

Creating Collaboration through Connection



Science For A Better Life

L'efficienza della gestione dei processi sanitari

Transportation Management System International Pilot

Michele Palumbo

Bayer S.p.A., Head of Supply Chain Management Italy

Impresa Sanità – Logistica Management

Milano, 2017 November the 8th

Our Mission

Science For A Better Life















As of December 31, 2016 including Covestro / Employees: as of June 30, 2017 (including Covestro)

* excluding Covestro: €9,720 employees (in full-time equivalents)

** excluding Covestro: €34.9 billion

*** excluding Covestro: €4.4 billion

Customer Focus

Experimentation



Trust

Collaboration

Welcome



Bella Italia What will you find?

Make or buy framework for logistics decisions



Outsource functions, maintain control of processes



Perform in-house



Outsource



Spin off



NO

Is logistics a critical success factor in the **market**?

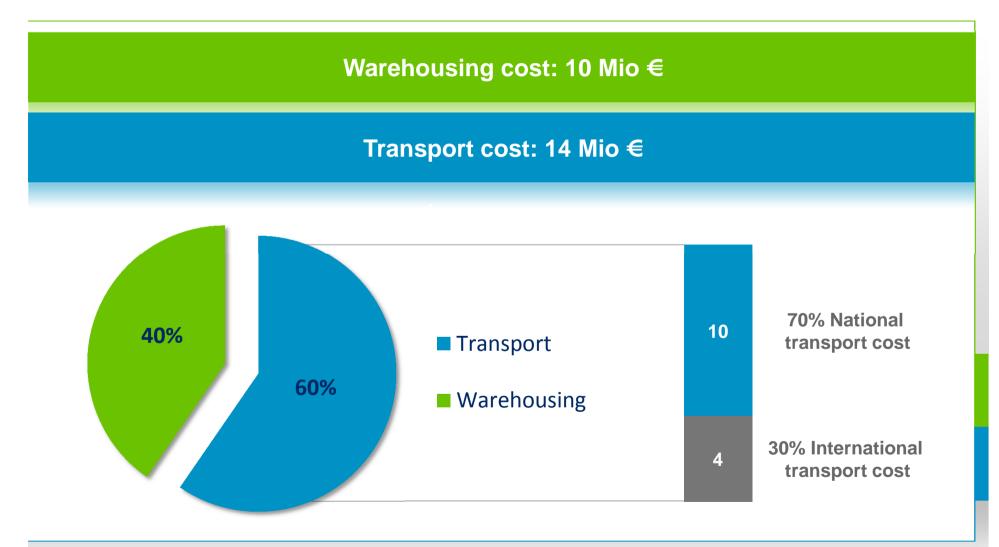
BCI Global, 2017

Is logistics a **core competency** in the business?

BAYER - Italian affiliate

Logistics spent





BAYER - Italian affiliate

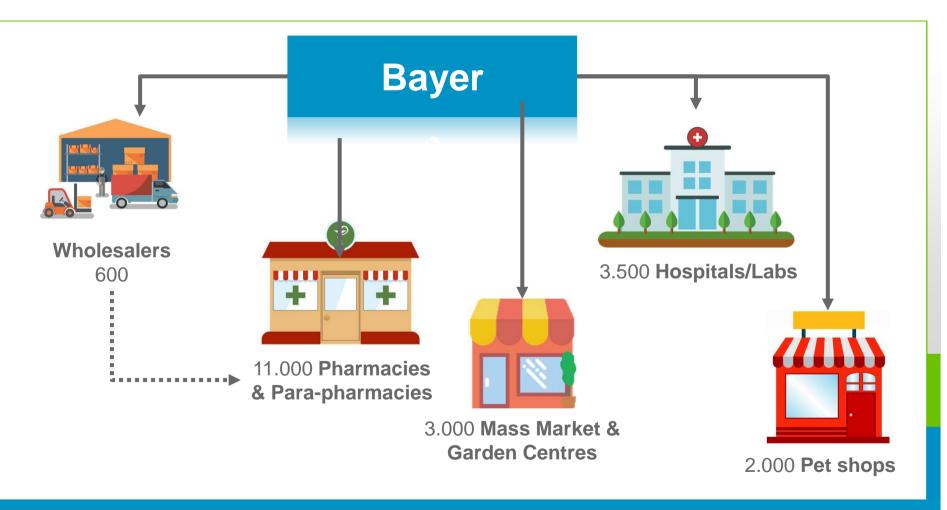




BAYER - Italian affiliate





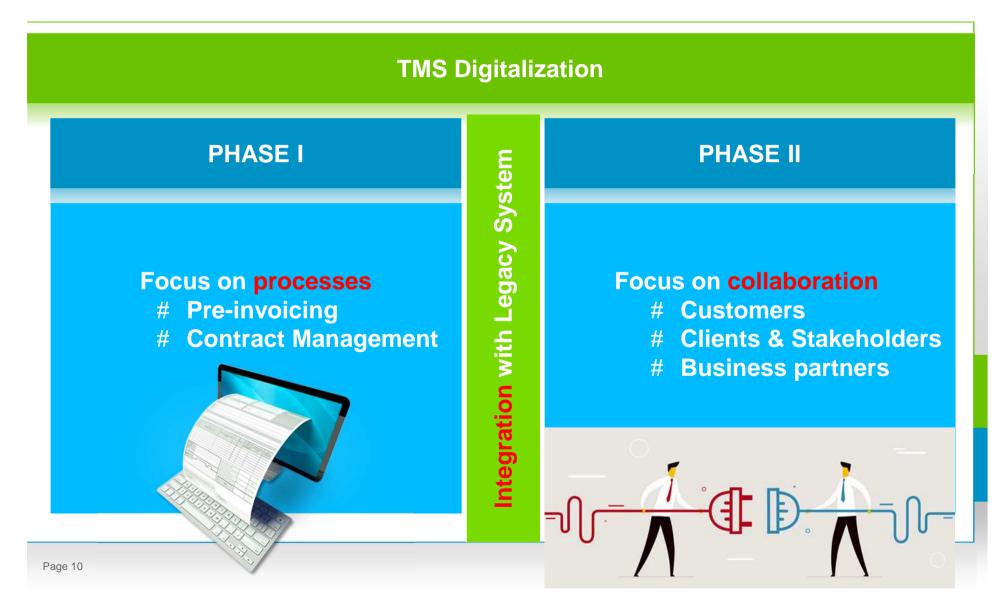


Total customers : ≈ 20.000

BAYER – Italian affiliate







Phase I

Processes: Functional & Technical Requirements



PRE-INVOICING

100% automation rate monthly

Wide range of cost drivers



Contractual complexity power



- Transport cost calculation and manual intervention requested only for exceptions
- Packaging unit (pallet, tote, parcel, etc.)
- Weight and volume
- Distance (kilometer)
- Delivery, Full Track Load, etc.

Ability to cope with a deep and wide contractual varieties

Manage different ADR surcharge, Cash On Delivery, telephone call, tail gate, porterage, warehousing, isles, attempts, etc.

An example: ... € per delivery < 100 kg (weight ranges 10 kg - 30 kg - 50 kg - 100 kg), ... € per quintal >100 kg (weight ranges 1.000 kg - 3.000 kg - 5.000 kg - 10.000 kg - 23.000 kg - 28.000 kg) and collateral costs related to delivery to ... (+...%), GDO +...%, warehousing over ... days ... € per quintal, 2° attempt = ... % of basic tariff, porterage = ... % tariff, tail gate ... €

Integration Between Phase I and II



INTEGRATED Transportation Management System (beyond the "interface" concept)

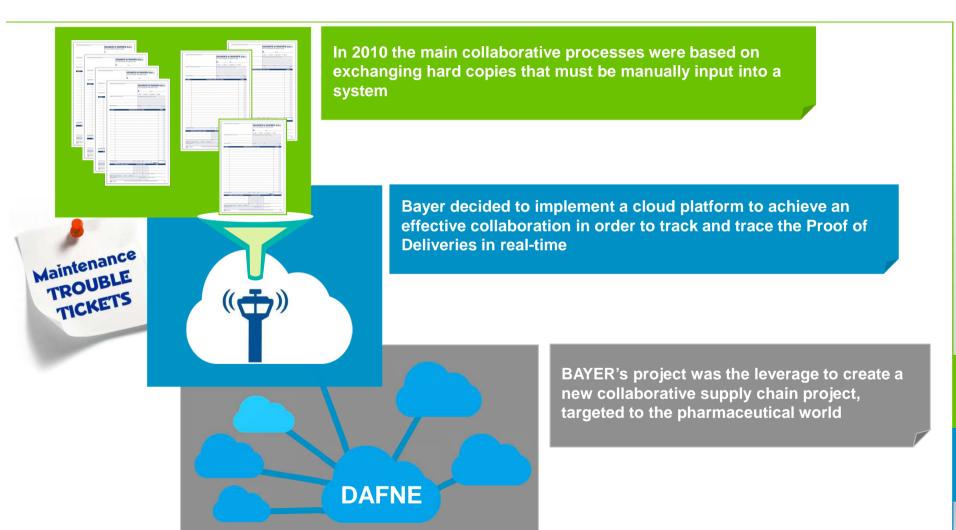


Wide range of IT languages (IDoc, XI, XML, WEB SERVICES, Java, file, etc.)

Wide range of data sources (Fax, EDI, Web EDI, Web, SMS, GPRS, GPS, @mail, etc.)

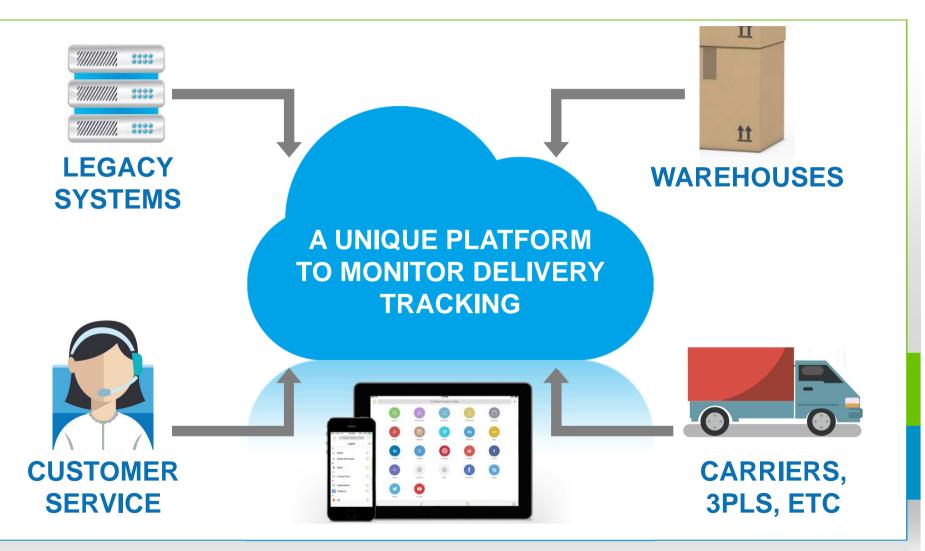
Phase II Collaboration





Phase II Clouding

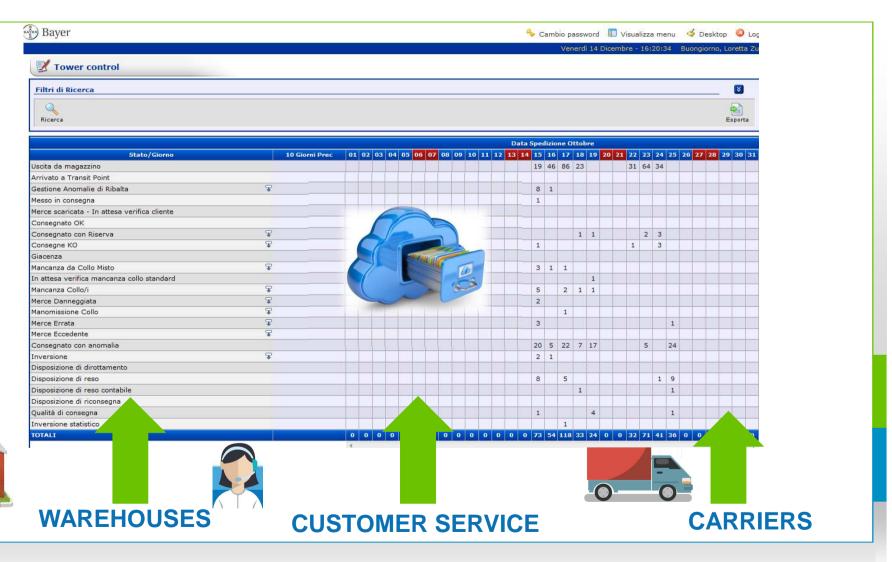




Phase II

Logistics Dashboard





Lesson learned

Visions happen



- 100% automation rate for transport cost calculation and pre-invoicing
- Contractual complexity empowerment (wide range of cost drivers)
- Extra-costs managed in the regular pre-invoicing workflow

- Multicompany and multichannel to follows physical and information flow over the boundaries
- Identity Access Management
- Logistics collaboration platform based on shared information
- **Distribution Planning**: load/unload booking Ø waiting time

NetMover

- Simple web-based management, plug & play without interface (SMS, @mail, GPRS, etc.)
- Track & Trace, complete visibility thanks to all supply chain players integration, enabling attachments management
- Automatic exception management, real time problems detection & delivery

- KPI dashboard powered by historical database (business intelligence)
- Simulator module for distribution assets reengineering



Questions









Science For A Better Life

Thank You!

michele.palumbo@bayer.com

Impresa Sanità – Logistica Management Milano, 2017 November the 8th