



# La trasformazione della Supply Chain: quali sono i fattori critici oggi?

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*Fabbrica Futuro  
Bologna, 6 Marzo 2013*



**Un test....**



# Tim Cook, CEO Apple

## Tim Cook

CEO

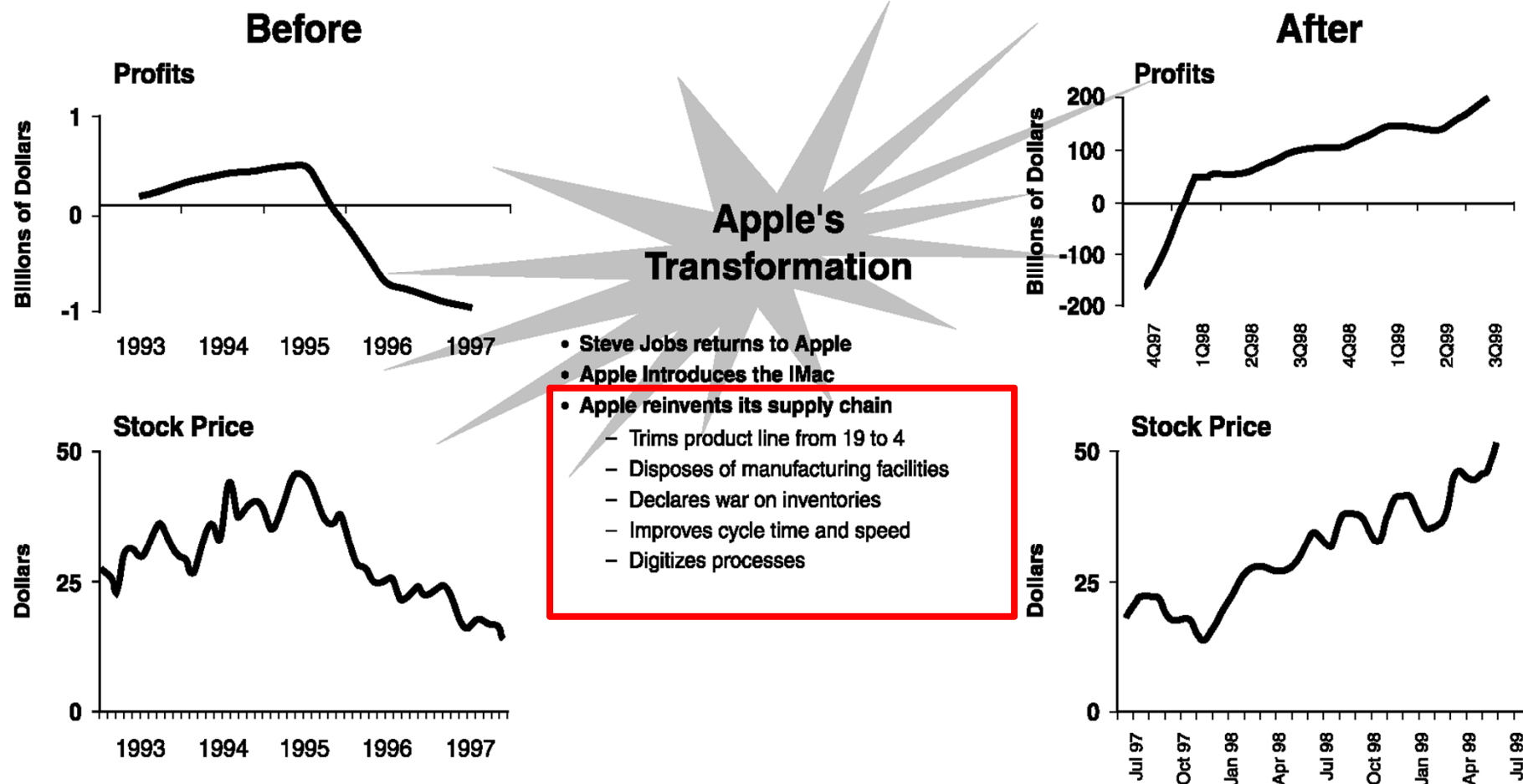
Tim Cook is the CEO of Apple and serves on its Board of Directors.

Before being named CEO in August 2011, Tim was Apple's Chief Operating Officer and was responsible for all of the company's worldwide sales and operations, including end-to-end management of Apple's supply chain, sales activities, and service and support in all markets and countries. He also headed Apple's Macintosh division and played a key role in the continued development of strategic reseller and supplier relationships, ensuring flexibility in response to an increasingly demanding marketplace.

Prior to joining Apple, Tim was vice president of Corporate Materials for Compaq and was responsible for procuring and managing all of Compaq's product inventory. Previous to his work at Compaq, Tim was the chief operating officer of the Reseller Division at Intelligent Electronics.




# La Trasformazione di Apple



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## Gartner Announces Rankings of Its 2011 Supply Chain Top 25

Apple Maintains the Top Position for Fourth Year in a Row

SCOTSDALE, Arizona, June 2, 2011—

Gartner, Inc. has released the findings from its seventh annual Supply Chain Top 25. The goal of the Supply Chain Top 25 research initiative is to raise awareness of the supply chain discipline and how it impacts the business.

Analysts announced the findings from this year's research at the Gartner Supply Chain Executive Conference (<http://www.gartner.com/technology/summits/na/supply-chain/>), which is being held here at The Phoenixian Resort & Spa through June 3.

"Four key themes emerged this year among the leaders, including how they deal with volatility, their approaches to value chain network integration, their focus on sustainable execution and their abilities to orchestrate," said Debra Hofman, research vice president at Gartner.

Gartner analysts said one of the trends they've seen over the last several years is a move from the notion of "supply chain" to "value chain" and a concomitant increase in the span of control of the supply chain organization.

"The old image of a supply chain organization limited to either inbound materials management or logistics, with procurement, planning, manufacturing, and customer service as totally separate functions, is fading," Ms. Hofman said. "What's replacing it is a supply chain organization, often reporting at the board level, that includes the functions of plan, source, make and deliver. It also increasingly includes functions such as customer service and new product launch, and links them through the cross-functional processes and roles that are so critical to being demand-driven. The consumer-oriented companies, with their need to renew product lines constantly and their appetite for downstream data, have led the way in this change, which may at least partially explain the steady drift away from industrial companies making the list."

Apple held onto the No. 1 position for the fourth year in a row (see Table 1). The company continued to post strong financials and top-of-the-line voting scores. Research In Motion, which was new to the list last year, rose to No. 4 this year with enviable financials and solid votes. Amazon, another newcomer last year, rose five spots to No. 5 in the 2011 ranking. Colgate-Palmolive, rising steadily since 2009, moved to No. 13 this year.

Table 1: The Gartner Supply Chain Top 25 for 2011

Rank	Company	Peer Opinion (156 Voters) (25%)	Gartner Opinion (32 Voters) (25%)	Three- Year Weighted ROA <sup>2</sup> (25%)	Inventory Turns <sup>3</sup> (15%)	Three- Year Weighted Revenue Growth <sup>4</sup> (10%)	Composite Score <sup>5</sup>
1	Apple	2,950	536	17.9%	49.3	40.9%	8.50

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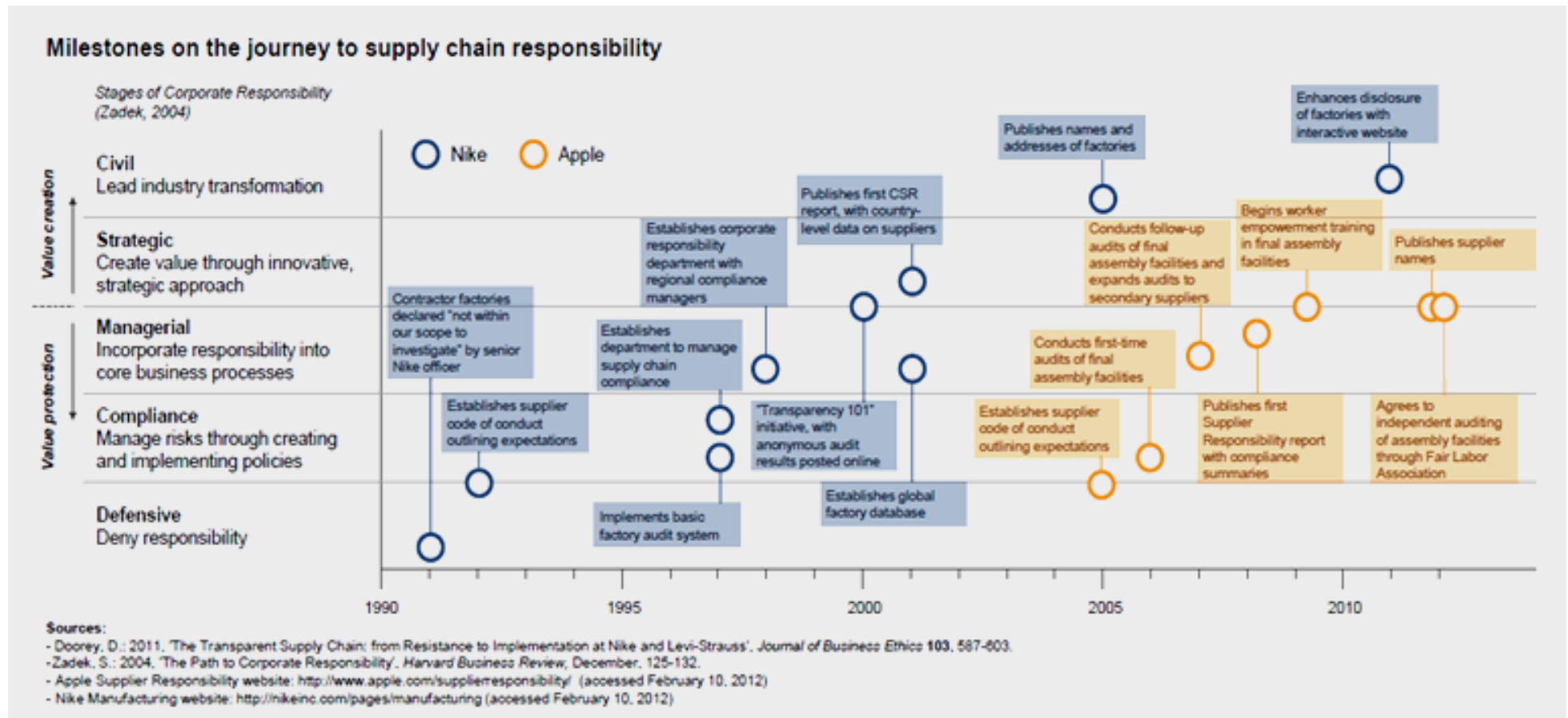
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# La Supply Chain “Responsibility”

*Dalla protezione del valore alla creazione del valore*





# Supplier Responsibility at Apple

Workers everywhere should have the right to safe and ethical working conditions. They should also have access to educational opportunities to improve their lives. Through a continual cycle of inspections, improvement plans, and verification, we work with our suppliers to make sure they comply with our Code of Conduct and live up to these ideals.

[Read highlights from our latest Supplier Responsibility Progress Report ▶](#)



## What we do to safeguard workers' health and well-being.

Ensuring safe work environments is only the beginning. Here are some other ways we're helping prevent problems and improve worker satisfaction:

- Establishing new safety standards
- Training workers on health and safety
- Improving ergonomics and worker well-being



## What we do to reduce our environmental impact.

To make sure suppliers are acting in environmentally responsible ways, we're working with industry experts in these areas:

- Managing our carbon footprint
- Identifying high-risk facilities
- Conducting focused audits

**L'eccellenza operativa, oggi,  
e' sufficiente?**

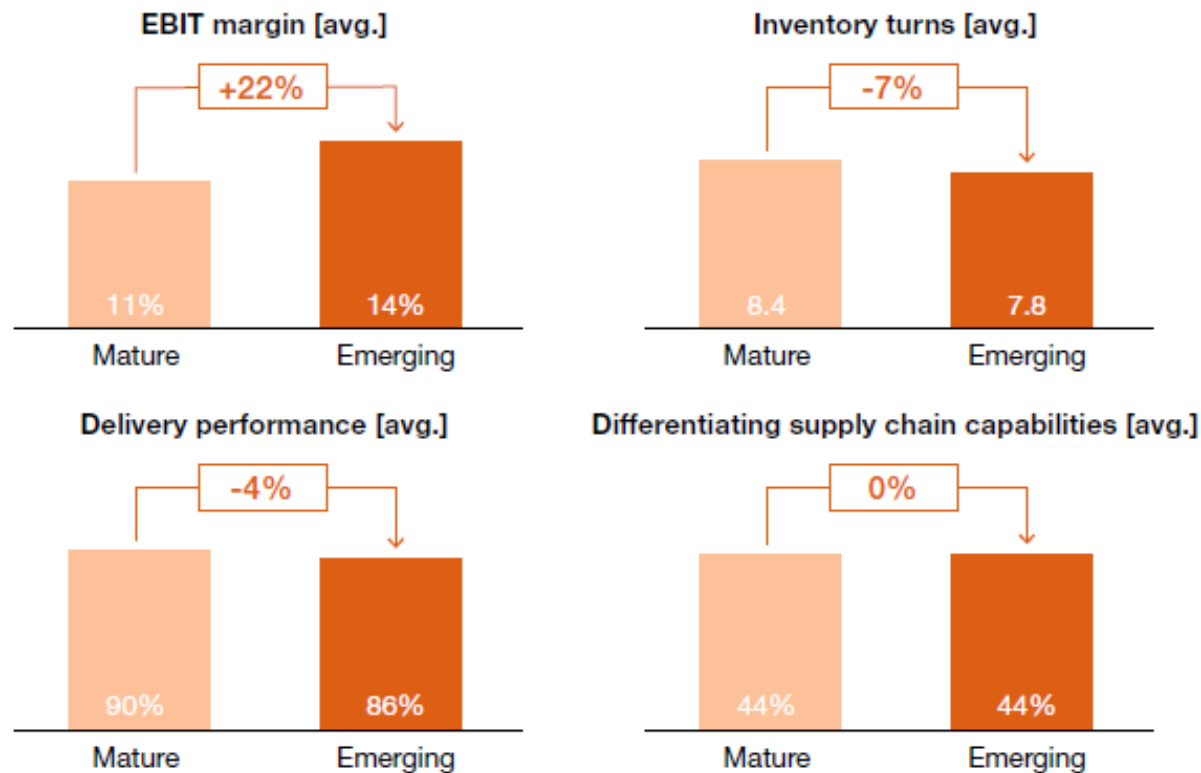




# Nuove capacita' di differenziazione

*....eccellenza operativa condizione necessaria ma non sufficiente*

*Le performance delle Supply Chain nei mercati emergenti sono comparabili con quelle dei mercati maturi*



Based on participant's country of origin.

Source: PwC, Global Supply Chain Survey 2013

# Supply Chain Agenda

*....andare oltre i tradizionali progetti di ottimizzazione*

2013			2012		
1	Supply chain visibility improvement	+2 ▲	1	Operational excellence	
2	Reducing environmental footprint	New★	2	Contract renewal with Logistics Service Provider (LSP)	
3	Operational excellence	-2 ▼	3	Supply chain visibility improvement	
4	Network redesign/ Distribution strategy	+4 ▲	4	Business innovation	
5	Supply chain collaboration	+5 ▲	5	Improve long term forecasting/ planning	
6	Contract renewal with Logistics Service Provider (LSP)	-4 ▼	6	Centralising or decentralising supply chain	
7	Sales and Operations Planning (S&OP)	0	7	Sales and Operations Planning (S&OP)	
8	Lean warehousing	New★	8	Network redesign/ Distribution strategy	
9	Inventory optimization program	New★	9	Supply chain talent program	
10	Improve long term forecasting/ planning	-5 ▼	10	Supply chain collaboration	

# La sostenibilità è “solo” protezione del marchio?

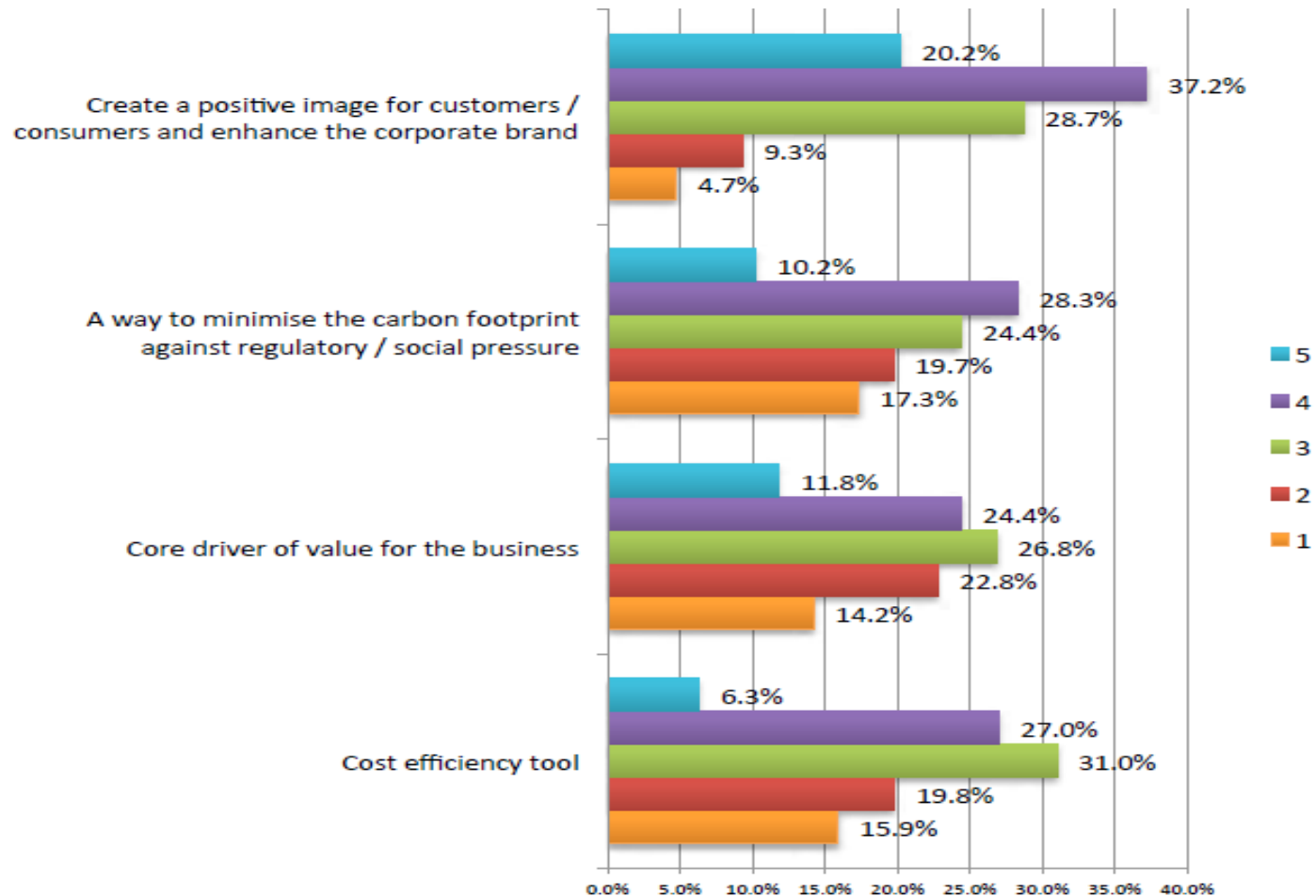


Fig.17 – On a scale of one to five, where one is not applicable and five is extremely applicable, rank the following as a means of describing the role sustainability plays for your business

# Perche' la **Green Supply Chain** e' importante

....*Qualche cifra*

- 75% del “*Carbon Footprint*” di una impresa proviene dalla sua Supply Chain
- Il trasporto merci contribuisce per un terzo all'emissione totale di CO2 proveniente dai trasporti
- Treni Merce e Camion (VUOTI!) contribuiscono per circa il 20% delle emissioni
- In Europa il trasporto merci e' destinato ad aumentare del 50% dal 2000 al 2020
- Oltre il 25% di mezzi pesanti gira vuoto ogni anno



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Source: FutureLab, eyefotransport, Department of Transport, Environmental Protection Agency

# Valore dalla sostenibilit  nella logistica...



18 Mar 2009

## Kraft Foods Drives Change

Alliston Ackerman

For a company of Kraft Foods Inc.'s size, moving product is no small task. In the United States alone, 500 shipping points support more than 6,000 destinations. Initiatives to centralize the company's transportation planning and execution operations in the United States started in 1997, and Kraft has continually sought ways to optimize and improve the basic benefits of a transportation management system (TMS) ever since.



### Supporting Sustainability

Kraft has created a framework that builds sustainability into the beginning or design of any given project. Sustainable logistics has been identified as one of six key areas that when managed efficiently can help to achieve Kraft's sustainability goals throughout its entire system -- from farm to fork.

The company already requires that its carrier partners be SmartWay certified by the United States Environmental Protection Agency. This program identifies products and services that reduce transportation-related emissions. Kraft has also equipped private fleet trucks with a mechanism that reduces consumption during idle times.

Now, equipped with cooperative routing capabilities, "our new transportation management system is a cornerstone of our sustainability efforts. We are able to drive out empty miles [more than 500,000 miles were reduced in 2007] and minimize fuel and emissions," reports Lambotte.

"Overall, this transportation management project has allowed us to create unique capabilities for our business units and customers, allowing Kraft Foods to balance cost and service in a sustainable manner. We believe this will raise the bar of our performance levels for years to come," closes Lambotte.

- **KRAFT ha ridotto i trasporti di 800.000km a vuoto l'anno mediante tecniche di ottimizzazione e collaborazione**
- **332 tonnellate of CO2....**
- **...o 375k€ di risparmio/anno di solo carburante (...considerando 1.30€ per litro)**

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Source: Consumer Goods Technology, 18 March 2009

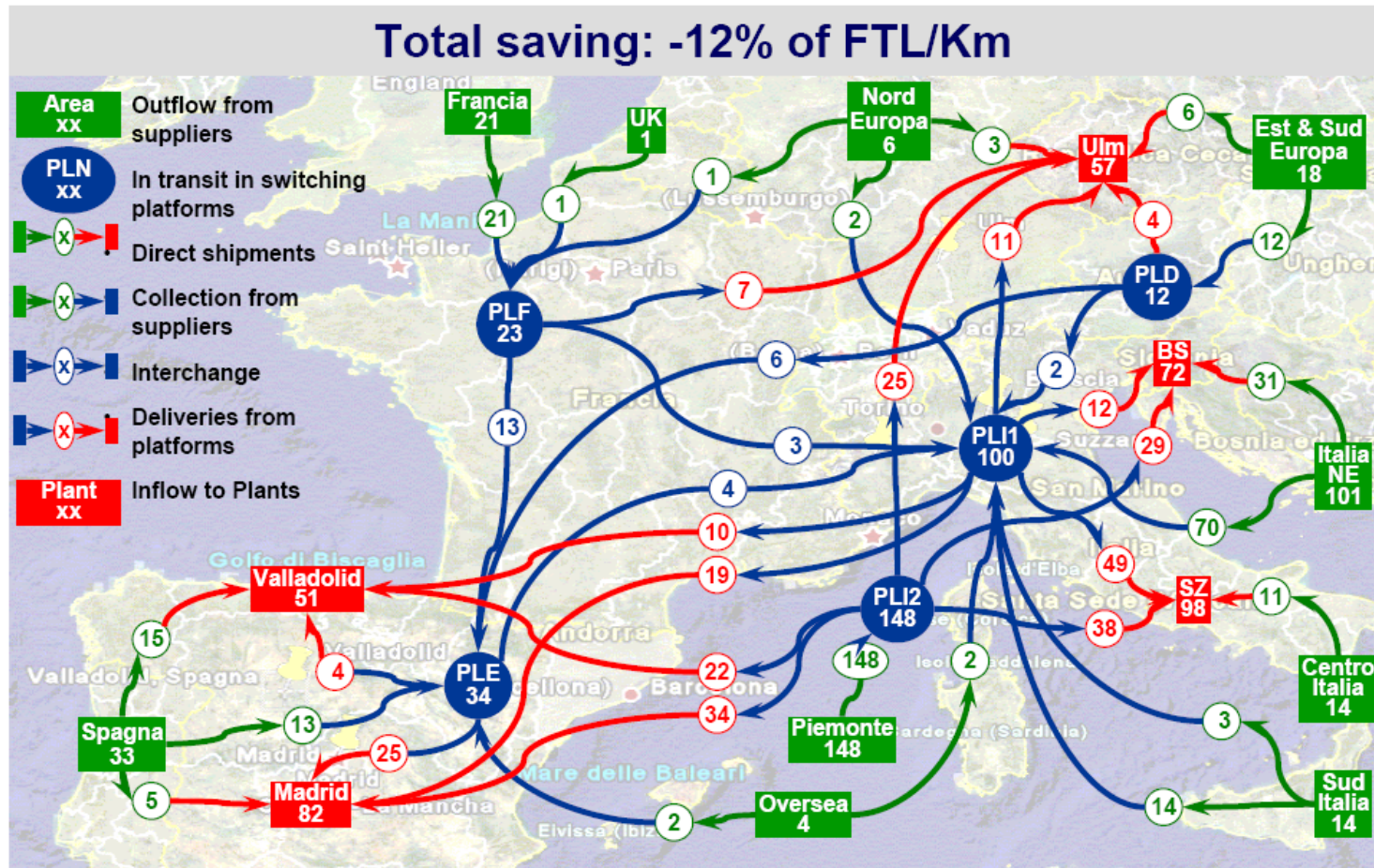


# Sostenibilita' nell' Automotive

## Ottimizzazione della Rete e dei Trasporti

Transport Volumes (Full Truck Load equivalent)

IVECO

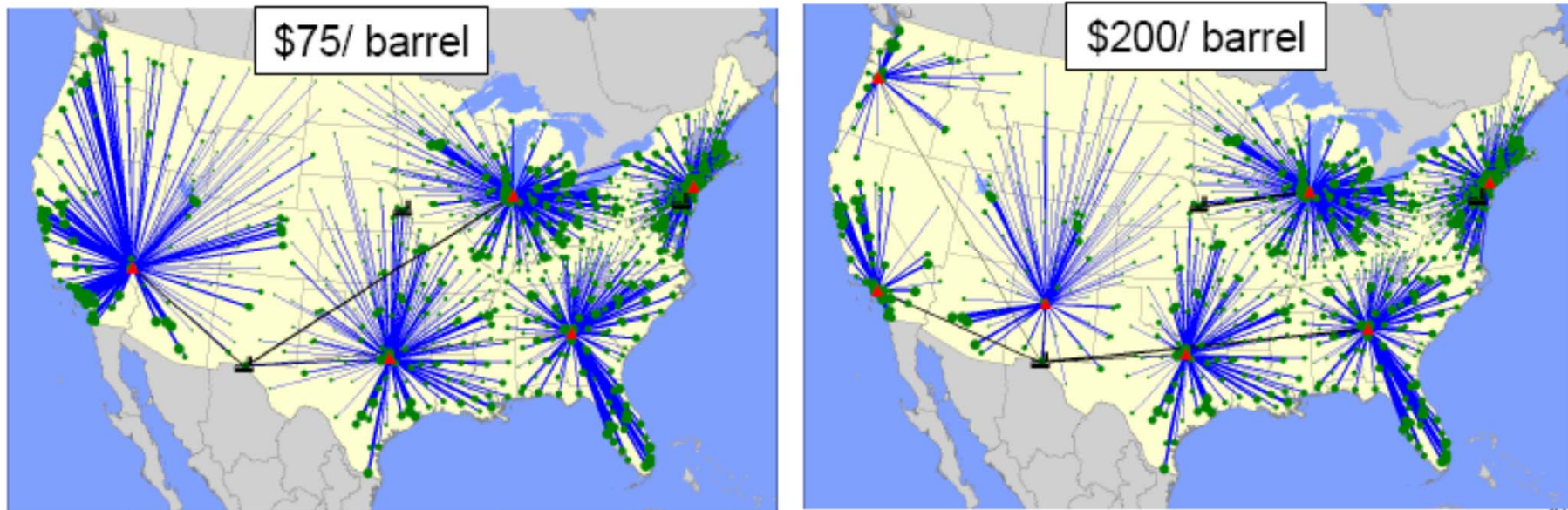


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Source: IVECO Presentation, 2011



# Influenza del prezzo del carburante sul **disegno** della rete logistica



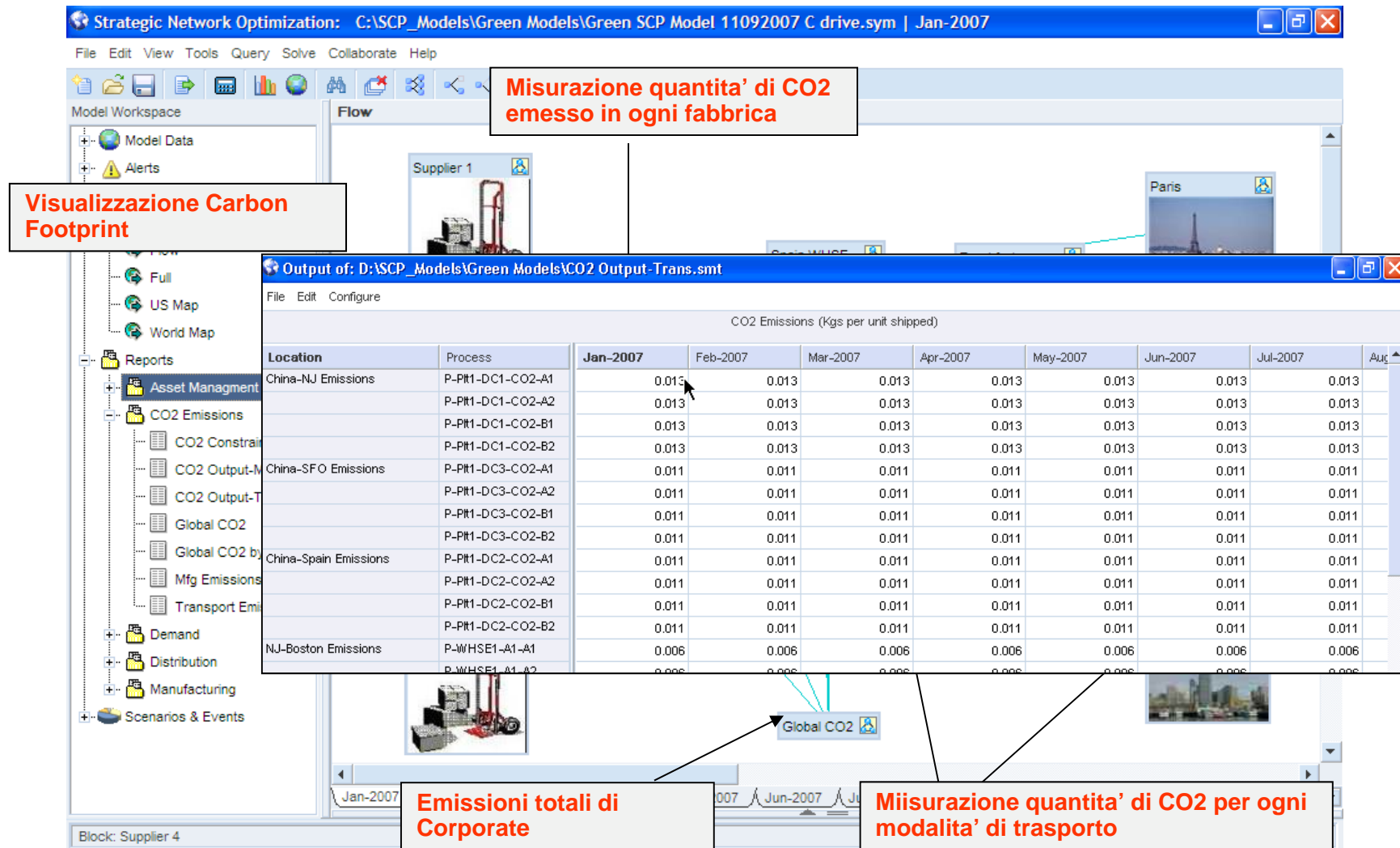


# Nuovi criteri di ottimizzazione

*...non solo tempi e costi....*

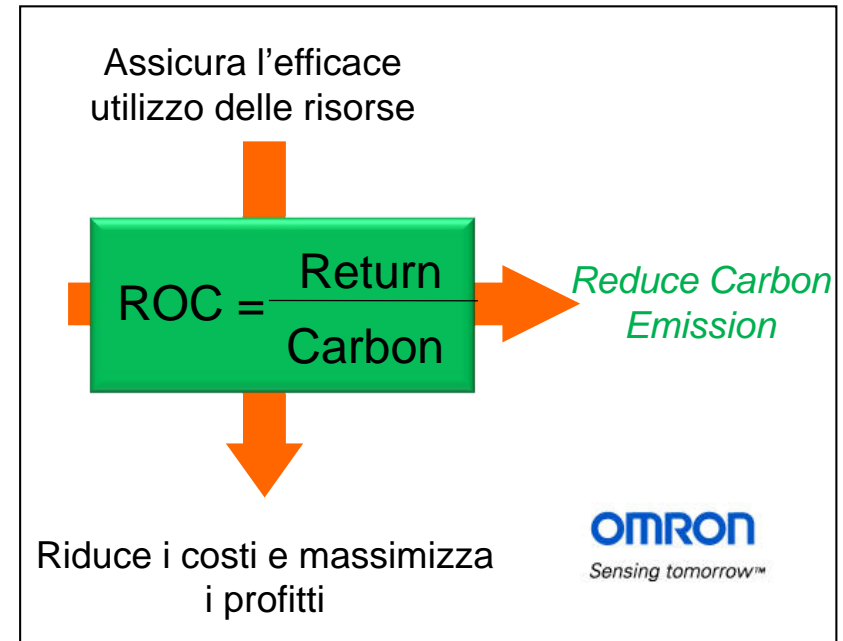
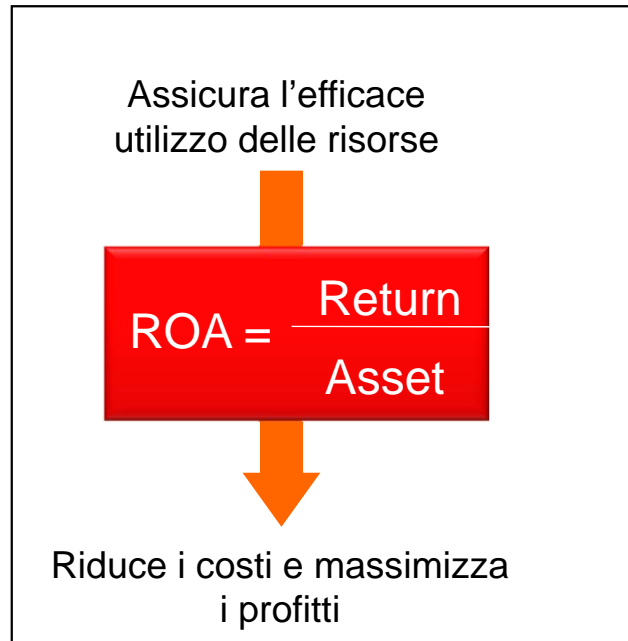
- Modellizzazione delle emissioni di CO2
- Analisi di diversi scenari in funzione degli obiettivi strategici
  - *Qual e' il piano di produzione e distribuzione ideale dato un insieme di vincoli ambientali?*
  - *Come dovrebbe essere disegnata la rete distributiva conseguente?*
  - *Quale fabbrica contribuisce maggiormente alle emissioni?*
- Analisi del rischio

# Un modello per la **Green** Supply Chain



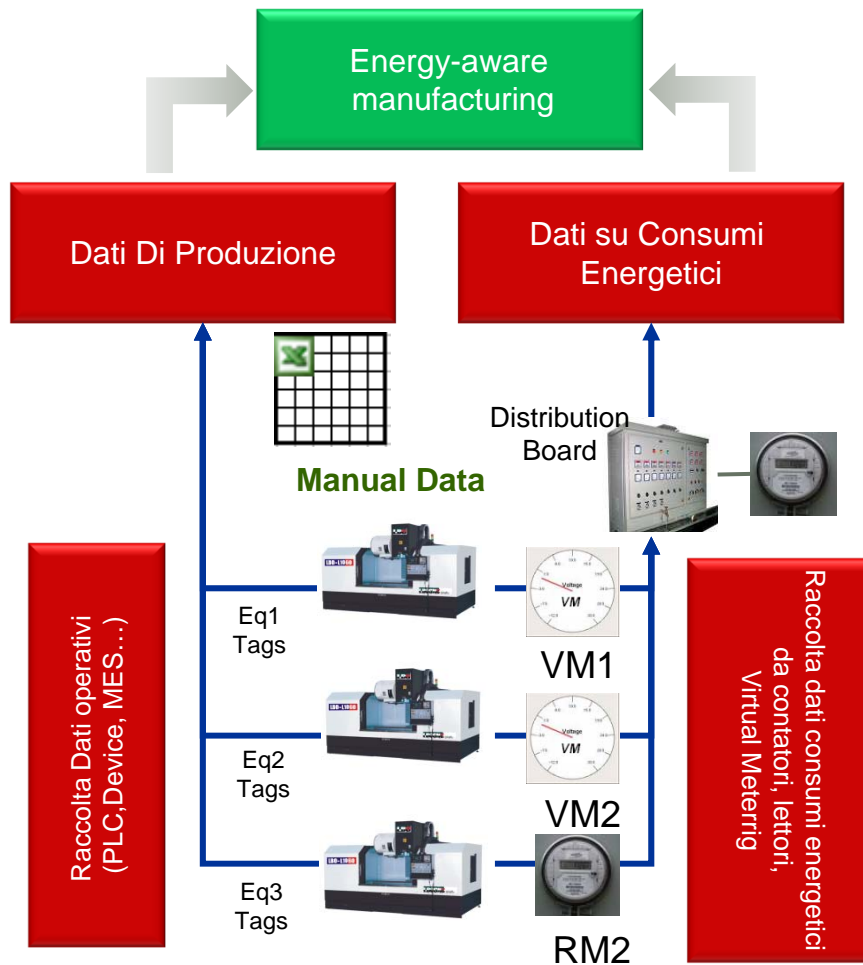
# La Trasformazione verso la Sostenibilita'

*Nuovi indicatori di performance*



\* ROC=Return on Carbon

# ...Verso l' Energy-aware Manufacturing



## Alcune Domande...



- La Sostenibilita' fa parte dei programmi della vostra azienda?
- Chi e' il Responsabile dei Programmi di Sostenibilita'?
- Dove arrivate nella misura del vostro Carbon Footprint?



# Il Rischio nella Supply Chain



## **Rischio:**

**Dopo aver speso anni in un approccio lean e riduzione di inventario, come minimizzare l'impatto di una "rottura" della Supply Chain?**

"Companies that manage their global ecosystems most effectively are as much as 73% more profitable than companies with less capable value chains."

– *Deloitte Consulting*

## Esempio di Rischio



**Trasporto Aereo: 2% per volume, 35% per valore**

**10.000 tonnellate di beni sono trasportati ogni giorno fra l'Asia e l'Europa**

**8ml.\$ di beni deperibili distrutto**

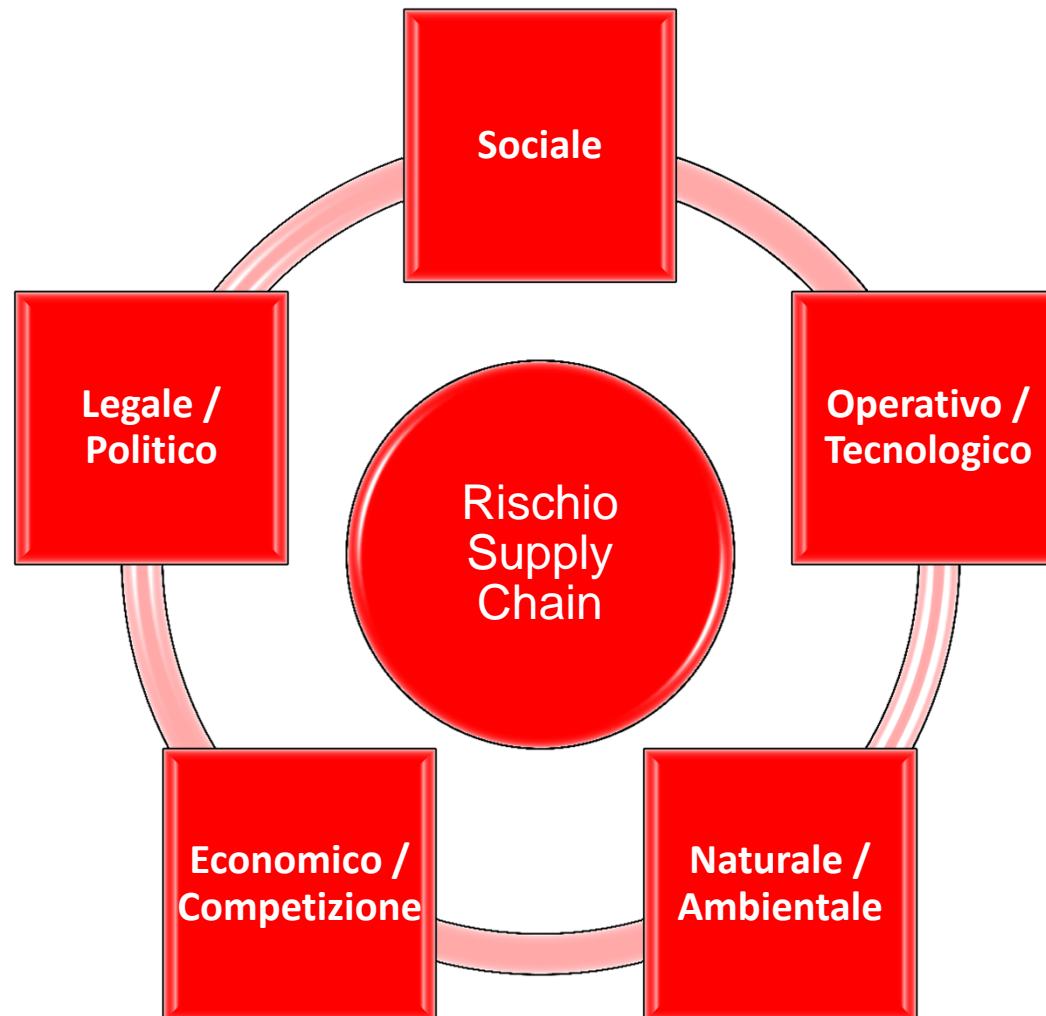
## Esempio di rischio



***“Ports handling as much as 7% of the country’s industrial output damaged, costing \$3.4bn in lost seaborne trade per day***

***Technology supply chain likely to be disrupted for 1-3 months”***

## Diverse origini di rischio...



# Trend Supply Chain e fattori di rischio

## *Ridistribuzione del rischio sull'intera Supply Chain*

**Globalizzazione**



*Rischio locale diffuso globalmente*

**Specializzazione**



*Processi efficienti a rischio di evento locale*

**Complessita' network**



*Riduzione visibilità e maggior latenza*

**Processi Lean**



*Efficienza vs. minori alternative in caso di rottura*

**Disponibilità informazioni**



*Dipendenza da flusso informazioni*

**Legislazioni**



*Trasporti e flussi logistici ostacolati*

Figure 3: Recent trends in supply chains

Trend	Example	Risk Impact
Globalization	Outsourcing, offshoring	Local concentrated risks become globally diffused, involving multiple actors
Specialization	Geographical concentration of production	Efficient process can be easily disrupted by localised event
Complexity	Product/network complexity	Reliance on multiple parts/players in diverse locations reduces visibility and adds latency into monitoring systems
Lean processes	Single sourcing, buffer stock reduction	While initially efficiency is improved and costs are lowered, fewer alternatives in case of disruption
Information availability	Track and Trace	Systems increasingly reliant on information flow
Government legislation	Air cargo screening, C-TPAT	Measures can impede efficient flow of supply chain and transport networks

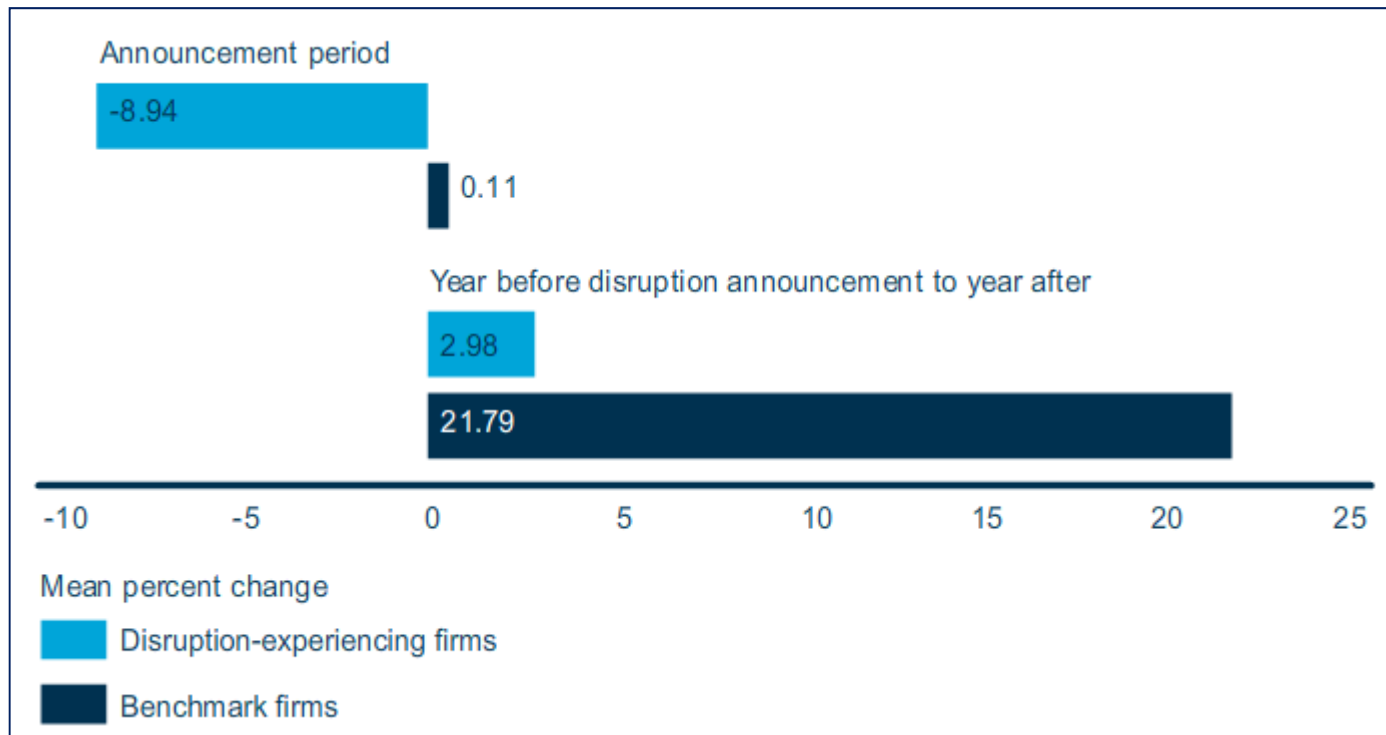
Source: World Economic Forum and Accenture research; expert group findings

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Source: New Model for Addressing Supply Chain and Transport Risk, World Economic Forum 2012

# L'impatto di una rottura sul valore di mercato

*....l'inevitabile collegamento fra Supply Chain e Finance*



Impact on share price and stock price performance of 600 US public companies that announced supply chain disruptions between 1998 and 2007

Source: PwC, 2008: From Vulnerable to Valuable: How Integrity Can Transform a Supply Chain

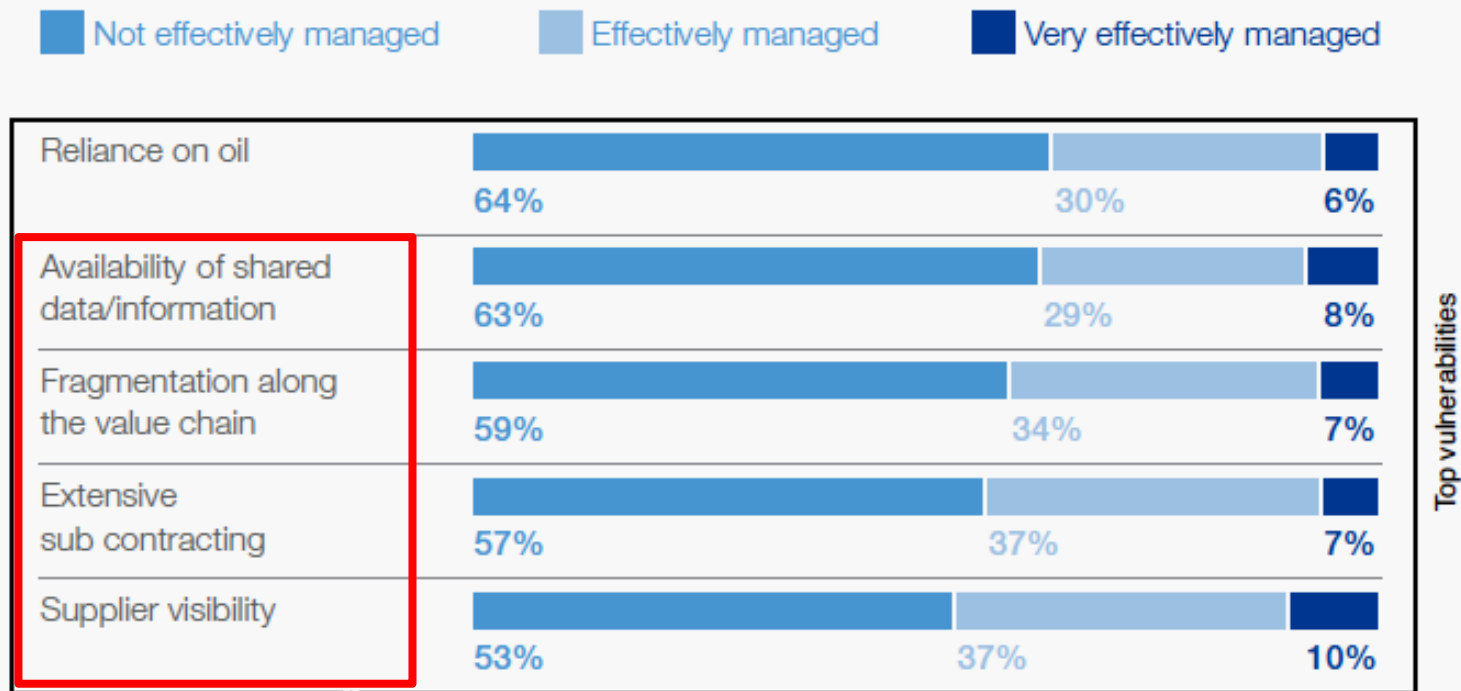
<http://www.pwc.com/us/en/supply-chain-management/publications/disruptions-shareholder-value-chart.html>



# L'efficacia nella gestione dei rischi

## Le maggiori vulnerabilità

### Componenti di rischio delle Supply Chain gestiti meno efficacemente



“Quattro delle cinque maggiori aree di vulnerabilità sono relative a **visibilità** e **controllo** di lunghe e complesse supply chain. Tre delle cinque maggiori vulnerabilità riguardano la gestione di **multipli attori** nell'ecosistema”

# Progetti per mitigare il rischio

*Visibilit , Network Design, Collaborazione*

2013			2012		
1	Supply chain visibility improvement	+2 ▲	1	Operational excellence	
2	Reducing environmental footprint	New ★	2	Contract renewal with Logistics Service Provider (LSP)	
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10	Improve long term forecasting/ planning	-5 ▼	10	Supply chain collaboration	

Source: Capgemini Consulting Report – The 2013 Supply Chain Agenda



## Alcune Domande...

- Quali sono i rischi principali che potrebbero impattare la Vostra Supply Chain nei prossimi anni?
- Quali passi sta intraprendendo la Vostra azienda per mitigare i rischi per la Supply Chain?
- Chi e' il responsabile per la gestione del rischio? E' una responsabilita' interna o esterna?
- In che misura la visibilita' vi aiuta a mitigare il rischio sulla Supply Chain?

# Conclusioni





# Conclusioni

## *Benefici di Business....*

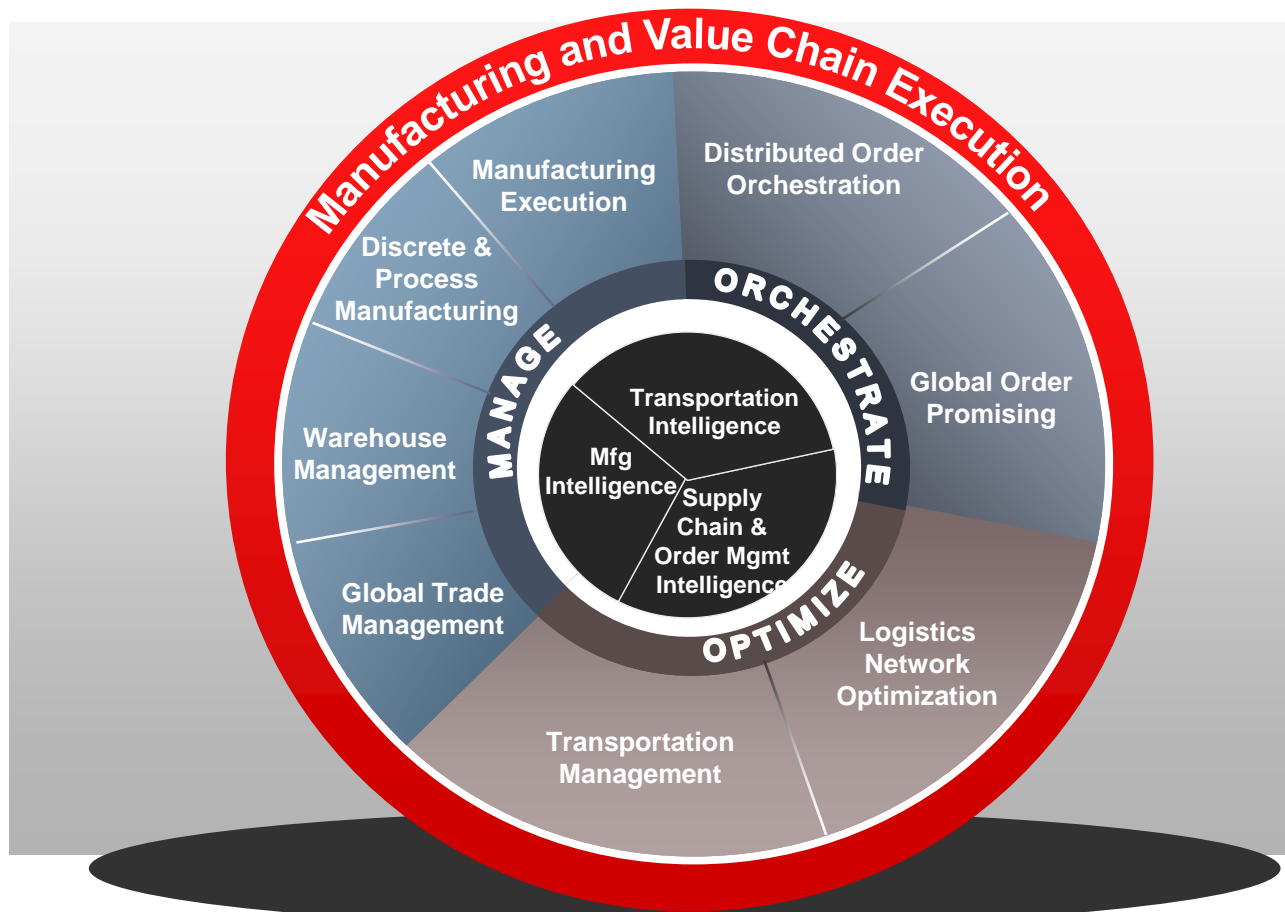
### **Le aziende con piattaforme best in class...**

- Spendono meno nella Supply Chain
- Forniscono un piu' alto livello di servizio
- Hanno migliori informazioni per prendere decisioni
- Collaborano e integrano la supply chain con i processi interni e i partner commerciali
- Modellano l'impatto del rischio, della sostenibilita' e della profittabilita' sulle loro Supply Chain

# Conclusioni

*.....e abilitatori ai benefici*

## Oracle Value Chain Solutions



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