

Our time today. Answer...

- Who makes decisions and how do they make them?
- What will **the journey** to improve decision-making look like?
- What's going to help make good decisions?
 - the deliverables, experiences, feelings, etc.
- What are the **underlying processes**?
 - Data-to-Change
 - Forecasting, Planning, Analytics, Reporting (Big Data)
 - Strategic, Operational, and Technological Workstreams
 - Governance
- What model/framework will prove helpful? Example.
- Review and discuss what we learned.



Why are we doing analytics?

Who are we doing it for?

What value can/should it deliver?

Do we know the business problem we're solving for?

Are we searching for a disruptive innovation?

What if we, as leaders,...

had the insight we needed when we needed it?

 created product, service, and pricing strategies that optimized sustainable profitability?

• inspired the individual, team, and organizational change we desired?

"What if..."

What does being awesome at this look like?

Can we make it happen?

Yes!

"The beginning of wisdom is calling things by their right names."

- Chinese proverb

What's all this About?

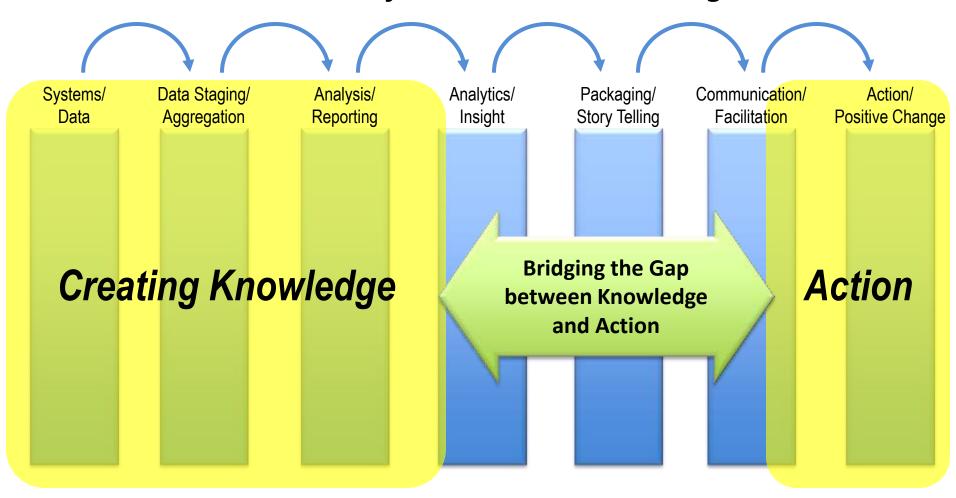
- Improving Performance
- Reducing Risk

The Deliverable?

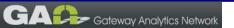
Insight

The Data-to-ChangeTM Process:

Do Actions Reflect Data-Driven Insight?

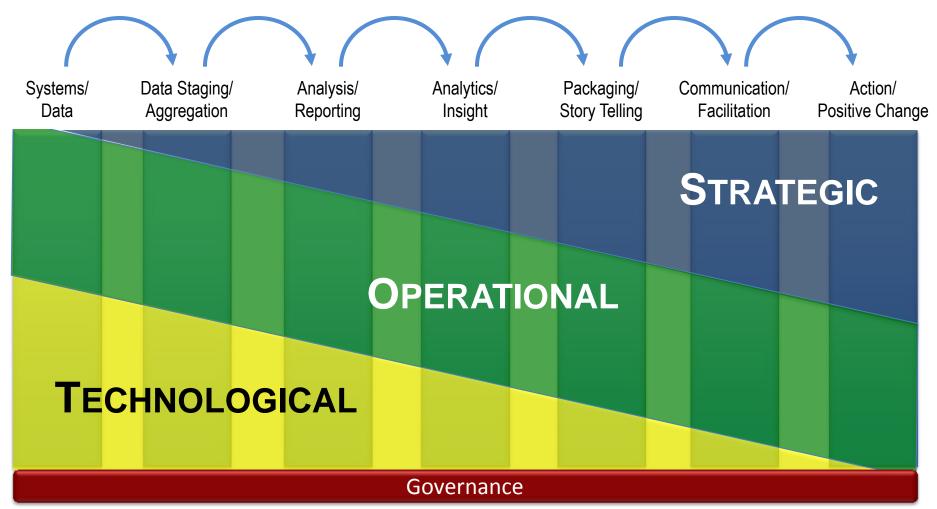


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The Data-to-ChangeTM Process:

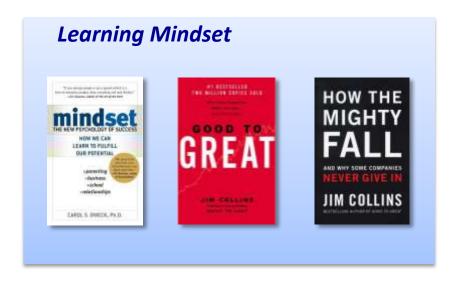
Do Actions Reflect Data-Driven Insight?

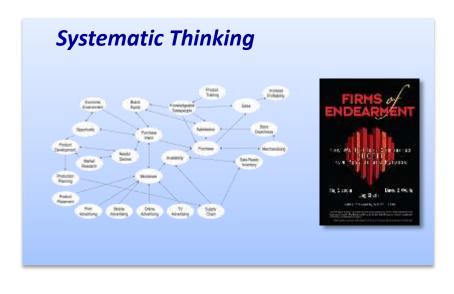


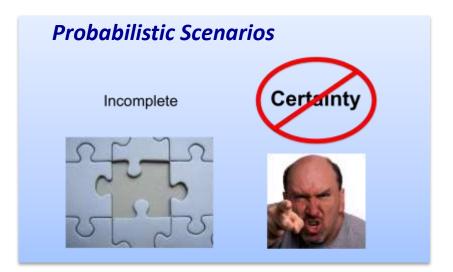
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Critical Attributes of Modern Analysts









Driving Change...

Direct the Rider

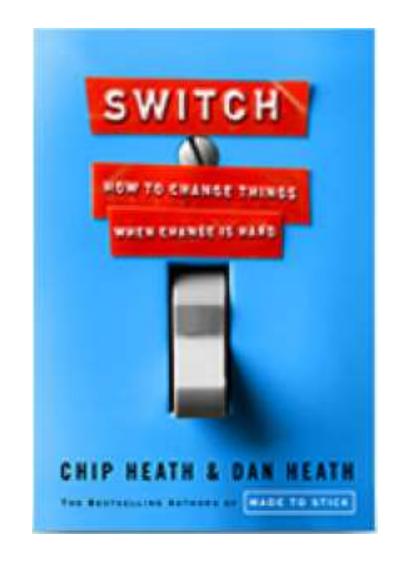
= Data + Context

Motivate the Elephant

= Visualization + Communication

Shape the Path

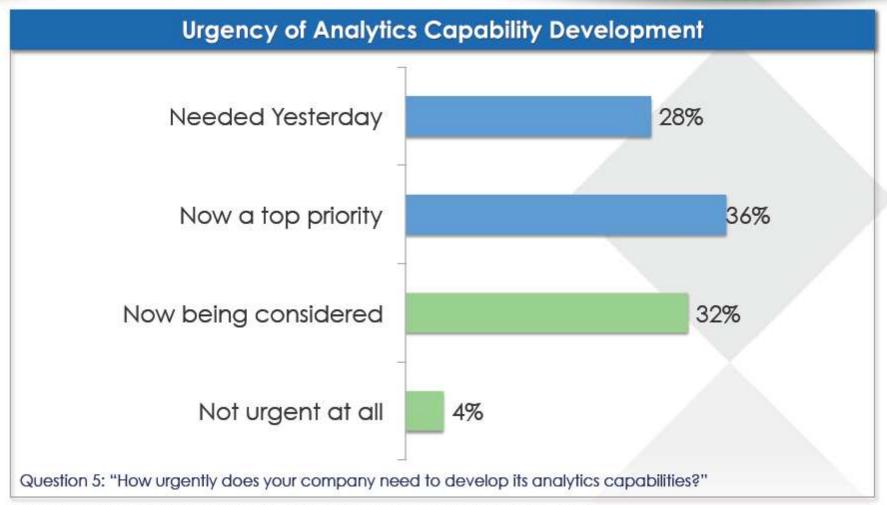
= Where we're going + How we going to get there



Objectives

Educate Inspire Clarify

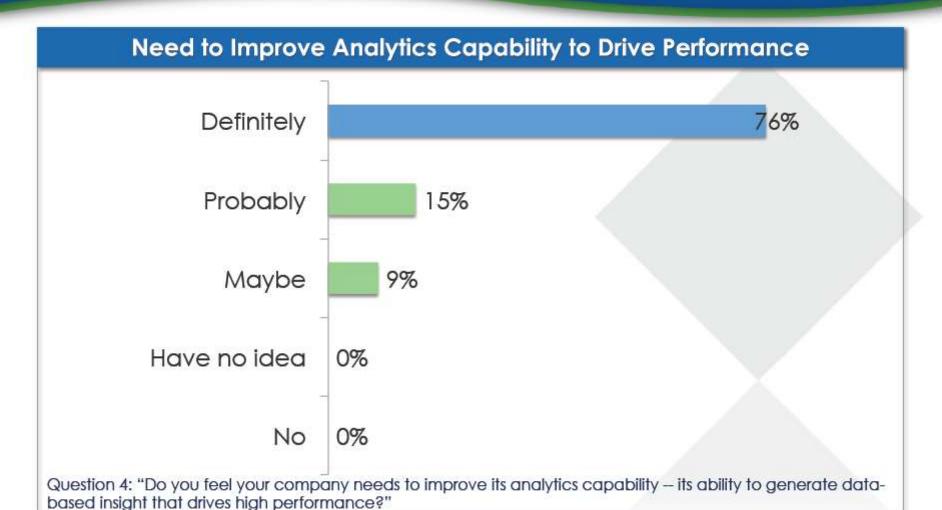
Nearly 2/3 (64%) said their company needs to develop analytics capabilities urgently. 28% said "Needed Yesterday" and 36% said "Now a Top Priority".







Three-quarters (76%) said their company "Definitely" needs to improve it ability to generate insights that drive high performance



Source: PIVOT Strategic Marketing 2014 Analytics Capability Development Survey



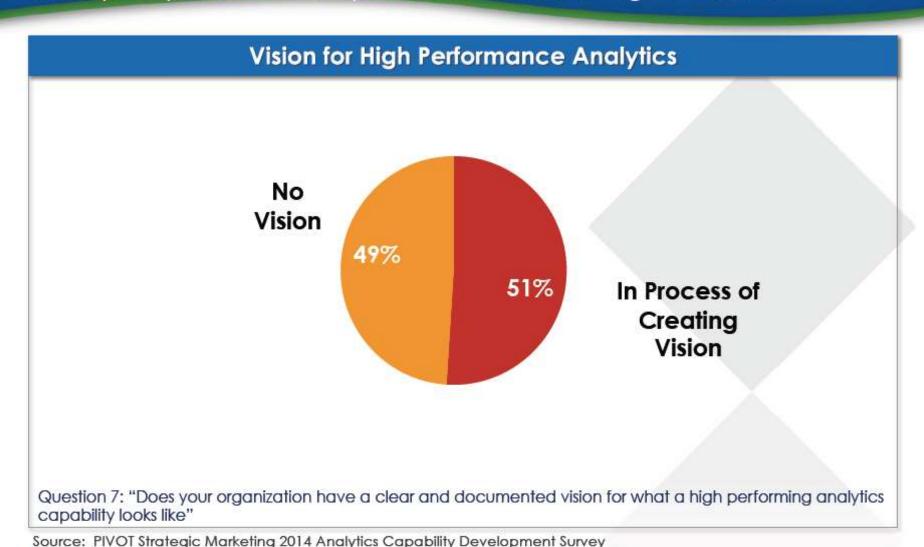
70% say they are pretty far (51%) or super far (19%) from "world class" analytics organizations



Source: PIVOT Strategic Marketing 2014 Analytics Capability Development Survey



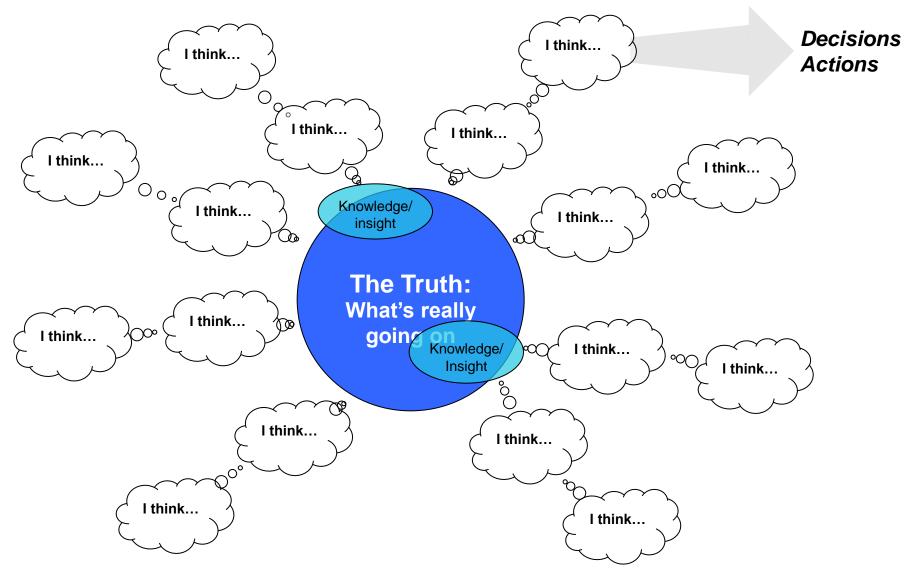
NO respondents said they had a clear vision for high performing analytics capabilities. 51% said their company was in the process of creating a vision.



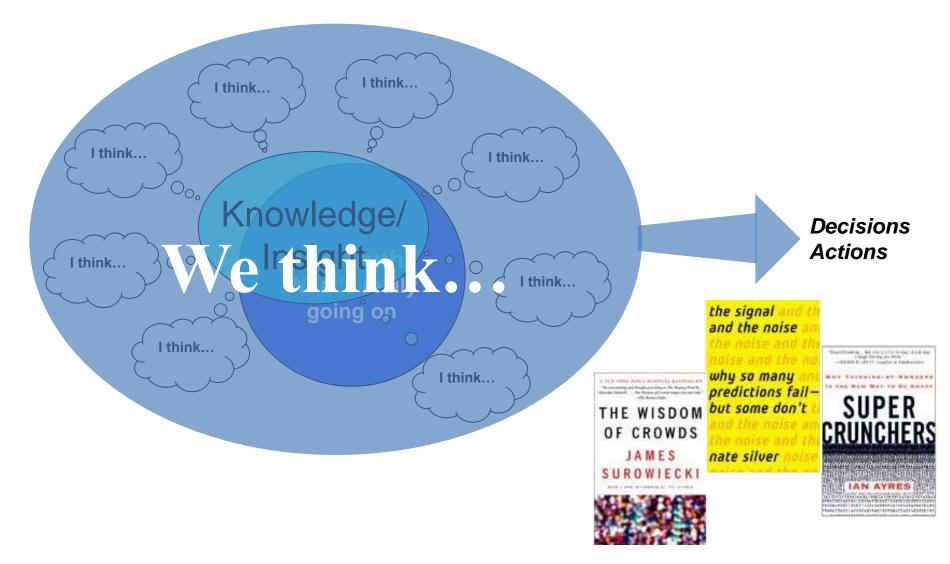




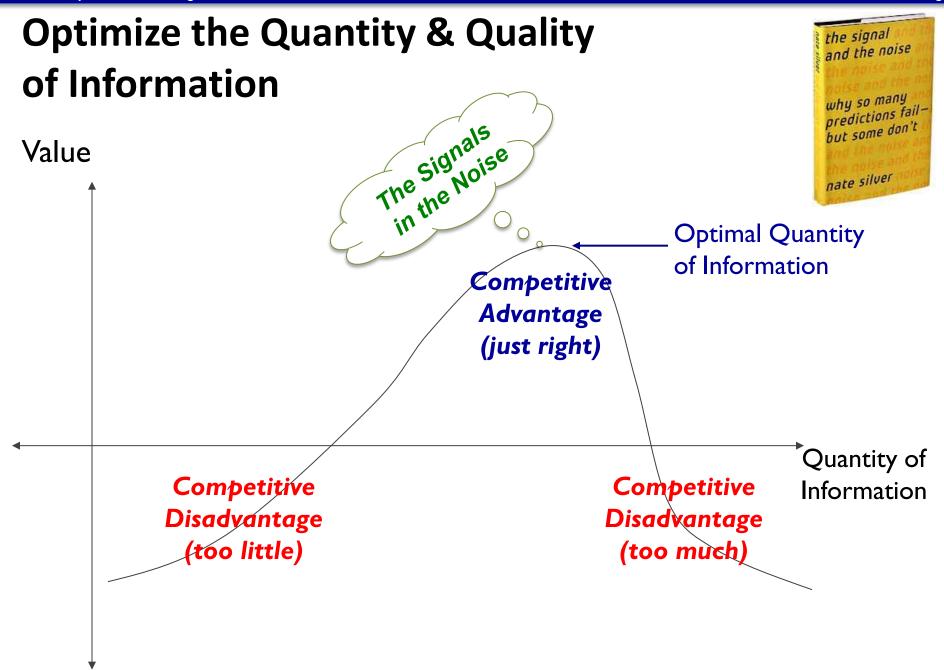
What's going on? Why? And what to do?



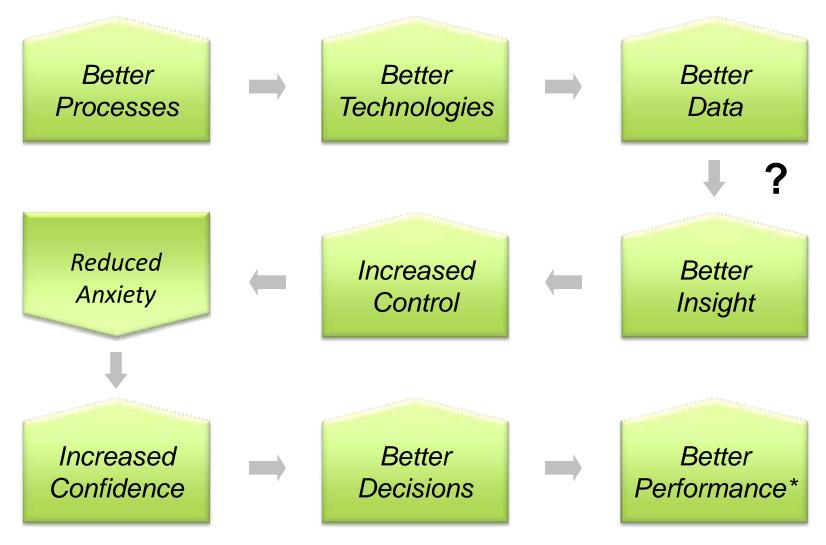
What's going on? Why? And what to do?



GA Codeway Analytics Network

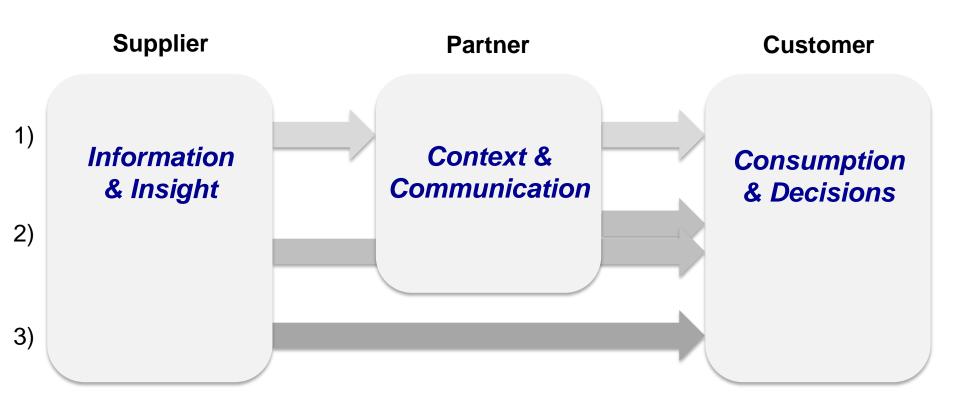


The Value Proposition



* individual, team, and organizational

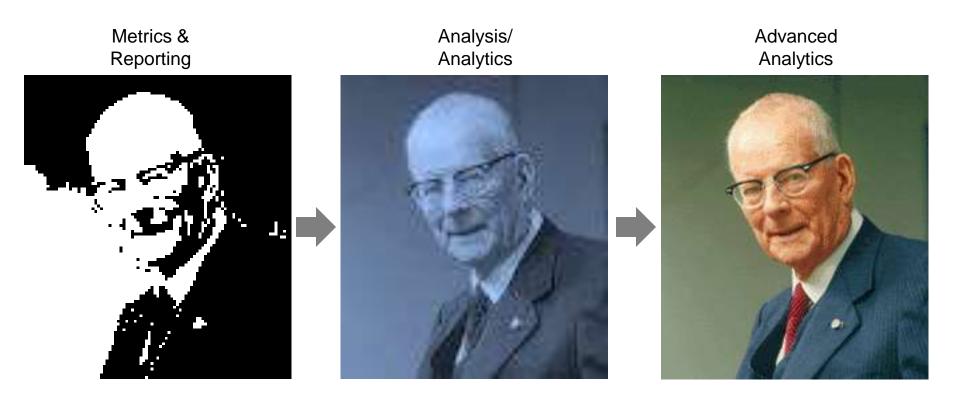




Confidence

"The feeling or belief that you can rely on someone or something to perform in a certain way at a known time in the future; firm trust"

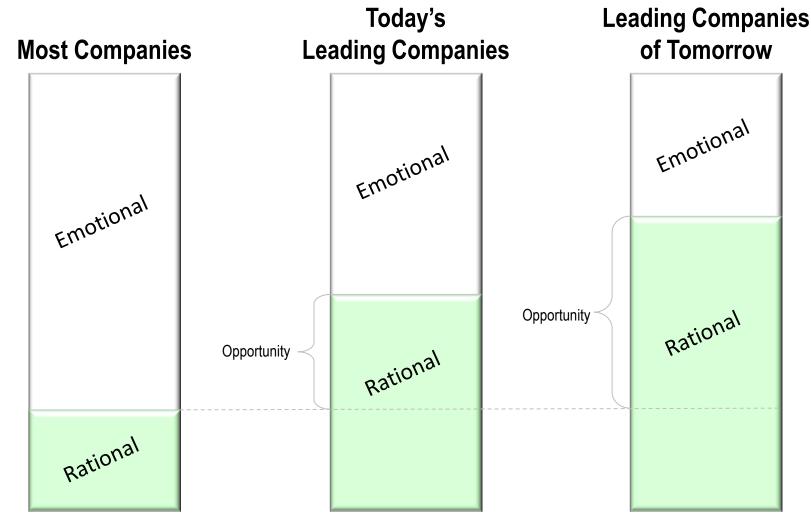
Moving from Vagueness to Clarity



"In God we trust. All others bring data."

Decision Making

Evidenced-Based Decision-Making



[&]quot;Opportunities abound to employ simple analytic methods to marginally or substantially increase profitability, especially in large businesses..."

Dr. Gary Loveman, Chairman of the Board, President and CEO, Harrah's Entertainment, Inc.

What Can Be Done Now?

Value/Impact



What Can Be Done Now?

Advanced Analytics

- What can be leveraged? Risk?
- What's the probability of success?
- Predictive Modeling/Optimization
- Linkage Research, Regression

Planning & Analysis

- Where did things happen and why?
- What's the plan and why?
- · Forecasting, Scenario Planning
- Cluster Analysis, Data Mining, ROI

Metrics & Reporting

- What is happening?
- Where is it happening?
- Scorecards, Recurring Reports
- Ad hoc Reports

Time/Effort



Analytics Maturity Progression

Value/ Impact

Analytics Hopeful

Analytics Doer

Analytics User Analytics Competitor

Stage 1: Get Data Right

Right Create C

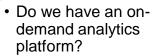
Stage 2: Create Context Stage 3: Use Insight

Stage 4: Operationalize Insight

When Yes ->



When Yes



- Are those doing analytics influencing change?
- Are insights being used in the field?
- Are dashboards w/ meaningful metrics (KPIs) being used?

- Do I have good data to work with?
- If not, what must I do to improve it? Improve it.
- Do I have the people in place to perform analytics?
- Do I have the necessary technologies?

- Can we aggregate and structure data in a usable way?
- Do we have people experienced in analytics?
- Do key metrics now have a story around them?
- Is there a growing demand for insight?

- Insight is repeatedly used to formulate Product & Business Strategy.
- Insight is repeatedly used by Managers in the field.
- Insight is obtained quickly & accurately from an on-demand platform.

Time

Analytics Maturity Progression

Value/ **Impact** Analytics Hopeful

Analytics Doer

Analytics User

Analytics Competitor

Stage 1:

Get Data Right

Stage 2:

Create Context

Stage 3:

Use Insight

Stage 4: Operationalize Insight

- Do I have good data to work with?
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Time

The Decision Sciences of Business

Marketing

Discipline Decision Science

Key Activities

Technology -> Information Mgmt.

Research

Financial Planning

& Analysis (FP&A)

Market & Customer

Operations Research &

Process Optimization

Workforce Planning &

Analytics (WP&A)

Infrastructure, Data

Govern. & Publishing

Accounting

Operations

Sales

HR

Finance

Supply Chain Mgmt.

Talent Management

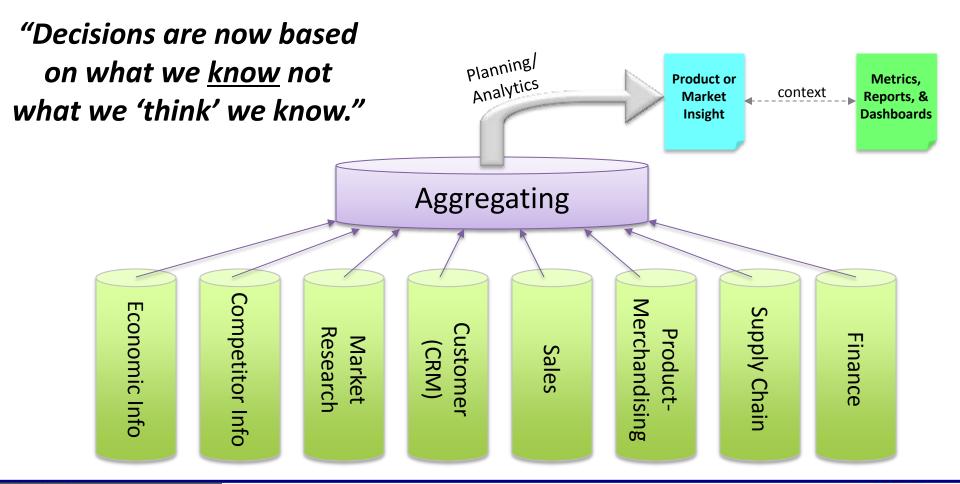
June 9th, 2014

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GA Costeway Analytics Network

Aggregating & Analyzing Data

Most organizations (nearly all) do not extract a level of value from their IT investments commensurate with the money, time, and effort devoted. Analytics & Advanced Analytics helps organizations maximize the value derived from IT investments (a.k.a. "data assets"). In turn, the insight generated serves as a unique, hard-to-replicate competitive advantage as leaders are able to make more effective decisions.



The 8 Steps to Generating & Communicating Data-based Insight

- Understand the needs of the internal customer (begin with the end in mind)
- 2. Audit available data
- 3. Stage it for analysis/analytics
- 4. Analyze it
- 5. Visualize it
- 6. Package it
- 7. Communicate it
- 8. Facilitate change with it (put forth a position or recommendation)

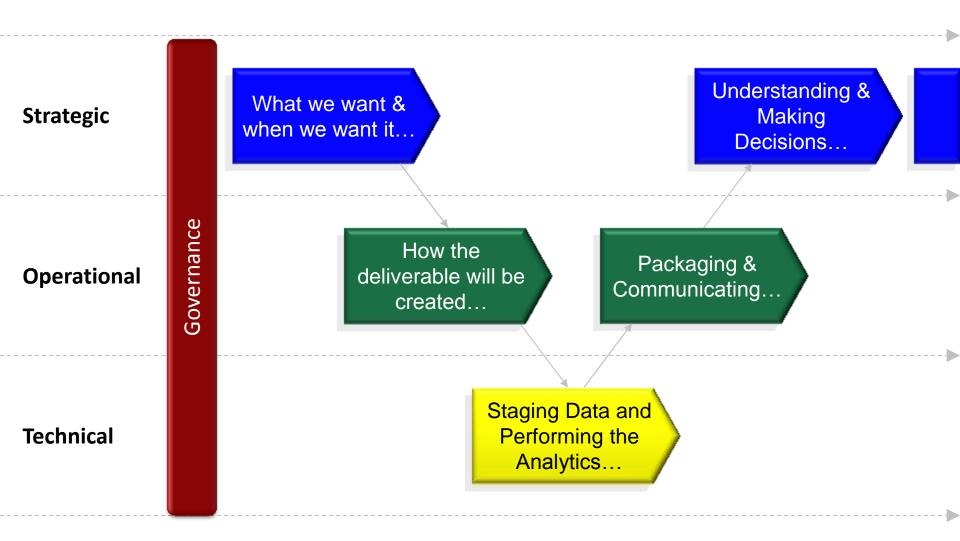
A Few Notes on this Thing Called Big Data

"Big Data are high-*volume*, high-*velocity*, and/or high-variety information assets that require new forms of processing to enable enhanced decision making, insight discovery, and process optimization."

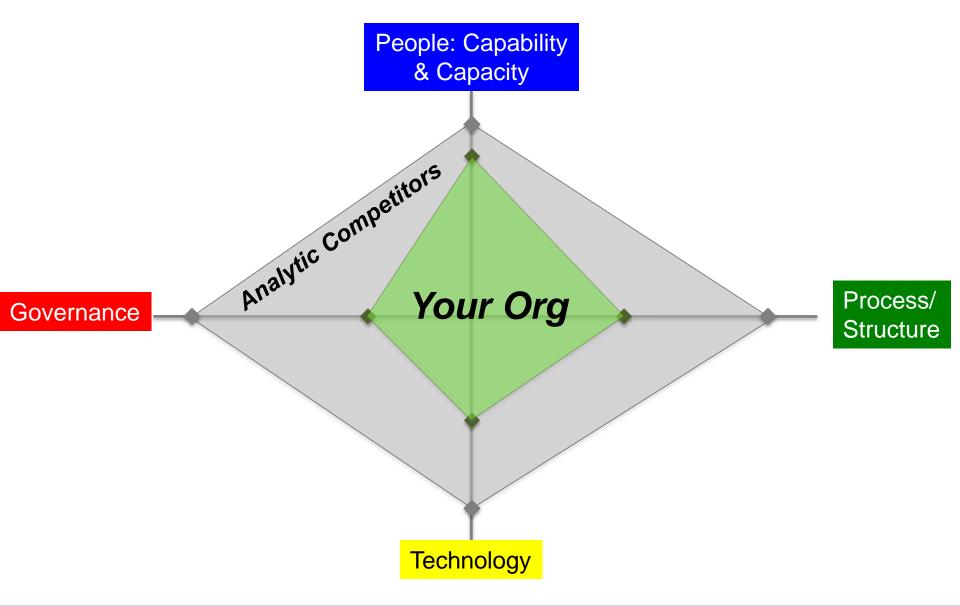
Gartner Research, 2012



Three Work-streams



Analytics Maturity Model



Analytics Framework: The Mental Model

The Balanced Scorecard



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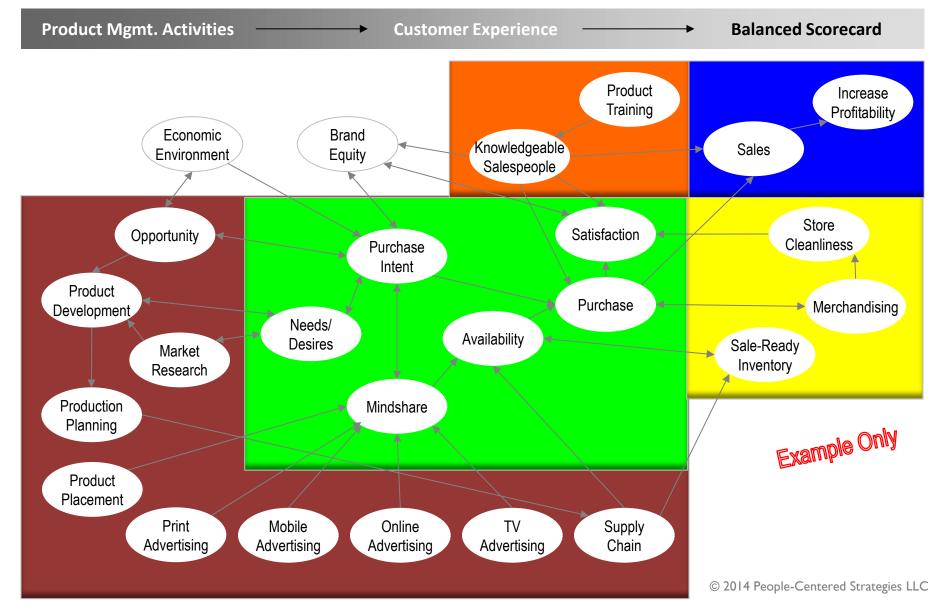


The Enterprise Linkage Model[™]



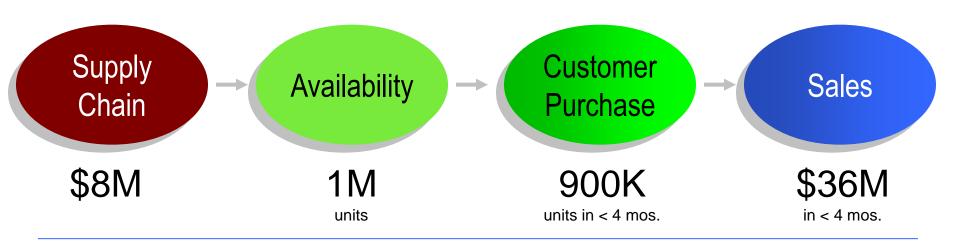
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The Enterprise Linkage Model™

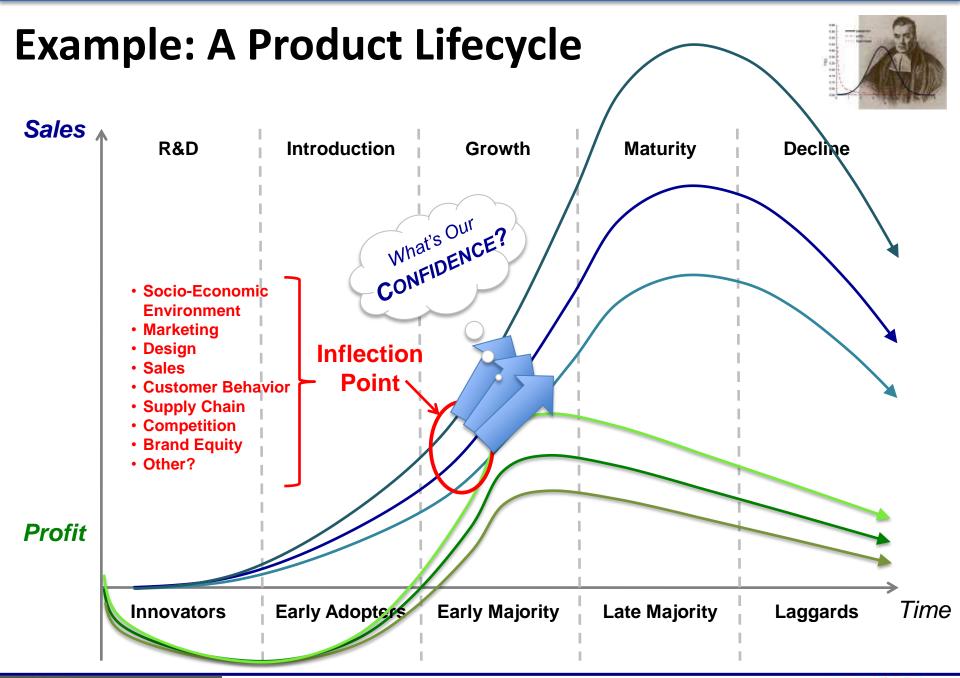


Dynamic Learning through Story





An initial \$8M investment in **Product A** produced 1 million units. These units were available for purchase in-store and online beginning October 2012. The perceived availability of product among desired customer segments, emphasized by marketing efforts, elevated mindshare and purchase intent which, in turn, led to 200K units being sold in the first month, followed by 250K in the second, 300K in the third, 150K in the fourth, 125K in the fifth, and 145K in the sixth. Due to strong initial sales, an order of 1.2M units was initiated at the beginning of December, in time for the inventory to be replenished early in the new year. With an 80% degree of confidence, mindshare of product functionality and design (derived from marketing) and perceived product availability (derived from customer surveys) were the primary factors in driving actual purchase behavior. These factors proved to be collinear, thus potentially co-dependent.



Tools of the Trade

Statistical Tools: SAS, SPSS, R, Minitab

Spreadsheets, Simple Database Applications: Excel, Access, etc.



Business Intelligence:
Business Objects,
Cognos, Hyperion, MS
Analytics Services, etc.

Tools for Planning & Analytics

Data Visualization:
Advizor, Corda,
DSPanel, Tableau,
Spotire, Qlikview

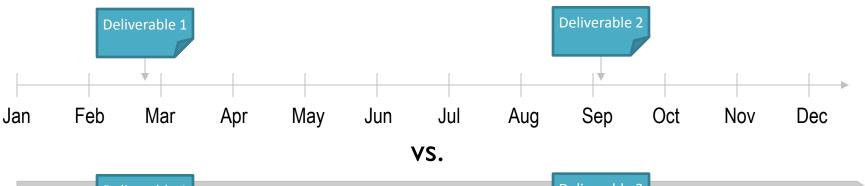
Enterprise
Applications:
Oracle, SAP,
Lawson

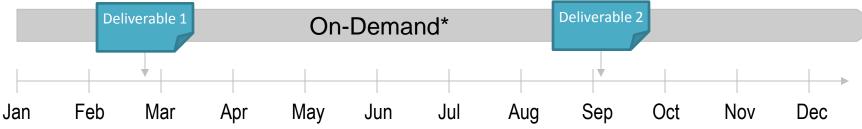
Reporting Solutions: Actuate, Crystal, Xcelsius, etc.

Event-Driven Process vs. Ongoing Capability

- ⇒ Prioritize Research Agenda
 - ⇒ Formulate Hypotheses
 - ⇒ Aggregate and Stage Data
 - ⇒ Perform Analyses
 - ⇒ Package Deliverable
 - ⇒ Socialize Findings & Recommendations
 - ⇒ Present & Communicate Deliverable

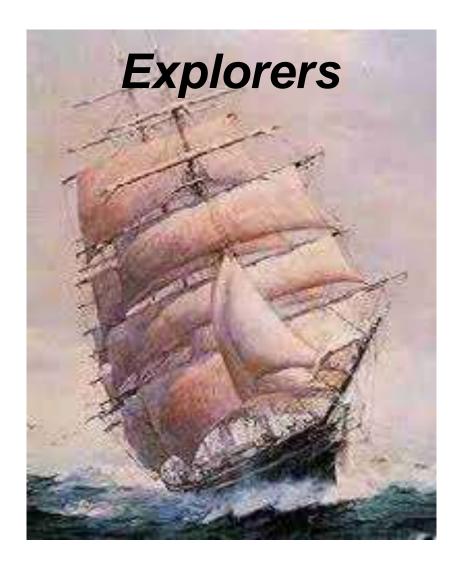
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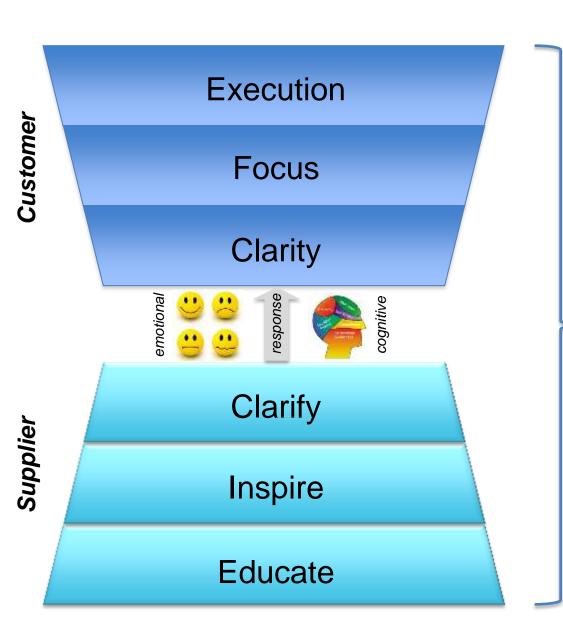


^{*} Leveraging an integrated data-warehouse or mashing

We are...







Confidence

What we did. We answered...

- Who makes decisions and how do they make them?
- What will the journey to improve decision-making look like?
- What's going to help make good decisions?
 - the deliverables, experiences, feelings, etc.
- What are the underlying processes?
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- What model/framework will prove helpful? Example.
- Review and discuss what we learned.



