

**Big Data for the Little Guy:
*What's in it for the rest of us?***

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LIFT-IT Big Data Panel

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Big Data for the Little Guy: *What's in it for the rest of us?*

- Not every company deals with “big” data.
- But every company can use data and analytics to make better decisions and transform your business
- There's no “magic” solution
 - The answer won't just “pop out” of a Business Intelligence tool
- How do you get started?

Ask a few key questions

1

What business questions are you trying to answer?

2

What data do you need to answer the questions?

3

How can you visualize the data to gain insight?

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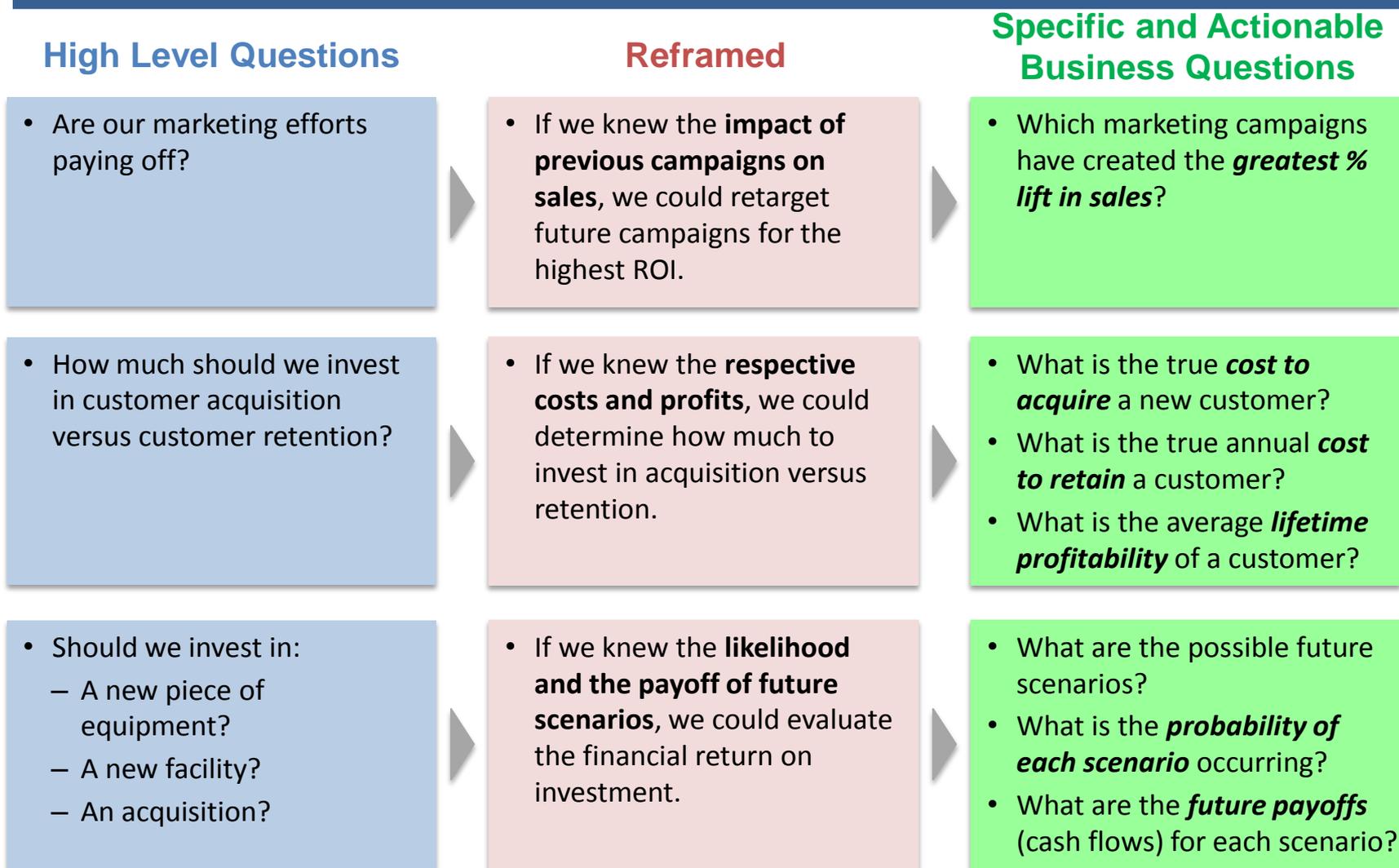
3

How can you visualize the data to gain insight?

What business questions are you trying to answer?

- If we only knew _____ , we could _____
- The more specific and actionable the better

A few examples of reframed questions



Client Example: Inventory Management

- Objective of the process
 - Determine how much inventory we want on the shelf...
 - ... to meet customer service requirements (limit backorders)...
 - ... with a reasonable investment (don't buy too much)
- The issue?
 - Client did not measure customer service levels (fill rates)
 - Client did not measure inventory turnover or holding cost
- Reframe with a data-driven approach:
 - If we knew our current and target fill rate and inventory turns by category, we could reallocate inventory to optimize cost and service
 - What are our current customer service and inventory turns by category?
 - What are our customer service and inventory targets by category?
 - Where are we over-invested? Where are we under-invested?

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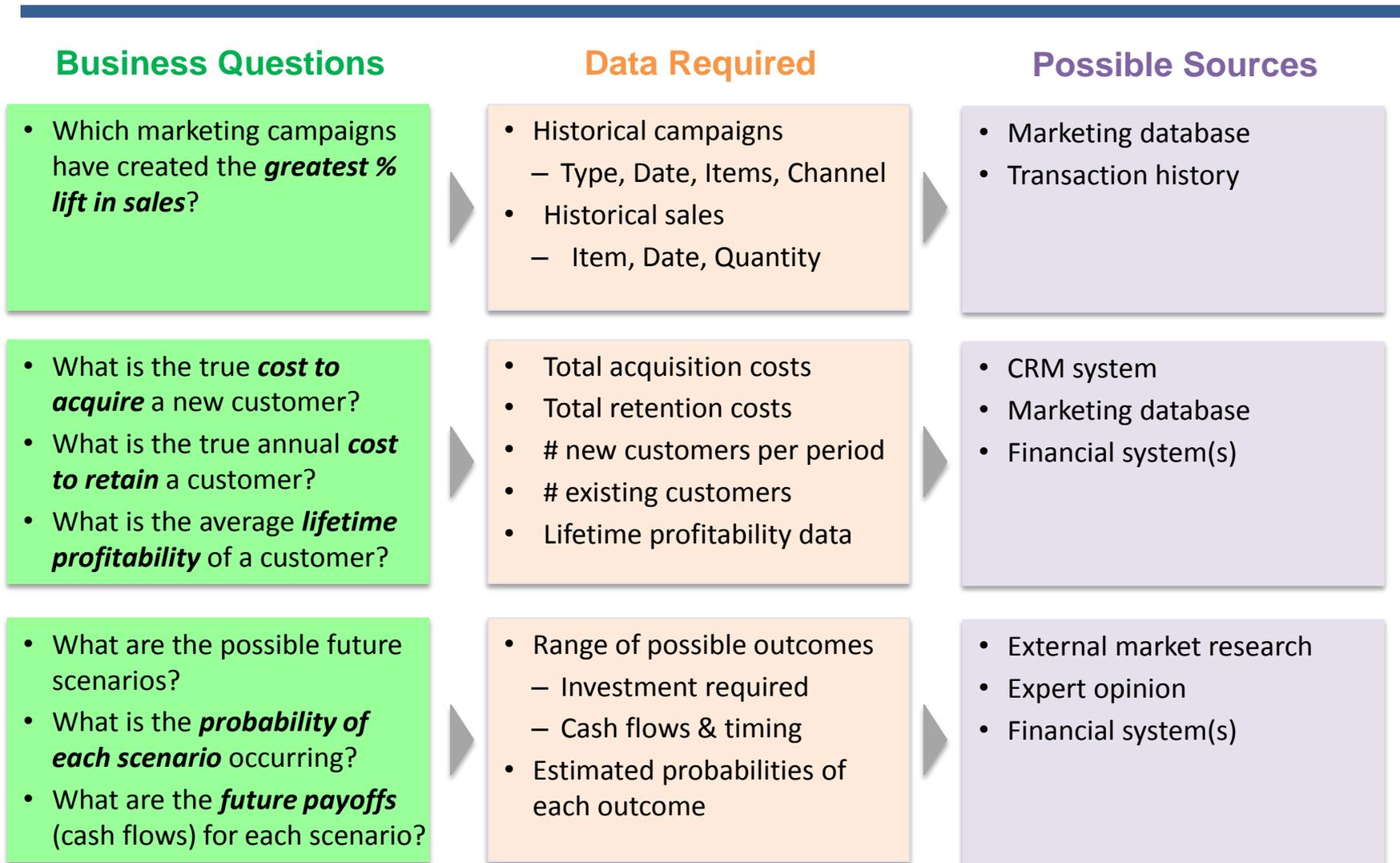
3

How can you visualize the data to gain insight?

What data do you need to answer the questions?

- What type of data?
 - Sales?
 - Costs?
 - Supplier information?
 - Market information?
- Do you have the data in your systems?
 - Don't wait for “perfect” data
- If not, how can you get it?
 - Start tracking it internally
 - Find an external source

Continuing our previous examples...



Client Example (continued)

Business Questions

- **What are our current customer service and inventory turns by category?**
- What are our customer service and inventory targets by category?
- How should we reallocate inventory to meet those targets?

Data Required

- Transaction history
 - Item
 - Requested ship date
 - Available inventory
- Historical sales data
 - Item
 - Quantity
 - Date
 - Cost of Sales
- Inventory data
 - Item
 - Quantity on hand
- Item categories

Possible Sources

- **New** transaction snapshots for fill rate data
- ERP / sales history
- **New** inventory snapshots
- Web site database

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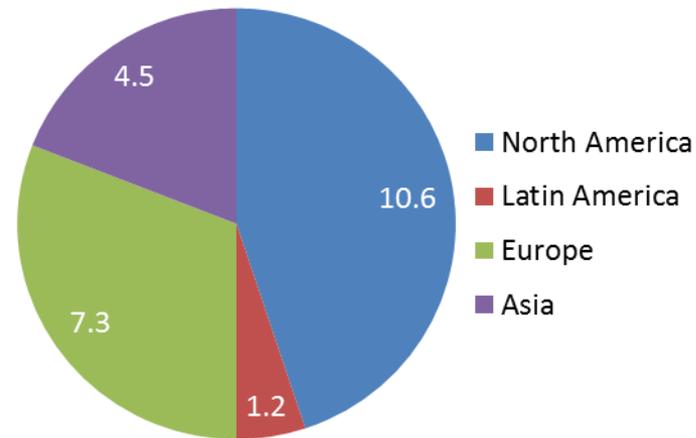
- What are the key dimensions that matter?
- How can the data be categorized or segmented?
- What type of visualization will help you see relevant patterns?

Which is more useful? More efficient?

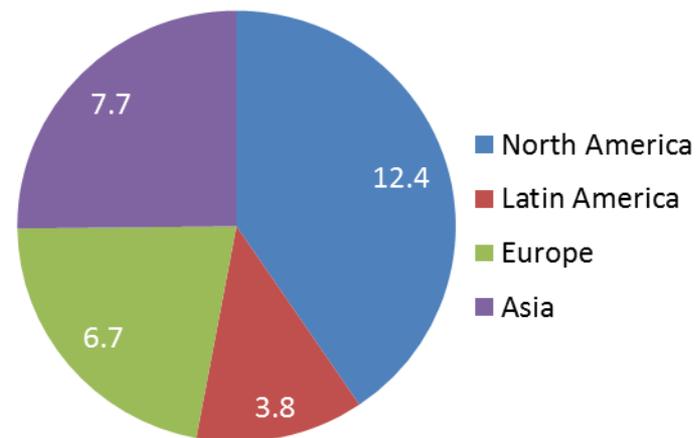
Region	2002 Sales (\$M)	2007 Sales (\$M)	2012 Sales (\$M)	2017 Proj. (\$M)
North America	8.0	10.6	12.4	13.0
Latin America	0.1	1.2	3.8	6.0
Europe	8.5	7.3	6.7	4.0
Asia	1.3	4.5	7.7	16.0
Total	17.9	23.6	30.6	39.0



2007 Sales (\$M)

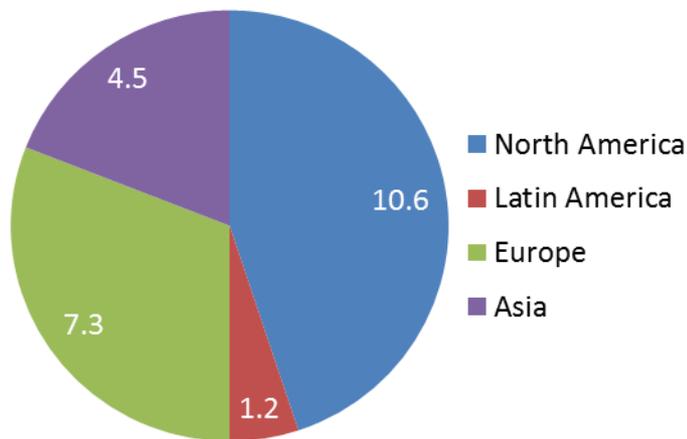


2012 Sales (\$M)

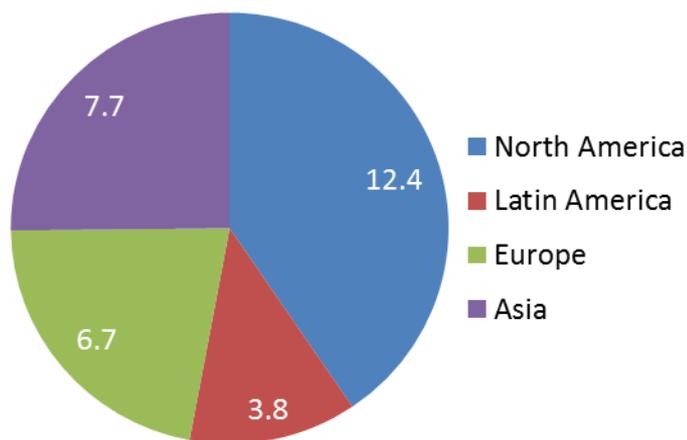


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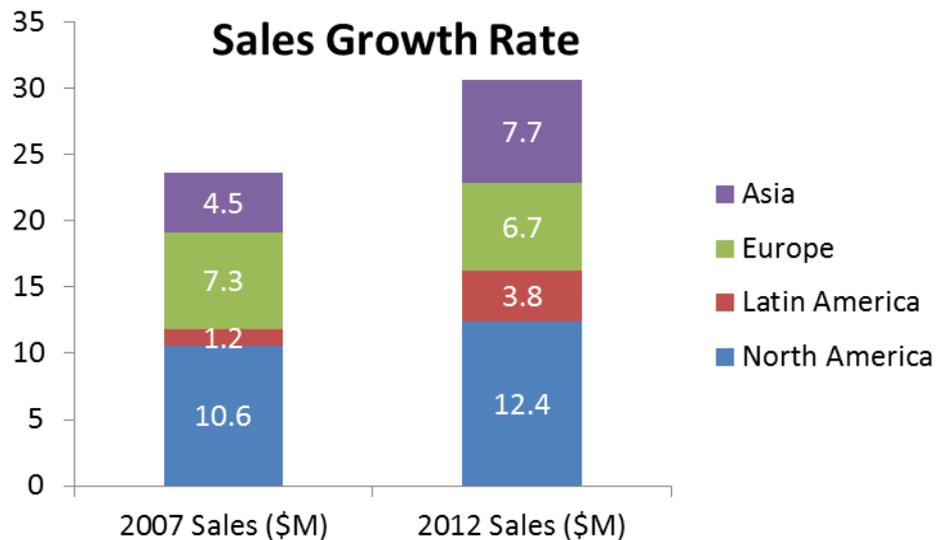
2007 Sales (\$M)



2012 Sales (\$M)

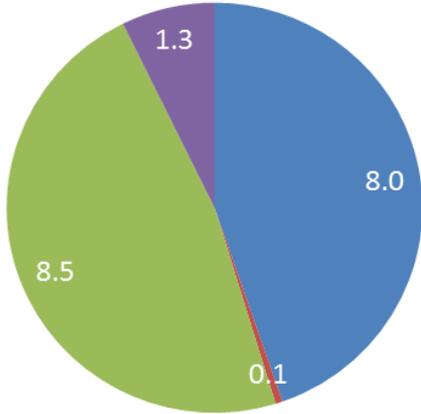


Sales Growth Rate

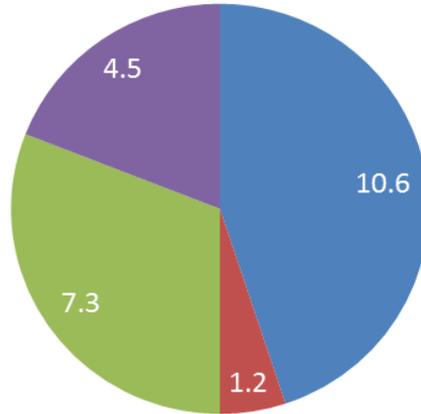


How about now?

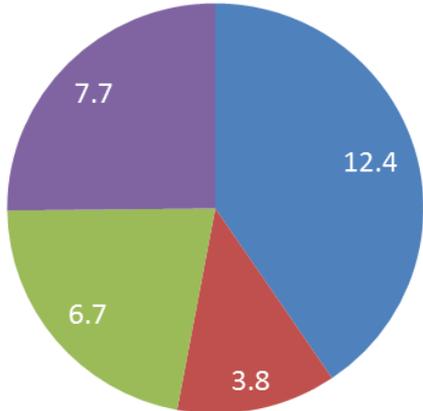
2002 Sales (\$M)



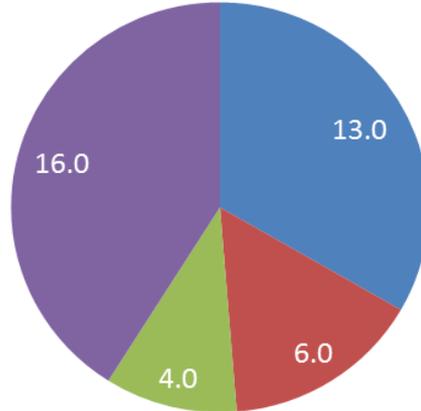
2007 Sales (\$M)



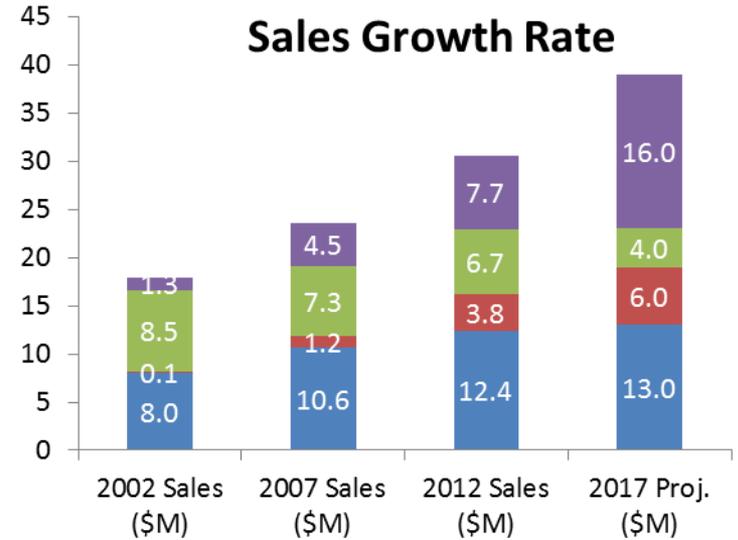
2012 Sales (\$M)



2017 Proj. (\$M)

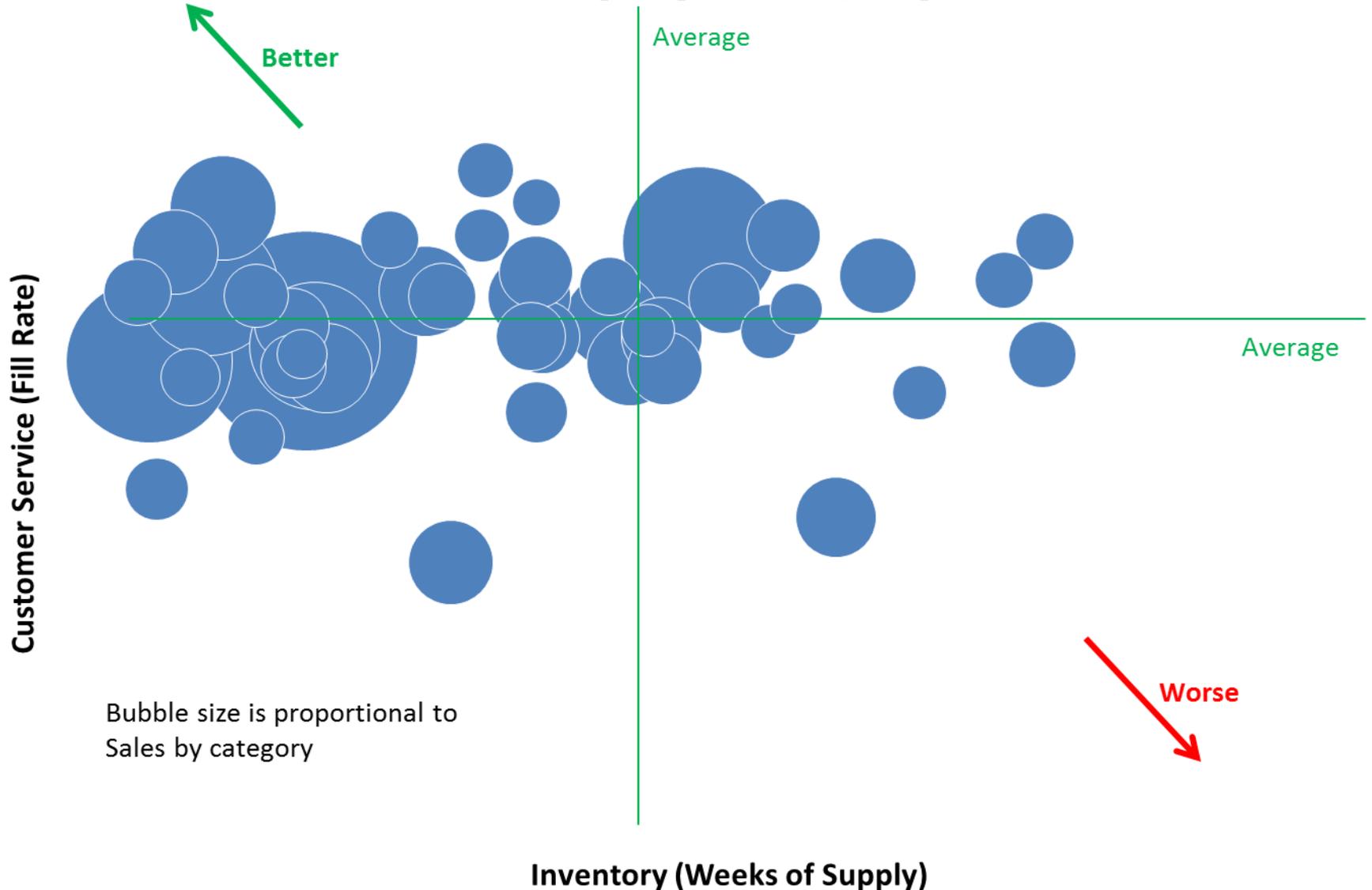


Sales Growth Rate



- Asia
- Europe
- Latin America
- North America

Client Example: Service versus Inventory by Category



In closing...

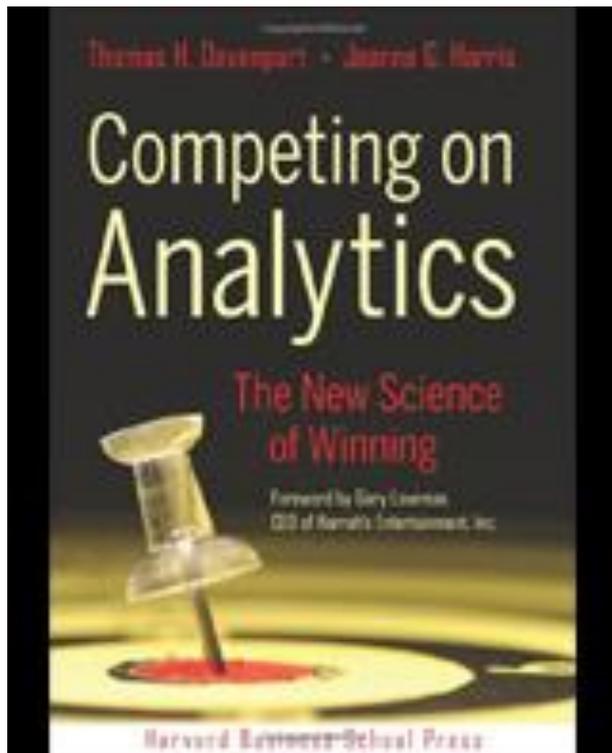
- Data without analysis is nothing...
- Analysis without insight is nothing...
- Insight is everything

Recommended Reading

COMPETING ON ANALYTICS

The New Science of Winning

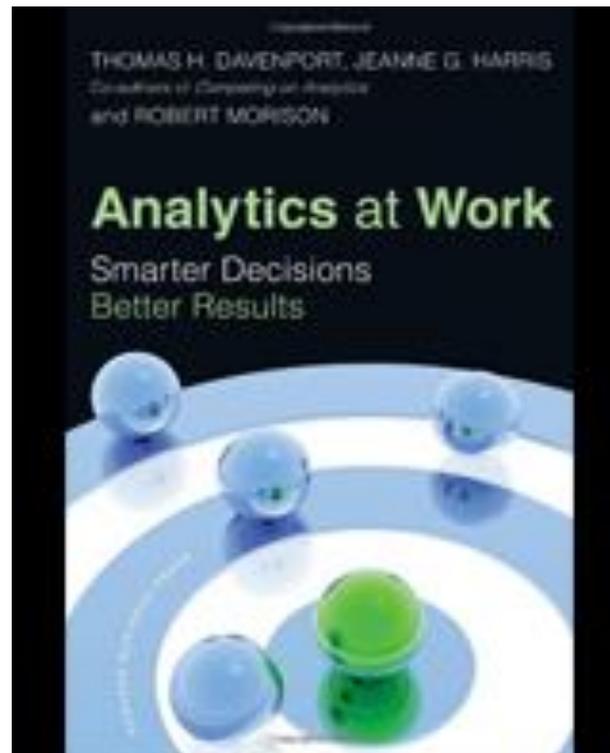
Thomas H. Davenport, Jeanne G. Harris,
2007



ANALYTICS AT WORK

Smarter Decisions. Better Results.

Thomas H. Davenport, Jeanne G. Harris,
Robert Morison, 2010



Thank you!

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