

Putting the ‘Business’ into Business Analytics

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Sr. BI/DW Architect



SQL Server MVP
2008-present



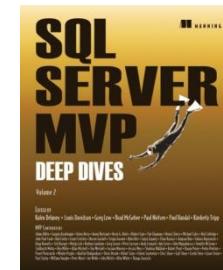
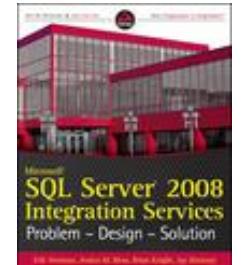
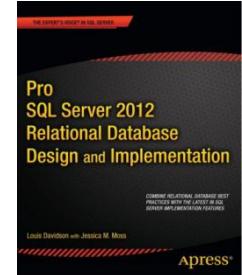
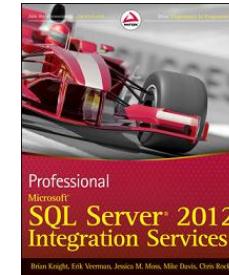
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Co-author: 5
technical books

What is Business Analytics?

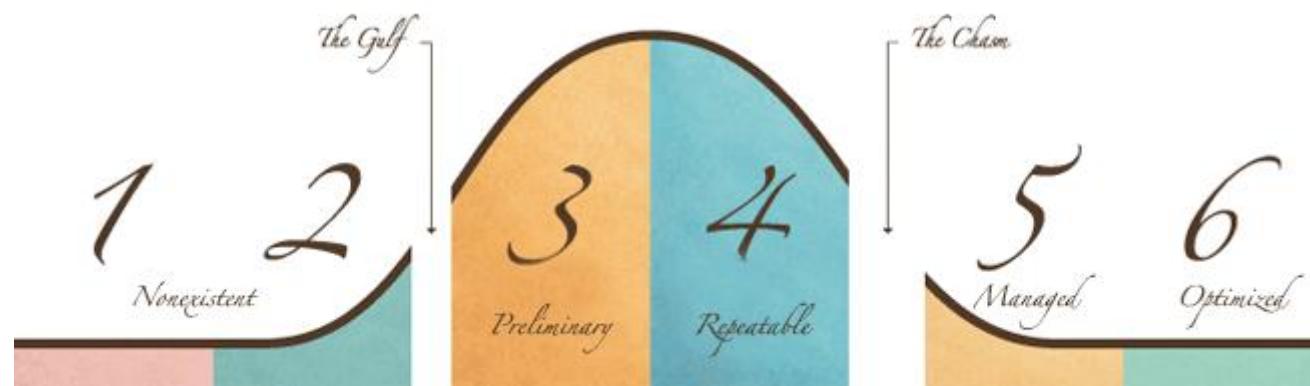
“The skills, technologies, applications and practices for continuous iterative exploration and investigation of past business performance to gain insight and drive business planning” - Wikipedia



Are you ready for Business Analytics?

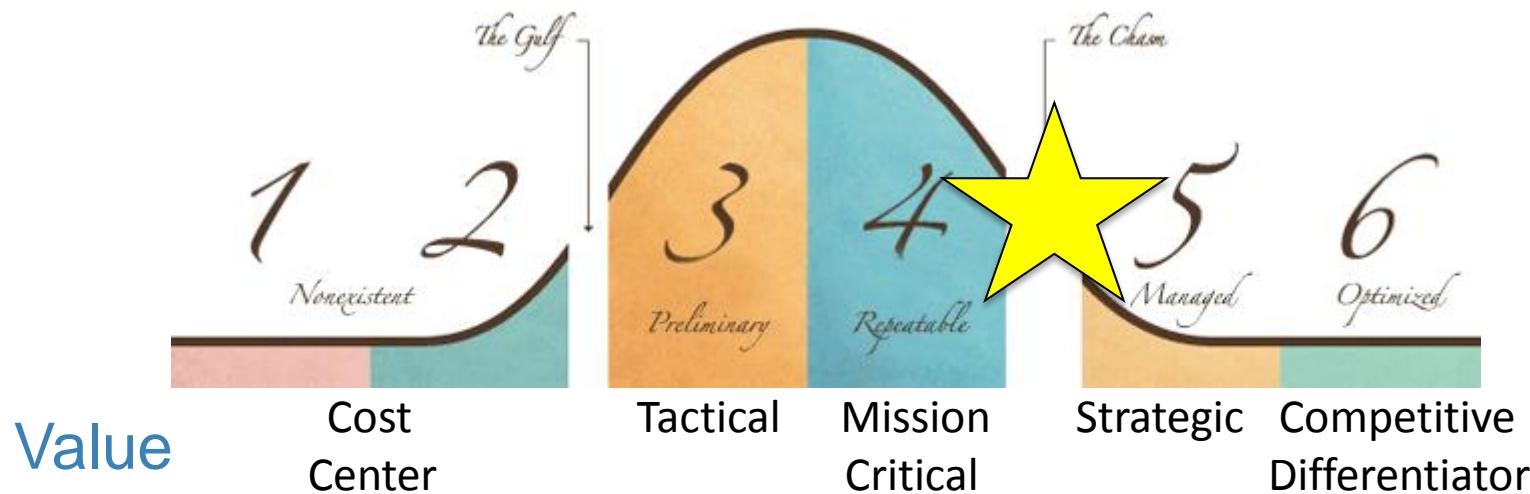
The Data Warehouse Institute (TDWI) Maturity Model

- Benchmark to compare organizations' data warehousing and business intelligence solutions
- Ranks organizations on: scope, sponsorship, funding, value, architecture, data, development, and delivery

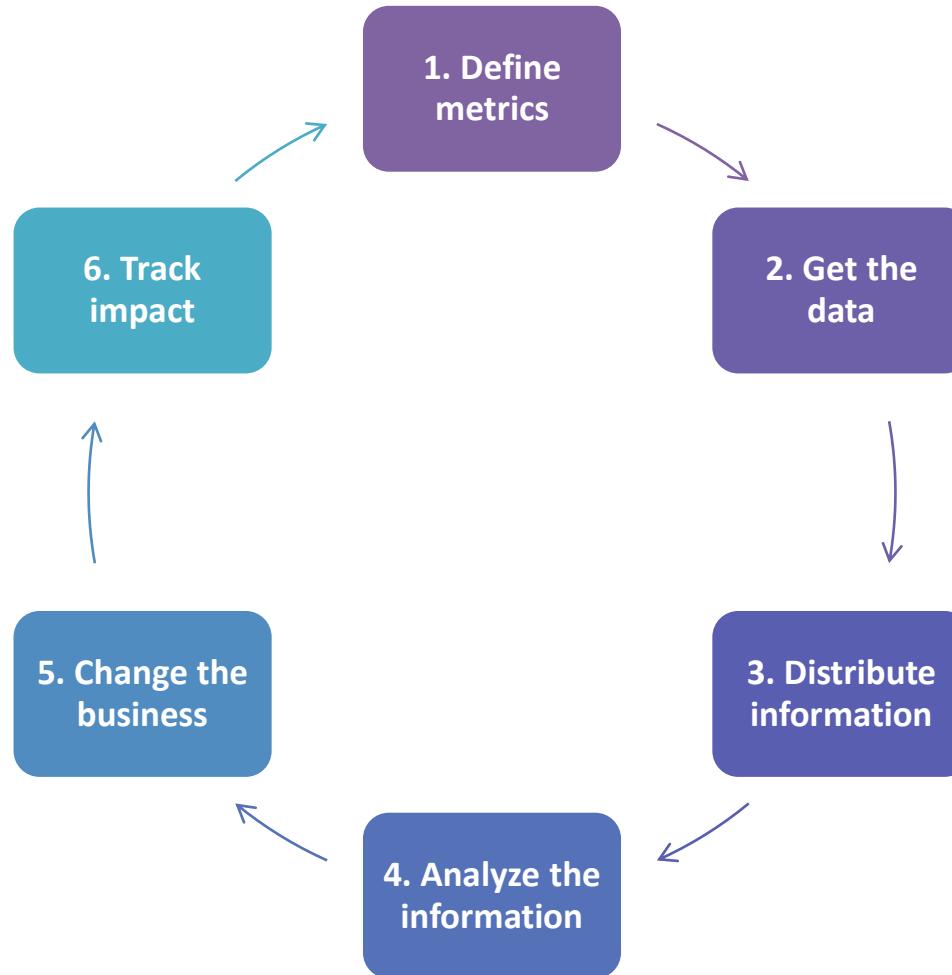


Are you ready for Business Analytics?

Value addresses how effectively the solution meets business needs and expectations



Business Analytics Process



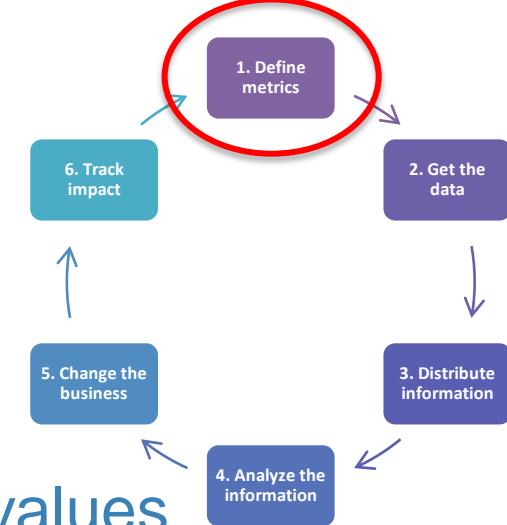
1. Define Metrics

Data is plentiful, analysis is hard

Create a baseline value to compare future values

Questions:

- What are you interested in monitoring?
- Where can you make a difference?



1. Define Metrics

Bad metric:



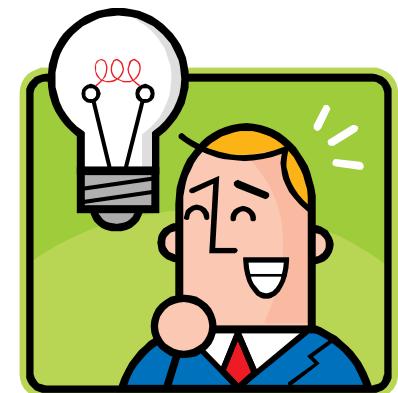
Sales, want more.



Good metrics:



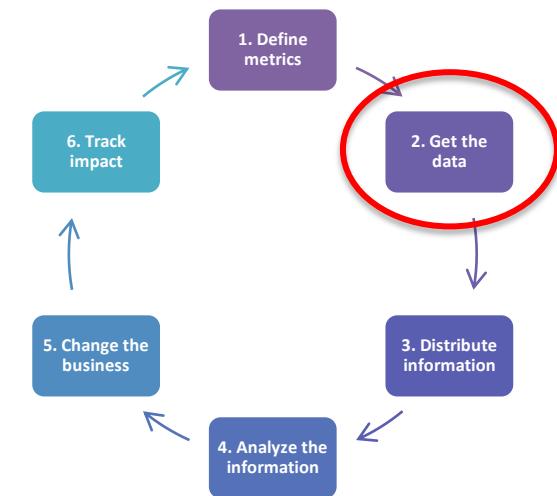
Increase retail sales in the southern hemisphere, which are at \$50k with a typical annual increase of 2%.



2. Get the Data

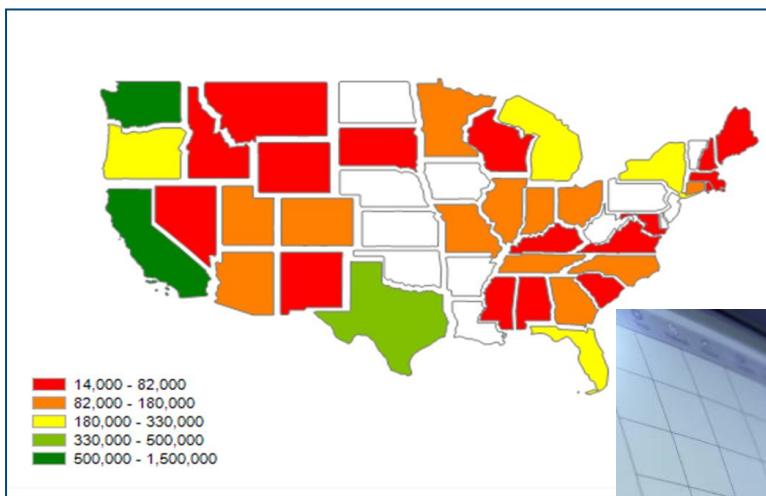
Many approaches:

- Data warehousing
- Self-service business intelligence
- Application reporting
- From your desktop



3. Distribute information

Reports



Sales By State

Sales Orders

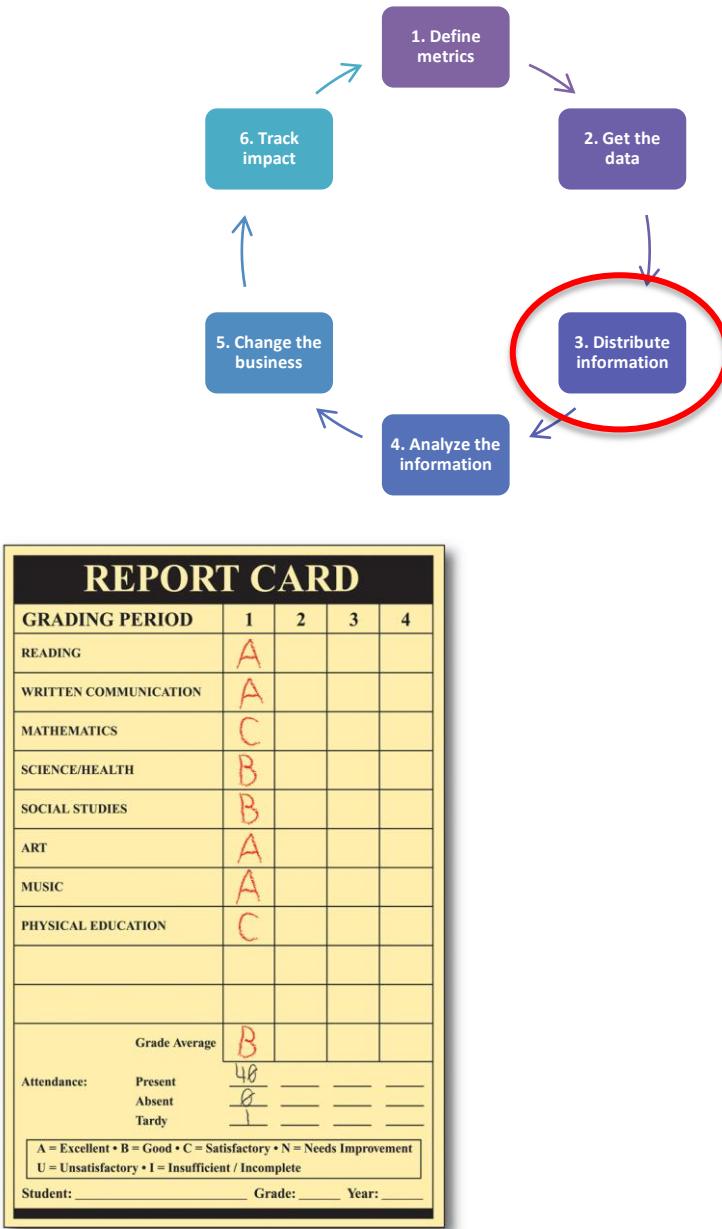
Order Num	Date	Name	City	State	Category
11021	3/30/2010	Richard Howard	Arlington	TX	Newsweek
4243	7/1/2009	Jeremy Perez	Arlington	TX	No Ca
12270	5/21/2010	Faith Bryant	Arlington	TX	Park E
13128	6/22/2010	Samuel Winston	Arlington	TX	Prime Comr

Line Num	Class	Product
1	DVDs	Around 80 Day
2	Books	Shriek British 1960 t

4/2009 Jose Jenkins Arlington TX Local Comr

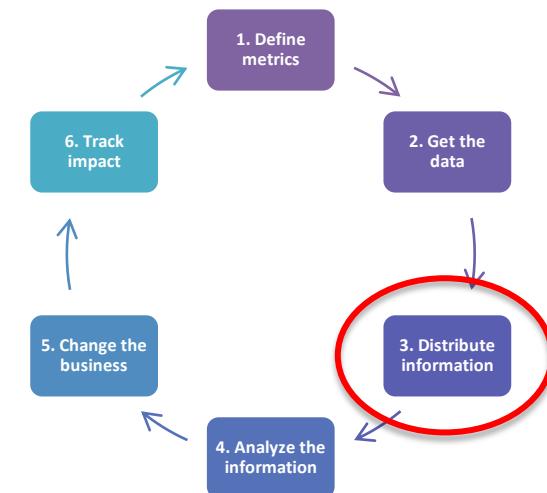
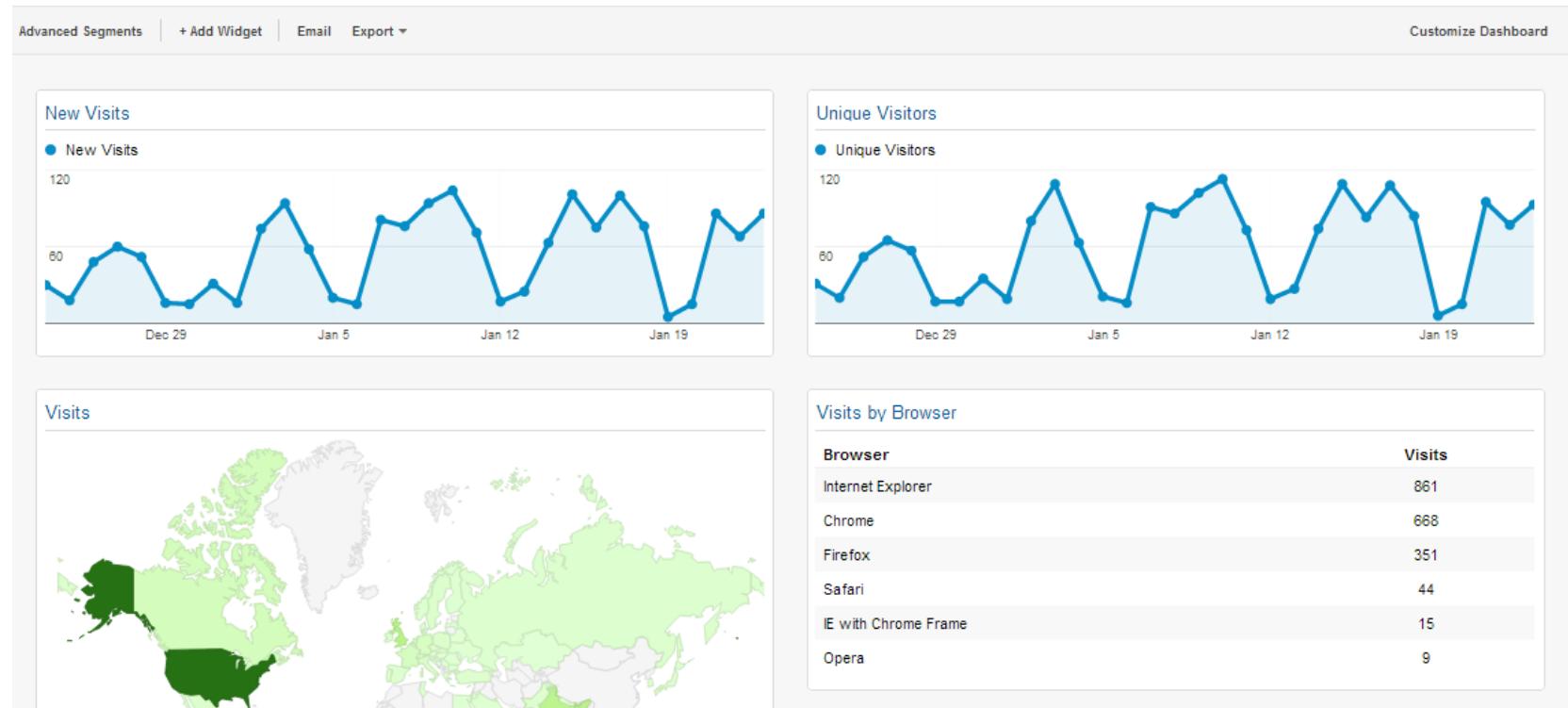
3. Distribute information

Balanced Scorecard



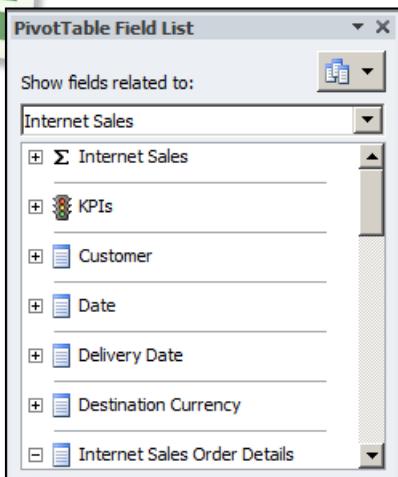
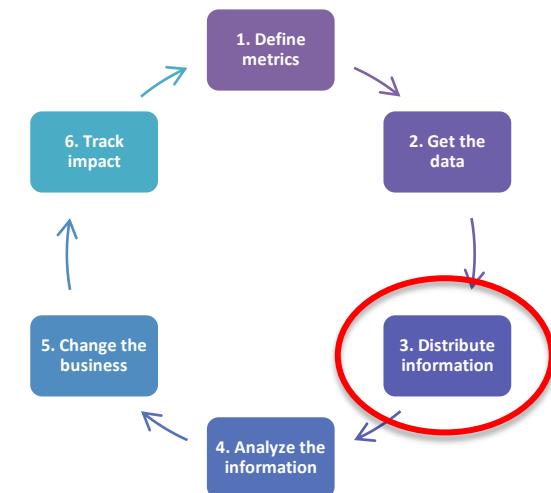
3. Distribute information

Dashboard

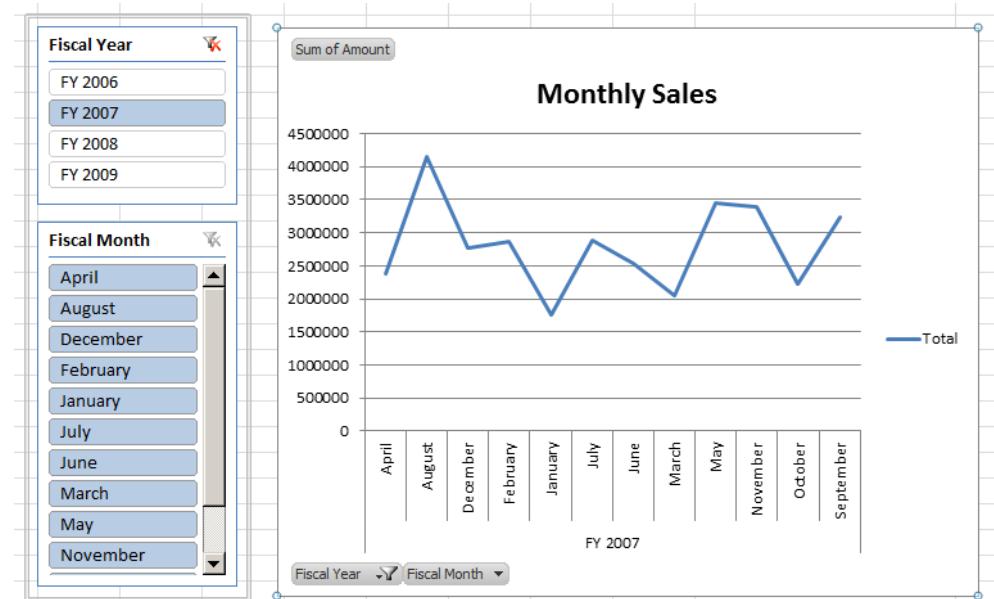


3. Distribute information

Self-service business intelligence



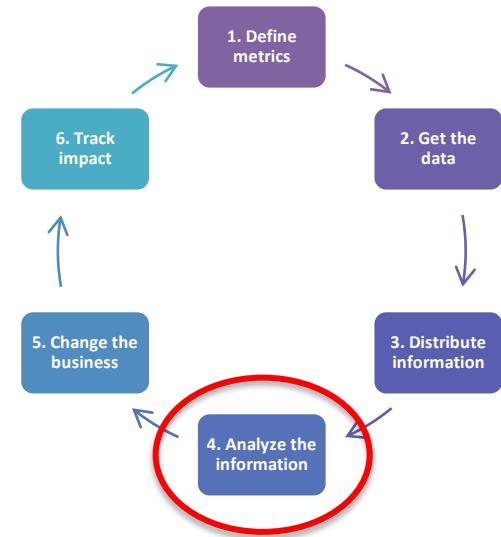
Excel and PivotTables



PowerPivot/Power View

4. Analyze the information

Look to see what is going on with your data



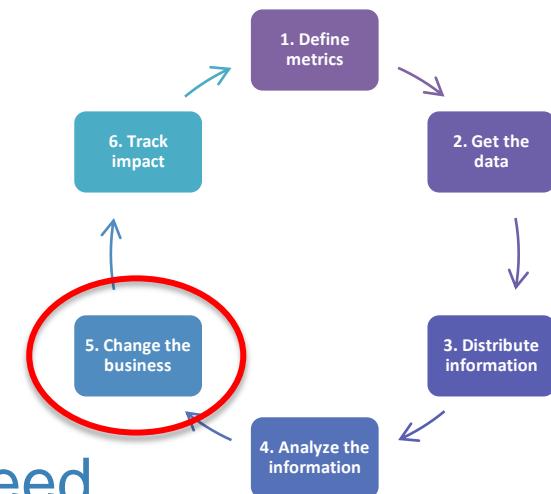
5. Change the business

This is where the process often falls short

Once we know what has happened, we need
to do something about it

Examples include:

- Adjust production outputs in a particular area
- Direct a marketing campaign to different customer segment



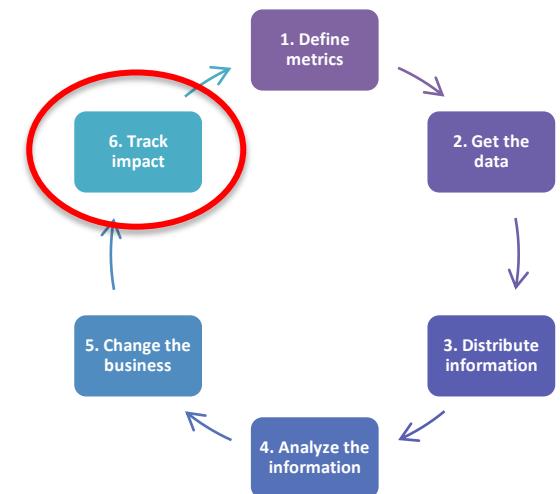
6. Track Impact

Did we make a difference?

If so, great! Now start over with new metrics, baselines, etc.

If not, start over with new metrics, baselines, etc.

This is a continuous, iterative process.



Case Study: Retail Web



Macys.com

Business goal: Enhance customer shopping experience and increase profitability

Metrics: Unique visitors, page views, events, conversion rate

Data distribution: Information provided to marketing analysts

Data analysis method: Customer Lifetime Value analysis

Business change: Sent fewer, more specific emails to customers

Results: Reduced subscription churn rate by 20%

Information from *Win with Advanced Business Analytics: Creating Business Value from Your Data* by Jean-Paul Isson and Jesse Harriott

Case Study: Medical Research



Palo Alto Medical Foundation

Business goal: Use medical data from local people to analyze and determine ethnic group disease trends

Metrics: Has different diseases: diabetes, stroke, heart disease, nutrition information, lifestyle, additional risk factors

Data retrieval: Information provided from administration, registrations, and billing systems; State and national surveys

Insight achieved: Disease trends differ based on ethnic subgroups

Business change: Internal hospital policies are modified to reflect analysis and provide better patient care

Information from *Win with Advanced Business Analytics: Creating Business Value from Your Data* by Jean-Paul Isson and Jesse Harriott

Case Study: Telecommunications



Rogers Wireless

Business goal: Increase customer market share and serve customers based on their profitability

Metrics: Transactional data, Usage, Service, Plan, Demographic information

Data distribution: PowerPoint presentations, Web application POS information

Data analysis method: Likelihood to churn model, Customer Lifetime Value analysis

Business change: Send emails to the most valuable customers to retain their business

Information from *Win with Advanced Business Analytics: Creating Business Value from Your Data* by Jean-Paul Isson and Jesse Harriott

Questions?



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