

Jeppesen Port Rostering

Optimize your staff and equipment planning with REKO

The continued profitable operation of a maritime terminal depends on management ability to increase throughput rate for containers or trailers at the terminal and meet customer service level agreements, yet at the same time keep personnel and capital resource costs to a minimum.

REKO is a powerful resource management tool that allows terminals to quickly and efficiently resolve staffing and equipment allocation issues to maximize throughput rates, minimize delays for visiting ships and other transport, yet keep payroll and equipment costs at a minimum. Experience shows that REKO can save as much as 10 per cent, on labor costs alone.

Complexity that demands a new approach

The operations at a maritime terminal demand that personnel and equipment need to be assigned to a variety of tasks.

The situation is complex due to personnel having different qualifications, different work preferences, and the need for feasible shifts. In addition there is always a scarcity of lifting and towing equipment.

Workload demand can vary dramatically, according to season, days of the week, as well as across a given day. Furthermore, ships are often delayed at short notice which requires frequent, comprehensive and rapid re-planning to be done.

The consequences of not balancing resource availability to this ever-changing demand include delays in ship movements, overtime payments, loss of personnel goodwill due to late roster changes, excessive payroll costs during idle periods, and costs for manually re-planning.

Managing and optimizing terminal operations effectively is near to impossible using manual planning methods. Even with automated planning help, it is still very difficult to evaluate the consequences of decisions.

What is required is a fully-integrated coordination of personnel and equipment resources, using advanced optimization methods, to enable terminal operators to meet deadlines and throughput demands at the lowest possible cost.

Jeppesen's approach is to create a software solution that takes all the aforementioned variable into account in one powerful package.

A unique and powerful solution

REKO combines state-of-the art optimization technology with a high degree of operational flexibility and user friendliness. The plans are calculated using mathematical models and optimization methods, which ensure that the most efficient solution is proposed to a given situation. The powerful optimization engine also allows very rapid planning which gives the planners the opportunity to evaluate several scenarios as required.

REKO schedules personnel in accordance with all legal and workplace rules, and preserves roster fairness and good working conditions. Our solution ensures the best possible assignment of personnel and equipment to the various work areas, ensuring that production deadlines are covered at the lowest costs.

REKO comprises a product core which manages the rostersing business process, and optional modules for optimization, shift or overtime bidding, or scenario management.

REKO core

- Coordination and overview of personnel and equipment
- Easy assignment of personnel and equipment to tasks minimizes costs and ensures deadline fulfillment
- Workload estimation
- Continuous update of payload and arrival data
- Extensive reporting to give management and planners visibility of, and control over, all operations
- Long-term planning for vacation requests and other absence
- User defined roster periods, allowing planning flexibility
- Individual schedules for personnel
- Support for grouping teams of personnel.

REKO modules

- Scenario analysis for evaluating the consequences of personnel and equipment changes
- Handling of working preferences for personnel, such as days off or non-work hour requests
- Optimization engines tailored to your business objectives.

Savings potential

REKO can give significant improvements in the coordination and utilization of maritime terminal resources. Jeppesen's experience is that savings can reach 10 percent even when applied to personnel costs alone. Reducing the need for overtime, as well as providing a better matched allocation of available personnel and equipment to actual demand, makes REKO a vital tool in ensuring the competitiveness of your maritime terminal.

About Jeppesen

Jeppesen is a wholly-owned subsidiary of The Boeing Company and is recognized as one of the world's foremost providers of information and business support solutions to the transportation industry. Jeppesen employs over 3,000 personnel, based at over 27 locations worldwide. Jeppesen has expanded its products and services portfolio to include delivery of leading-edge planning and resource optimization tools to improve the efficiency of railways, air and port terminals, and postal and logistics companies.

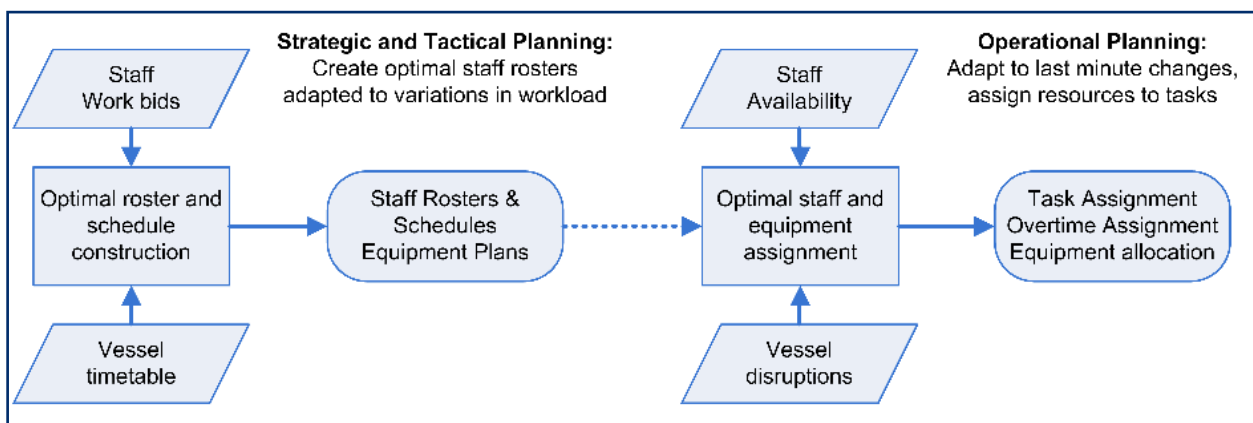


Figure 1: Process Flow Diagram

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