



Tactical Planning Optimization

Bridge the gap between strategy and execution



As the cornerstone of effective and sustainable forestry management operations, tactical planning is a critical piece of the forestry planning puzzle. It bridges the gap between high-level strategic goals and day-to-day operations, turning strategy into action.

With Remsoft optimization analytics, you can optimize your tactical planning activities to achieve the most value from every decision while ensuring you never lose sight of your organization's strategic objectives.

Implement your strategy and monitor effectiveness

Tactical planning impacts every level of forest operations, creating the foundation for an achievable annual plan. Using optimization modeling and prescriptive analytics, you can better address key capital investment decisions, gain deeper insight on wood flow profile and costs, and uncover mid-term business opportunities.

Plan roads and harvests more efficiently



Align road and harvest planning to improve profit margins and boost operational efficiency.

Coordinate harvest and infrastructure activities to prioritize decisions based on both road maintenance and capital investment requirements - and focus on decisions that yield the lowest delivered wood costs.

Enhance decision-making with data intelligence



Calculate harvest volumes and their demand on road usage, to make informed decisions about road maintenance and construction - ensuring the right grade of road depending on future volume flows.

Gain better insight into any trade-offs that are involved to improve planning.

Reduce operating and inventory costs



Reduce operational and road maintenance costs by clustering your harvest and scheduling less roads period-to-period to execute the harvest schedule.

Reduce working capital requirements through leaner inventory management across the supply chain.

Increase visibility and transparency



See the impact of both harvest scheduling and road planning decisions in one view to identify bottlenecks and improve efficiency.

Improve visibility into road maintenance costs and harvest volumes transported by road segment to support data-based decisions.

AGILE DECISION SUPPORT

Solve Complex Tactical Planning Challenges

With optimization modeling you can answer your most challenging questions. Easily visualize different alternatives and quickly understand the impact of decisions.

Inputs

- Fleet capacity
- Harvest unit standing inventory
- Harvest levels and volumes
- Delivery points
- Satellite yards
- Existing road network
- Harvest, transport and road maintenance costs

Questions Answered

- How can we minimize delivered wood cost?
- What products can we produce to maximize returns?
- How can we allocate fibre optimally within and outside the organization?
- How can we minimize road maintenance costs and align road planning with harvest sequence?
- How can we sequence harvest blocks to meet requirements, while providing the necessary profile (size, grade) for each facility?
- How can we minimize crew movement to maximize uptime?
- How can we best allocate infrastructure and harvest machinery?

Outcomes

- Maximize profits and minimize costs by balancing harvest production, road maintenance and wood delivery with demand fulfillment
- Create mid-term harvest and allocation plans
- Manage wood flow from forests to mills and other end-users
- Assess the impact of changes to future wood flow and harvesting schedules
- Evaluate different options and scenarios to identify the best path forward
- View and analyze results in maps, graphs and reports
- Share schedules and results with other stakeholders
- Provide inputs to more granular operational-level plans

IMPACT POWERED BY INTELLIGENCE

Real World Results Our Clients Have Seen



Improved Efficiency

- Cost savings of .5% to 4% in overall delivered wood cost using scenario modeling
- 17% reduction in waste by optimizing merchandizing plans
- \$100,000 annual improvement as a result of enhanced wood supply chain analysis
- 4% reduction in haulage costs from better harvest scheduling and road access planning
- Lower working capital costs due to leaner inventory management



Greater Precision

- 9% improvement in contract fulfillment due to increased accuracy and better schedule execution of deliveries
- Improved inventory management by optimizing harvest schedules, crew scheduling assignments, truck fleet capacity, delivery schedules and transportation routes



More Agility and Flexibility

- Improved workflow processes and communication between departments and across the organization
- Enhanced focus on achieving corporate goals, while successfully reaching the specific objectives of each regional operation

"Remsoft's Tactical Solution helped us improve Coillte's wood supply pipeline. It allows us to decide on the best actions in response to resource or market changes. It drives a planning process that requires our field planners to ground truth the tactical plans to create operational plans that meet strategic goals whilst being realistic and executable."

Liam Malone
Head of Resource Planning,
Coillte Forest

Interested in learning more? Visit www.remsoft.com/tactical-optimization