



Agenda

- SCM Strategy at a glance
- Supply Chain Execution Platform
- SAP Transportation Management
- Selected Innovations
- Outlook

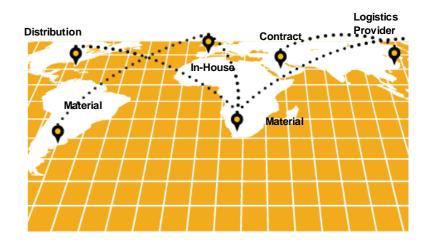


The stakes are high

Supply chains need to

- Be agile and responsive to changing customer expectations
- Quickly capitalize on trends with new products
- Enable entry to new markets
- Capture new customers before competition
- Maintain high customer loyalty

Supply chains have to be fundamentally faster to accommodate "the need for speed"



SAP Supply Chain Solution Vision

Enable Businesses to Transform their Supply Chains to Demand Networks



Supply Chain Monitoring

Ensure integrity and predict issues of the DEMAND NETWORK



Integrated Business Planning

Balance DEMAND plans with NETWORK constraints for profitability



Demand Driven Supply Networks

Sense & shape DEMAND and orchestrate the fulfillment NETWORK



Logistics & Order Fulfillment

The DEMAND NETWORK requires speed & efficiency in Logistics

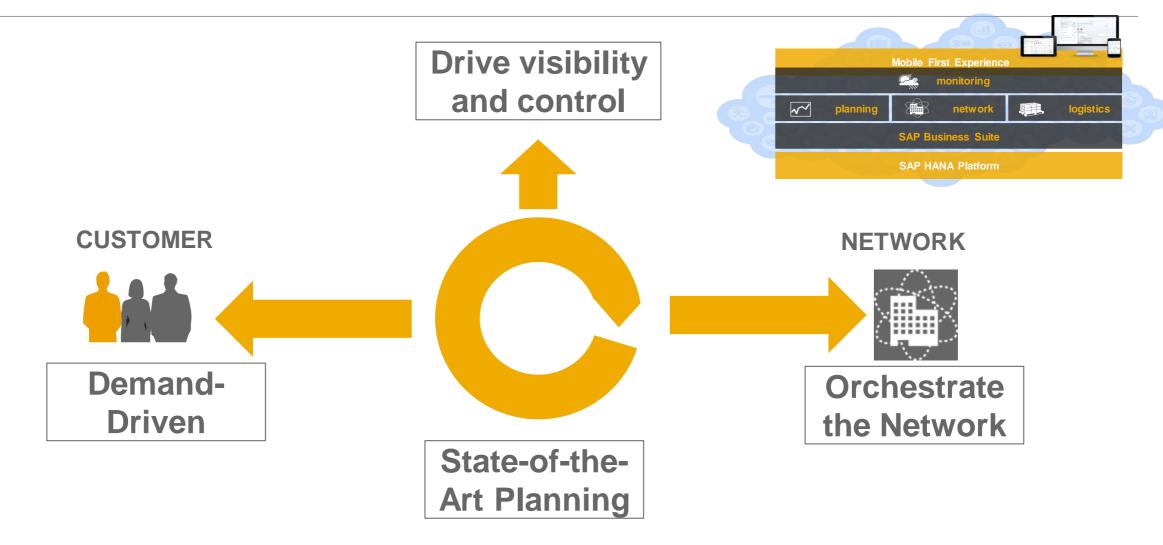
[THE DEMAND NETWORK]



Powered by SAP HANA

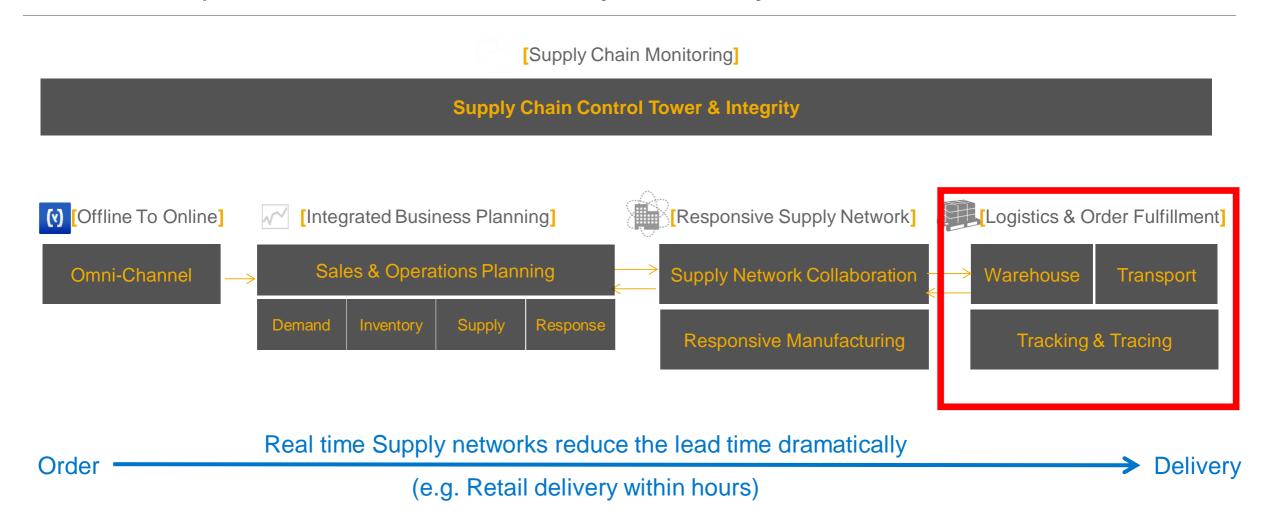
Key Strategic Moves in SAP SCM

30,000 Feet View



The Real Time Demand Driven Supply Networks

Accelerated process flow from order entry to delivery





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SAP Transportation Management History

A Long History of TRANSPORTATION Business, Process and IT EXPERTISE

1994

2001

2011

2013

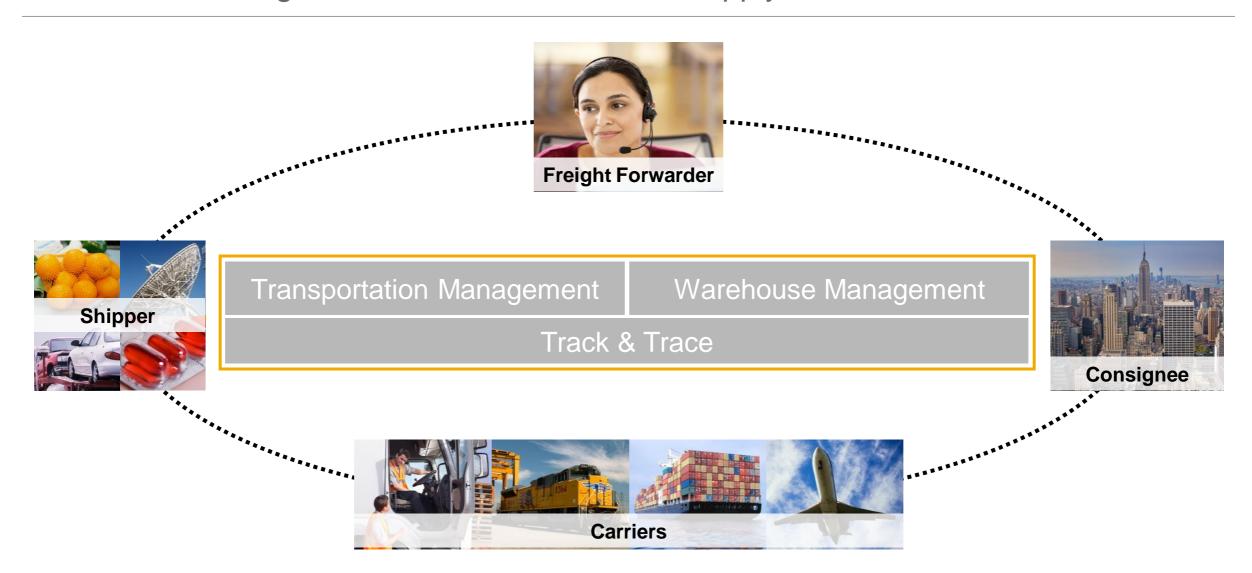
Shipment Execution (SAP ERP) **Shipping Planning & Optimization**(SAP APO)

Holistic Transportation Management (SAP TM)

Market-leading
Supply Chain
Execution
(SCE Platform)

New Generation Transportation Management

Best-in-class, integrated, connected, real-time Supply Chain Execution Platform



The New SAP Transportation Management Solution

A major, integral part of the Supply Chain Execution Platform



SUPPLY CHAIN EXECUTION PLATFORM

SAP TM

TRANSPORTATION MGMT.

Freight Order Management, Planning,

Execution & Settlement

SAP EWM

EXTENDED WAREHOUSE MGMT.

Warehouse Planning & Execution

SAP EM

EVENT MANAGEMENT

Transportation Execution Tracking & Event Management



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SAP TM Supports all Transportation Scenarios

A few examples...

Direct truck shipment

Truck networks

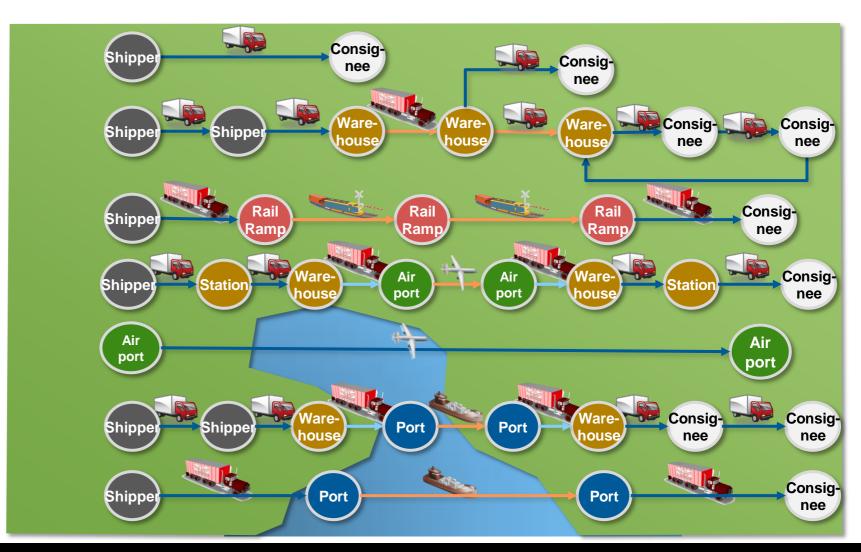
Multi-modal domestic shipment

Airfreight D2D

Airfreight shipment P2P

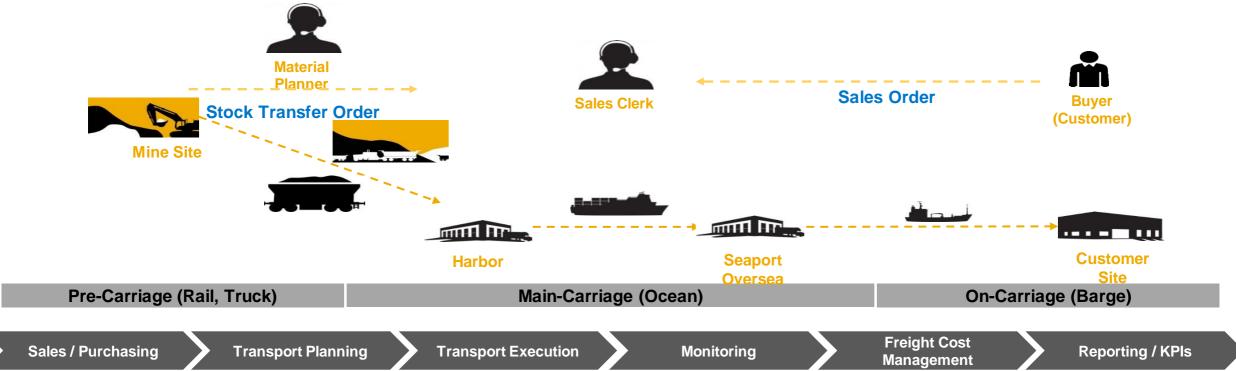
Ocean LCL shipment D2D

Ocean Bulk shipment D2D



Customer Scenario in Mining

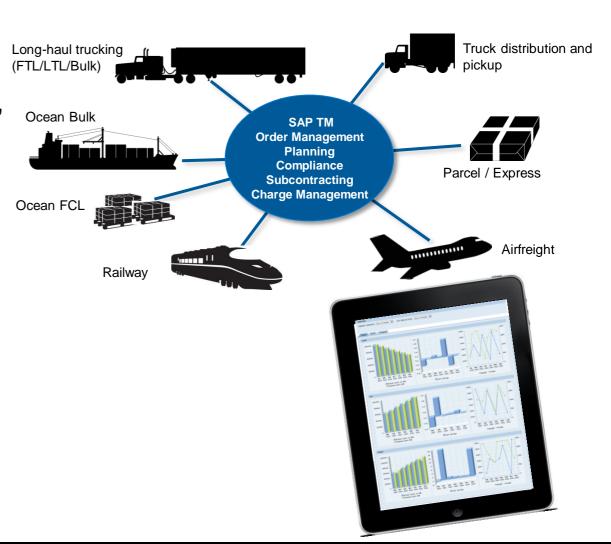
Transportation Outbound Process



_	Sales / Purchasing	Transport Planning	Transport Execution	Monitoring	Management	Reporting / KPIs
	Master Data	Transportation Proposal	Time Slot Mgt.	Inbound / Outbound	Tactical Tendering	Data Consolidation
	Dangerous Goods	Planning Main Carriage	Check-In	Event Handling	Charge Calculation	Data Preparation
	Sales / Purchase order	Planning Pre Carriage	Yard Activities	Workflow / Status	Agreements & Tariffs	KPI Reporting
	Customs / Taxes	Planning On Carriage	Check-Out	Monitoring	Cost Distribution	Transportation Cockpit
					Invoice Verification	

SAP Transportation Management

- Complete transportation management solution
- Interactive transportation and shipment planning, collaborative tendering
- Integrated logistics and fulfillment management, transportation execution visibility and monitoring
- Comprehensive freight cost management,
 Integrated freight and forwarding settlement



Deep, Native Integration with the SAP Business Suite

Out-of-the Box

Standard, preconfigured interfaces

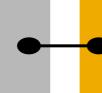
End-to-End

Comprehensive procure-to-pay & order-to-cash integration

Real-Time

Synchronized processes with document flow & life-cycle mgmt.

SAP
Business Suite



SAP Transportation Management



Lower TCO / TCI



Efficient Planning & Order Mgmt.



Accurate Visibility

Comprehensive SAP Business Suite Integration Coverage



Sales &



- Sales order scheduling / available-to-promise
- Sales, purchase, returns & stock transfer orders



Logistics Execution



- Delivery & shipment processing
- Warehouse planning & execution (EWM)



Environment Health & Safety Management



Compliant dangerous goods shipment



Global Trade Services



- International trade regulation compliance
- Customs export processing

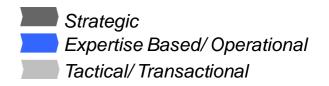


Financial Management



- Carrier invoice verific. & payment / self invoicing
- Sales order profitability & material valuation

SAP TM Overview



Transportation Sourcing

Transportation
Order
Management

Transportation
Planning &
Tendering

Transportation Execution & Visibility

Transportation
Charge
Management

- Conduct bids for rate and capacity on trade lanes for modes & carriers
- o Bid optimization
- Analyze & Forecast for better decisions
- One click contract creation

- Freight DemandCreation &Quotation
- AutomaticDemand creation
- Improve visibility via Document Flow
- o Ocean Booking

- TransportationPlanning
- Freight Tendering
- TransportationOptimization
- Carrier Selection & Assignment
- Vehicle Routing & Scheduling
- Multi-Mode Capability

- Print/send transportation documents
- Automated Carrier
 Collaboration
 Portal, Web UI, E Mail or Message
- Full Track and Trace Visibility

- Calculate charges
- Freight Invoicing: Customer/Supplier
- ERP FinancialsIntegration &Settlement
- Freight ContractsManagement
- Rate Sheets & Scale Tables Management



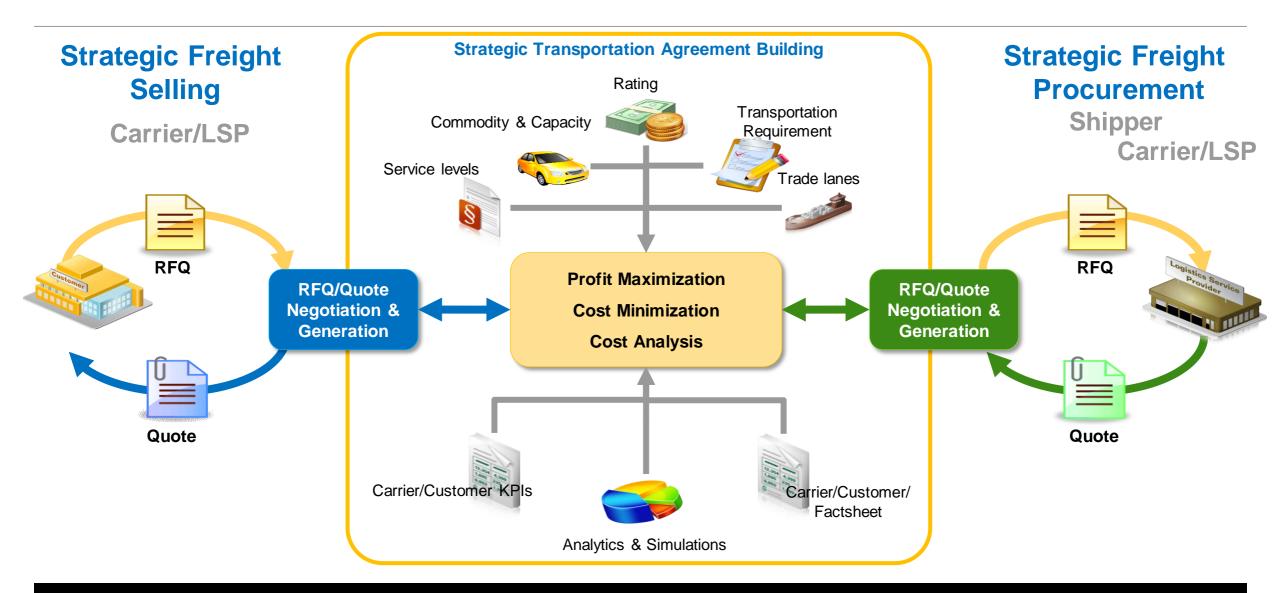
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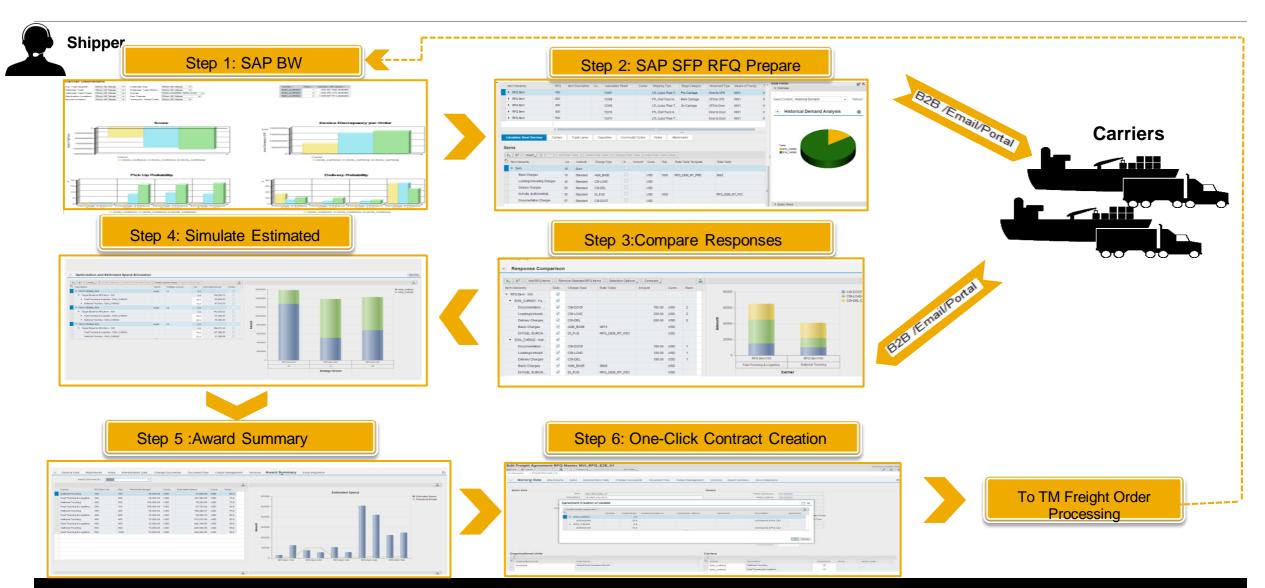
Strategic Freight Management
T&L Collaboration Portal
Load Optimization
GANTT Chart Planning
Analytics



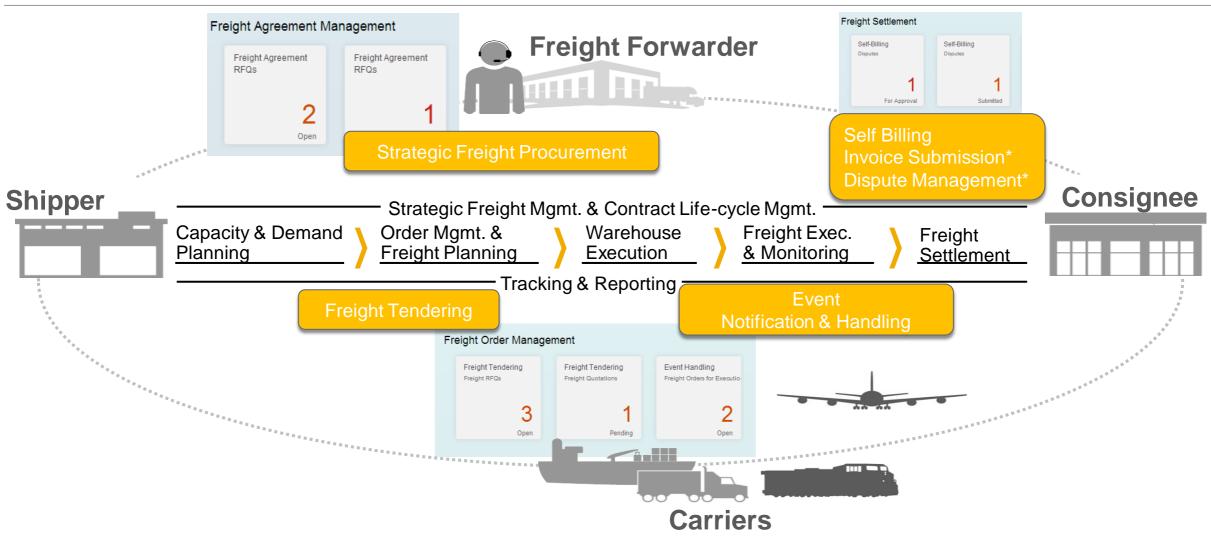
Strategic Freight Management



Freight Procurement Process



T&L Collaboration Portal



^{*} Roadmap topics for future release

Freight Quotations

Freight Order Management

Freight Tendering

As a carrier, you can view the freight requests for quotation (RFQs) that you have received from a shipper. You can also view the freight quotations that you have submitted to your shipper for a specific freight RFQ.

If you do not make any changes, you can accept one or more freight RFQs. If you make changes, you can accept just one freight RFQ. You can reject one or more freight RFQs and provide a rejection reason. You can also view details about the tendered freight order, such as item details, location information, and business partners.

More information

User Settings

Personalization in Freight Order Management

Freight Request for Quotation

Freight Quotation

Stop Sequence

Acceptance or Rejection of a Freight RFQ

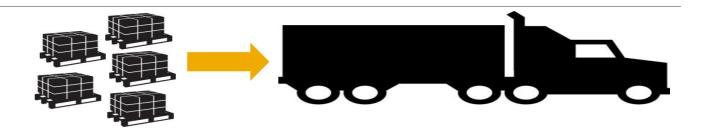
Requested Dates and Acceptable **Dates**

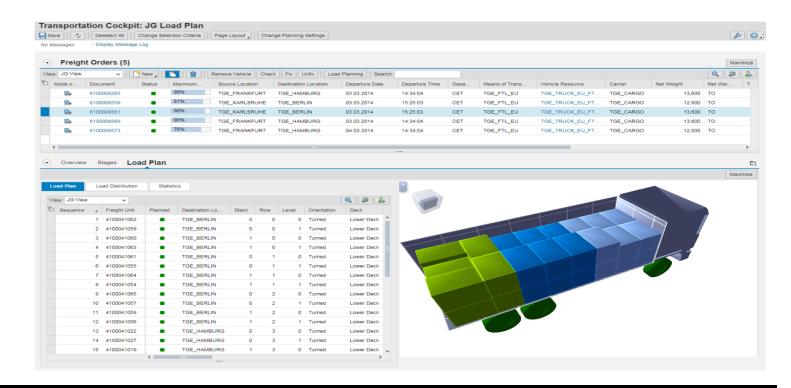
Number of Documents: 3

Last Refresh: Jul 30, 2014, 2:01:10 PM

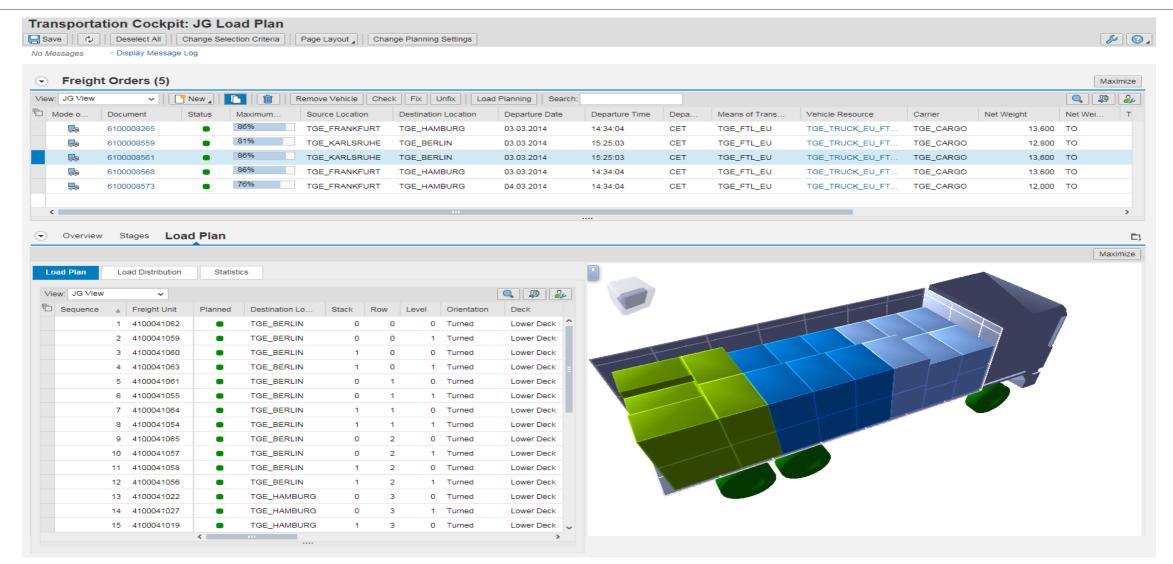
Load Optimization

- Loading pallets into trucks, trailers, containers
- Rules-based load optimization, considering:
 - **Dimensions**
 - Axle weight constraints
 - Stacking rules
 - LIFO loading
 - Etc.
- 3-d visualization of load plan





Example – Truck Last-In First-Out, Colored by Destination Location



Manual Planning with Gantt Charts

Visibility on usage and availability of your own fleet (trucks, trailers)

View the plan from time perspective in an intuitive graphical fashion

Interactive resource-based planning

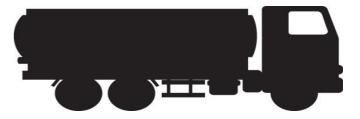
Drag and drop

Monitoring the execution of your transportation plan

Real-time planning in the cockpit

Adjust plan based on reported events







Manual Planning with Gantt Charts

Visibility, Usability & Flexibility

Visibility

Usage of trucks & trailers

Downtimes & nonworking times

Execution status & reported times for freight orders

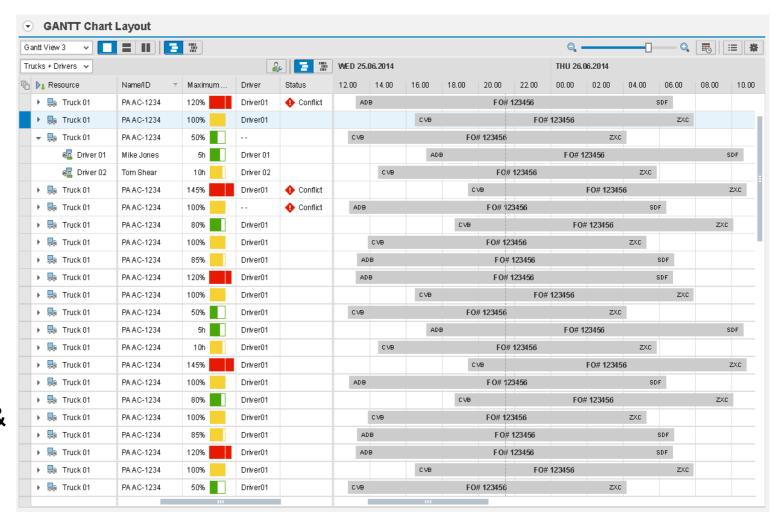
Notifications for overload, empty movements & time conflicts

Planning Scenarios

Truck planning (freight orders & truck resources)

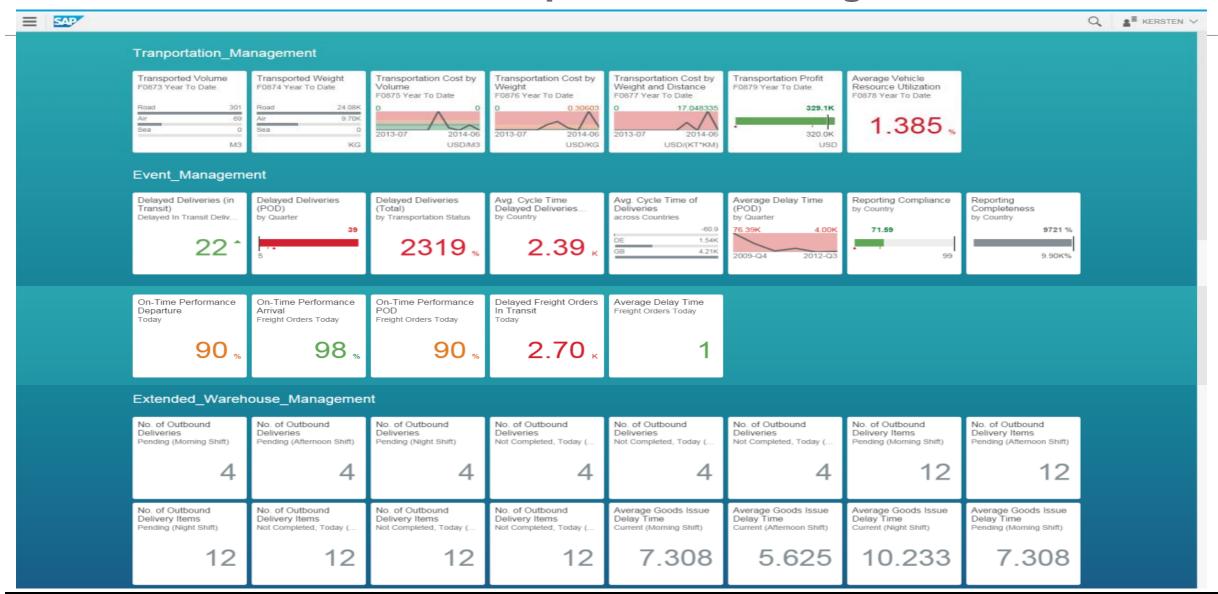
Truck & trailer planning (trailer units & trailer resources)

Re-planning based on events from execution



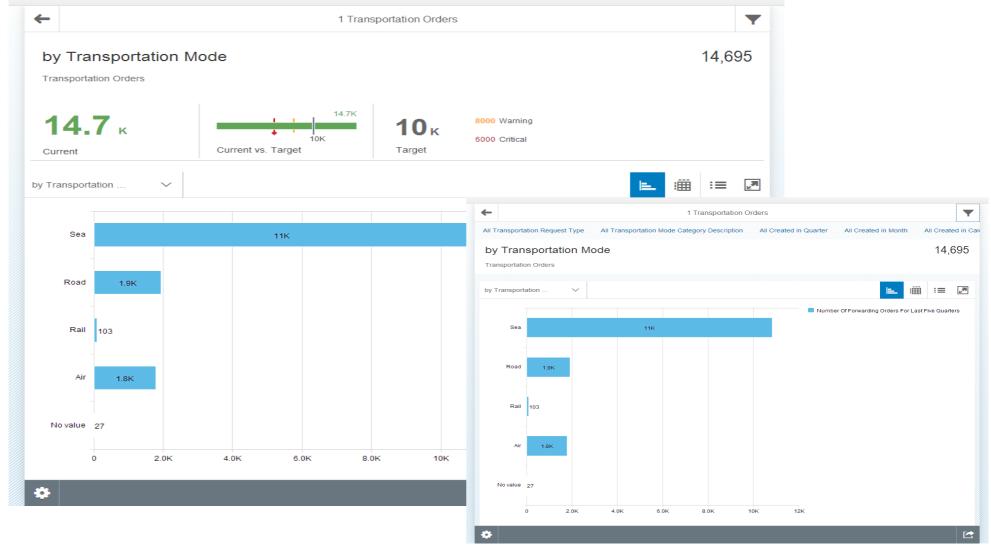
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SAP Smart Business for Transportation and Logistics Overview



Analytical FIORI Apps TM – Transportation Orders







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SAP TM high level roadmap

DRAFT - Subject to change

Release

9.1

2013

9.2

2014

9.3

2015

9.x

2016

9.y

2017

Rail **Shippers**

- O2C for rail carriers & Q2P for rail shippers
- Strategic freight management
- T&L collaboration portal
- Labor demand planning
- SCE platform on HANA

Truck for shippers

- Gantt chart planning
- **Empty Provisioning** & Triangulation
- Load optimization
- Invoice subission & match pay via portal

Logistics Service prov.

- Hub handling
- Ocean schedules handling
- Strategic freight management
 - Driver planning
- Round offs all modes
- Pallet building in load optimization
- Customs & security filing
- Embedded LSP

Ecommerce / **B2C/** retail

- Last mile delivery
- Milk run planning
- Mid term, planning.
- HANA profitability
- Carrier business network
- Mixed pallets
- BRIM integration
- Slot booking (DAS)

Supply chain convergence

- Bulk commodity enhancements (TM)
- Integrated SC Planning & Exec. e.g. forecasting
- Real-time strategic planning & simulation

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"SAP is the leading supplier of TMS. Their growth over the last year has been astonishing."*

Strong SAP Investment





SAP is #1 in TMS & WMS

#1 in the overall & software TMS market*

#1 in the software WMS market**

SAP is #1 in Market Growth***

26% YoY SCE market growth in 2012

2.7x faster than the market

2 x key peer vendors

^{*} Transportation Management Systems - Global Market Research Study 2013; ARC Report August, 2013

^{**} Warehouse Management Systems - Worldwide Outlook 2011-2016; ARC Report August, 2012

^{* * *} Market Share All Software Markets Worldwide, 2010-2012 - SCM Segmentation" - Gartner Report, Apr 2013





Thank you

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