



NATIVE INSTRUMENTS

***AUTOMATION OF AN
INTER-COMPANY SUPPLY CHAIN
WITH ORACLE PRODUCTS***

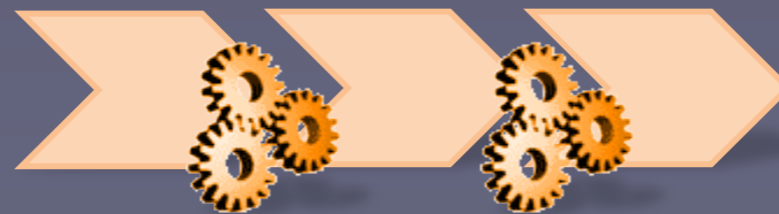
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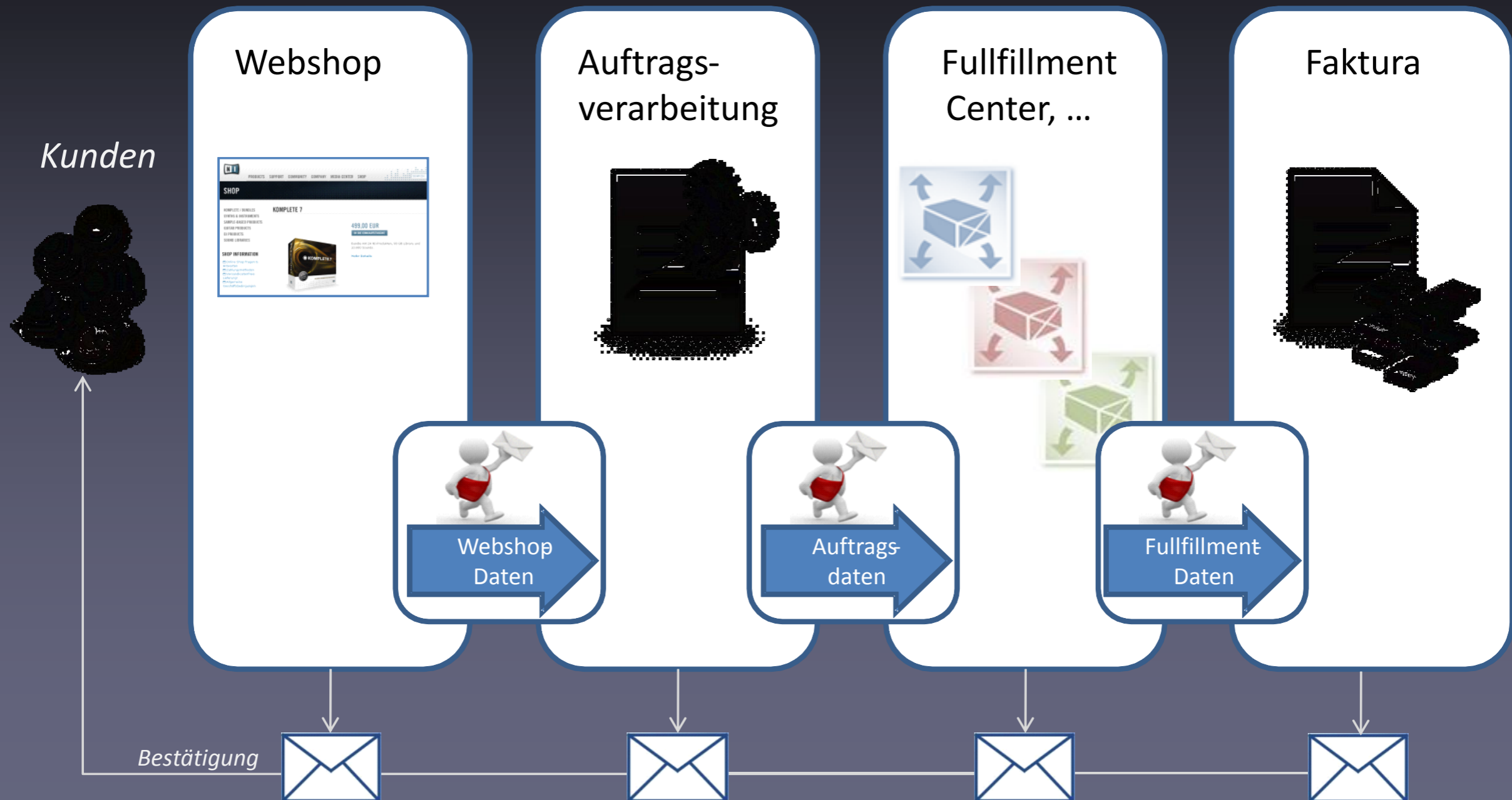
Agenda

- ▶ Today's challenge for a Supply Chain
- ▶ Reasons for an automated Supply Chain
- ▶ Implementation of an automated Supply Chain by Native Instruments
- ▶ Targets
- ▶ Technical Infrastructure
- ▶ Issues und problems



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TODAYS CHALLENGE FOR SC



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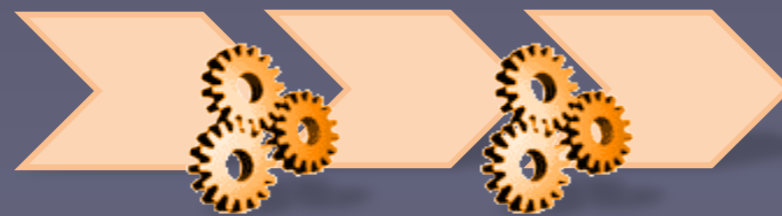
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TODAYS CHALLENGE FOR SC

- ▶ Integration of customers into the SC
- ▶ Integration of suppliers and service partners
- ▶ Visibility of the SC
- ▶ Transparency in the SC



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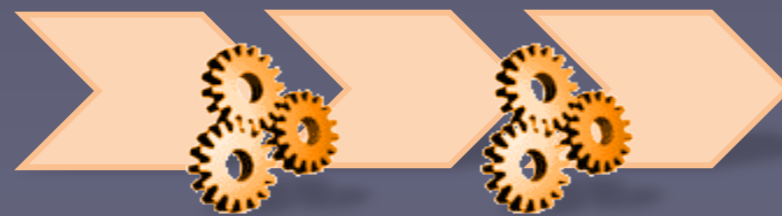
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REASONS FOR AUTOMATIC SC

- ▶ Fast market presence and transparency in the SC
- ▶ Removal of manual interfaces in SC process
- ▶ Reduction of process costs
- ▶ Flexibility
- ▶ Execution of larger order volume



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IMPLEMENTATION

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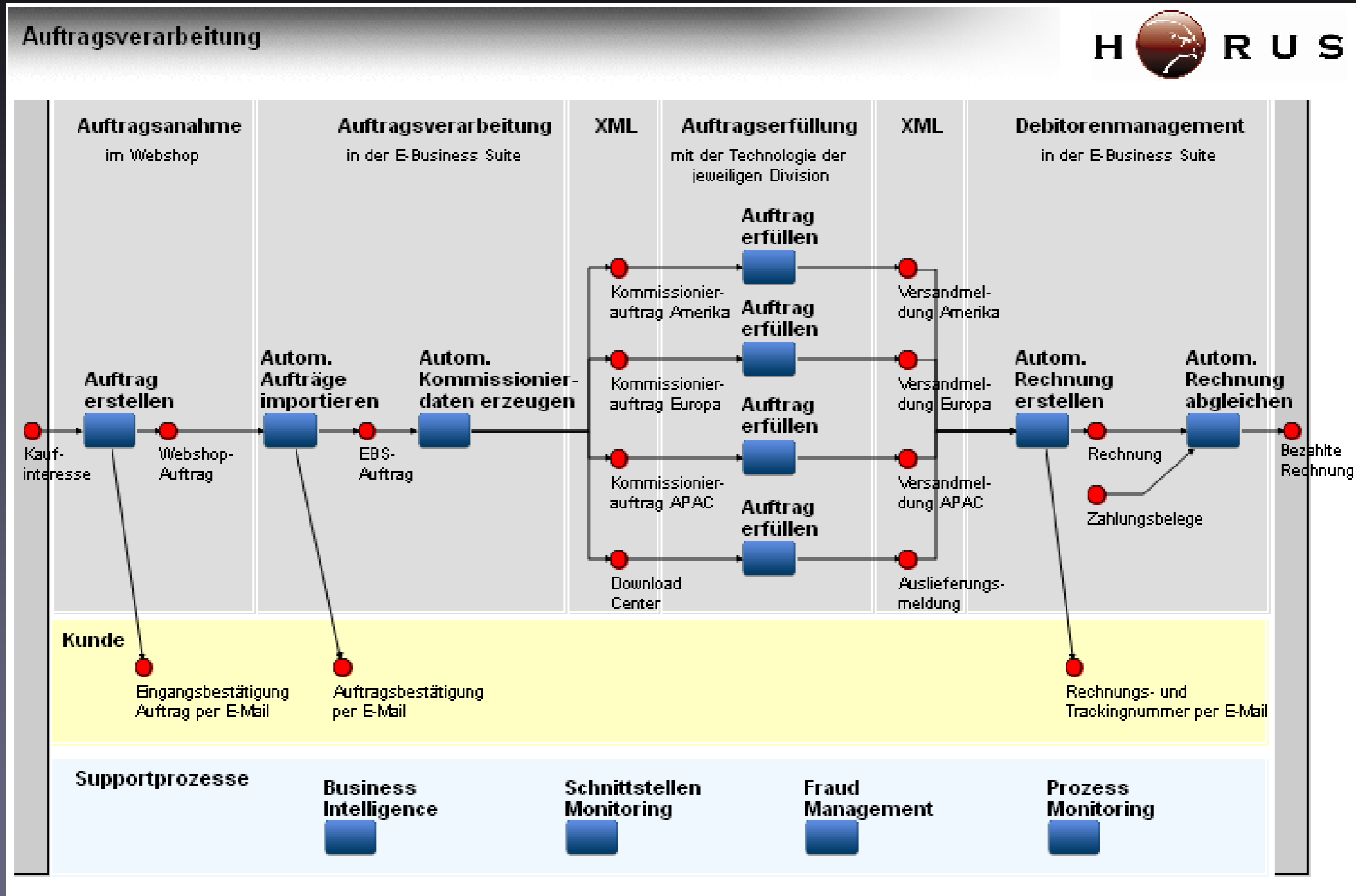
- ▶ Transparency
 - ▶ Enable operational personnel to quickly decide and process massive amounts of orders quickly
 - ▶ Manage and control the Supply Chain to maintain a good, stable flow of goods and information
- ▶ Efficiency by Automation
 - ▶ Ensure high quality, low costs and fast time to market in all processes
- ▶ Reliability
 - ▶ Ensure stability and reliability of the flow

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TECHNICAL INFRASTRUCTURE

- ▶ Oracle 12: OM, AR with standard APIs and one supported customization
- ▶ PHP and Python as middleware for the APIs
- ▶ Approach: Queues for all interfaces
- ▶ Proprietary XML covering NI's specific needs
- ▶ XML Generation:
 - ▶ In the EBS by selfdeveloped procedures
 - ▶ At the partners by external systems (Schema validation)

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- ▶ If such a process is to be set up, one has to think about even the tiniest details before going live
- ▶ The process design is the most important phase for such a project
- ▶ In order to maintain such a process the technical knowledge must exist in the company itself
- ▶ If properly done, the process works with high transparency and reliability
- ▶ Never think that errors don't occur. Proper monitoring is a key to success throughout the process

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- ▶ Different Warehouse-Timezones need to be considered in the setup to enable correct recognition of revenue and fast month end closing
- ▶ Creditcard capturing for split shipments
- ▶ Omitting the freight module in OM has put some serious constraints on the processes while automating a lot of steps
- ▶ The generation of XMLs by the EBS is a time critical process. By optimization of the scripts we could bring down the generation time from 45 minutes to 35 seconds for 1000 delivery notes

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**Discussion
and
Thank you**

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