principles in our business relationship with you:

- ➔ Minimize your risk
- ➔ Maximize the return on your investment
- ➔ Create quick value for you to garner management support

ABOUT INNOVATIVE SCHEDULING

Innovative Scheduling was founded in 2000 by Dr. Ravindra K. Ahuja, a world-renowned researcher and academician, who has taught at the Indian Institute of Technology, the Massachusetts Institute of Technology, and the University of Florida. Dr. Ahuja has brought cutting-edge operations research techniques to the field of transportation – bridging the gap between theory and practice. In his academic career, he developed innovative models and algorithms for airline and railroad scheduling and logistics problems that were previously considered intractable. These algorithms have now been packaged into web-based, interactive decision support systems.

The company's team is comprised of highly skilled professionals with backgrounds in operations research, computer science, and information technology.

Innovative Scheduling provides a one-stop shop to build optimization or simulation engines and package them into interactive, user-friendly interfaces with maps. Our goal is to create success stories for our clients by putting optimization in action.

Contact us to learn more about this or other Innovative Scheduling products and services:

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Innovative Scheduling

OPTIMIZATION IN ACTION