



Why Analytics in Healthcare?

Douglas Johnson

Business Development and Strategic Sales Executive

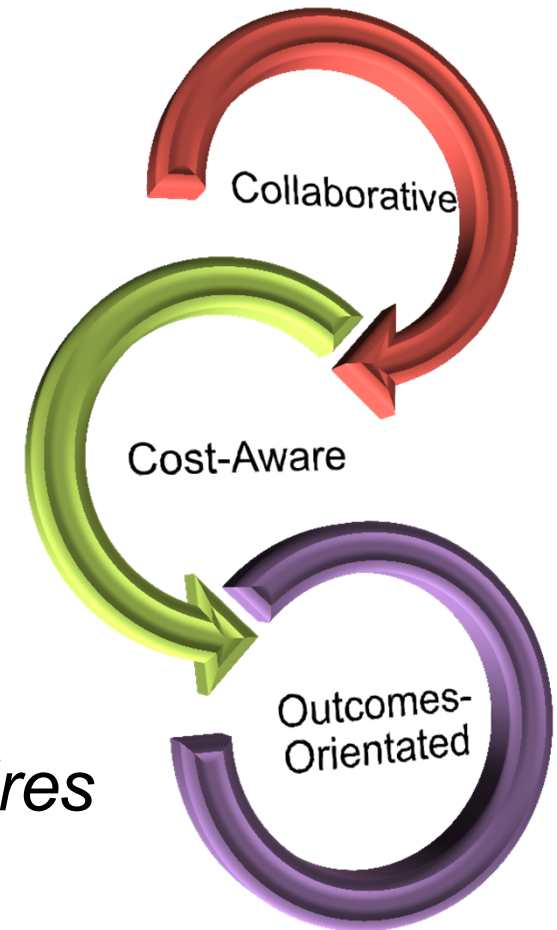
Heart of America HIMSS
Education Event
April 3, 2014

Accelerating Your Success™

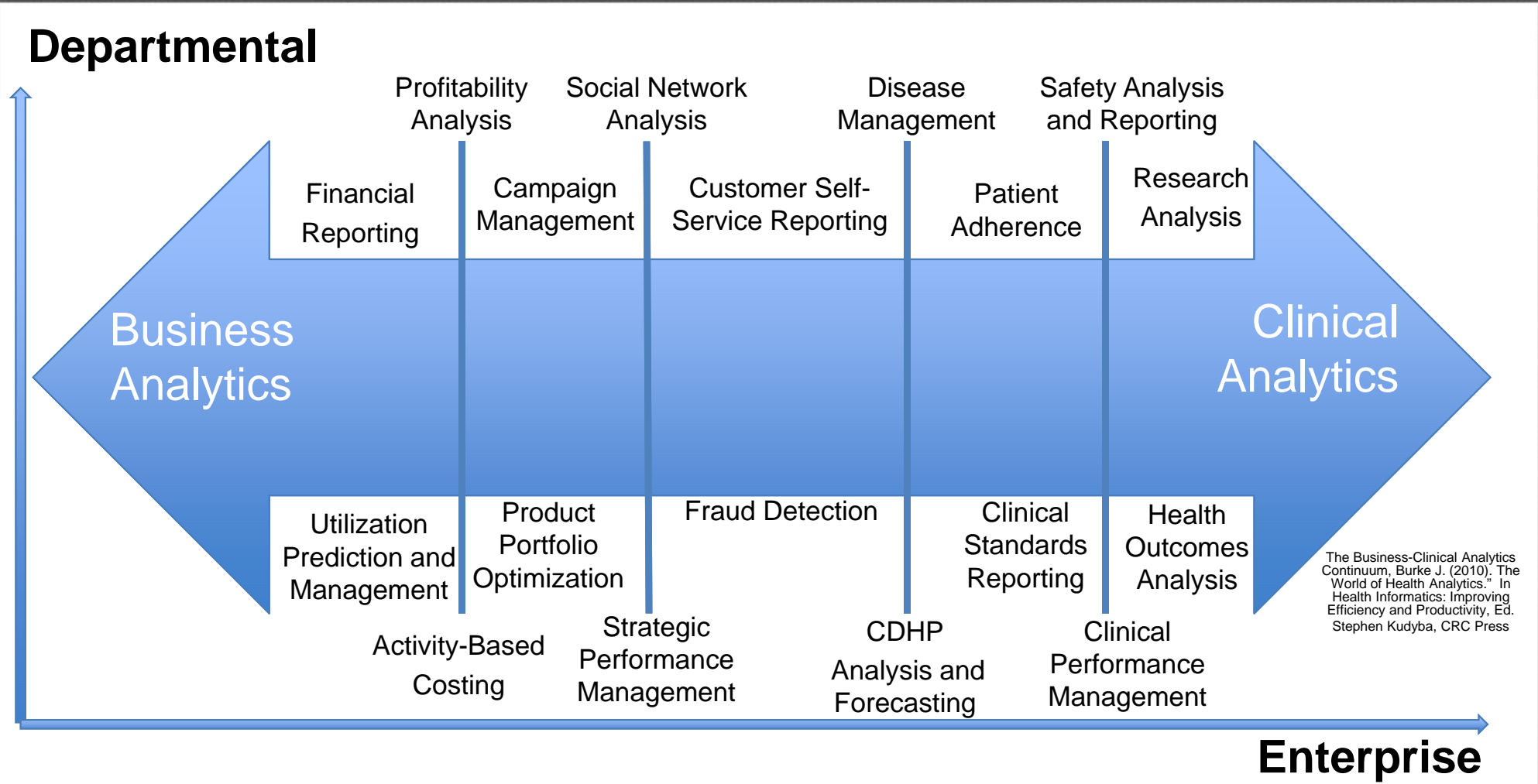
Healthcare Transformation

There is consensus that is emerging within the health and life sciences markets about what a modernized health enterprise will look like-and it looks highly information driven:.

*Creating a health care system that requires embracing and ability and priority of **information-based decisions-Analytics.***



The Challenge: The Business-Clinical Analytics Continuum



The Business-Clinical Analytics Continuum, Burke J. (2010). "The World of Health Analytics." In Health Informatics: Improving Efficiency and Productivity, Ed. Stephen Kudyba, CRC Press

Challenge is not creating or finding the technology; rather, the challenge is linking business and clinical transformational programs to an analytical strategy

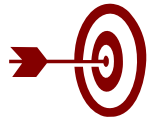
Why Analytics in Healthcare?

- Changes in reimbursement demand more insight
- Understanding and measurement of risks
- Improvement of quality...business and clinical
- Improve the way decisions are made
- Leverage IT and data investments to move faster, act smarter
- Cut costs and improve efficiency through optimization
- Understand business dynamics, economic changes and market shifts

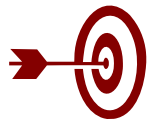


Health transformation will be fueled by insights that optimize clinical, financial, and individual patient perspective.

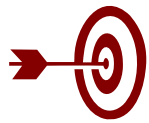
Where to Begin- Business Strategies



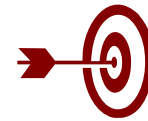
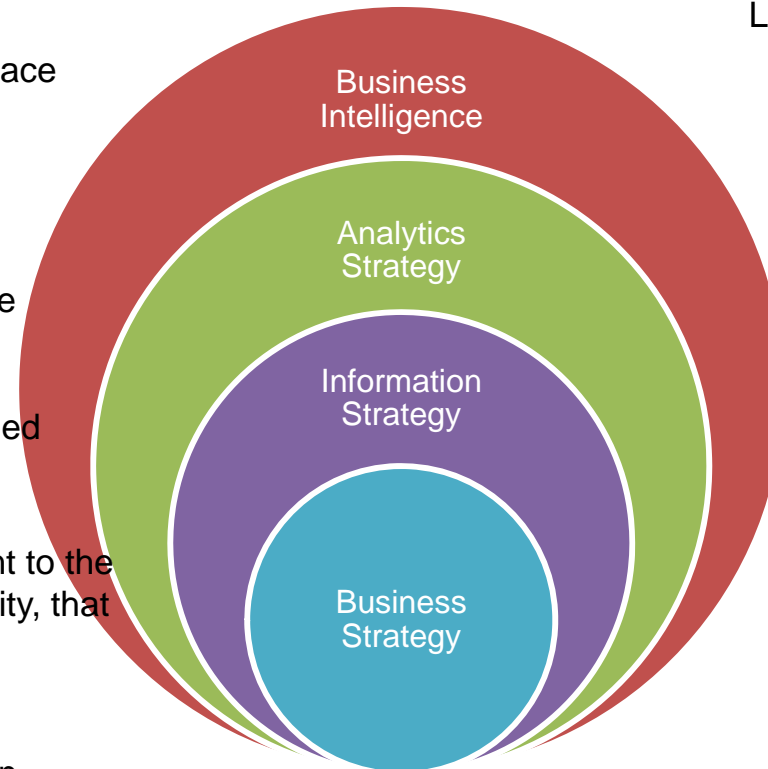
A logical place to look for a **Target** is the Organization's strategic plan, which is all about finding opportunities for business growth, innovation, differentiation, and marketplace impact.



Targets focus on generating insight rather than merely information. What are all of the ways analytics might help transform the business, and how can priorities be developed against those options?



A good **Target** is so important to the business, so full of opportunity, that it engages top management commitment and creates momentum. It focuses on generating insight rather than merely information.



Find **Targets** by assessing your business decisions and asking how better information and analysis might yield better results

Look for the following conditions:

- Complex decisions with lots of variables and steps
- Simple decisions in which consistency is either desirable or required
- Places where you need to optimize the process or activity as a whole.
- Decisions in which you need to understand connections, correlation and their significance
- Places better forecasts, anticipation, or downstream visibility
- Current low average of success

Key Questions

Targets that focuses on understanding the past without predicting the future or optimizing the present-creates an environment where the advanced analytics return on investment is questionable

	<i>Past</i>	<i>Present</i>	<i>Future</i>
<i>Information</i>	What Happened? (Reporting)	What is happening Now? (Alerts)	What will Happen? (Extrapolation)
<i>Insight</i>	How and why did it happen? (Modeling experimental design)	Whats's the next best action? (Recommendation)	What's the best/worst that can happen? (Prediction, optimization, simulation)

Analytics at Work, Thomas Davenport, Jeanne G. Harris and Robert Morison

Good analytical capabilities also require good information management capabilities. The foundation is good Data.

Data- The Prerequisite for Everything Analytical

“You can’t be Analytical without data and you can’t be really good at analytics without really good data.”

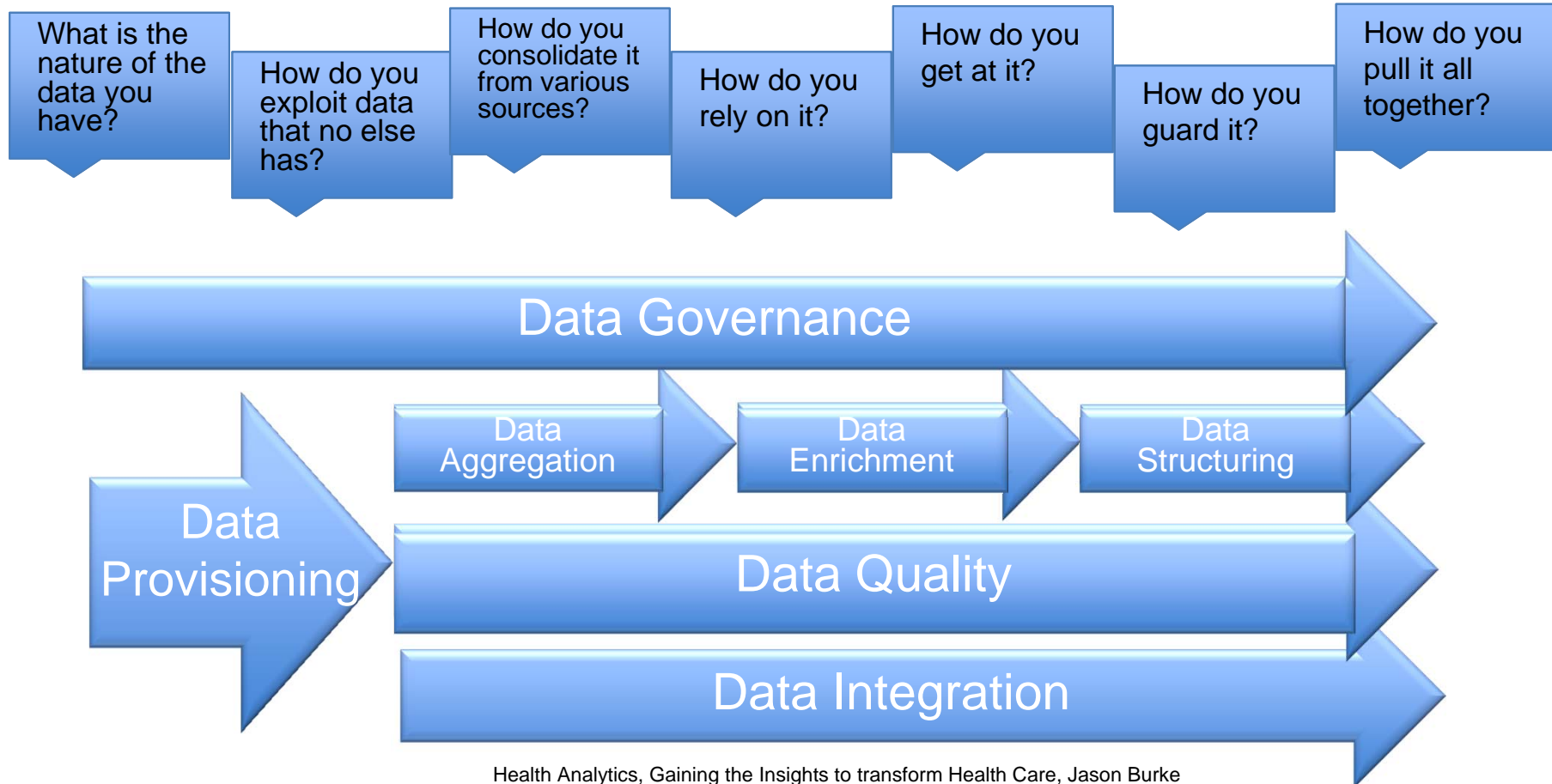


By estimates, around 60% of time and 40% of the cost associated with doing analytical solutions are attributed purely to data:.

- What is it?
- Where is it?
- How good is it?
- Is there enough or it?
- Is it ready for analysis?
- Can it answer the questions we are asking?

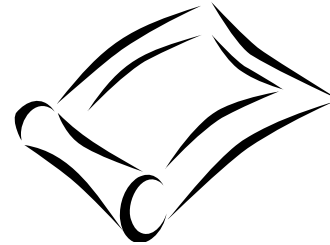
Planning how you need to consume information is as important as figuring out how to collect it.

There is a difference between data and Information



Information Management

Blueprints Plans- Data Governance

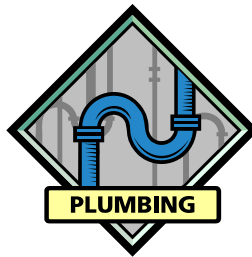


Source of Water-
Data Provisioning



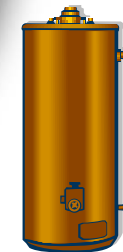
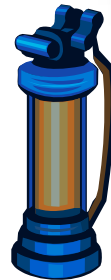
Sinks-
Data Aggregation

Plumbing-
Data Integration



Bath Tubs-
Data Structuring

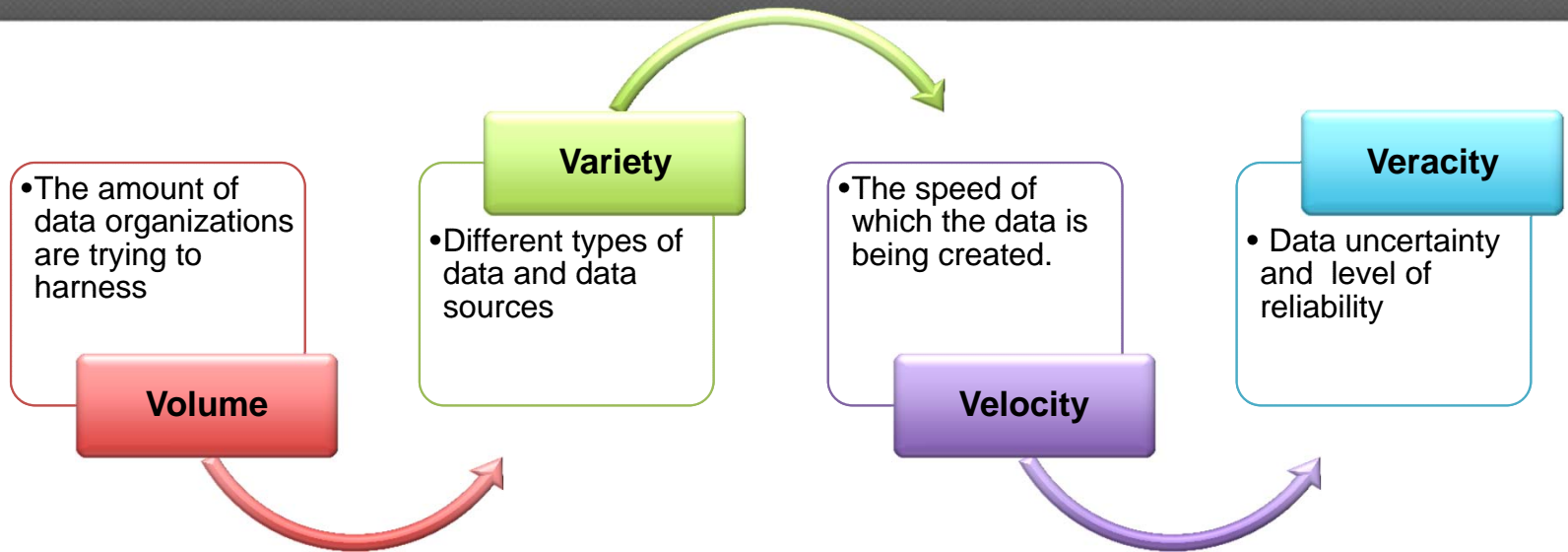
Water Purifier-
Data Quality



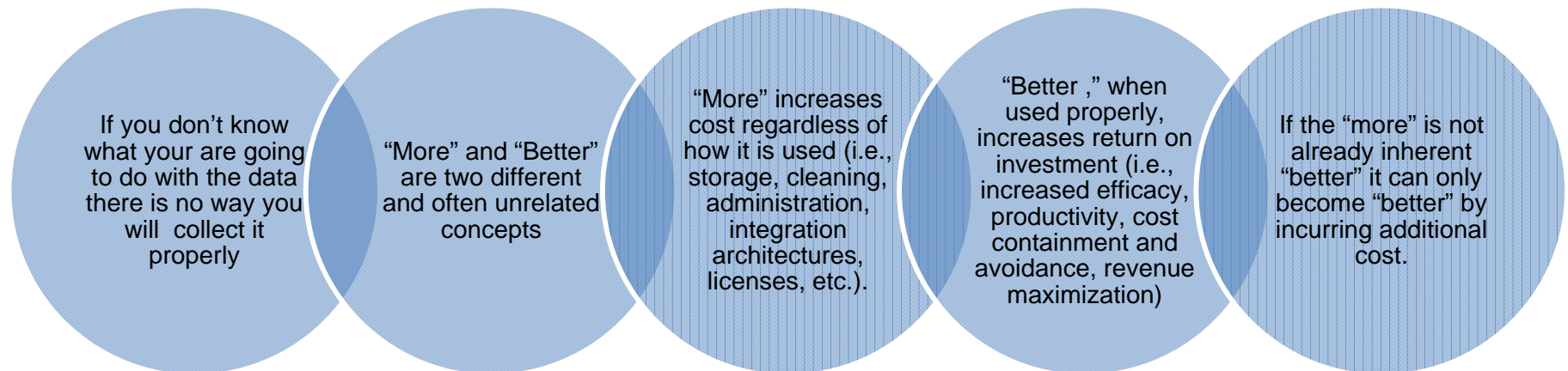
Temperature Control-
Data Enrichment



Big Data and Health-Relevant Data (HRD)

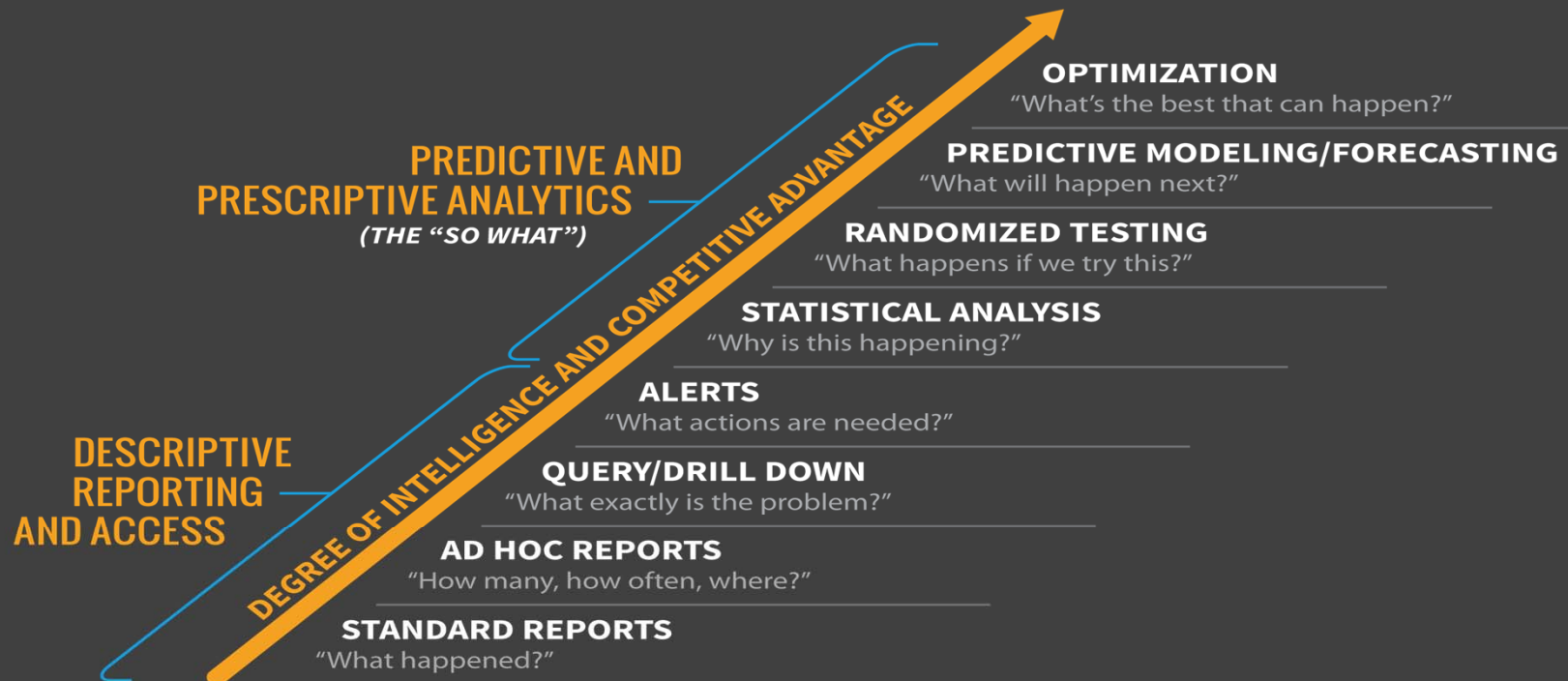


Health-Relevant Data is any data can help an organization better understand costs, outcomes, and associated individual preferences and behaviors



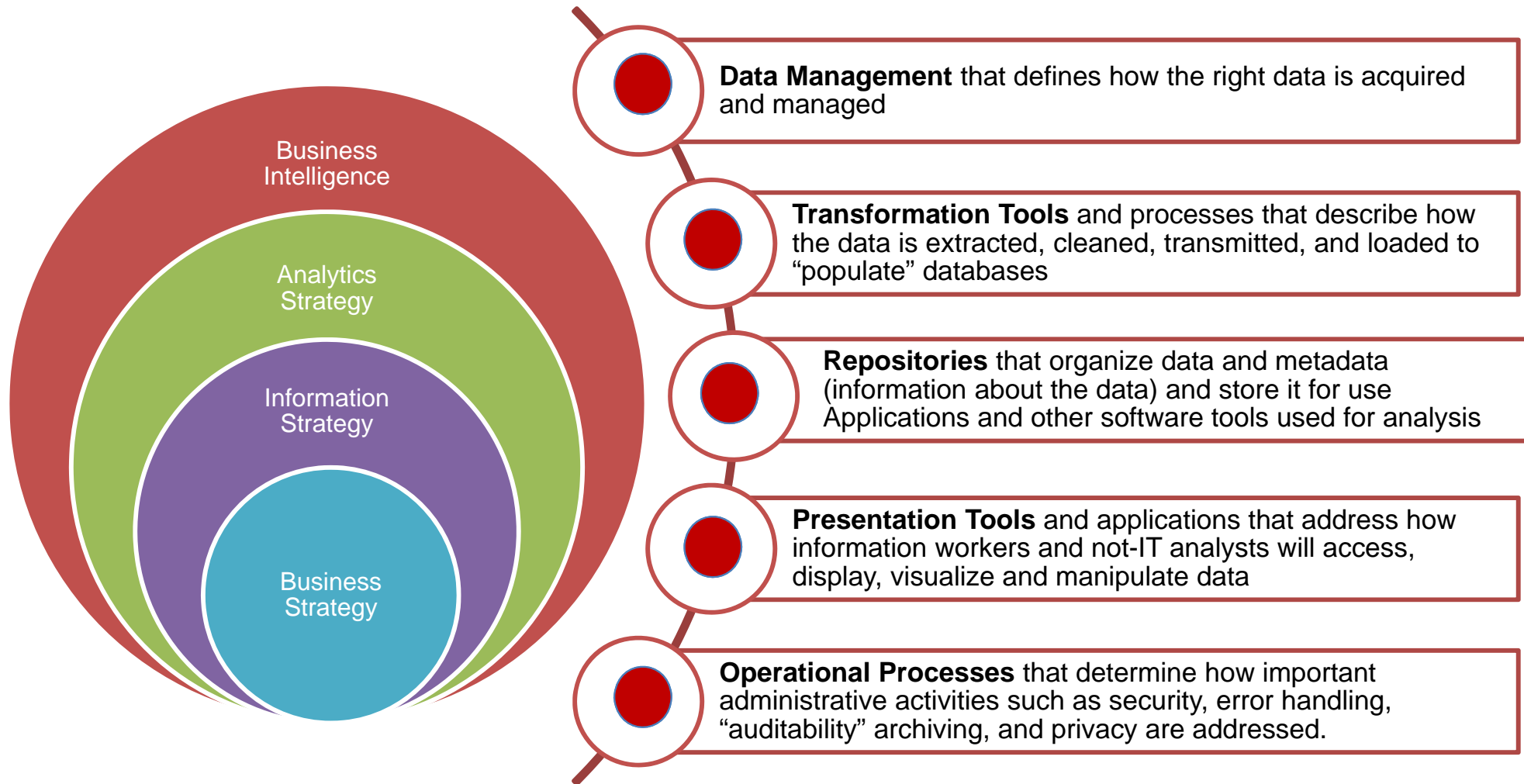
Analytics is part of a Process

Analytics is the extensive use of data, statistical and quantitative analysis, explanatory and predictive models, and fact-based management to drive decisions and actions



Analytics is generally considered a subset of Business Intelligence

Business Intelligence Architecture



Analytic Maturity

HIMSS Analytics Announces Avnet Technology Solutions as the First Certified Educator of the DELTA-Powered Analytics Assessment

HIMSS Analytics announced today that Avnet Technology Solutions is the first Certified Educator of the DELTA-Powered™ Analytics Assessment.

DELTA Powered™ Analytics Maturity Key Qualifiers



Data Enterprise Leadership Targets Analysts

HIMSS Analytics

Five Critical Areas of Success

 DELTA = CHANGE

D	DATA	BREADTH, INTEGRATION, QUALITY
E	ENTERPRISE	APPROACH TO MANAGING ANALYTICS
L	LEADERSHIP	PASSION AND COMMITMENT
T	TARGETS	FIRST DEEP THEN BROAD
A	ANALYSTS	PROFESSIONALS AND AMATEURS

Data- Data is the most essential building block of an analytics program. Good data must be clean, both in accuracy and format. When pulled from multiple sources, it must be integrated and consistent. It must be accessible to those who need it.

Enterprise – Taking an enterprise approach to analytics allows you to see across business units, regions and processes to answer these questions:.

Leadership - This is the most important component of analytics success. It's critical from the C-Suite down to middle- and lower-management.

Targets -When there are thousands of problems to solve, which ones are the most important?

Analysts- Analysts can make analytics a reality within a high performing organization. Knowing how to find, develop and retain this talent is essential to analytics success.

Benefits of Analytics



- Help manage and steer the business in turbulent times
- Know what's really working
- Leverage previous investments in IT and information to get more insight, faster execution, and more business value in business processes
- Cut cost and improve efficiency
- Manage risk
- Anticipate changes in market conditions
- Have a basis for improving decisions over time

Analytics at Work, Thomas Davenport, Jeanne G. Harris and Robert Morison



Question?

Douglas Johnson
Business Development and Strategic Sales Executive
Doug.Johnson@Avnet.com
612-802-0568

Accelerating Your Success™



Solving with Analytics

Who we are and how we can help

Deb McPheter, District Manager

April 4, 2014



OneNeck IT Solutions at a Glance

We provide end-to-end IT Solutions to mid-market and enterprise companies

- Solution line up includes: cloud and hosting solutions, colocation services, managed services, ERP application management, professional services, IT hardware resale and world-class data center facilities
- Backed by the Fortune 500® strength of Telephone and Data Systems
- Founded in 2010
- 650+ Employees
- 450+ Technical Resources
- 7 Data Centers
- Offices in 12 States

Headquartered in
Scottsdale, Arizona





Where are you in your Maturity Model

- Leverage Delta Assessment
- Engage Experts
 - Internal – Cross functional team
 - External – Consultants and Practitioners
- Build a Repeatable/Re-useable Framework
- Leverage multiple sources of data for “enrichment”
 - Structured and Unstructured
- Organization View
 - Strategy
 - Execution
 - Prioritization
 - Sponsorship

Our Solution Set

Cloud & Hosting Solutions	Managed Services	ERP Application Management	Professional Services	IT Hardware Resale
<ul style="list-style-type: none">• Cloud Servers• Private Clouds• Hybrid Clouds• Cloud Storage• Desktops in the Cloud (DaaS)• Colocation	<ul style="list-style-type: none">• Managed Applications• Managed Databases• Managed Networks• Managed Servers• End User Support• Disaster Recovery as a Service (DRaaS)• Security & Compliance• Communication & Collaboration	<ul style="list-style-type: none">• Oracle®• Microsoft®• Infor™	<ul style="list-style-type: none">• IT Assessments• Design• Migrations & Implementations• IT Roadmaps and Planning• Technology Consulting	<ul style="list-style-type: none">• Cisco®• EMC™• HP®• VMware®• Citrix®• F5®• NetApp®



Call to Action

- Leverage community of resources here today
- Prioritize your focus to align with goals of hospital
- Take Delta Online Maturity Assessment
- Executive Sponsorship is Key
 - Resources
 - Funding
 - Ability to implement change – “why”

Don't expect to always get it right... that's why you are building framework.. To learn what you didn't know



Thank you!

