

DHL Supply Chain Benelux



From EDC to eDC

Eindhoven, 17th of April 2012

Alfredo Molin- Head of Innovation & Product Development



Allow me to introduce myself...



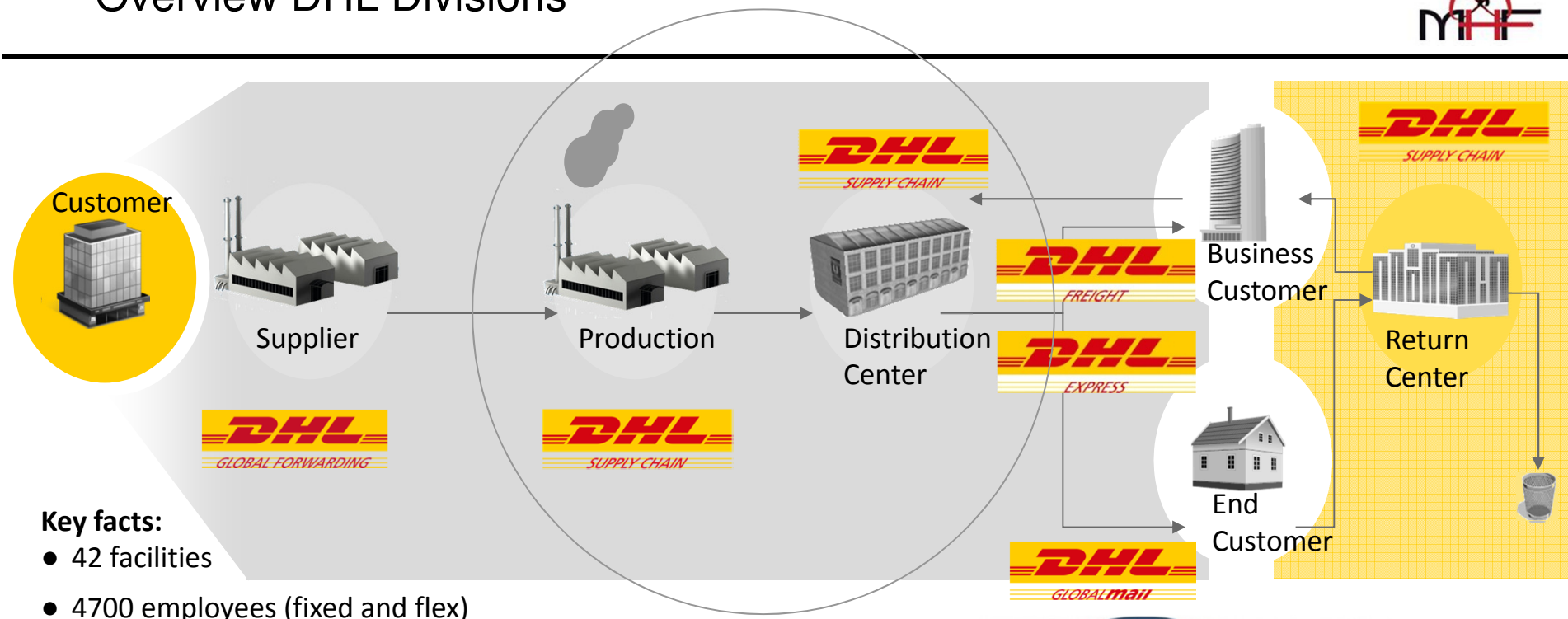
15 years of Supply Chain experience

Now head of Innovation and Product Development
@ DHL Supply Chain





Overview DHL Divisions



Key facts:

- 42 facilities
- 4700 employees (fixed and flex)
- Dedicated management teams for e.g.:
 - Innovation, Engineering, Implementations, Continuous Improvement, Quality, Sustainability, HRM, Information Technology
- Logistic focus:
 - Technology, Healthcare & Life Science, Consumer, Retail & Fashion, Industrial, Energy
- Products:
 - Warehousing, Returns & Repairs, Value Added Services (VAS), e-Fulfillment, Spare parts, Inbound logistics, Technical Distribution, Managed Transport



DHL thinks global, but acts local



*730 DHL Selektvracht Servicepoints niet in de kaart opgenomen





Why are flexible warehouses in our view so crucial?



Lets imagine the world in
2050...

Delivering Tomorrow – The World in 2050...



Our customers, what's driving them?



Brand image, Community, life-style



Future study “Delivering Tomorrow – Customer Needs in 2020 and Beyond”

4 Key observations...



Brand image, Community, life-style

1

Product Life Cycle Stages



- Product Life Cycles are getting shorter.
- Volumes fluctuate more than ever.
- Product innovation & introduction is core competence to survival

Future study “Delivering Tomorrow – Customer Needs in 2020 and Beyond”

2



- Products need to be offered and delivered to customers using multiple sales channels (B2B and B2C)

3

CUSTOM
made

- Customers demand personalized products against the lowest price.
- Products need to be made customer specific at the last moment.

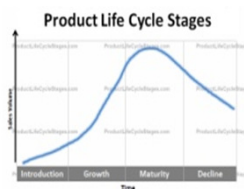
4



- The products need to be produced and delivered in a green way.
- Also more focus on refurbishment (cradle to cradle) due to increase scarcity of raw materials

Our customers, How are they driving us?

The effect of market trends on logistics

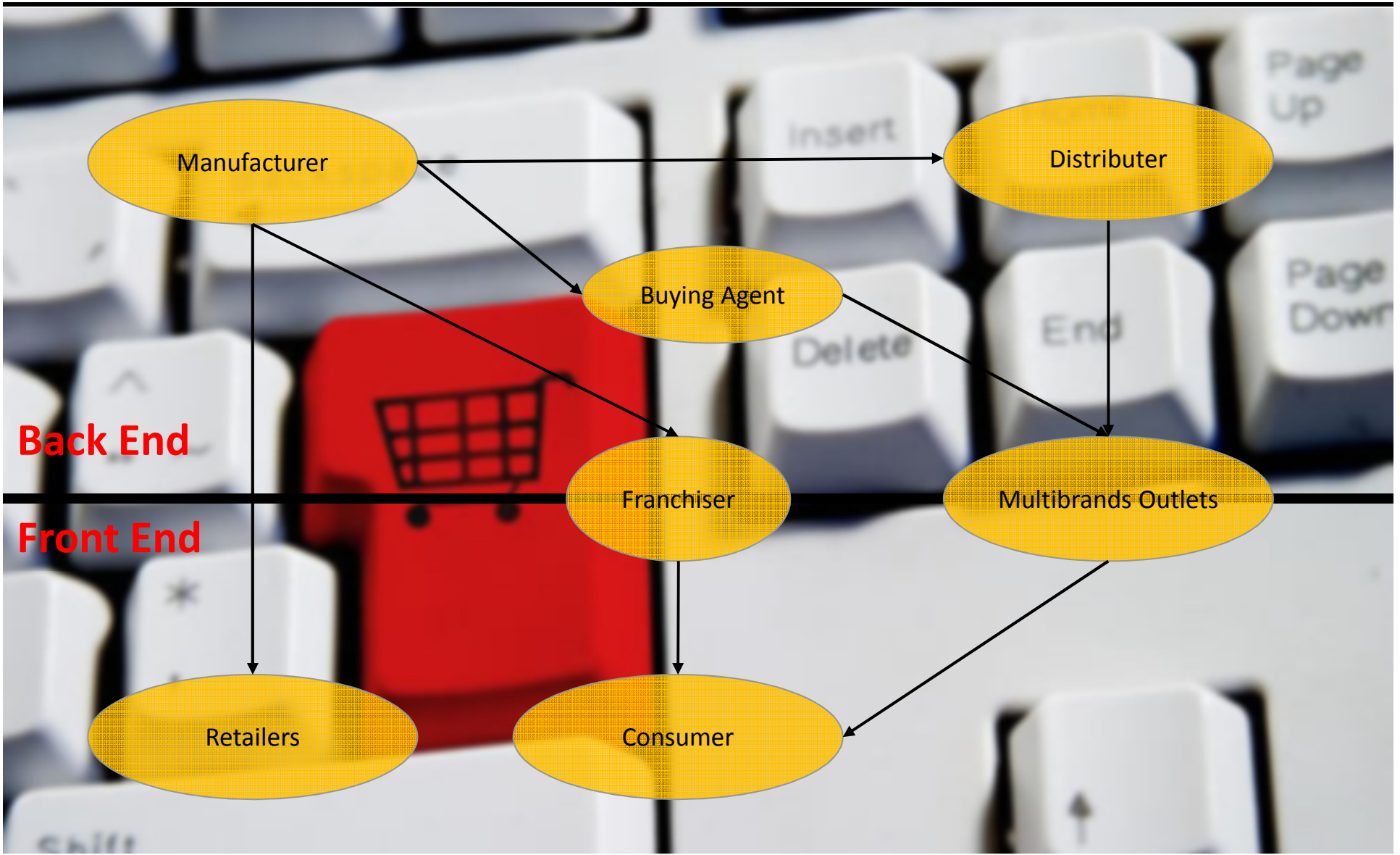


**CUSTOM
made**



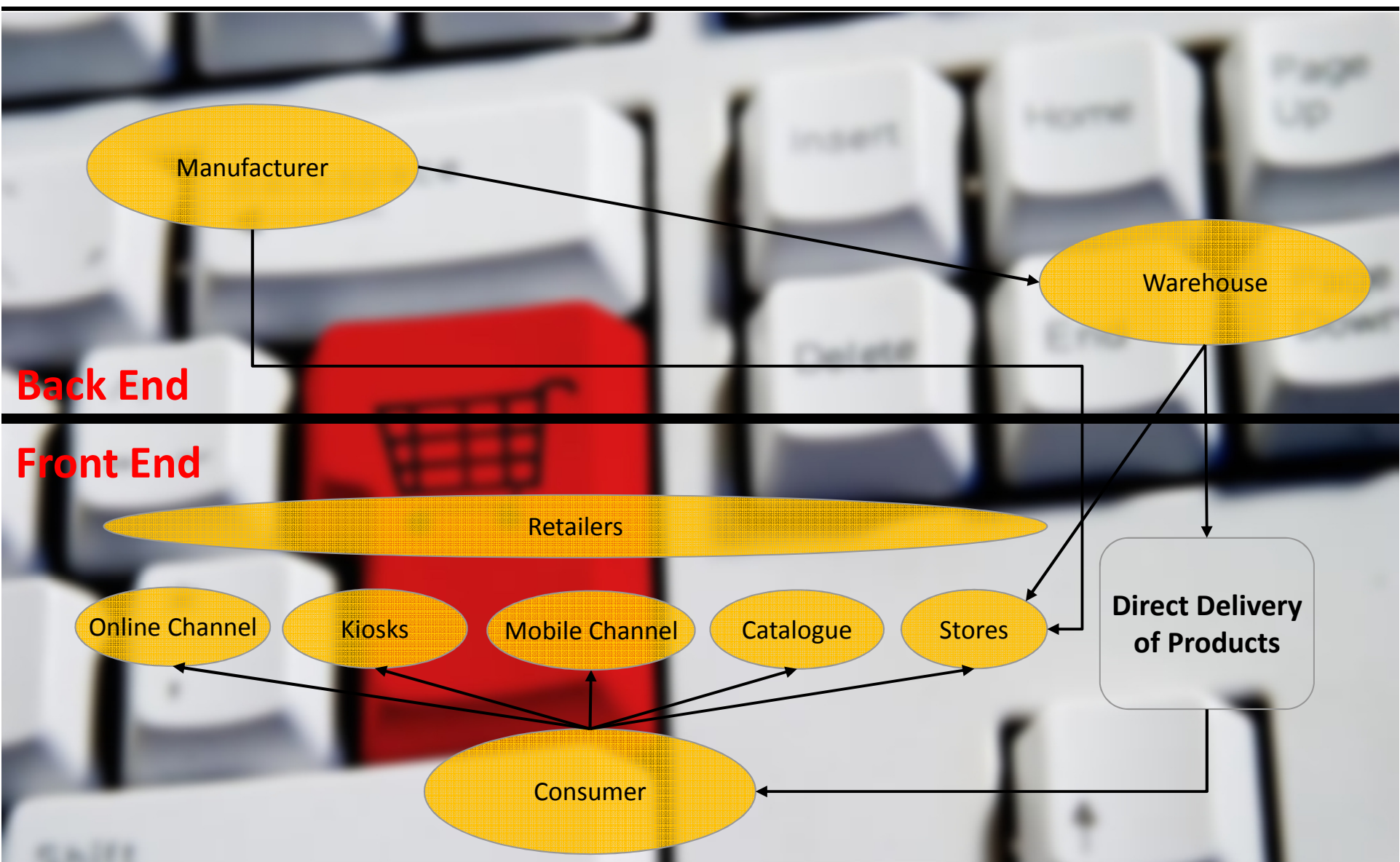
Major Customer Requirements	
Reduced Time to Market	<ul style="list-style-type: none"> Ability to Quickly Adapt to changing technological and market conditions
Standardization and consistency	<ul style="list-style-type: none"> Standardization and Consistency enables replication of services across countries in shortest timeframe
Integrated solutions	<ul style="list-style-type: none"> Solution Development in the area of late customization, technical services, cradle to cradle
Price	<ul style="list-style-type: none"> Continuous demand for Cost reduction and Focus on Flexibility in costs (more variable charging versus fixed)
Visibility	<ul style="list-style-type: none"> Need for Visibility (real time info on event level) to manage end customer expectations.
Flexibility and scalability	<ul style="list-style-type: none"> Flexibility and Scalability in resources, contract terms and closing and start up of operations.

The traditional supply chain model will change...

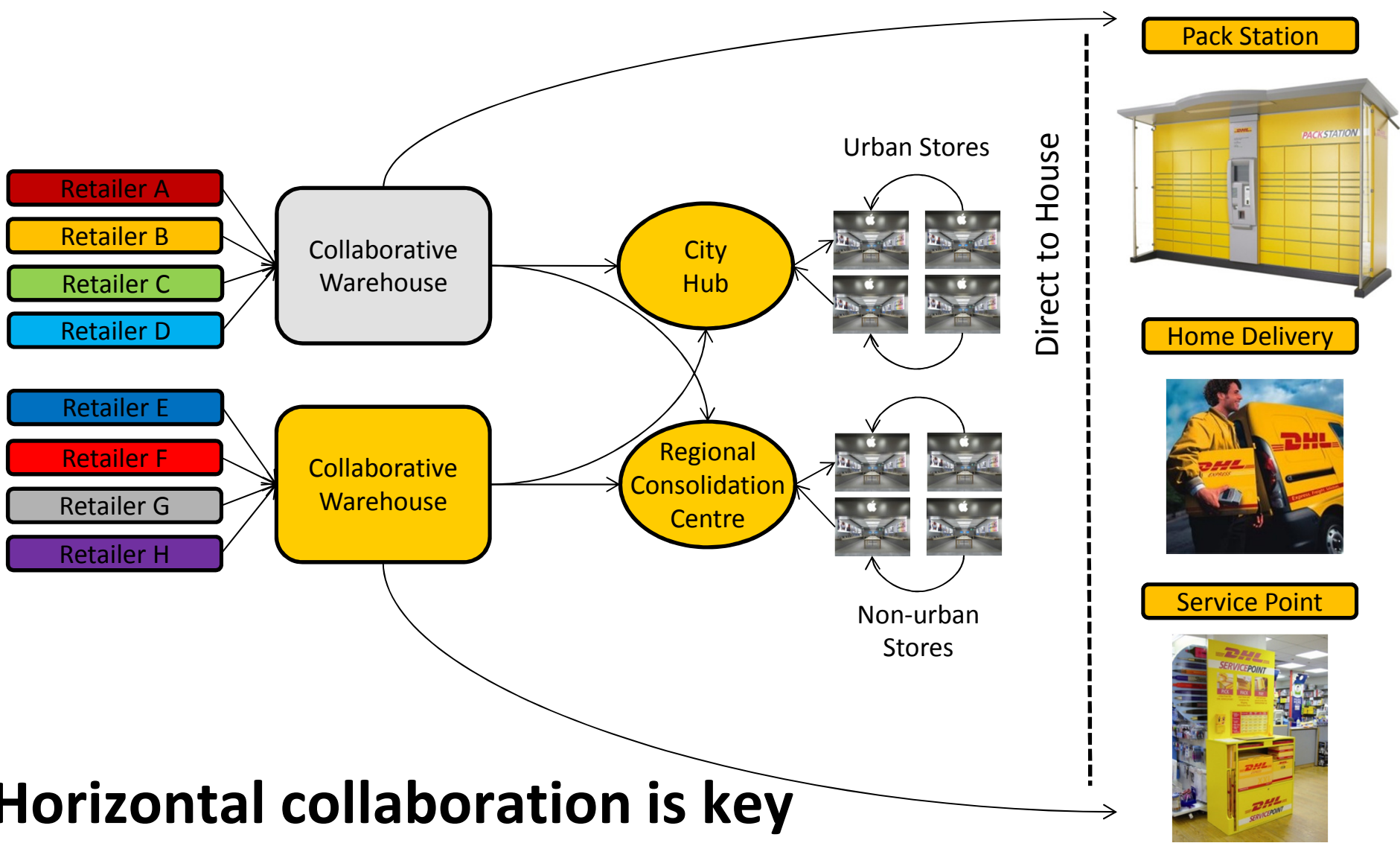




...to a consumer driven *“value chain”*...



Both **on-line orders** as **in-store** orders fulfilled within 24 hours



Horizontal collaboration is key

But what about **Flexibility** in warehouses...



Innovation is the key driver!

An example: Flexibility in inbound process

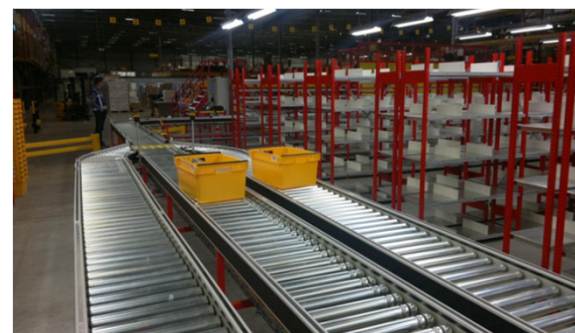
Consolidation of returns and inbound process DHL spare parts warehouse

Challenge

- Inbound and Returns process fully separated
- Too long lead-time from returns to outbound

DHL's answer:

- Integrating returns and inbound process
- Fast picking by pick to light and tote system



Value Proposition

Optimization of inbound and outbound processes

Increasing picking productivity

Speed of returns availability

Reduction and minimization of inventory discrepancies

Visualization of warehouse Processes

Reduction of process lead times inventory taking and inventory control

Facts

- Sorting and consolidation of inbound spare parts
- Storage of fast and medium movers in shelving area
- Consolidated picking for outbound from shelving area
- Moving slow movers after consolidation to main warehouse
- Supplier Inther
- 100% operational by end of February 2012

Another example: **Flexibility** in inventory management

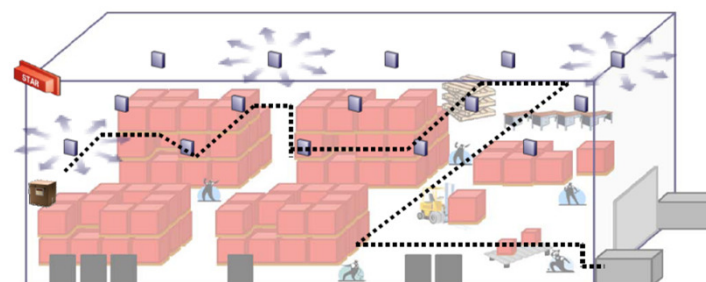
3D-Localization for inventory control in DHL tobacco warehouse

Challenge

- Surveillance of warehouse processes with RFID
- Inbound and outbound control
- Support for daily inventory taking
- Active theft protection / protection from plagiarism

DHL's answer:

- RFID-installation of the Mojix-System in the warehouse
- Track & trace of all pallet movements in the warehouse
- Stock control and inventory taking in real time
- Outbound control and avoidance of misloading



Value Proposition

Optimization of inbound and outbound processes

Reduction of misloadings

Proactive theft protection / protection from plagiarism

Reduction and minimization of inventory discrepancies

Visualization of warehouse processes & localization of goods

Reduction of process lead times inventory taking and inventory control

Facts

- Daily inventory taking of all 1200-1500 pallets
- High value of each pallet (20.000-50.000 EUR)
- Up to 150 pallets inbound & outbound per day
- Reduction of misshipped pallets
- Integration of capturing events into Auto-ID platform

A third example: **Flexibility** integrated in all warehouse processes



Thanks for your attention and let me know what you think



If you want to replay my presentation, please send me an e-mail at alfredo.molin@dhl.com

Twitter: @AlfredoMolin