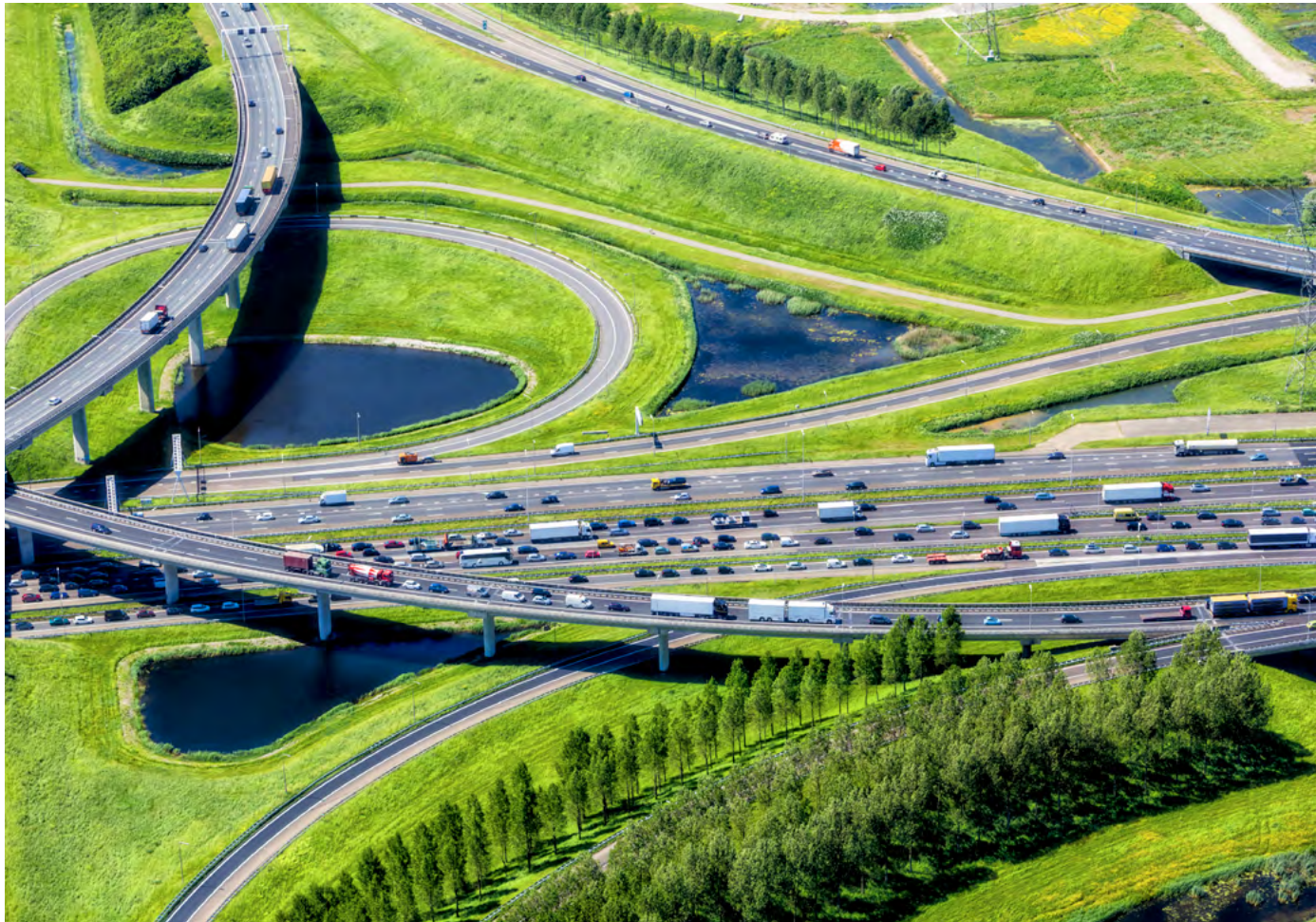




Increase efficiency and profits with smarter logistics planning

Are you in control of your business or are you flying blind? Find out how an intelligent supply chain planning and optimization solution could turn your logistics operation into a profit center.





How to reduce costs and increase operational efficiency

Logistics planning involves a staggering level of complexity. You need to juggle numerous depots, vehicles, and customers, each with unique constraints. At the same time you strive to keep costs down and retain the highest levels of customer service.

Most transportation management software (TMS) focuses solely on improving operational efficiency to increase asset utilization. That is not enough. In a dynamic environment, you need a solution that offers visibility, agility and business control to take advantage of every cost-saving opportunity – even those that crop up on the day of delivery itself.



Gain business control and visibility through intelligent planning

“With Quintiq, we benefit from more competitive operations, cost savings and improved efficiency.

We have experienced first hand, Quintiq’s ability to quickly create flexible applications for company-wide support.”

– Renaat Sohl, CIO, Ewals Cargo Care

Quintiq offers a dynamic, real-time solution that optimizes the planning of complex transportation cycles. The Quintiq Logistics Planner is uniquely capable of supporting all your planning needs, no matter how large or complex your organization.

Quintiq leveraged its proprietary technology and its deep knowledge of logistics for the development of the Logistics Planner. The Quintiq platform simultaneously evaluates the real cost trade-offs between various mode, route, consolidation and carrier combinations against multiple key performance indicators (KPIs) e.g. lower cost.

With the Quintiq Logistics Planner, you can optimize loads, create reliable transportation plans, support multi-hub and multi-leg operations and manage value-added services at every logistics link of your supply chain.

Quintiq supports the planning of all logistics functions, including:

- Cross docking
- Multi-hub and multi-leg logistics
- Intermodal transport
- Full-truck load (FTL), Less than truckload (LTL) and groupage
- Distribution
- Container planning and empty repositioning
- Multi-compartment trailer planning
- Ferry and train connection selection
- Inventory management including Vendor-Managed Inventory (VMI)
- Charter management
- Automatic consolidation
- Trailer/truck/driver swapping



Visibility and business control at the touch of a button

“Due to rapid growth, it became necessary for us to optimize the planning of company processes from the operational to the strategic level.

We chose Quintiq to help us achieve this goal. One of the added benefits has been efficiency improvements as a result of company-wide transparency and insight.”

– Willem Heeren, Managing Director,
Jan de Rijk Logistics

The Quintiq Logistics Planner is unique in being able to consolidate all your organizational planning requirements in a single, unified system, integrating numerous resources to provide organization-wide transparency, communication and direction.

Designed to support your specific requirements, the Quintiq solution encompasses:

- Long-term strategic planning: Design an optimal network
- Tactical capacity planning: Optimize your supply chain
- Operational scheduling: Maximize utilization of trucks, trailers, containers, drivers and other resources
- Real-time event management: Respond quickly and confidently to network disruptions.

The strength of Quintiq's technology lies in its ability to consider both the present and future needs of your company.

The business control and visibility provided by the Quintiq technology allows planners to evaluate planning scenarios according to KPIs so they know ahead of time the effects their decisions will have. With that knowledge, planners can modify their plans to achieve desired business goals.

Quintiq's Mobility Server, an optional add-on, extends the planning platform to mobile devices. This capability, along with the ability to integrate with board computers, allows for real-time feedback into the planning and estimated time of arrival (ETA) calculation, giving your customers visibility as well.



CN was looking for a modern, cost-effective means of leveraging new driver scheduling technology. The implementation of Quintiq's Logistics Planner will be simplified by adding in Quintiq's Mobility App, further enabling CN to increase the quality of the services it provides to its intermodal customers and value to shareholders."

– Pierre Arsenault,
CN General Manager
Intermodal Operations, CN

Respond to network disturbances with confidence

The Quintiq platform lets you monitor, modify and replan shipments en route. Through real-time alerts and constraint management, Quintiq immediately reveals the consequences of unplanned events. Advanced overviews support managers in making quick, accurate decisions to rectify disruptions and re-optimize the network.

So no matter what happens, you will be able to confidently and cost-effectively meet even the toughest service-level agreements.

A solution as unique as your organization

By incorporating your company-specific rules, constraints and KPIs, the Quintiq Logistics Planner can be designed to meet the unique planning needs of your company.

All Quintiq solutions have the same advanced technology base, with a fully configurable company-specific layer. This guarantees the planning solution will perfectly match your organization's needs.

Quintiq's Logistics Planner also allows for all your organization's constraints to be entered into the system. This unparalleled flexibility and modeling power provides end-to-end network and resource optimization.



“Transporting flat glass is a very unique and complex process, quite different to general cargo.

Combining this complexity with lots of customer-specific requirements, country-specific constraints, and different cost structures per carrier together makes an extraordinarily complicated environment. With Quintiq we will achieve our goals while reducing transport costs.”

– William Beguerie,
General Manager, Saint-Gobain

Increase efficiency and decrease costs with superior technology

The planning of your entire fleet, charters, network, depots and drivers can be done with a centralized, integrated system. With optimized planning, you can improve the flow throughout the supply chain and realize significant cost savings.

The Quintiq solution supports load consolidation and helps you identify and overcome bottlenecks and capacity restrictions. The result? Maximized asset utilization and reduced personnel and transport costs. You benefit from agility in execution, flexibility in operations and a healthier bottom line.

Supporting sustainable, cost-effective practices

Quintiq helps your organization reduce its carbon footprint by enabling you to optimally schedule your fleet. You can reduce empty miles, increase capacity utilization and consolidate shipments. A planner can evaluate different transport modes for particular legs while taking into account customer service level agreements, costs and other KPIs.

Overall, the optimized planning ensures your organization improves revenues by reducing direct transport costs – that's when going green makes good business sense.



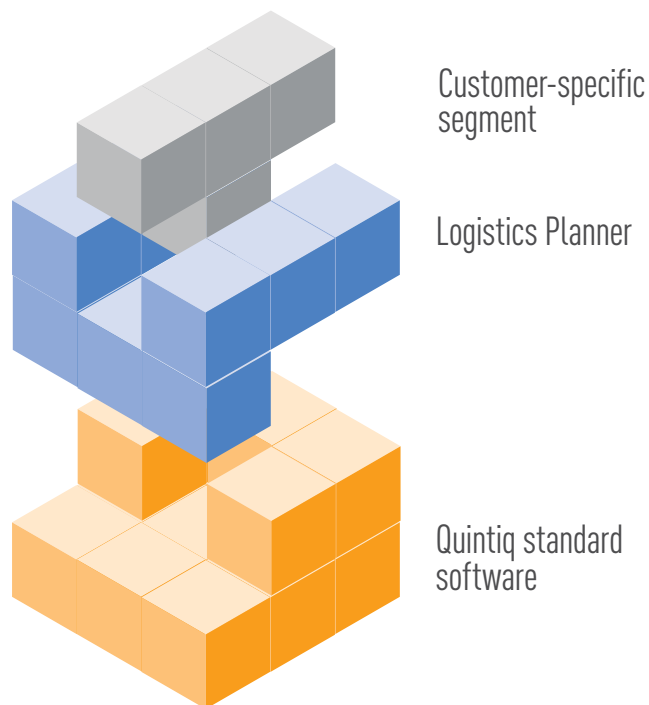
Key features

- **Dynamic route planning** – Optimize your fleet and choose the most cost-effective routes, including multimodal, multi-leg and multi-hub trips.
- **Load consolidation** – Optimally distribute or consolidate loads to maximize capacity utilization and reduce empty miles.
- **KPI-based planning** – Visualize the impact of each planning action at both the planning and execution level. Planners can then take appropriate action based on multiple KPIs.
- **Real-time disturbance handling** – Receive notifications of personnel and resource shortages. Confidently handle traffic jams, employee absences, vehicle breakdowns and last-minute changes in customer orders.
- **Support for planners on all levels** – Concentrate on the planning activities, knowing that all legal and organization-specific planning rules have been incorporated within the system.
- **View customization** – Define views according to individual users' needs and preferences.
- **Company-wide transparency and control** – Facilitate information sharing. Understand your business processes to make better-informed decisions.
- **Management information and drill down capabilities** – Leverage valuable data to support accurate decision making, including sensitivity analyses on service levels.
- **Scenario management** – Create what-if scenarios with endless experimentation options and link different knowledge bases to explore options before decisions are made.
- **Workforce optimization** – Plan, schedule and dispatch your workforce, taking all constraints, rules and directives, and employee preferences into account.



Quintiq architecture

The Quintiq Application Suite consist of a unique three-layer architecture:



The Quintiq standard software

All Quintiq solutions, regardless of the company's specialization, contain this layer, which makes up 80% of each solution.

The Quintiq Application Suite contains most of the planning functions, including Windows and web user interfaces, the real-time knowledge engine, the integrator that connects Quintiq optimizers with other systems.

Logistics Planner

Accounting for 10-15% of the solution, this layer contains all data specific to the supply chain planning and optimization solutions.

Key benefits:

- Efficient personnel and resource utilization
- Unparalleled business control and visibility throughout the organization
- Improved delivery performance
- Significantly lower energy and fuel costs
- Reduced carbon footprint
- Higher profitability

Customer-specific segment

This fully customizable layer includes all the information specific to your company's unique business rules and processes. It accounts for 5-10% of the solution.

Based on this architecture, the Quintiq application suite is standard software that offers you the advantages of a customized solution. You enjoy fast deployment, timely upgrades and a solution tailored 100% to your organization's specific needs. This unique approach gives you the best of both worlds – customization and out-of-the-box functionality.



About Quintiq

Quintiq's revolutionary supply chain planning and optimization (SCP&O) platform enables enterprises to improve efficiency at every stage of the supply chain journey. It powers end-to-end planning and optimization of personnel, resources, and processes in a single planning environment, across all planning horizons. Many of the world's largest and most successful enterprises rely on Quintiq to achieve their business goals, strengthen their competitive advantage and create new revenue streams.

Established in 1997 and growing rapidly, Quintiq has a global presence with dual headquarters in the Netherlands and the USA, a global development center in Malaysia and offices around the world. Quintiq's software is in use in over 80 countries worldwide.



Offices: www.quintiq.com/locations

Email: info@quintiq.com | **Web:** www.quintiq.com