EWSolutions

Big Data Demystified

By David Marco

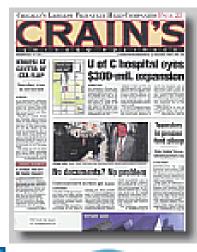
President

EWSolutions



EWSolutions' Background

EWSolutions is a Chicago-headquartered strategic partner and full life-cycle systems integrator providing both **award winning** strategic consulting and **full-service implementation services**. This combination affords our clients a full range of services for any size enterprise information management, meta data management, data governance and data warehouse/business intelligence initiative. Our notable client projects have been featured in the Chicago Tribune, Federal Computer Weekly, Journal of the American Medical Informatics Association (JAMIA), Crain's Chicago Business, and won the 2004 Intelligent Enterprise's RealWare award, 2007 Excellence in Information Integrity Award nomination and DM Review's 2005 World Class Solutions award.





2007 Excellence in Information Integrity Award Nomination



Best Business Intelligence Application Information Integration Client: Department of Defense









World Class Solutions Award Data Management

For more information on our Strategic Consulting Services, Implementation Services, or World-Class Training, email us at info@EWSolutions.com or call at 630.920.0005

EWSolutions' Partial Client List

Arizona Supreme Court

Bank of Montreal

BankUnited

AFLAC

Basic American Foods

Becton, Dickinson and Company Blue Cross Blue Shield companies

Booz Allen Hamilton

Branch Banking & Trust (BB&T)

British Petroleum (BP)

California DMV

California State Fund

Canadian National Railway

Capella University

Cigna

College Board

Comcast

Corning Cable Systems Countrywide Financial

Defense Logistics Agency (DLA)

Delta Dental

Department of Defense (DoD)

Driehaus Capital Management

Eli Lilly and Company

Environment Protection Agency

Farmers Insurance Group

Federal Aviation Administration

Federal Bureau of Investigation (FBI)

Fidelity Information Services

Ford Motor Company

GlaxoSmithKline

Harbor Funds GSA Schedule Harris Bank

The Hartford

Harvard Pilgrim HealthCare

Health Care Services Corporation

Hewitt Associates

HP (Hewlett-Packard)

Information Resources Inc. International Paper

Janus Mutual Funds Johnson Controls

Key Bank

LiquidNet

Lovola Medical Center

Manulife Financial

Mayo Clinic **McDonalds** Microsoft

MoneyGram

NASA

National City Bank

Nationwide

Neighborhood Health Plan

NORC

Physicians Mutual Insurance

Pillsbury

Quintiles

Sallie Mae

Schneider National

Secretary of Defense/Logistics

Singapore Defense Science & Technology

Agency

Social Security Administration

South Orange County Community College

Standard Bank of South Africa

SunTrust Bank **Target Corporation**

The Regence Group

Thomson Multimedia (RCA)

Thrivent Financial

United Health Group United Nations (ICAO)

United States Air Force

United States Army

United States Department of State

United States Navy

United States Transportation Command

University of Michigan

University of Wisconsin Health

USAA

US Cellular

Waste Management

Wells Fargo

Wisconsin Department of Transportation

Zurich Cantonal Bank

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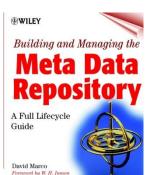
David Marco – Professional Profile

Best known as the world's foremost authority on meta data management and the father of the Managed Meta Data Environment, he is an internationally recognized expert in the fields of data governance, big data, data warehousing, master data management and enterprise information management (EIM). In 2004 David Marco was named the "Melvil Dewey of Metadata" by Crain's Chicago Business as he was selected to their very prestigious "Top 40 Under 40" list. David Marco has authored several books including the widely acclaimed "Universal Meta Data Models" (Wiley, 2004) and the classic "Building and Managing the Meta Data Repository: A Full Life-Cycle Guide" (Wiley, 2000).

- 2014 EWSolutions was inducted into the Hinsdale business Hall-of-Fame after 6 consecutive years of receiving "Best of" awards in Enterprise Information Management
- ☐ Selected to the prestigious 2004 Crain's Chicago Business "Top 40 Under 40"
- 2008 DAMA Data Management Hall of Fame (Professional Achievement Award)
- □ 2007 DePaul University named him one of their "Top 14 Alumni Under 40"
- ☐ Presented hundreds of keynotes/seminars across four continents
- ☐ Published hundreds of articles on information technology
- ☐ Author of several best selling information technology books
- ☐ Taught at the University of Chicago and DePaul University
- ☐ Holds both a CDMP and a CBIP certification

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Models



Agenda

- □ Introduction an Overview of Big Data
- □ Fundamental Big Data Definitions
- □ What Really is Big Data?





Big Data Defined



- Definition #1: "Big data is a broad term for data sets so large or complex that traditional data processing applications are inadequate." (www.wikipedia.com)
- #2: "data of a very large size, typically to the extent that its manipulation and management present significant logistical challenges." (Oxford English Dictionary)
- #3: "datasets whose size is beyond the ability of typical database software tools to capture, store, manage, and analyze," (widely-quoted 2011 big data study by McKinsey)
- #4: "The ability of society to harness information in novel ways to produce useful insights or goods and services of significant value" and "...things one can do at a large scale that cannot be done at a smaller one, to extract new insights or create new forms of value." ("Big Data: A Revolution that Will Transform How We Live, Work, and Think", Viktor Mayer-Schönberger & Kenneth Cukier)
- #5: "The broad range of new and massive data types that have appeared over the last decade or so." (Tom Davenport)



- #6: The new tools helping us find relevant data and analyze its implications.
- #7: The convergence of enterprise and consumer IT
- #8: The shift (for enterprises) from processing internal data to mining external data.
- #9: A new attitude by businesses, non-profits, government agencies, and individuals that combining data from multiple sources could lead to better decisions

List adapted from Forbes, "12 Big Data Definitions: What's Yours?", 9/3/2014, Gil Press



Big Data Defined

- Big Data: a collection of data sets so large and complex that it becomes difficult to process using traditional database management tools or conventional data processing applications
- This definition has much meaning
- Big Data technology and techniques should be used when traditional database management tools CANNOT



Big Data is NOT...

- The cure for cancer and global hunger
- The answer to all data ecosystem issues and challenges
- A replacement for the enterprise data warehouse
- Reliable, scalable, and flexible on its own without hard work performed by skilled professionals
- □ Solving your data management issues
- A fully matured solution



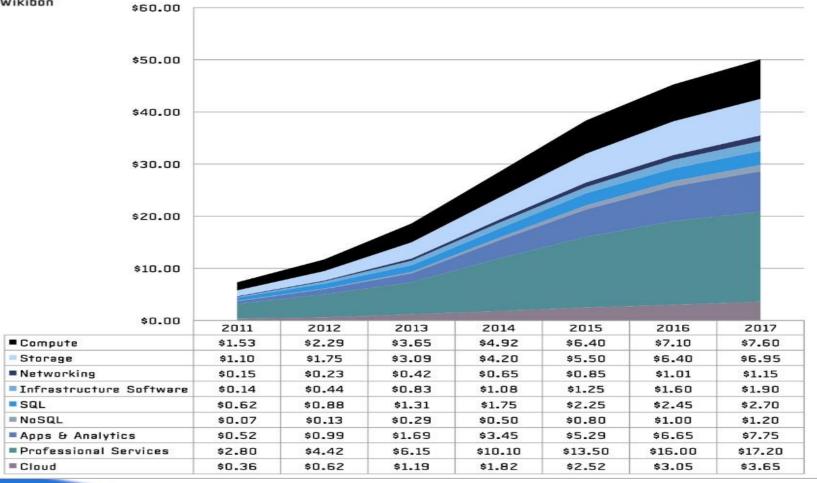
Big Data Landscape



Big Data Growth Rates - 1



Big Data Market Forecast by Sub-Type, 2011-2017 (in \$US billions)





Big Data Growth Rates - 2

Figure 7: Big Data Analytics Market Size by Business Category



Source: Heavy Reading





- □ A MASSIVE marketing campaign
- Actual technology, methods and techniques
- A significant impact to the data management field!!

Questions

