2020 Vision: Legacy vs. Next-Gen Routing Software

> Presented by: Erich Wolters VP, Wise Systems









Track Your Order

DOMINO'S TRACKER®

Know the status of your order, from the moment it's placed to the second it leaves our store for delivery or is ready to be picked up.





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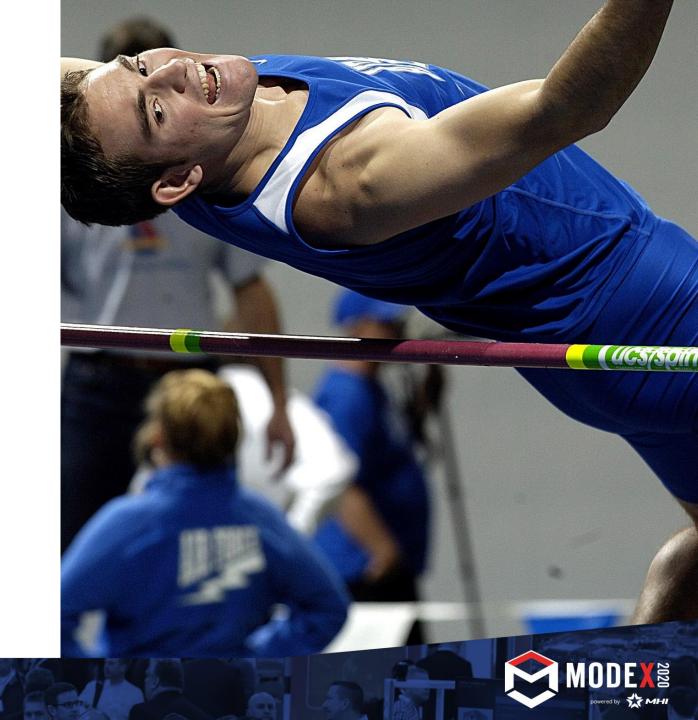
<section-header>A Crack Your Order Description of the status of your order, from the moment it's placed to the second it leaves our store for delivery or is ready to be picked up. Merke Non The Word - Salim left the store with your order at 07:13PM



<section-header>A Crack Your Order Dominant Order Dominant Order Dominant Order Dominant Order Constant Order



The customer experience bar has been raised.



Introductions



Erich Wolters VP, Wise Systems

Speaker email: ewolters@wisesystems.com Website: www.wisesystems.com

MODEX Booth #6378



What Are Your Operational Goals? For 2020 and Beyond?

Business growth & flexibility

Maximum efficiency

Fleet utilization

High quality-customer service







Routing plays a critical role in creating capacity and ensuring business growth

Genuinely successful transportation operations require new enabling technologies



Industry Trends: Driving New Routing Tech Adoption

Business Pressures

- Rising transportation costs
- Aging workforce and driver turnover
- Traditional systems

POWERED BY POSSIBILITIES.

• Expanded delivery footprint & SKU proliferation



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- Rising transportation costs
- Aging workforce and driver turnover
- Traditional systems
- Expanded delivery footprint & SKU proliferation

External Factors

- Surge in urban congestion
- Last-mile complexity
- Rising consumer expectations (The Amazon Effect)
- E-commerce growth

+

• New regulations (e.g., ELD mandate)



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Technology Advances

- Abundance of transportation data and analysis tools available
- Ubiquity of mobile devices
- Shift from on-premise software to cloud-based solutions
- AI & machine learning

+



Typical Delivery Operation



DEX

MHI

MIXED DELIVERY DAY

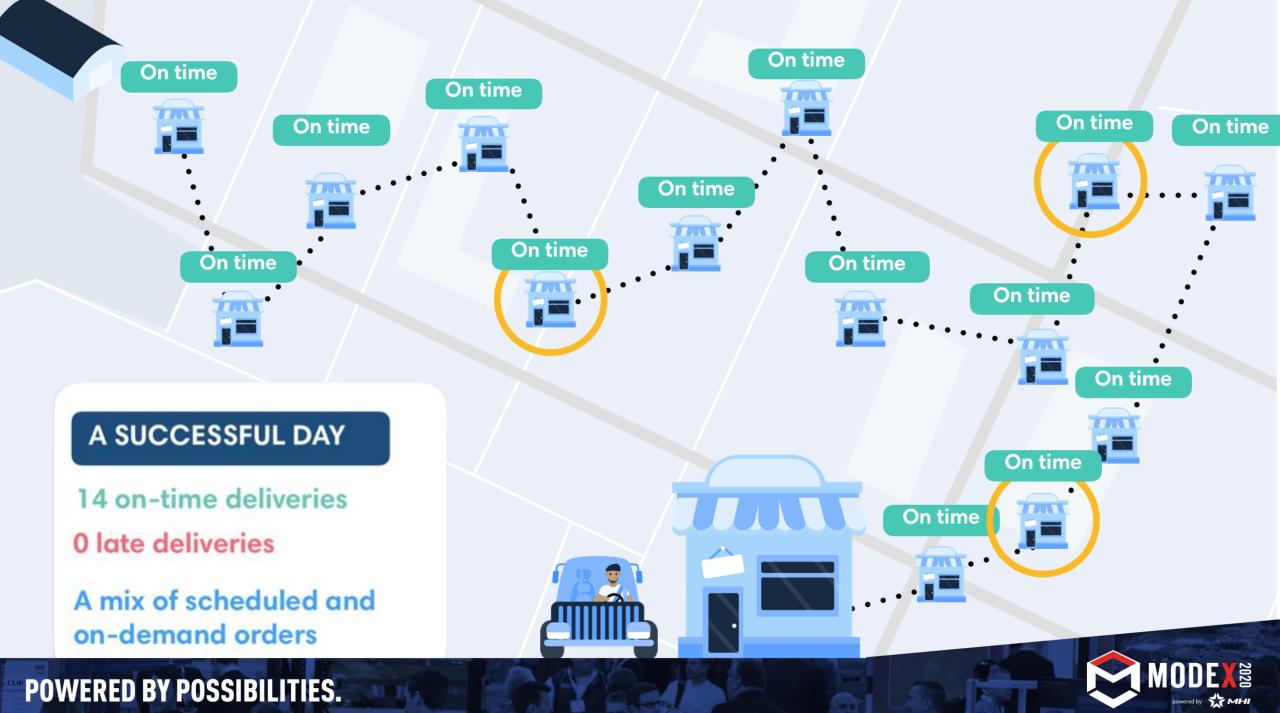
11 scheduled deliveries3 on-demand orders

POWERED BY POSSIBILITIES.



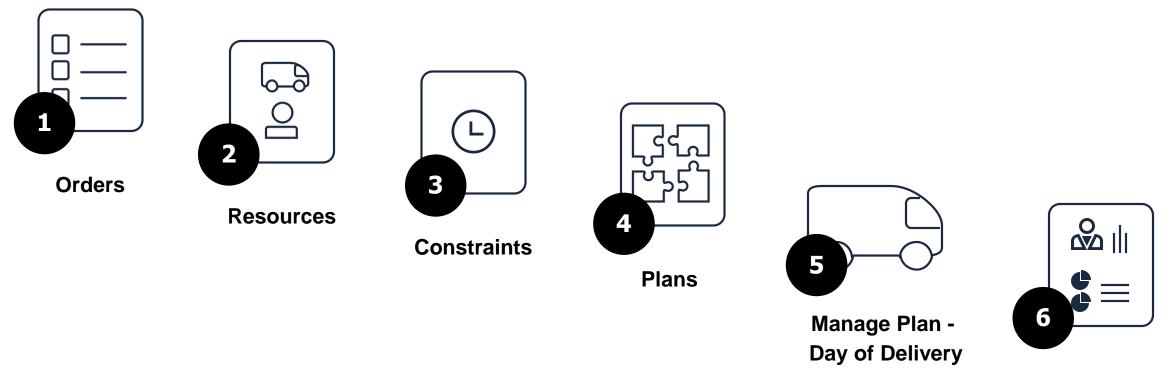


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What is Involved in the Routing Process?

POWERED BY POSSIBILITIES.



Post-Execution Analysis



Various Approaches to Routing

- 1. Manual Routing
- 2. Legacy Routing Software
- 3. Next-Gen Routing Software



Various Approaches to Routing

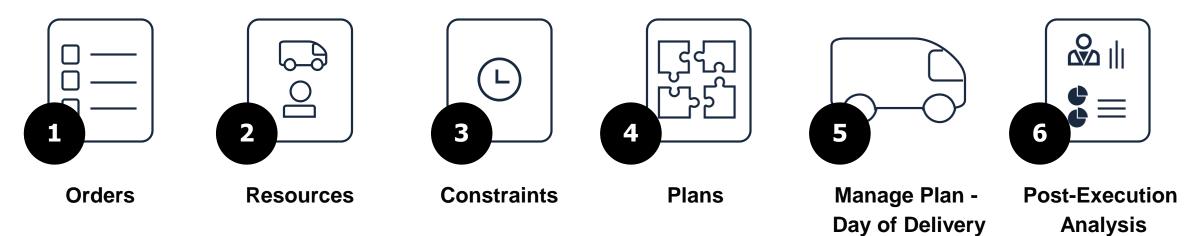
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Not software-supported and remains in use due to inertia

What's involved?

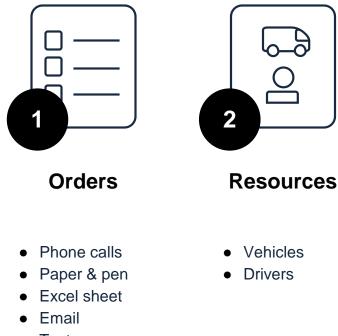






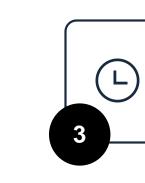
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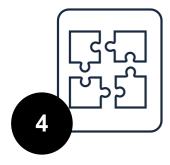
- Text message
- Fax





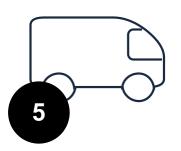
Constraints

- Time Windows
- Vehicle limits
- Shift hours



Plans

- Pen & Paper
- Excel
- Physical Maps
- One to two core people manage process



- Manage Plan -Day of Delivery
- Calls/text to drivers to check on ETA
- Call/text customers

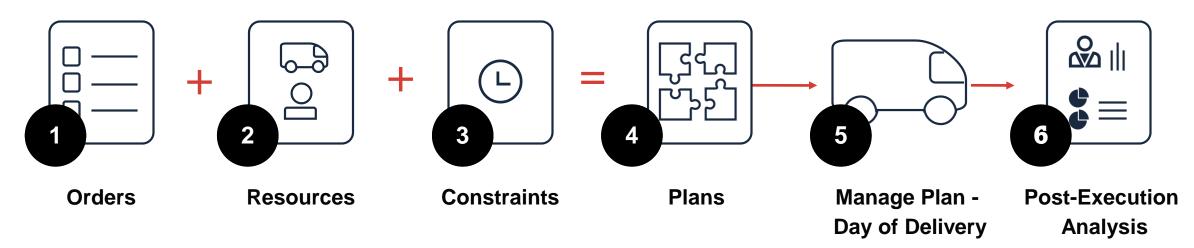




- **Post-Execution** Analysis
- No easy way to verify delivery execution

The process

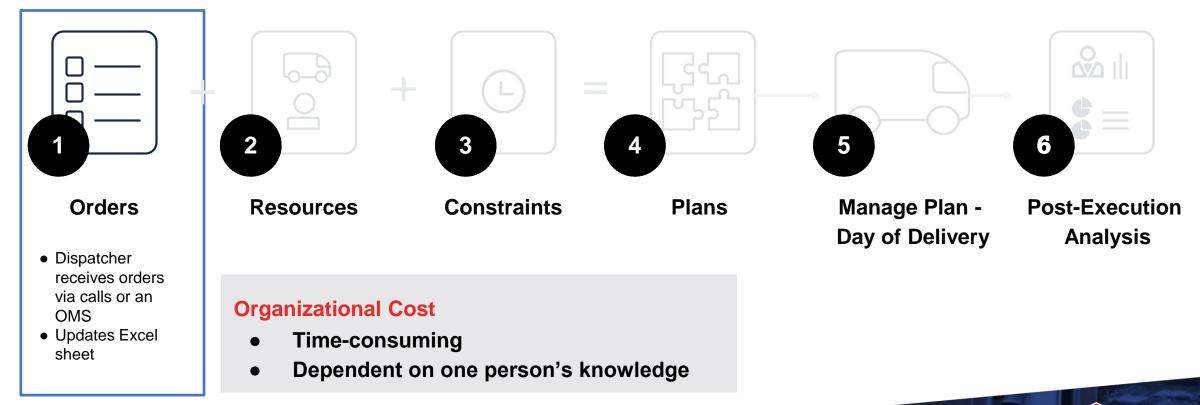
What's involved?



Usually takes hours/days to plan Not streamlined Relies on one or more people (organizational risk)

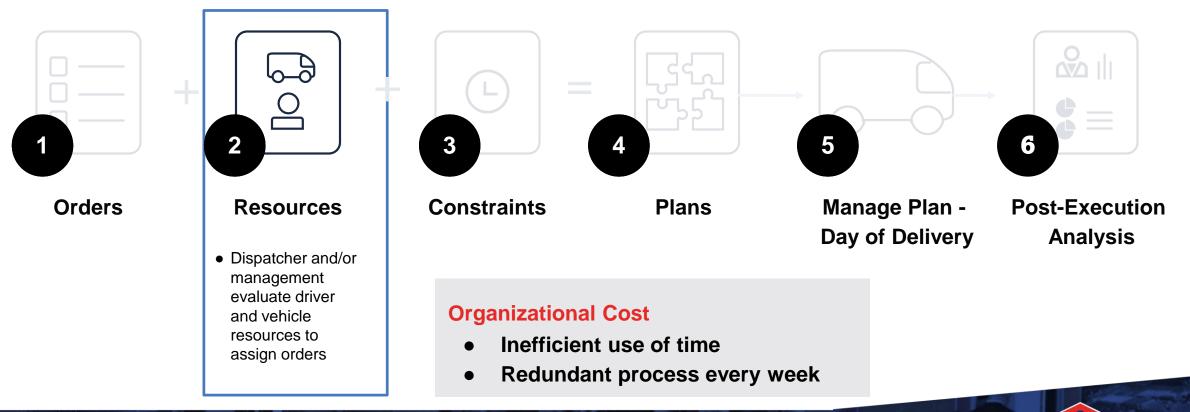
The process

What's involved?



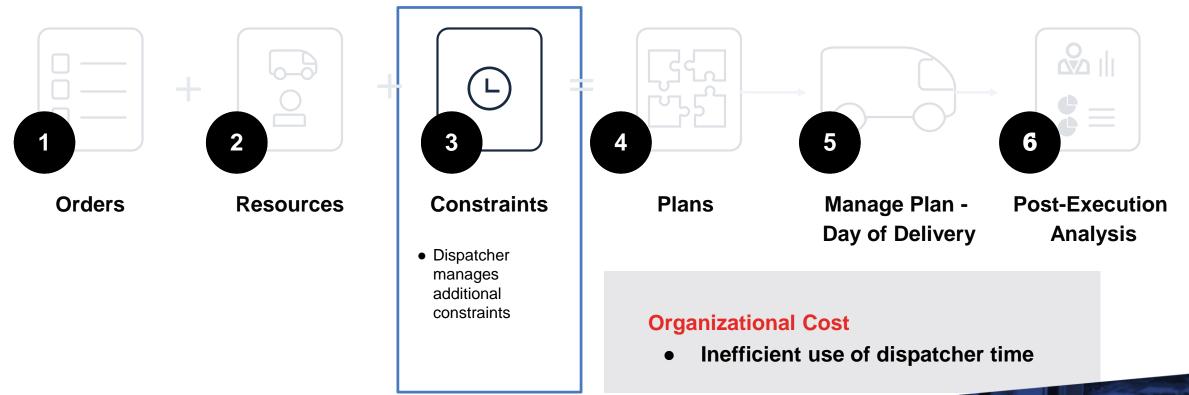
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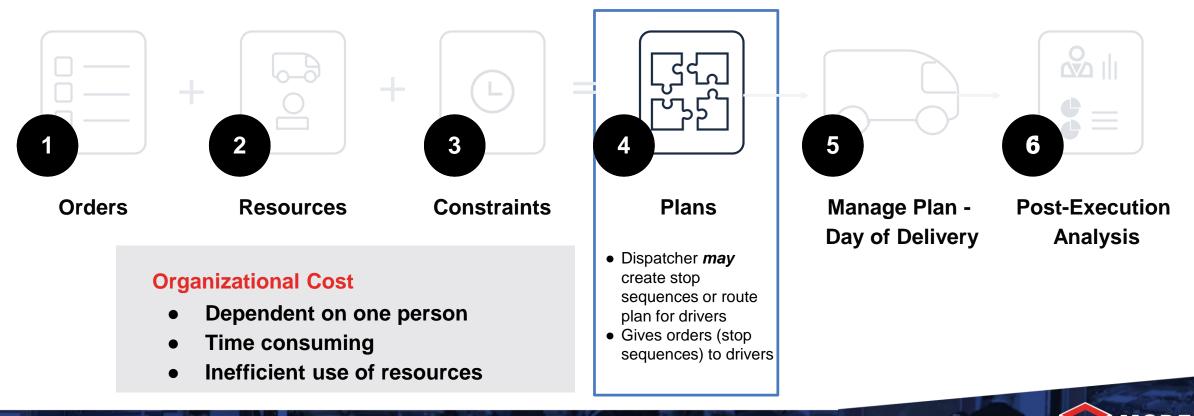
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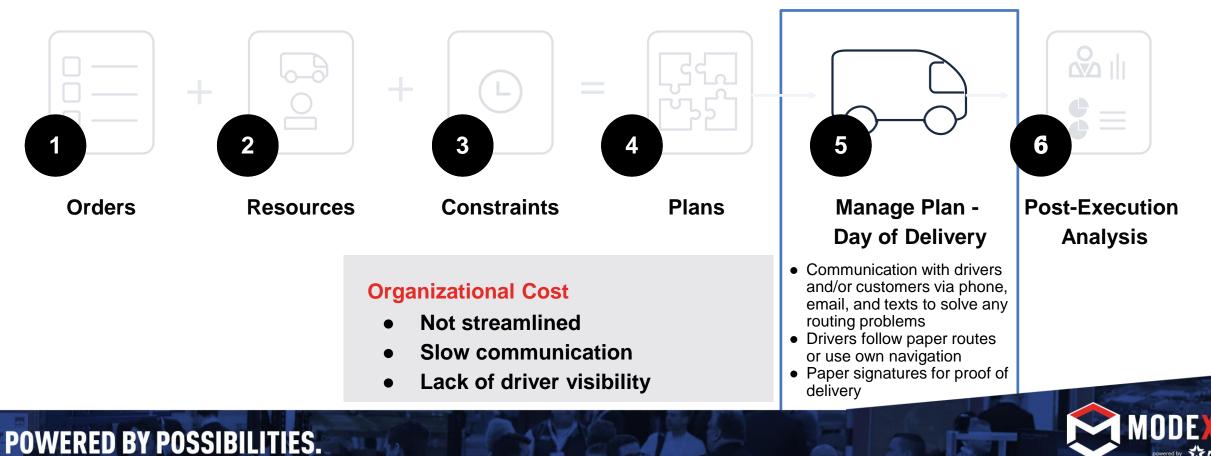
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What's involved?



The process

What's involved?



The process

What's involved?



Manual Routing | Limitations, Costs & Benefits

- Reliability and on-time performance
- Dependent on expert router, very familiar with the industry/market
- Relies on one or more people (organizational risk)
- Inefficient use of resources
- Difficult to measure success



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Various Approaches to Routing

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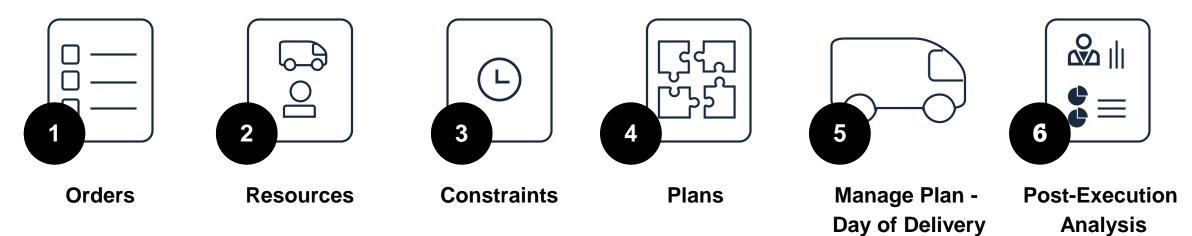
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Legacy Routing Software

On-premise software that has been in use for 15-20 years.

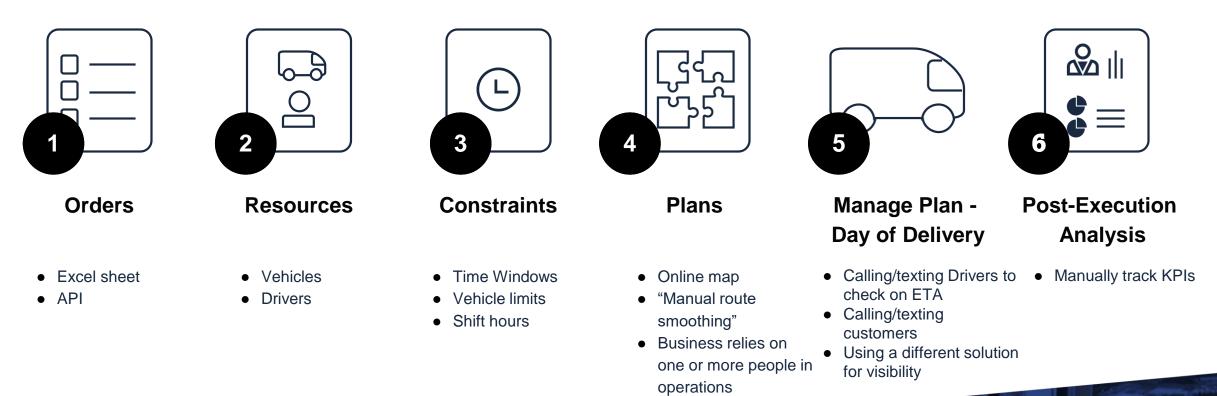
What's involved?





On-premise software that has been in use for 15-20 years.

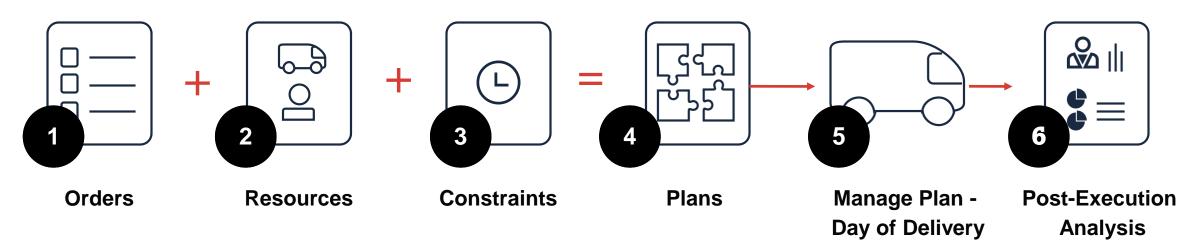
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The process

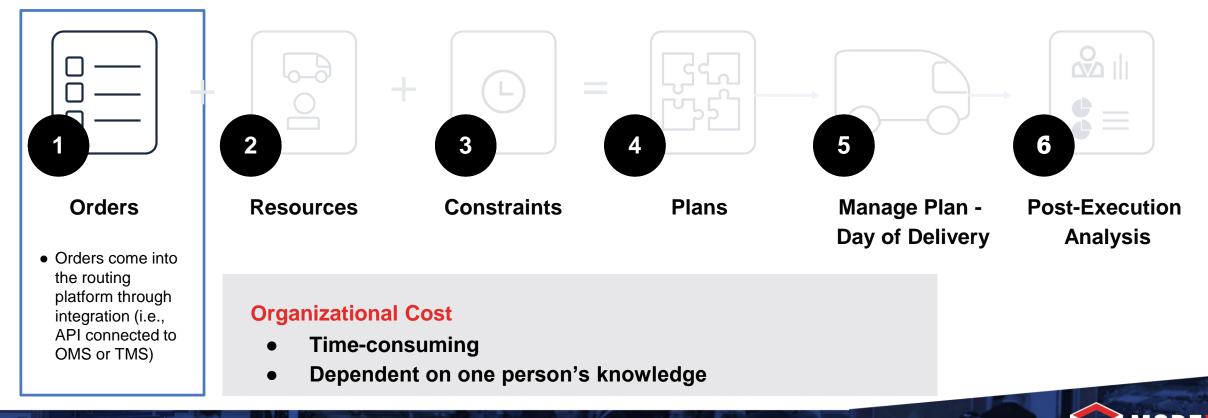
What's involved?



Common in the industry Outdated Not streamlined Lack of innovation

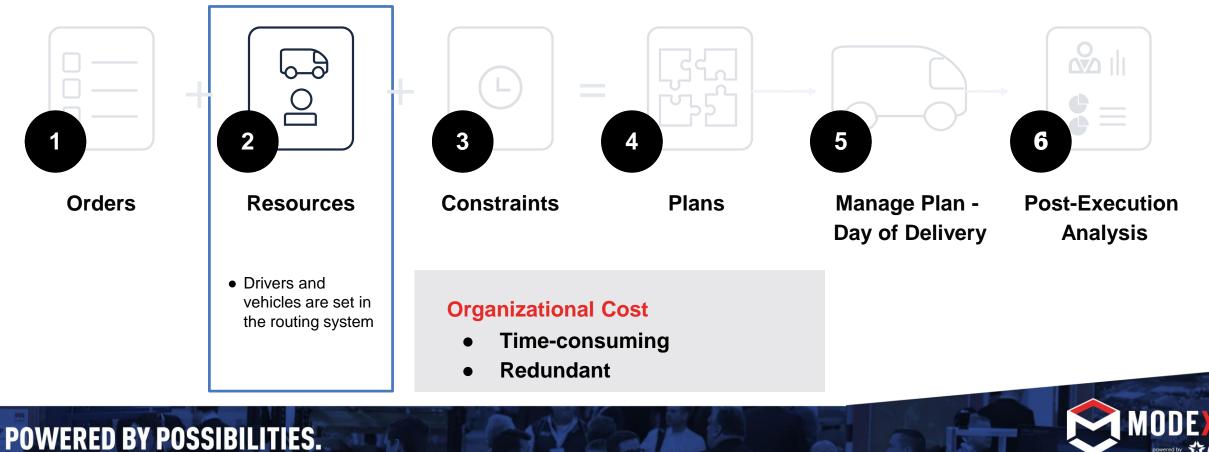
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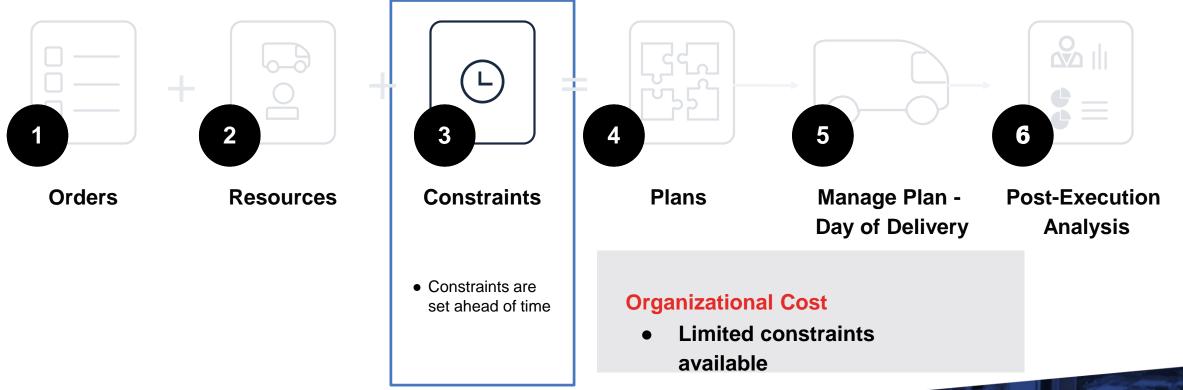
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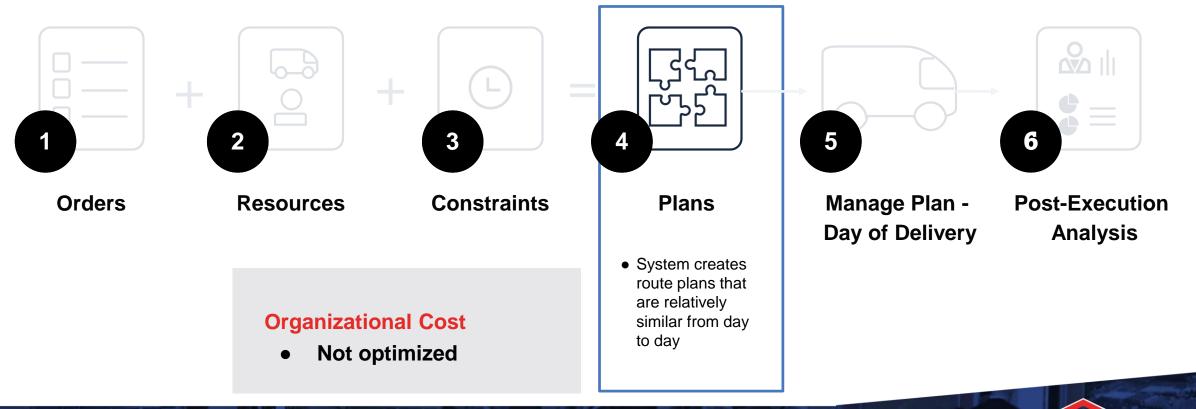
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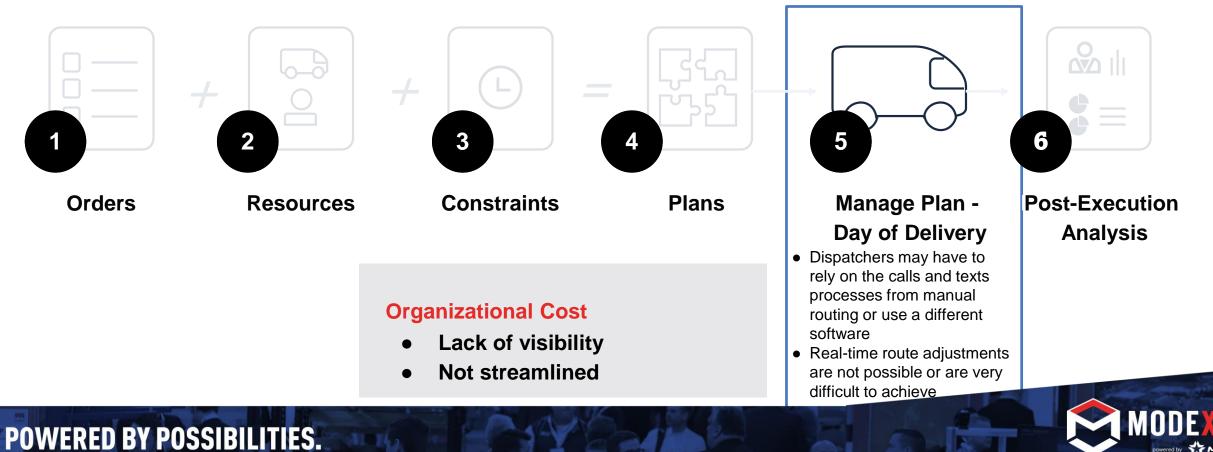
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What's involved?



Legacy Routing | Limitations, Costs & Benefits

- Known process
- Little automation
- Multiple tools
- Not cloud-first
- ⊙ Not real-time
- Outdated user experience
- No continuous improvement



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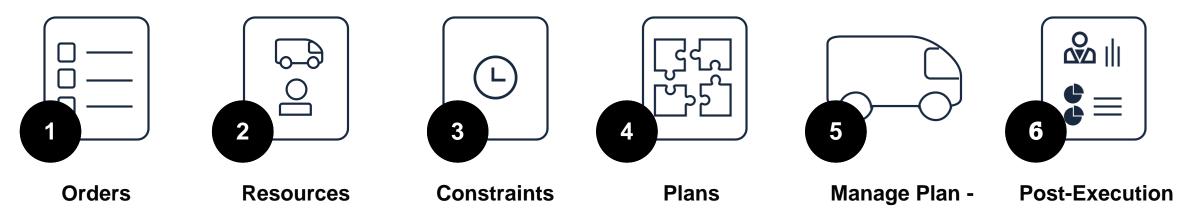
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Automatically builds route plans to maximize customer service and efficiency using machine learning algorithms to continuously improve fleet performance over time.

What's involved?



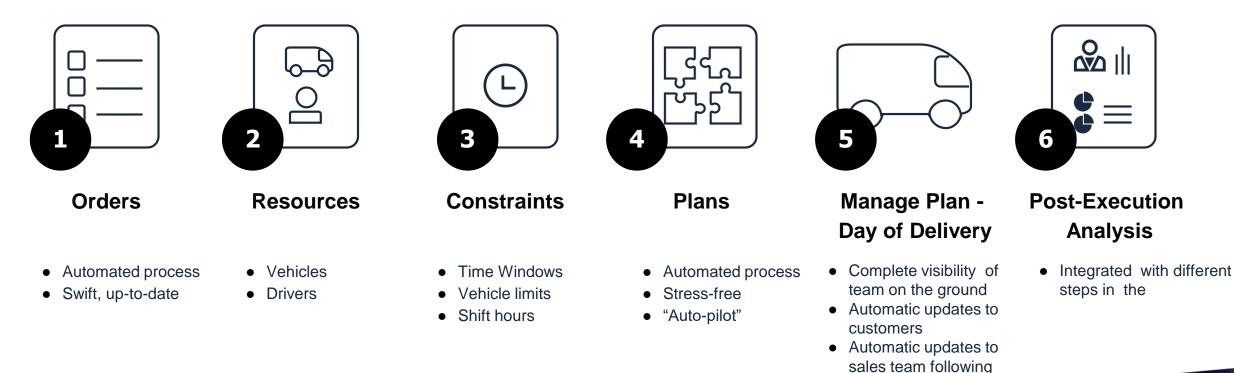
Day of Delivery

Analysis

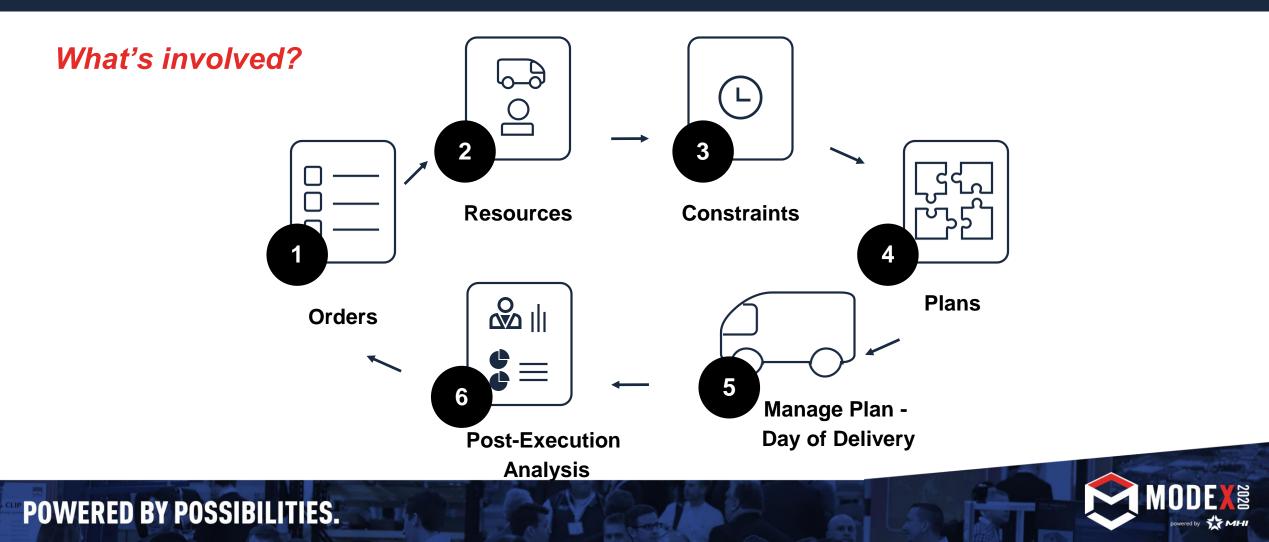


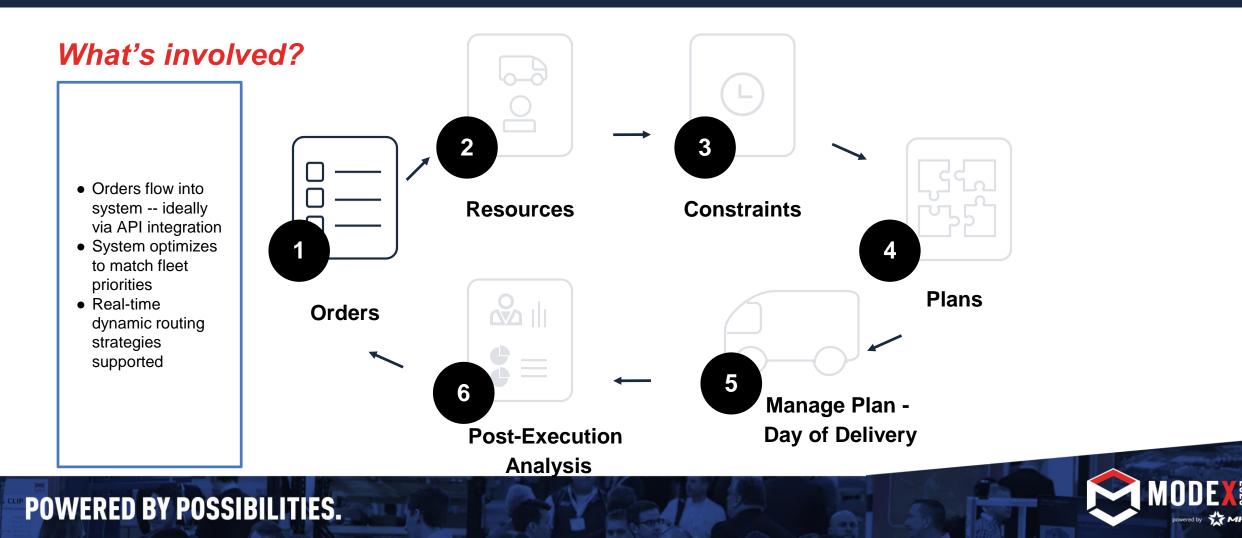
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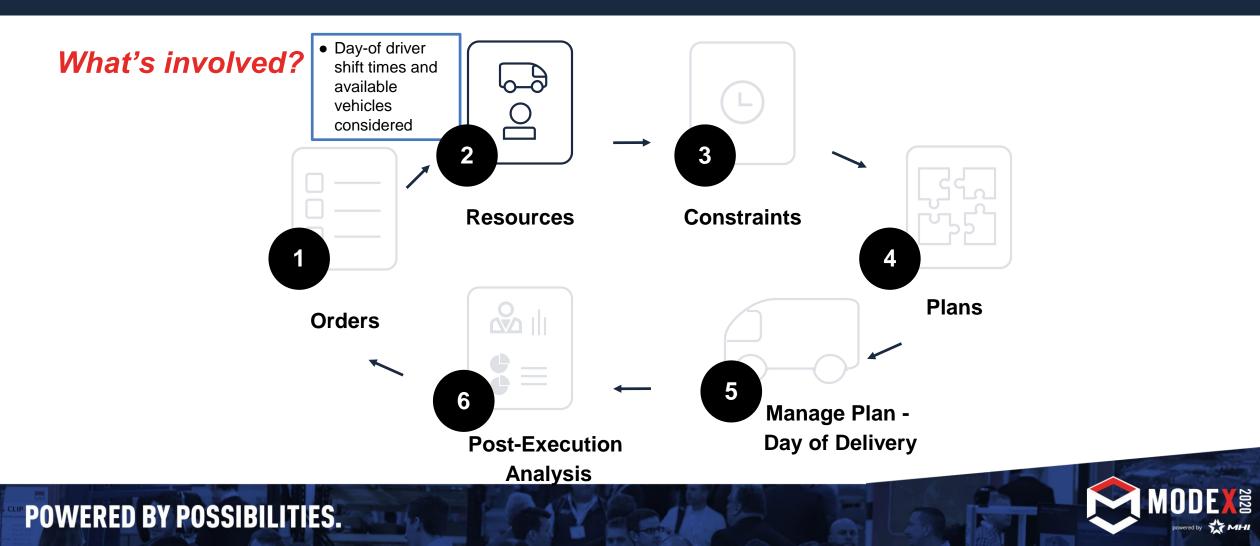
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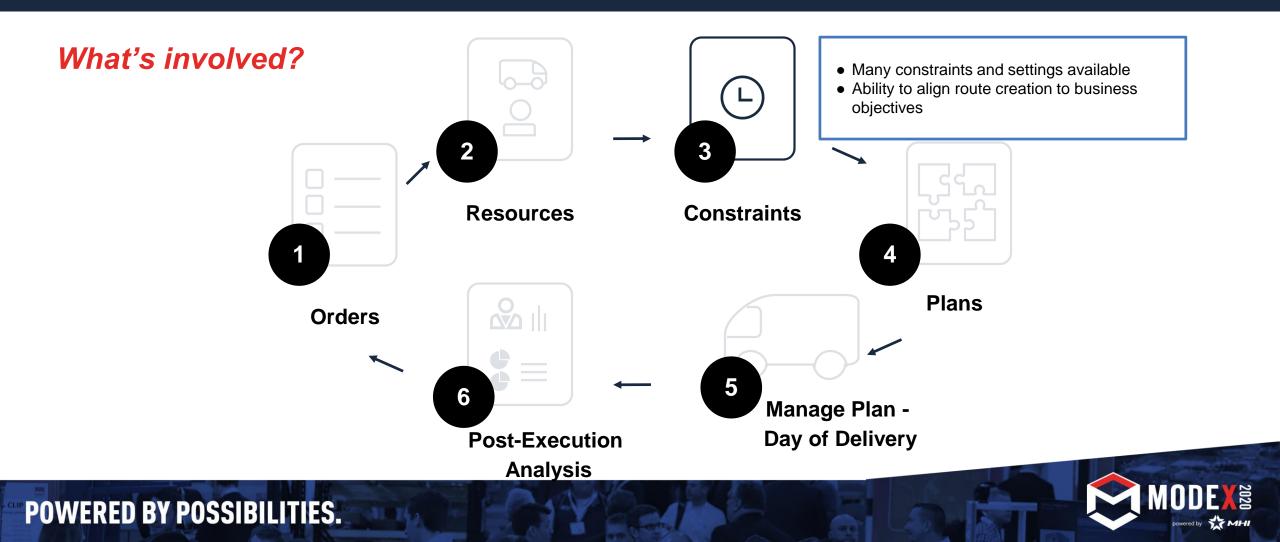


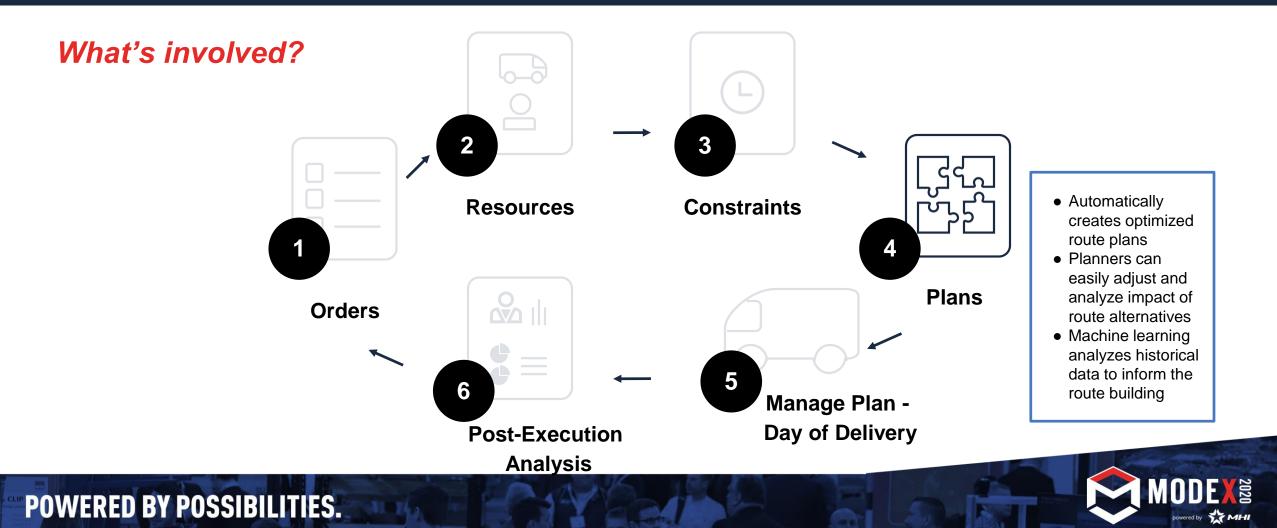
orders

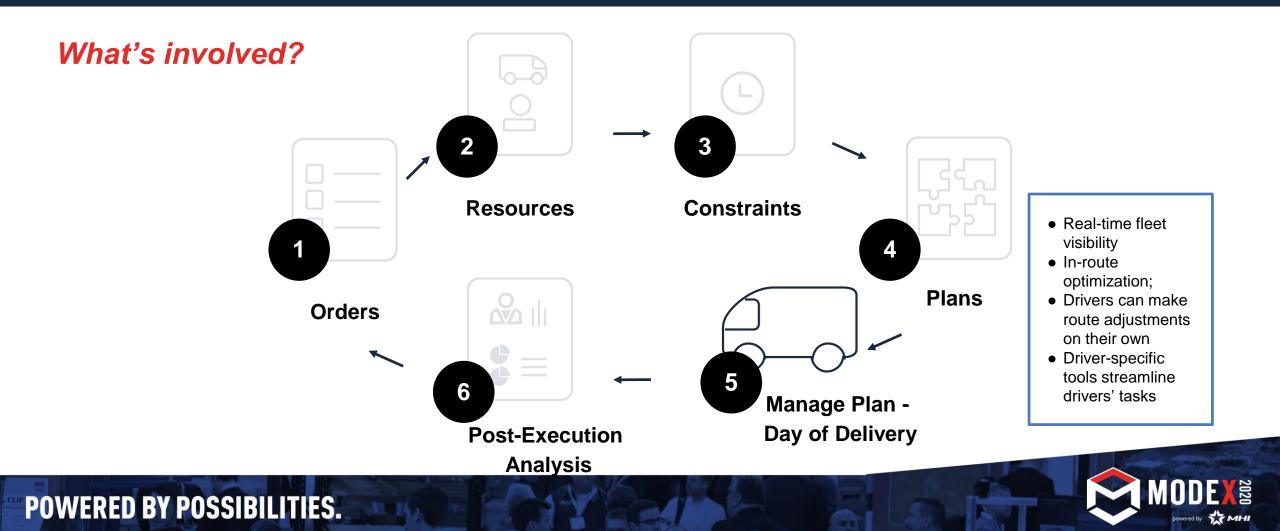


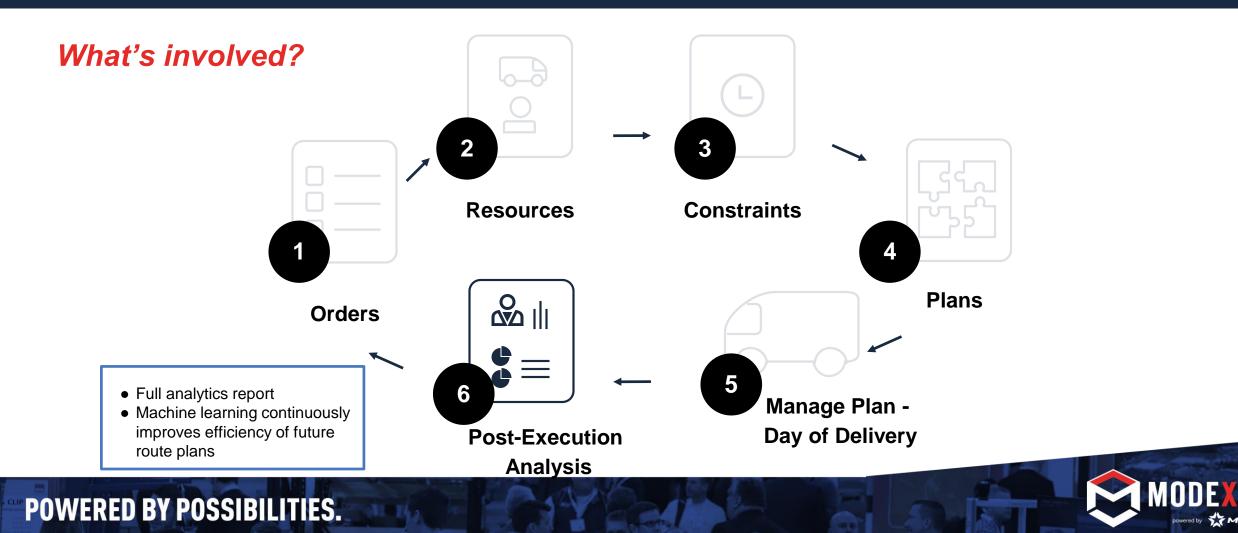


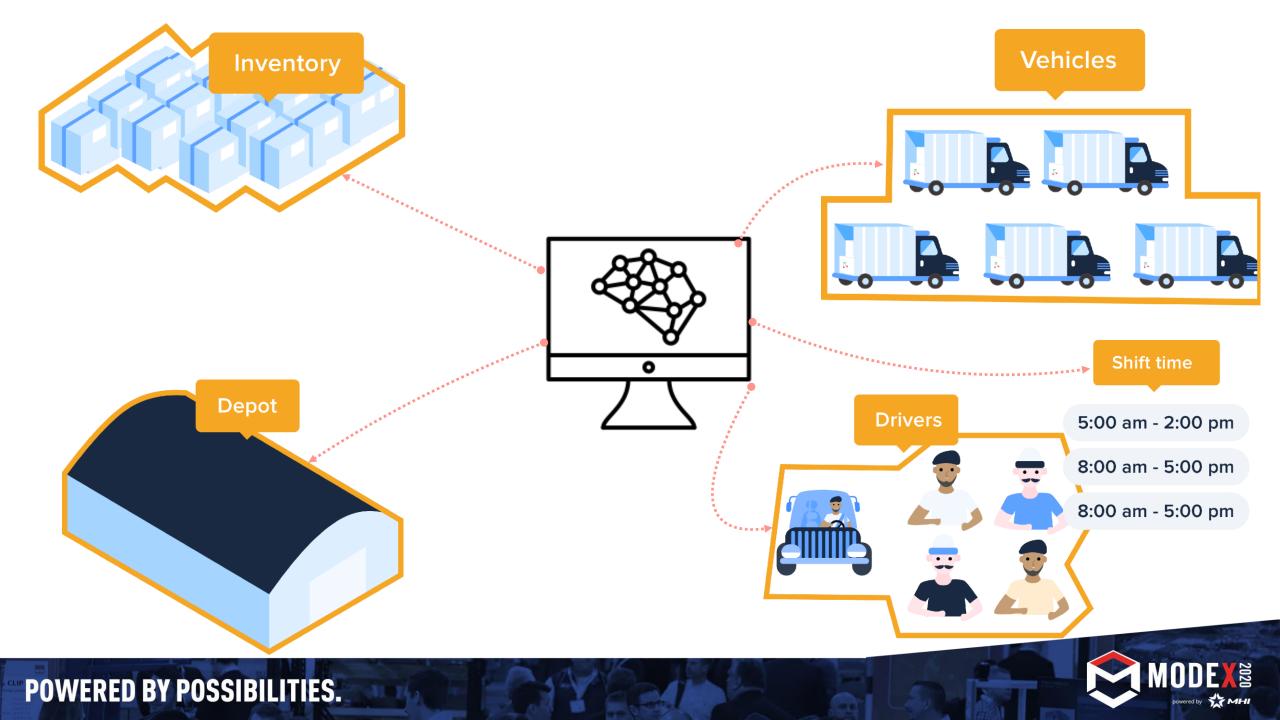






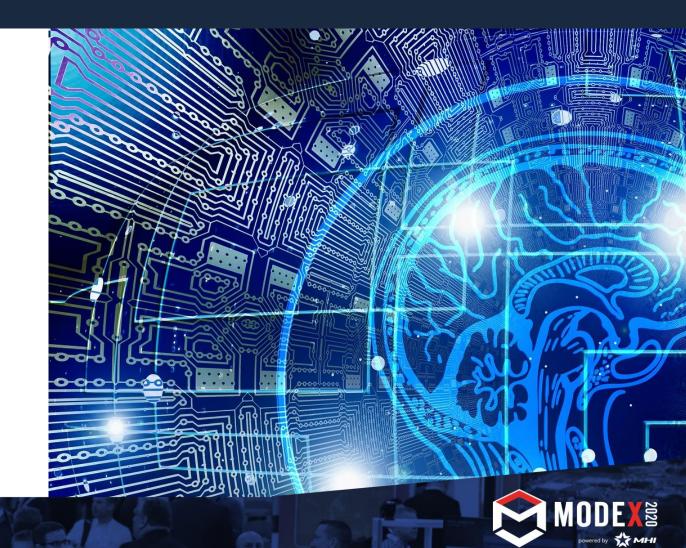






Next-Gen Routing | Limitations, Costs & Benefits

- Fully automated all-in-one platform
- Optimized, efficient routing
- Real-time dynamic routing
- Supports on-demand operations
- Continuous improvement through machine learning



An In-Depth Look: Next-Gen Routing Software

Next-generation routing features are no longer 'nice to haves' -- they are essential:

Cloud-based architecture

Machine learning/Al

Advanced automation & Dynamic

solutions

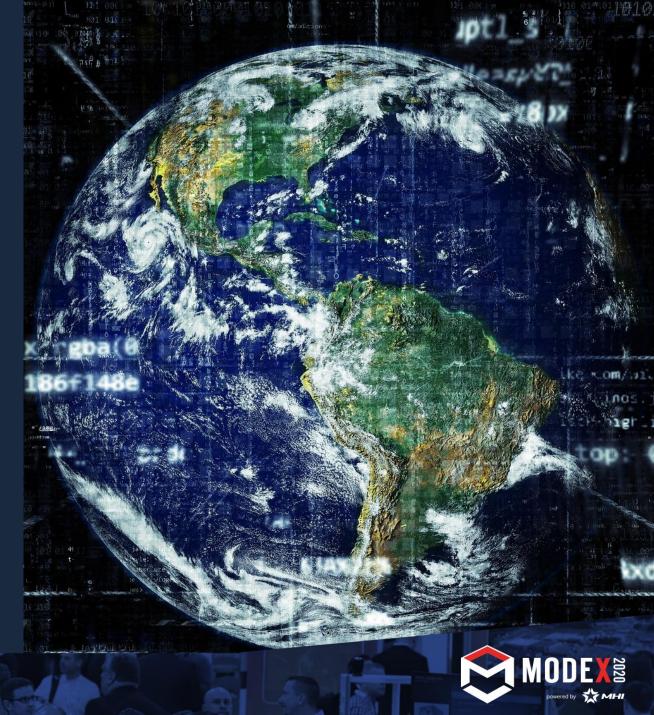
Real-time visibility

Friendly UX & streamlined mobile experience



Cloud-Based Architecture

- Ensures continuous availability and automatic updates
- Supports dynamic fleet management and app-based driver tools
- Enables in-route optimization
- Offers real-time visibility



Machine Learning/AI

- Automate data collection
- Predict accurate service times
- Build routes that better match the day of delivery
- Understand drivers' preferred routes and sequences
- Create routes that are more efficient and better suited for drivers



Advanced Automation & Dynamic Solutions

Autonomous Dispatch & On-Demand

- Automatically dispatch to the optimal drivers in the most efficient slots in their route sequences
- Eliminate manual route edits for dispatchers and drivers
- Dramatically reduce the time from order to delivery



Advanced Automation & Dynamic Solutions

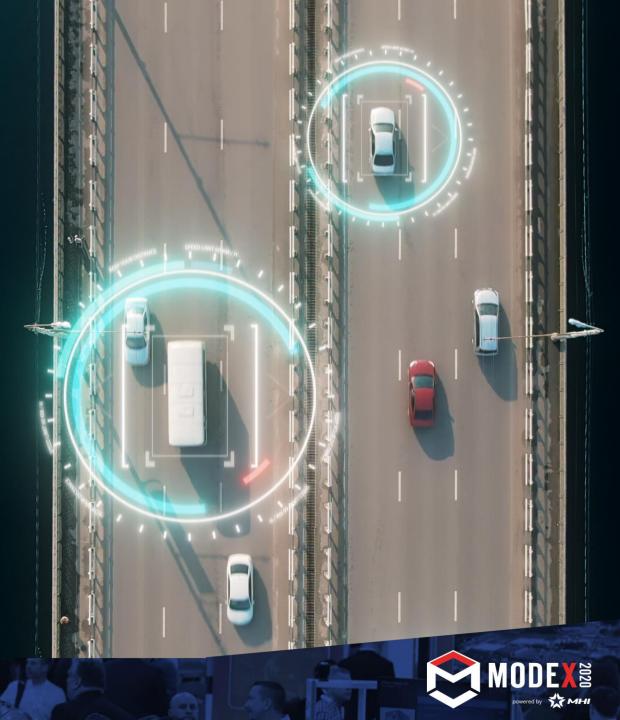
Real-time Dynamic Optimization

- Automatically update a driver's sequence if the algorithms identify potential route issues
- Prevent late deliveries via automatic re-routing
- Manage on-demand orders
- Avoid day-of delivery route problems



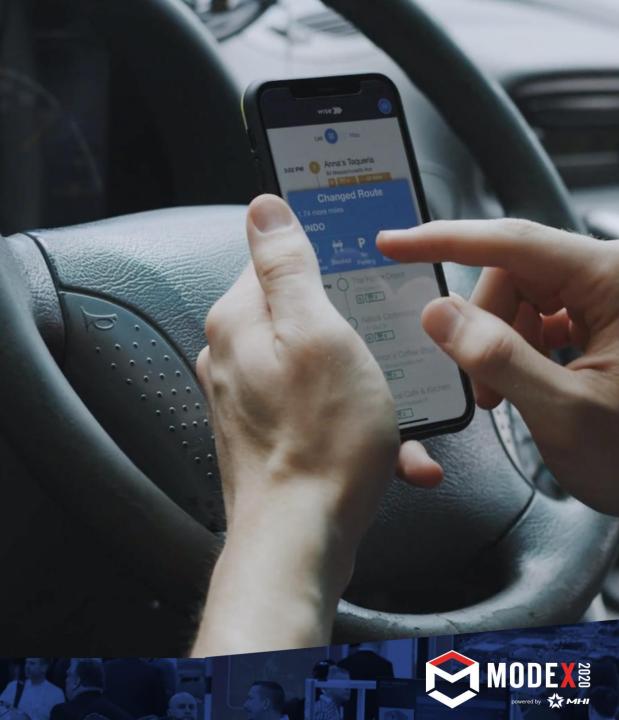
Real-time Visibility

- Full visibility for ultimate efficiency
- All details of drivers' progress including any schedule changes, without wasting time calling or waiting for them to arrive



Friendly User Experience & Streamlined Mobile Experience

- Easy-to-use, modern experience
- Driver training
- Driver retention
- Streamlines dispatchers' and drivers' interactions with the software.
- Gives delivery recipients simple, clear delivery notifications, telling them when their driver will arrive and other key details of their order.
- Reduces the risk that a company's distribution operation is only controlled by one or two expert dispatchers.



Let's recap



Manual/Legacy Routing

- Manual, lots of guesswork
- Call drivers with changes
- No idea how your team is performing during the day
- Looking for ways to increase inefficiency

Next-Gen Routing

- Automated
- Faster route planning
- Dispatch in real-time
- Stay connected via GPS tracking & collect proof of delivery to stay up-to-date
- Conserve fuel, reduce mileage on vehicles



Routing Success

- High-quality customer service
- Business growth & flexibility
- Maximum efficiency
- Fleet utilization more orders, same resources, less vehicles
- On-time customer arrivals
- Visibility -- knowing where drivers are & order status







THANK YOU

For more information:

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Or visit MODEX Booth #6378

