

Software solutions



Shaping the future of supply chain

4flow vista®

Supply chain network optimization

4flow VIA®

Supply chain network planning suite

4flow iTMS

End-to-end transportation management

4flow TORO

Transportation optimization in MRP

Kinaxis applications by 4flow

Transportation optimization and network design in Maestro®

4flow is a leading global provider of supply chain consulting, software and fourth-party logistics (4PL) services. Our end-to-end solutions help our customers optimize their supply chains to be prepared for the future.

4flow customers include:

BASF	BA	T B. Brau	ın BMW	Bosch	
Deichr	mann	eBay	EDEKA	Festo	HelloFresh
KTM	Lear	Mars	Meyer Werft	Puma	Roche
Siemens		Stellantis	Volkswagen	Volvo Cars	



"With 4flow's support, the Lear transportation network is now managed from end to end on a continuous basis. As a result, more than 50 plants with 1800 supply lanes and about 25 carriers are optimized continuously."

Head of Logistics Europe & Africa and Global Head Materials Management Center of Excellence Lear **About 4flow**

20+

offices in Europe, North America, South America and Asia 1300+

team members globally

400+

customers globally

300+

projects annually around the world

100%

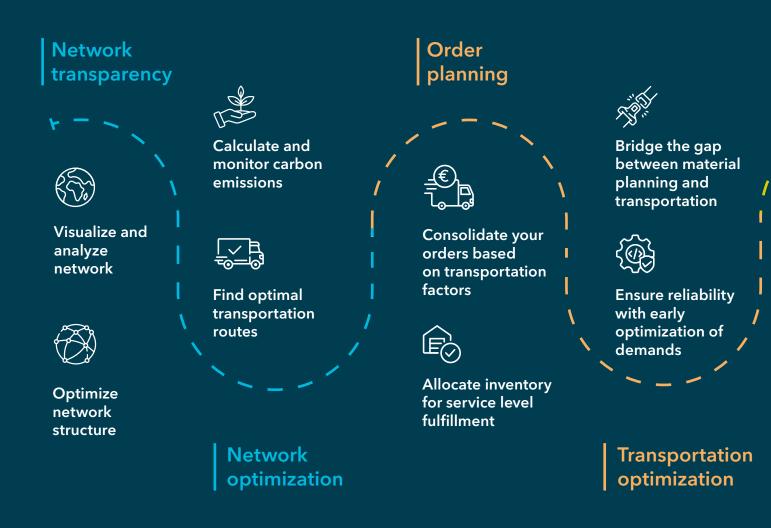
management-owned

2000

year of foundation

4flow supports its customers globally with extensive supply chain and software development know-how

We support your entire supply chain journey with planning, optimization and execution solutions







Integrated material and transportation planning software

Transportation management



Assign carriers and plan loads based on actual demands



Order and manage operational delivery dispatch



Manage orders and inventories of returnable packaging



See shipment status with real-time track and trace



Transportation execution



Handle exceptions with step-by-step support



Coordinate time slots at loading docks to balance capacity



Get business intelligence analyses and KPI reports



Clarify freight cost claims, pricing structures and billing

Transportation controlling



End-to-end transportation management system

KINGXIS

Already using Kinaxis
Maestro®?
Expand your capabilities see how on page 24

Supply chain software from 4flow



Value-driven solutions

Our solutions bring you tangible and direct benefits: cost reduction, supply chain sustainability, end-to-end visibility and agile planning. We ensure your success in a dynamic environment.



Cutting-edge technology

Scalable and easy-to-integrate solutions leverage artificial intelligence and machine learning. Enable data-driven decisions and enhance performance across your supply chain.



Supply chain expertise

Backed up by extensive business know-how, we specialize in supply chain process optimization, digitization and automation. Our solutions are used globally and ensure a competitive advantage.



Customer-centric approach

We prioritize customer success with highly adaptable, user-friendly solutions customized to the unique needs of your organization.

Software products for planning, optimization and visibility of supply chain and transportation networks

Network optimization and strategic transportation planning Tactical transportation planning

Operational transportation optimization and transportation execution

1 year or more

6 months/ a few weeks 1 week/ a few days Today

Time

4flow VIA®

Supply chain network planning suite



Strategic planning



Tactical planning



Operational planning

4flow vista®

Comprehensive network optimization and transportation planning



Strategic planning



Tactical planning



Operational planning

End-to-end transportation management system

4flow iTMS

Integrated transportation management



Strategic planning



Tactical planning



Operational planning

4flow vista® SAP add-on

Network design and planning in SAP TM



Strategic planning



Tactical planning



Operational planning

Integrated material and transportation planning software

4flow TORO

Transportation optimization in MRP



Strategic planning



Tactical planning + ERP/SAP®



Operational planning

Kinaxis TLO by 4flow

Transportation optimization in Maestro®



Strategic planning



Tactical planning + Kinaxis



Operational planning

Supply chain network design software

Strategic and tactical network design, planning and optimization

To help you design and optimize your network, 4flow offers a range of modern and intuitive network design software. These solutions quickly provide network visibility, analyze network scenarios and optimize tactical and strategic planning.



Easy-to-use workflow



Quick, reliable and actionable insights



Sustainable optimization algorithms developed inhouse for faster run times



Modeling and optimization of multi-leg and intermodal transportation



Suitable for all industries and all modes of transportation



Total cost analysis and calculation

Supply chain network design software from 4flow supports users from creating transparency to designing a resilient network

2024 Gartner® Market Guide for Supply Chain Network Design Tools

4flow was listed as a Representative Vendor in the 2024 Gartner® Market Guide for Supply Chain Network Design Tools* for the software product 4flow vista®.

*Gartner, Market Guide for Supply Chain Network Design Tools, Vicky Forman, Pia Orup Lund, February 15, 2024



Common use cases

Instant supply chain network transparency

Achieve early-stage transparency to improve the quality of planning and support decision-making

Boost sustainability with a carbon emissions dashboard

Track, analyze, and reduce greenhouse gases, carbon emission intensities, exhaust emissions and air pollutants for a greener future

Network optimization and strategic transportation planning

Determine the optimal structure of supply, production, and distribution networks based on past and future requirements

Tactical transportation planning

Get support for every step, from the definition of transportation structures to the optimization of transportation rates and modes to efficient route planning

Reliable inventory allocation decisions

Make quick, data-driven decisions about inventory allocation to ensure stock availability and improve service level



4flow vista® - comprehensive optimization and planning software for supply chain networks

Improve network agility while maintaining network efficiency and minimizing total costs

4flow vista® is the industry-standard software for the optimization of complex networks and transportation planning. As a comprehensive software solution, 4flow vista® covers use cases from the strategic to the tactical level. Algorithms and heuristics developed in-house for network design and supply chain planning reflect more than 20 years of experience.

4flow vista® is available as an active module in the 4flow iTMS and as an add-on to SAP TM.

End-to-end planning approach

Optimize network structures for the long term as well as transportation capacities for the short term. Planning results can also be integrated into existing IT systems.



Up to 15% proven reduction in logistics costs



Network design for greater efficiency and growth



Identification of optimal strategic routes



Improved transportation utilization



Optimization methods developed in-house with options to set parameters



Modeling and optimization of multi-leg and intermodal transportation



Common use cases

Network optimization and strategic transportation planning

- Visualization of supply chain networks
- Definition of the transportation network and number of network levels
- Position of sites and allocation of assortment
- > Total cost optimization

Tactical transportation planning

- Definition of transportation structure
- Optimization of transportation costs and modes
- > Efficient route planning
- > Preview of transportation

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Did 4flow vista® spark your interest? Please get in touch to find out about our services. Scan the QR code and we will be in contact soon.



4flow VIA® - supply chain network planning suite

For organizations that continuously need to optimize their complex supply chain networks, 4flow VIA® is the modular software for use cases from the strategic to the tactical level - including network visualization, analysis and optimization.

Cutting-edge software suite for agile supply chain network planning



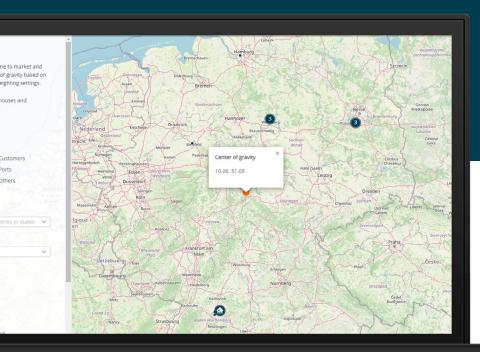
Dedicated modules for specific use cases



Easy data integration



Centralized data management

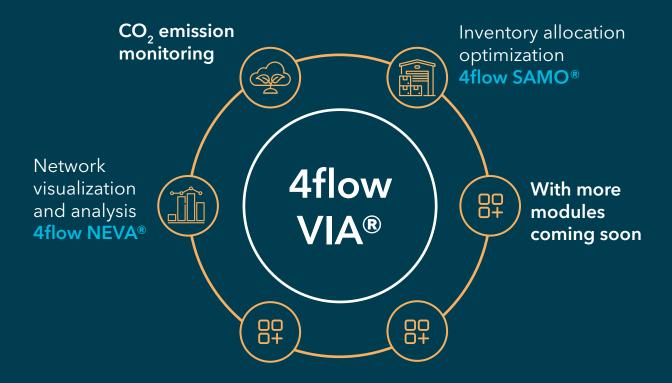




User friendly with in-app support, user guides and online help



Build your custom modular solution





Function-specific modules



, Use as stand-alone or integrated solutions



Continuous development of new modules



4flow NEVA® - rapid modeling and analysis software for supply chain networks

Quickly gain transparency and improve supply chain planning quality

4flow NEVA® (Network Exploration, Visualization and Analysis) provides visibility in complex baseline networks in minutes with user-friendly and detailed interactive models and analyses.

The software improves supply chain network transparency, enables quick reactions to changes, and identifies potential improvements in the network.



Visualization and analysis of complex networks with thousands of lanes in minutes



Carbon footprint calculation and analysis (optional add-on)



Insight into network dynamics like changes in demand, lanes or network performance



Center of gravity analysis to find ideal warehouse locations

Common use cases

Improve supply chain network transparency

Identify the optimal location for a new warehouse or distribution center

Track your network's changing footprint

See tips to improve your supply chain network

Improve sustainability with a carbon emissions dashboard





4flow SAMO® - smart inventory allocation optimization

Ensure stock availability and keep service level up while reducing total logistics costs in distribution networks

4flow SAMO® (Smart Allocation Management Optimization) optimizes product allocation in relation to customers and existing warehouses.

Smart analysis and optimization algorithms empower supply chain experts, planners and consultants to make quick, data-driven allocation decisions.



What-if scenario modeling and management



Assured stock availability



Cost savings across the supply chain



Allocation optimization across warehouse networks

Common use cases

Optimize product allocation across warehouse network

Explore the total cost impact of different service scenarios

Identify need for additional warehouse space





4flow iTMS - the integrated transportation management system

Sustainable cost savings in complex supply chain networks with a single platform

The 4flow iTMS enhances the functionalities of a transportation management system by adding the decisive advantages of planning and optimization. This modular yet fully integrated combination is the key to efficient cost analysis and digital transformation of your supply chain processes.

Optimize end-to-end transportation processes in supply chain networks

Identify optimal transportation concepts

Make savings potential visible and achievable



Supply Chain Excellence Awards 2023

Mars Europe and 4flow were presented awards for excellence in supply chain operations.

To significantly improve performance of its intermodal European transportation network, Mars partnered with 4flow to implement a continuous approach to integrated transportation planning, optimization and execution.



Designed for **cost savings** of up to 15%



Viable long-term decisions with CO₂ reporting



Mature transportation management with 20% improvement of network performance



Collaboration of all stakeholders on a single platform



Modular configuration for a **flexible** architecture



Reflects real-world constraints with a digital twin

Unlike other transportation management systems, the 4flow iTMS supports users throughout the transportation planning process



One single platform for maximum

transparency

Involve stakeholders early to increase transparency, improve the quality of planning and support decision-making

Clear workflow for

active management

Continuously optimize your network and transportation processes to maximize savings, gain full transparency and actively manage your supply chain

Advanced

planning

Empower holistic supply chain planning and optimization by taking strategic, tactical and operational time horizons into account

Increased

maturity

Grow with us as a partner - reach your highest possible supply chain maturity level with our step-by-step approach

Fast and scalable

implementation

Integrate the 4flow iTMS into any ERP system landscape or deploy the software as a service (SaaS)

A Notable Vendor in 2023 Gartner® International and Europe Context: 'Magic Quadrant™ for Transportation Management Systems'

4flow has been named a Notable Vendor in both 2023 Gartner® International Context: 'Magic Quadrant for Transportation Management Systems'* and 2023 Gartner® Europe Context: 'Magic Quadrant for Transportation Management Systems'**. In both reports, 4flow was recognized for the 4flow iTMS.

*Gartner, "International Context: 'Magic Quadrant for Transportation Management Systems'", Oscar Sanchez Duran, Brock Johns, March 28, 2023.

**Gartner, "Europe Context: 'Magic Quadrant for Transportation Management Systems'", Oscar Sanchez Duran, Brock Johns, March 28, 2023.

Customize your iTMS set-up to answer your most pressing questions

With its modular architecture, the 4flow iTMS offers a wide range of options to tailor the solution according to your individual needs.

Do any of these questions sound familiar to you?

Whether in the strategic, tactical or operational planning phase: The tailored 4flow iTMS modules will give you the insights to confidently answer these questions - and more.

How is the performance in my network?

How can I handle all these carrier cost claims?

With its modular

architecture, the

4flow iTMS covers all
relevant transportation
processes - planning,
execution and controlling

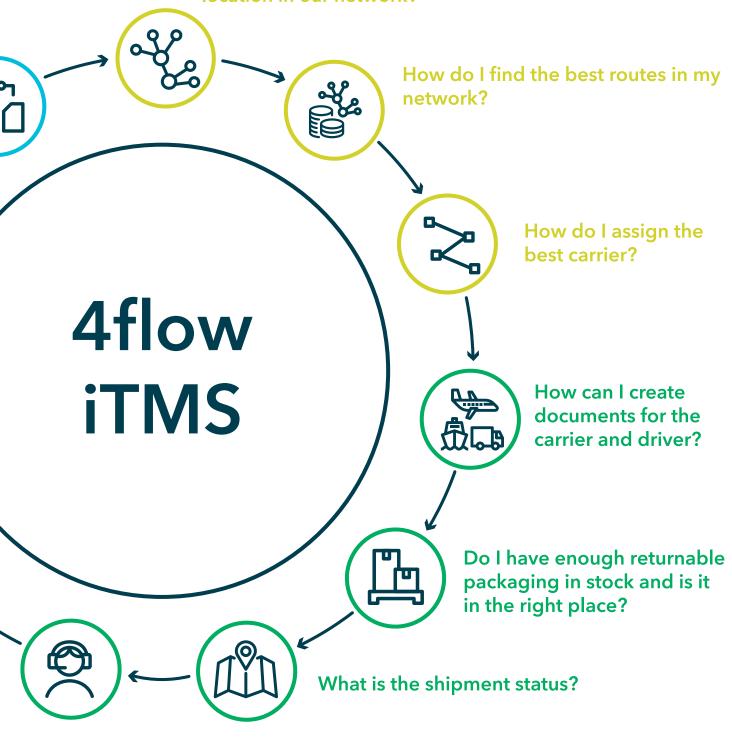


How can I get

validated data?



Should I set up an additional location in our network?



Who takes care of a late shipment?

- O Planning
- O Execution
- Controlling



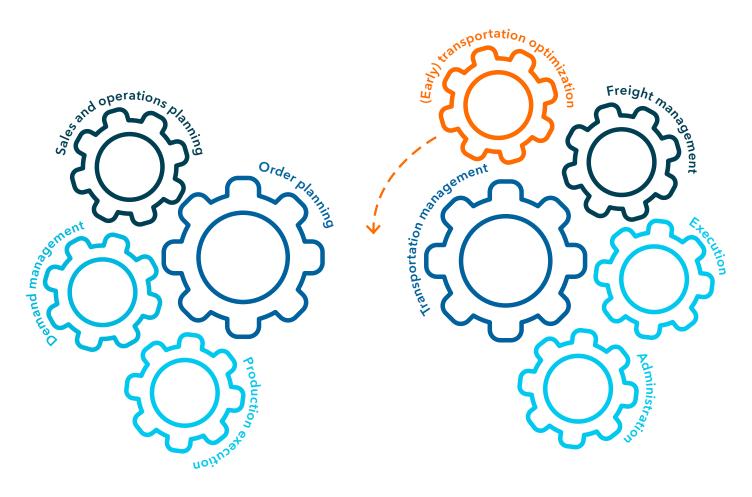
Integrated material and transportation planning software

Optimize orders by considering critical transportation factors in the material planning phase

Enable planners to make confident decisions by bridging the gap between orders and transportation planning.

Seamlessly consider transportation costs and restrictions at an early stage without a negative impact on inventory levels or material availability.

Modern order planning software integrates transportation optimization





Tangible benefits

All your complex data is considered and optimized - automatically

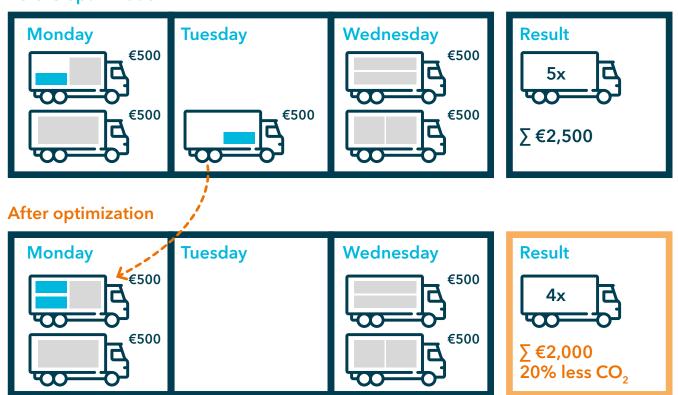
Streamlined processes that eliminate planning silos and reduce manual effort

Utilization improvement up to 25% and **cost savings** up to 20%

Common use cases

- Inbound Optimize your call-offs and improve utilization of FTL or LTL shiments
- > Intercompany and outbound
 Optimize your orders between
 production and distribution sites or
 between warehouses and distribution

Before optimization



4flow TORO - seamlessly optimize your order planning

Achieve transportation cost savings earlier in your supply chain

4flow TORO is the new plug-in solution that integrates transportation optimization into material planning with minimal impact on inventory.

The solution helps businesses consolidate and optimize their orders, maximize shipment utilization and achieve significant cost savings.





Flexible architecture and quick implementation

Thanks to its composable and easily adaptable architecture, 4flow TORO can be seamlessly integrated into existing ERP systems such as SAP.

As a result, 4flow TORO enables planners to make confident decisions, eliminate silos and create tangible benefits in their supply chains.



Create up to 20% cost savings



Increase utilization by up to 25%



Improve planning quality and **efficiency** by up to 12%



Enable greater sustainability



Plug-in composable cloud solution



Boost transparency with full results control

Seamless transportation and load building optimization in Kinaxis Maestro®

Increase planning efficiency, save transportation costs and reduce carbon emissions

The Kinaxis Transportation Load Optimizer by 4flow (TLO) is an embedded certified Maestro® application that enables Kinaxis customers to integrate transportation constraints earlier into S&OP processes.





Rapid network design and optimization in Kinaxis Maestro®

Achieve transparency and optimize entire networks for cost, lead times or service level

Kinaxis Network Design by 4flow (NWD) is an integrated Maestro® application that gives users transparency across their supply chain networks and lets them optimize for cost, lead times, carbon emissions or service level.



Improvement tips for your supply chain network



Insight into network dynamics like changes in demand or lanes



Bring the power of transportation optimization to Maestro® concurrent planning



Reduce carbon emissions by over 15 %



4flow

Your supply chain solution

4flow is a leading provider of supply chain consulting, software and managed services. With cross-functional competence and supply chain optimization expertise, we meet and exceed the highest standards of quality and innovation

4flow consulting

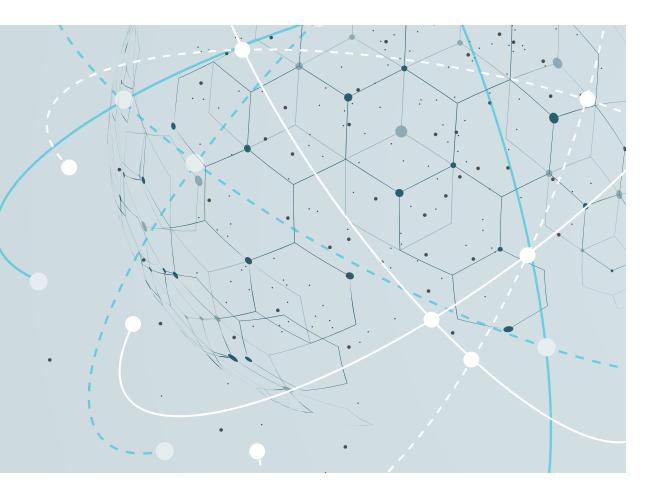
offers process-oriented supply chain consulting, from strategy to implementation

4flow software

offers a wide product portfolio for transportation and supply chain network optimization

4flow management

manages and optimizes supply chain networks as a neutral party





4flow on LinkedIn



Customer focus

Solutions designed to fit individual customer needs



Digital leader

Award-winning projects and software, state-of-the-art technology competence



Cost reduction expert

Structural and long-lasting cost reduction



Optimization as a business model

Project, software and optimization process outsourcing



Safe transition

Years of change experience put to work for your success, from strategy to implementation



Constant innovation

Generating new ideas and turning them into reality - every day





Interested or have questions? Contact us!

Get in touch to have your questions answered or to schedule a live demo of our software solutions.



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