



Uniting the People and
Technology that Move the World.

Network. Applications. Community.

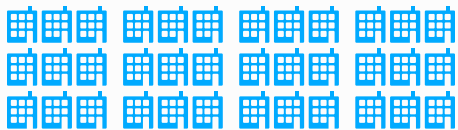


Improve your performance with Dynamic Reservations

Global Logistics Solutions Leader

10,500+

customers
worldwide



Global
reach



\$~150m

annual revenue



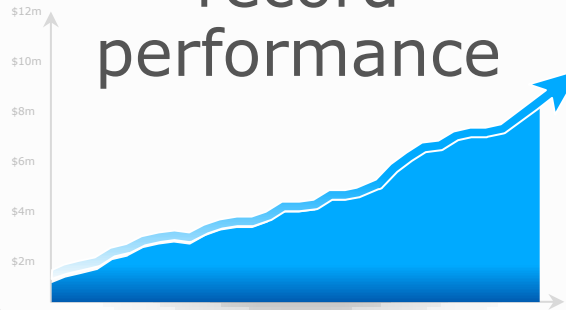
42% in
the EU

800+

logistics-focused
employees



30+ quarters
record
performance



~ **18%**

revenue
for R&D

Enabling the Global Logistics Community

172,000+

connected parties

160+

countries

50+

industry verticals



4.5 billion

messages processed/year

70 million

fiscal & security filings
processed/year

31.2 million

routes managed/year

Customer Success – Driving Our Success



Industry-Leading Customers (EMEA-based)

 Air	     
 Ocean	    
 Truck	    
 Intermediaries	    
 Retailers	      
 Manufacturers	       
 Distributers	    

Proven End-to-End Solution Footprint



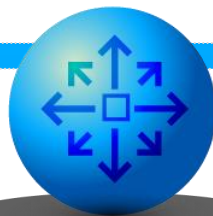
Routing, Mobile
& Telematics

1000+



Transportation
Management

1000+



Network
Services

2300+



Customs &
Regulatory
Compliance

750+



Forwarder &
Broker Enterprise
Solutions

1000+

Leading **European** Provider
of **B2B Supply Chain** Solutions



* Not including Exentra

** Not including customers only doing Security Filings, ICE/CM

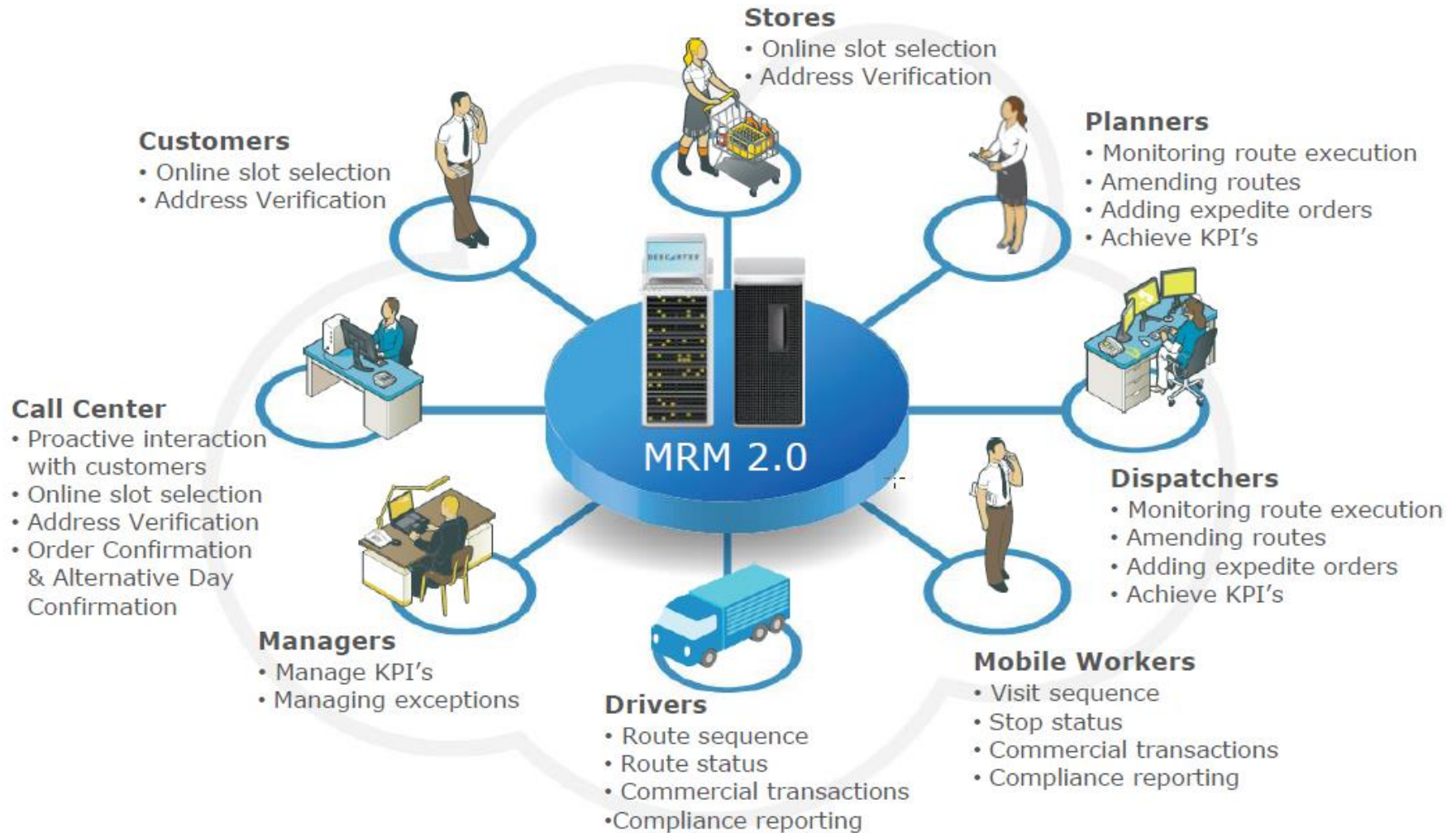
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DESCARTES

Descartes Advanced Solution for Route Management



Differentiator #1: Enterprise Architecture

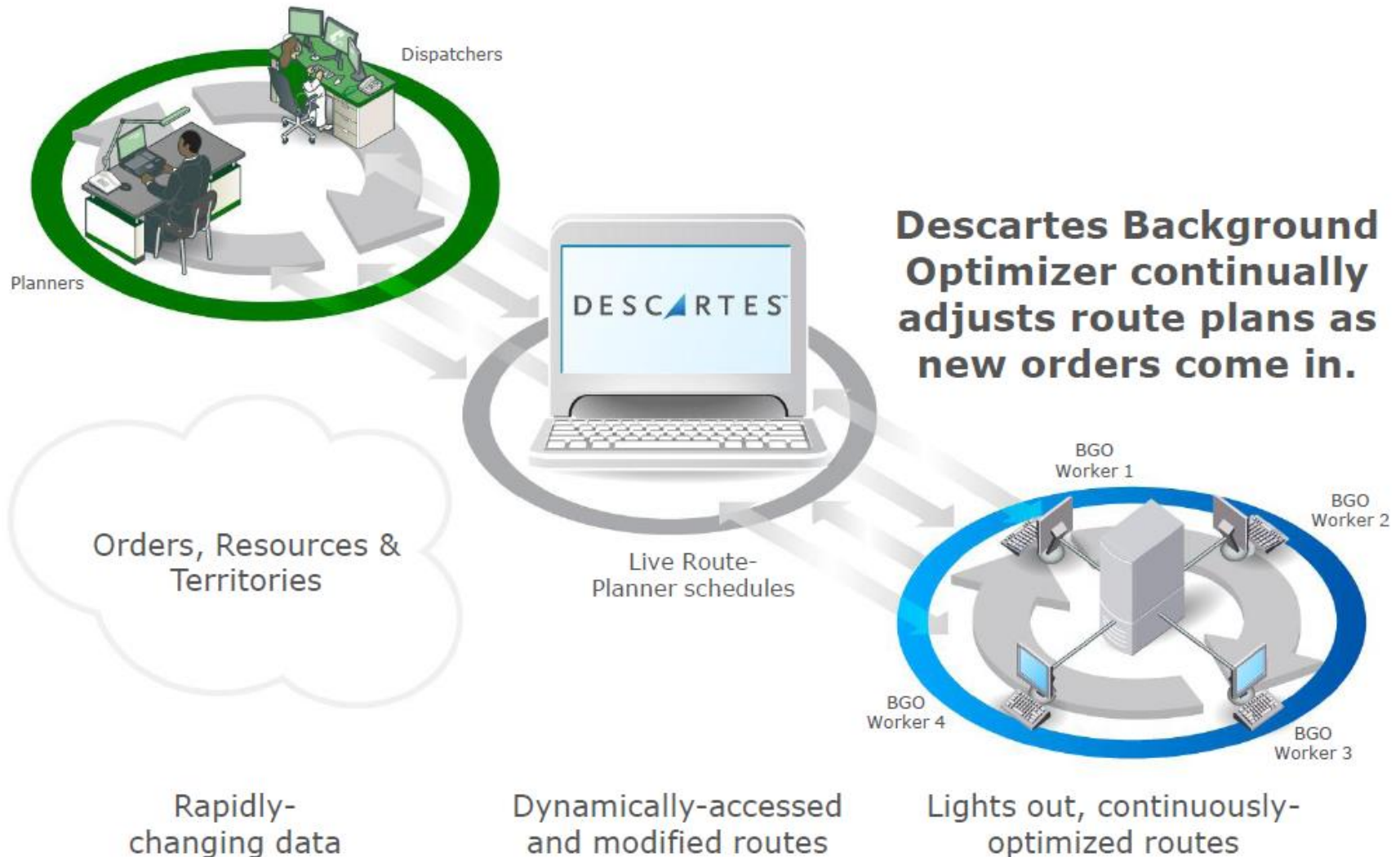


Differentiator #2: Incremental Optimization

- General Optimization:
 - Complex math problem
 - The longer it runs (more swaps), the better the results will be
- Batch Optimization
 - Executed the night before (ie 4:00 PM) route execution on 1 processor
 - Challenge of Time vs. Quality
 - Challenging in processing intensive scenarios:
 - Large order sets with a tight cut-off
 - Tight time windows (2 hours)
 - Multi-depot fulfillment
 - Selection of day of delivery

Ultimate question is how to get more horsepower to get a better result?

Differentiator #2: Incremental Optimization



Differentiator #2: Incremental Optimization

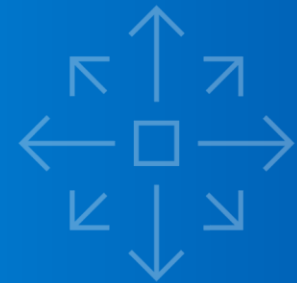
- Completely re-designed optimization architecture
 - Optimization servers are constantly running during the planning window(s)
 - Optimization runs *incrementally*
 - Optimization is distributed across *multiple CPUs*
 - *Solve across 4 CPUs for 12 hours vs. 1 CPU for 30 minutes*
- Key value points
 - Increased horsepower → 7-9% reduced mileage
 - Ideal for short routing horizons → Quick route release
 - Usability & Exception Mgmt → Proactive mgmt

Differentiator #3: Dynamic Reservations

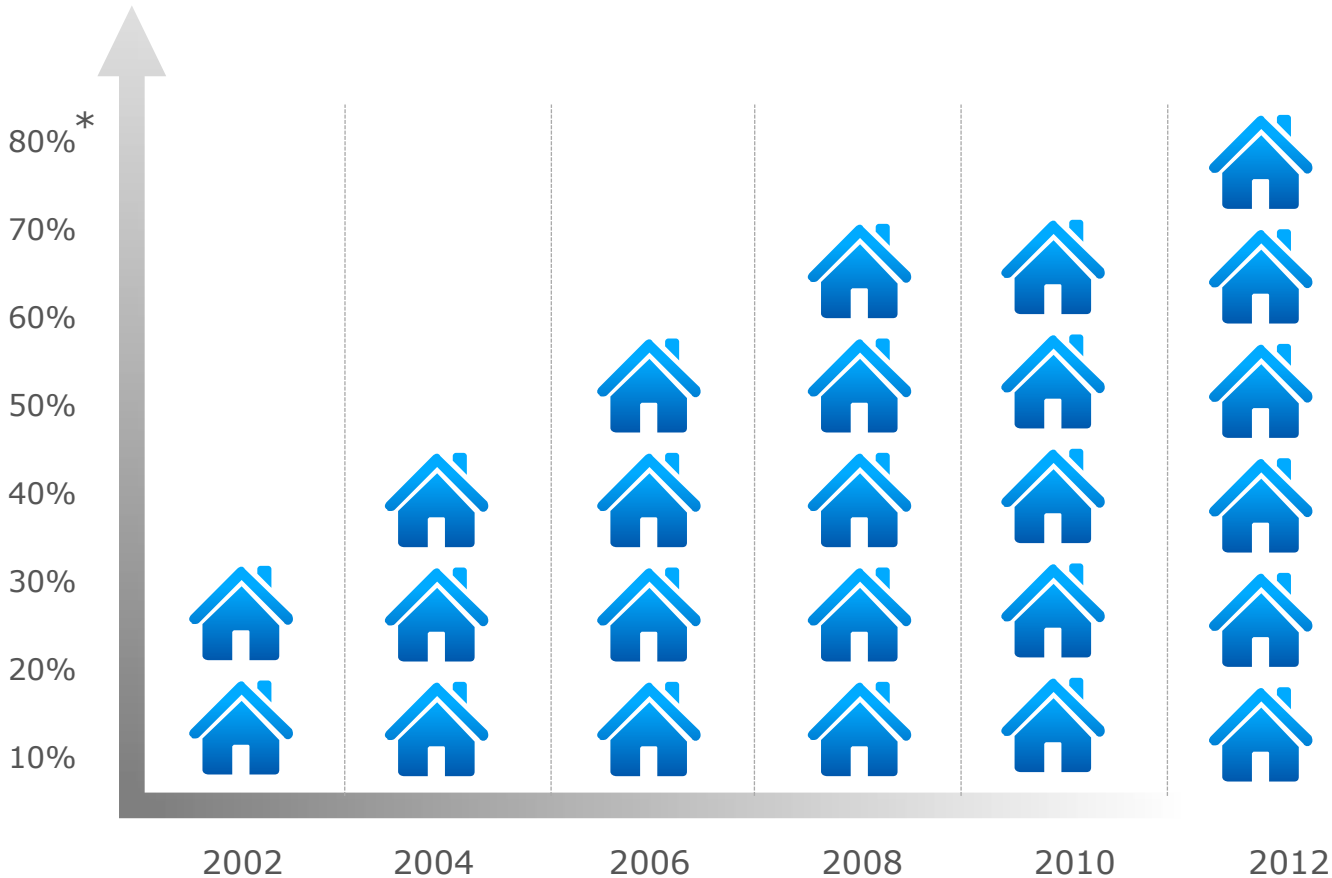
Reservation Challenges:

- How can we assign timeslots or limit capacity before the routing has taken place?
- Akin to putting a jigsaw puzzle together without knowing what it is supposed to look like
- Two approaches to solve this problem
 - Static reservations
 - Dynamic reservations

Trends for B2C delivery



Trends for home delivery



* Source: Price Waterhouse Coopers, LLP, 2012

Increase

The increase in home delivery comes from:

- Technological developments
- The transformation of the supply chain
- Changes in the channel retailer / wholesaler



Home Delivery: Challenges

The top 3 requirements

1

The client wants service

2

The client wants choice

3

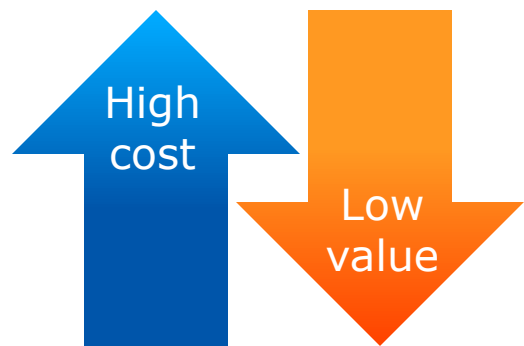
The retailer wants to control his costs



Breaking the Myth

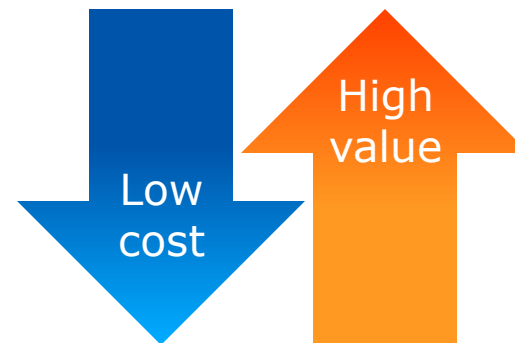
Home delivery: The Myth

- Home delivery has high cost and low value
- Making client appointments at the moment of sale increases transport costs



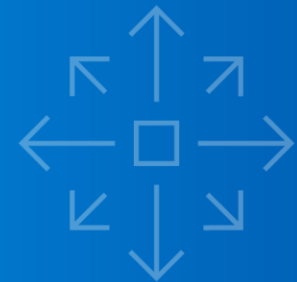
Home delivery: The Facts

- Home delivery can become a profit center instead of a source of costs
- Allows the retailer to differentiate to retain customers



Next Generation Solution

They made it! John Lewis

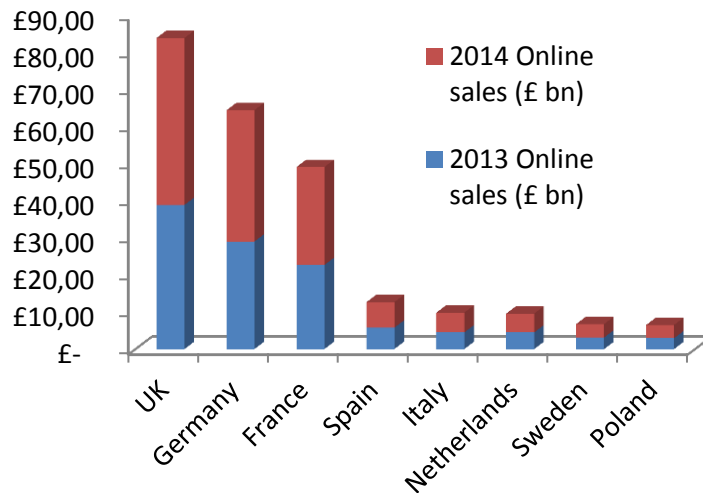


A profitable Home Delivery Appointment System!?

A revealing example

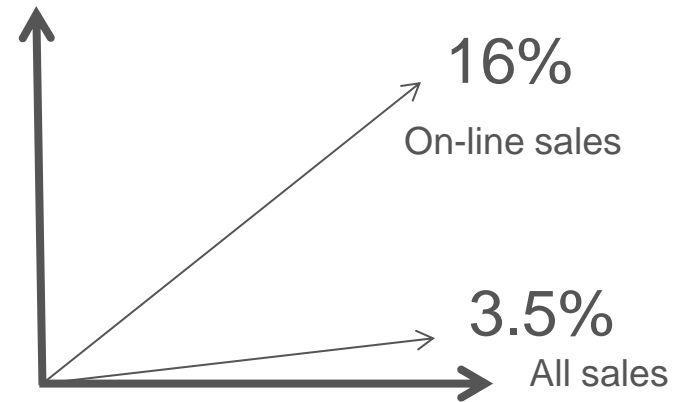
Market in England

The most developed
European online market



Rapid transformation of the
sales model

2013 & 2014
UK Retail
Growth



*"The leading provider of home delivery services is leaving
the UK market !"* Dino Rocco - JLP

Market in England

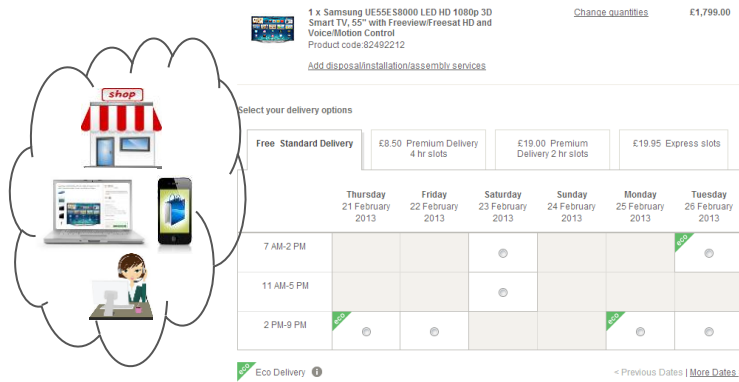
For many retailers, selling multi channel brings erosion of profits

Net		Today			5 Years' Time		
Sales Channel	Margin	Channel Mix	Sales (£ m)	Margin (£ m)	Channel Mix	Sales (£ m)	Margin (£ m)
In Store	10%	80%	400	40	50%	250	25
Click & Collect	7%	10%	50	3.5	25%	125	8.75
Home Delivery	5%	10%	50	2.5	25%	125	6.25
		500			500		
		9.2%			8.0%		

Source: LCP Consulting 2013

Marketers must redefine their strategy to integrate their Omni-Channel delivery; otherwise they will be in a deadlock

John Lewis: Excellence at Omni-Channel



1 x Samsung UE55E8000 LED HD 1080p 3D Smart TV, 55" with Freeview/Freesat HD and Voice/Motion Control
Product code: 92492212
Change quantities £1,798.00
[Add disposal/installation/assembly services](#)

Select your delivery options

Free Standard Delivery	£8.50 Premium Delivery 4 hr slots	£19.00 Premium Delivery 2 hr slots	£19.95 Express slots		
Thursday 21 February 2013	Friday 22 February 2013	Saturday 23 February 2013	Sunday 24 February 2013	Monday 25 February 2013	Tuesday 26 February 2013
7 AM-2 PM		●			●
11 AM-5 PM		●			
2 PM-9 PM	●	●		●	●

Eco Delivery ⓘ < Previous Dates | [More Dates](#) >



- ✓ 5 billions € revenue: 30 % on-line
- ✓ 41 shops
- ✓ 1,5 million deliveries per year
- ✓ Present on-line for 12 years
- ✓ Delivery fleet: 300 vehicles, crew of 2 persons each

John Lewis: Service - Revenue - Profitability



1 x Sony Bravia KDL55W955 LED HD 1080p 3D Smart Wedge TV, 55" with Freeview HD with 2x 3D Glasses
Product code:82450140

[Change quantities](#)

£1,599.00



Select your delivery options

	Free Standard Delivery	£8.50 Premium Delivery 4 hr slots	£19.00 Premium Delivery 2 hr slots	£19.95 Express slots		
	Tuesday 08 April 2014	Wednesday 09 April 2014	Thursday 10 April 2014	Friday 11 April 2014	Saturday 12 April 2014	Sunday 13 April 2014
7 AM-2 PM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
11 AM-5 PM					<input type="radio"/>	
2 PM-9 PM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Proposal of free or "Premium" time slots

Eco Delivery

< [Previous Dates](#) | [More Dates](#) >

John Lewis: Service - Revenue - Profitability

Samsung UE55ES8000 LED HD 1080p 3D Smart TV, 55" with Freeview/Freesat HD and Voice/Motion Control

SAMSUNG



£1,799.00

★★★★★ 4.8/5 41 Reviews

- [Need this wall mounted or just unpacked and set up? Click the Add disposal and/or installation text link during checkout.](#)



Product code : 82492212

Additional services

5 year guarantee included

- Television disposal £9.00
- Standard Large Screen TV Installation £55.00
- Large Screen TV Wall Mount Installation £125.00

[More service details](#)

More than 10 in stock

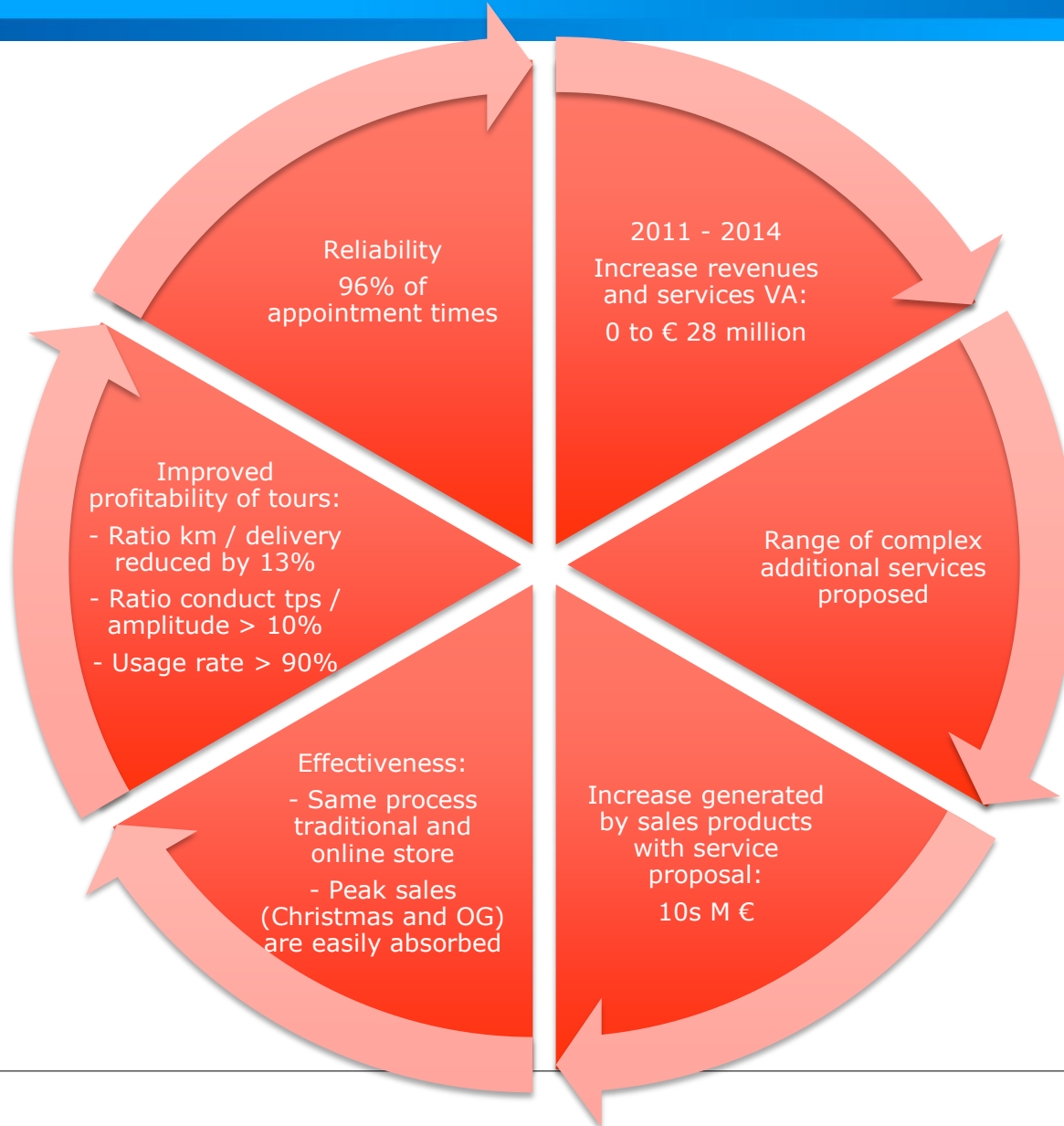
Quantity

Add to Basket



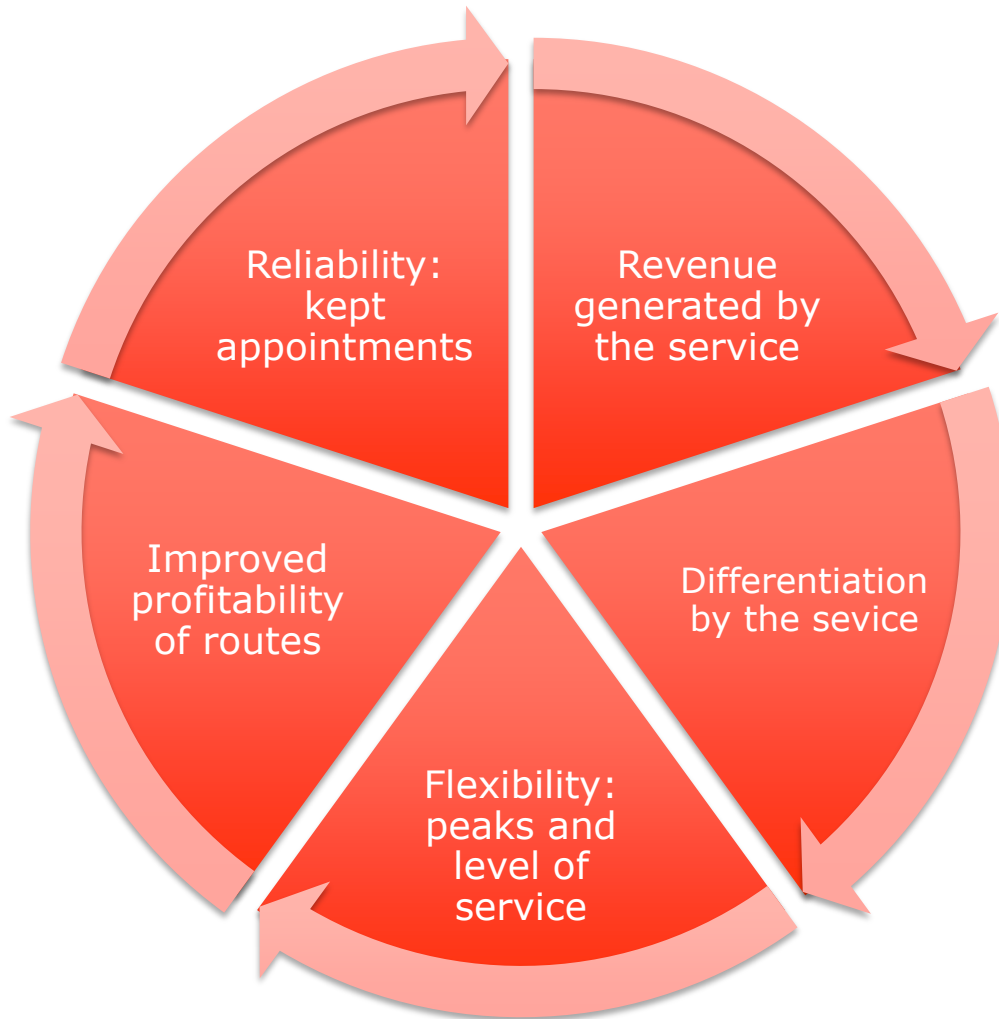
Proposal of additional services

John Lewis: The myth Service / Cost is broken



Source:
M Dino Roco –
Operations Manager
John Lewis

Descartes Dynamic Appointments



DESCARTES™

The Global Leader in Logistics Technology