

"Digital Logistics, Innovations and Policy recommendations"









EU Logistics Freight Transportation Growing challenges:Call for action

Growth rates exceeds Economy's growth (50% between 2000 and 2020)

Predicted in some EU countries that goods transportation could double by 2050

Logistics costs at up to 12% of final costs in manufacturing and 20% in Retail

Congestion costs up to 1.5% of GDP. Increasing trend.

Congestion leads as well to pollution and GHG

Efficiency of freight logistics impacts product prices and security of supply chain

Transportation growth leading to more fuel import (31% of total EU Energy consumption)

Urgent need for an action plan focusing on:

- Innovation, simplification and quality,
- Green transport corridors / TEN-T
- Updating of the regulatory framework
- Next generation of Logistics : Real Time Digital Logistics

The Current Logistics Market Reality: Business wise



Customers

- Rising expectations regarding service quality, price, convenience, transparency, and speed
- Increasing importance of ecommerce and B2C business
- Choice of flexible delivery options and interaction via multiple channels
- Increasing awareness of ethical and sustainable business practices (social, ecological/green)



Globalization

- Promising opportunities to grow in emerging markets
- Need for resilient supply chains to proactively mitigate risks
- Global regulatory compliance (cargo security, customs)
- Manage cross-border ecommerce (customs, duties, taxes)



Digitization

- Need for technology to gain insights and ensure better decision support in realtime
- Desire to gain customer intimacy by having a detailed, 360-degree view across all touch points
- Leverage technology as a source for innovative business models
- Threat from new competitors

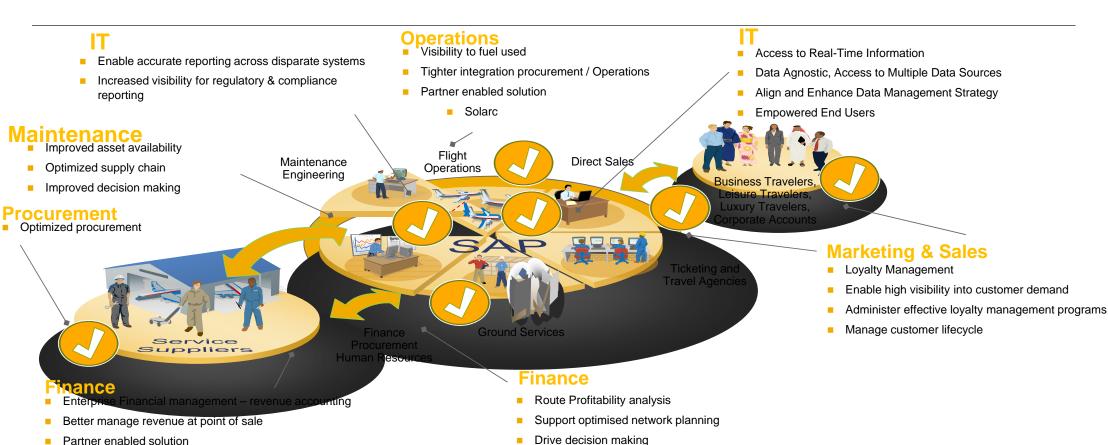


Profitable Growth

- Drive standardization of product portfolio on a global platform
- Increase process harmonization and automation to drive efficiencies
- Provide granular view into performance and profitability across all lines of business
- Bring new products and services to market quickly

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The Fact: Logistics Business Network operates as one

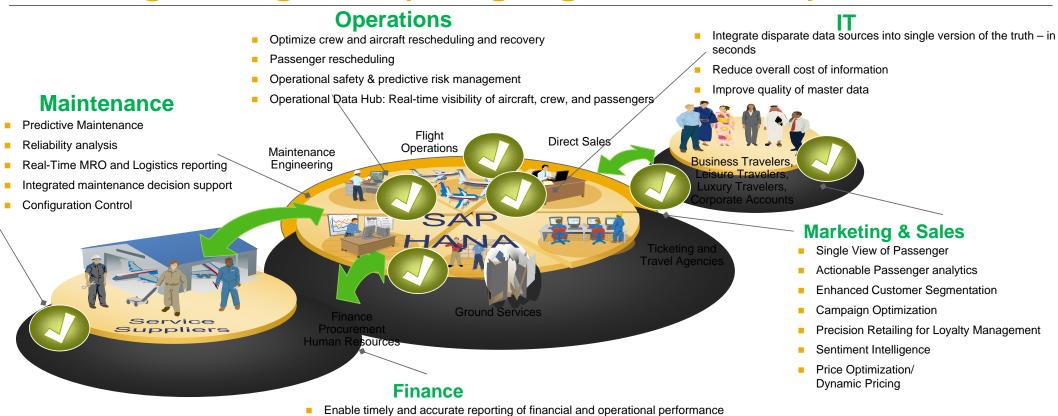


Predicting AND Preparing for Change is the new Opportunity

Proactive modelling & decision support

Sirax Revenue Accounting (Lufthansa Systems)

The Solution: Business Network needs to operate in Real-Time Digital Logistics (using Big Data / HANA)



Real-Time Business Network on SAP HANA

Faster route profitability analysis

Surveys show that Insight, Business Intelligence, Predictive Analytics, Big Data and Real Time are a must have in Logistics





Through 2015, organizations integrating high-value, diverse, new information types and sources into a coherent information management infrastructure will outperform their industry peers financially by more than 20%1



48%

Of organizations foresee a need for predictive modeling and optimization techniques based on Big Data analysis²



Of decision makers think access to the right information at the right time is critical to their business2

¹Gartner, "Hype Cycle for Information Infrastructure, 2012," Michael Blechar, July 31, 2012, ²SAP performance benchmarking

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Transportation & Logistics : Digital Logistics can provide innovative unique services in Real Time !! 23 examples

Airlines/ Passengers

- 'Day of Ops' for Passenger Recovery
- Predictive Risk & SafetyManagement
- Single View of Passenger
- Sentiment Analysis
- CustomerSegmentation
- Price sensitivity and optimization to adjust fares

Hospitality

- Revenue/Yield Management
- Real-Time Booking for Tour Operators
- Bigpoint: Player Behavior and Real-Time-Offer management in gaming
- Dynamic Booking and Service Offering for Hotels

LSP/FF/Route

- Smart Fleet
 Analytics to
 analyze mobile/
 sensor data
 obtained from
 vehicles
- Customer Operational reporting
- NRI: Traffic management of Taxis in Tokyo using GPS signals
- Predictive Fleet Maintenance

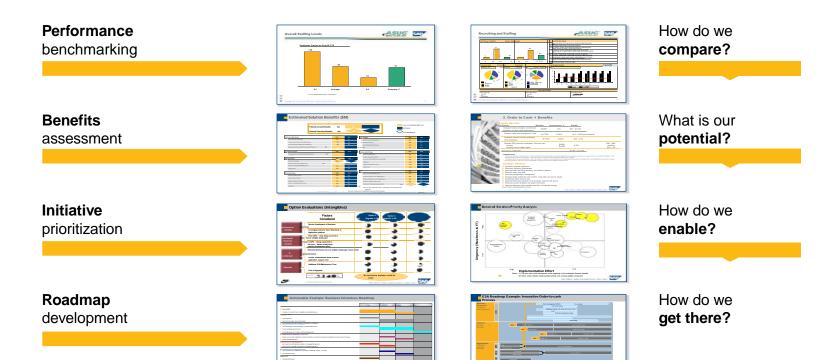
Rail

- Analysis of crane pulls/ movements at terminals
- Analysis of Load Factor/ Cargo Mix
- Spare Parts Optimization
- Accelerate
 Financial Close
- Predictive Maintenance/ Safety

Ocean Liners

- Yield/Network
 Optimization to
 allocate cargo on
 itineraries
- Empty Container Repositioning
- Operational Planning including Inland feeder network
- Maritime Location Intelligence (Anomaly Detection)

Benchmarking, KPIs and Benefits of Digital Logistics



SAP and Imperial Logistics proprietary and confidential | 31

Performance Benchmarking Database is available: we collected the largested number of KPI data on the market

SCALE



15,000+
PARTICIPANTS

4,000+ companies Global: 60% of participants outside of U.S. CONTENT



50+BUSINESS
PROCESS
ASSESMENTS

3,000+ KPIs/ best practices **PLATFORM**



on-Demand ANALYTICS

With flexible peer group assessments
Online self-service survey completion

Benchmarking highlights high-impact strategies that can be enabled by Logistics innovations

Integrate and automate the logistics freight transportation through a single and real time platform



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Some examples of Value KPI benefits measured by our Benchmarks in Transportation Logistics



10% decrease in cost of goods transported



75% increase in planned transportation orders



50% reduction in distribution branches through cost-effective transportation



Increased productivity and quality with central rate and charge management

Solution Capabilities

Planning and Execution

- Assign predefined or optimize network routings and bookings to shipments through the routing engine or use adhoc bookings through tendering.
- Optimize the capacity automatically or manually across all transportation legs to increase margin

Contracts and Charge Calculation

 Integrate your quotations or contracts (customer, carrier or internal) and use them to automatically calculate charges

Settlement of Charges

 Use TM integrated with world-leading ERP financials for forwarding order and freight order settlement

Improve Customer Service

 Provide excellent customer service with extended shipment status visibility and manage potential or actual incidents

Event Management - Track & Trace

 Proactively monitor and manage all routings and shipments.

Benefits

- Superior internal and external customer satisfaction levels by delivering the "perfect order"
- Reduced overall transportation spend
- Reduce processing cost per shipment
- Improved user experience using a modern, configurable technology

Conclusion

KEY MESSAGE

- Critical factors and challenges can be overcome by the power of Digital Logistics innovations
- · We can do real time predictions, analysis and monitoring of Logistics flows the we never thought is feasible
- Big Data, In-Memory technology (HANA) and Real Time Predictive Analytics through 50+ new real time services
- · Logistics can become collaborative, adaptive, Green, Intelligent and Transparent empowered by Digital & Big Data

Critical Factors and Challenges

Continued Urbanization

Increased customer demand

Continued fragmentation across transport modes

Limited energy resources

Environmental prioritization

Europe's competitive and innovative edge



Digital Logistics innovative Solutions

Collaborative Supply Chain Logistics

Adaptive Logistics

Green & Sustainable Logistics

Intelligent Logistics

Interoperable & Roaming Logistics

Transparent Logistics







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