

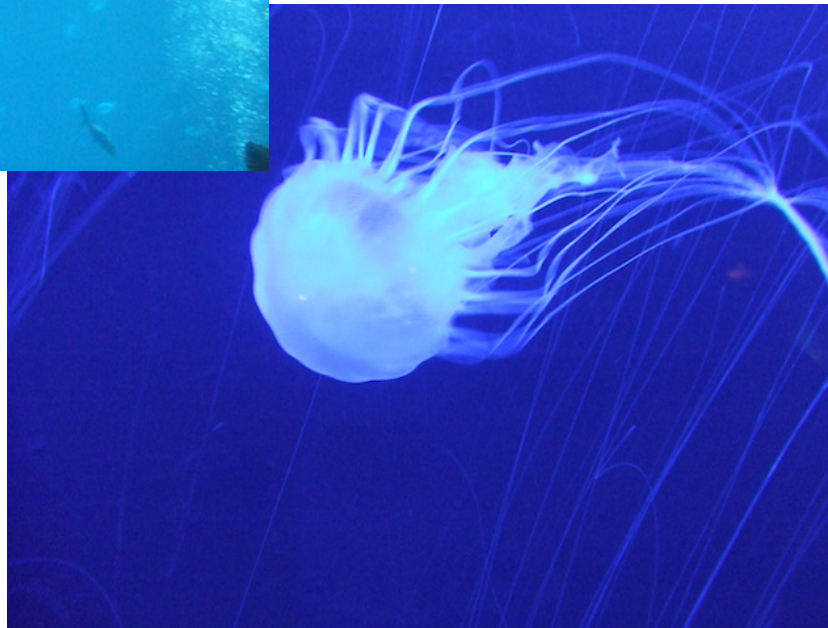
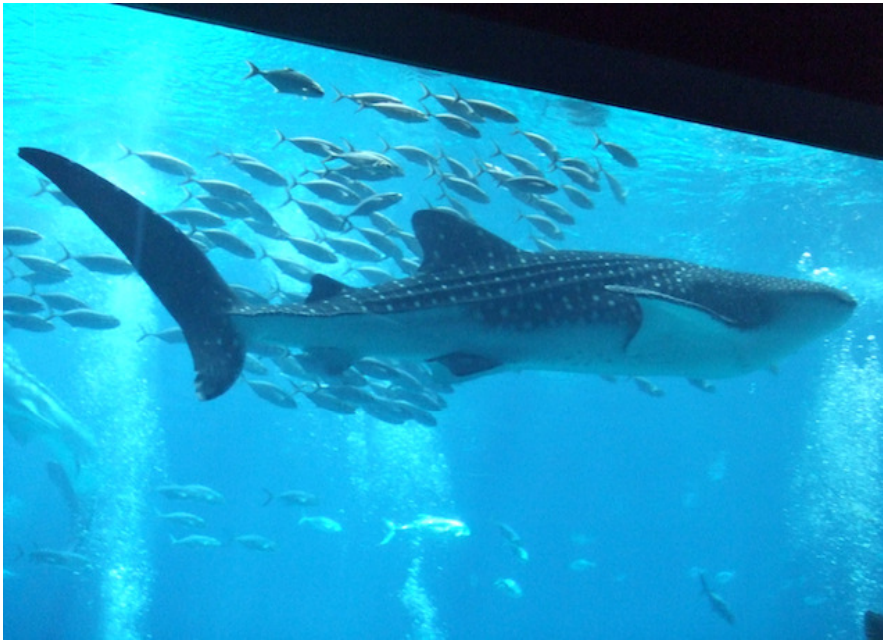
Enterprise Data World 2012 in Atlanta, Georgia

Selena Smeaton

+ Atlanta



+ Atlanta





THE TRANSFORMATION TO DATA-DRIVEN BUSINESS STARTS HERE

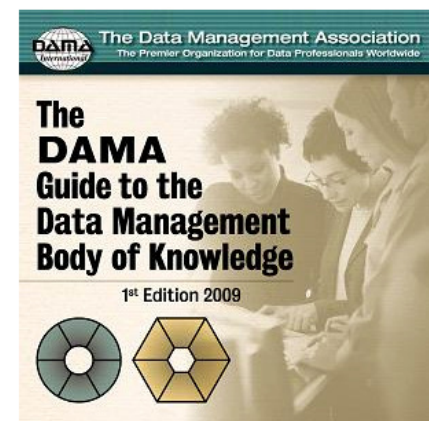
ENTERPRISE DATA WORLD

APRIL 29 - MAY 3, 2012
ATLANTA, GEORGIA
OMNI HOTEL AT CNN CENTER

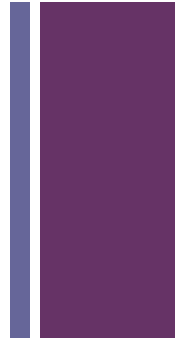
Produced by:  

- 5 day schedule of education, workshops, tutorials, presentations, discussions and case studies
- Endorsed by DAMA International (Data Management Int.)

- Multiple tracks:
 - Data Governance**
Enterprise Information Architecture
 - MDM** **BigData**
 - Data Integration **Unstructured**
 - Information Quality
 - Data-Driven Business** NoSQL
 - Modeling **Metadata**



+ Themes




- Big Data
- Governance and Framework Development
- Measurement and Value

+ Key Note: Big Data



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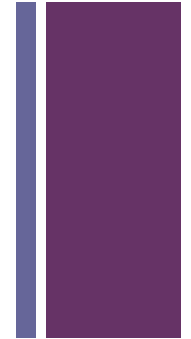
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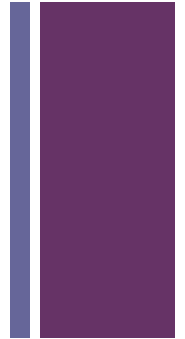
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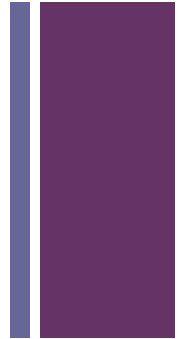
+ Key Note: Big Data



- On perceptions of big data:
 - “It’s not the bigness of data that is important” but the knowledge that can be gleaned from it
 - “It’s a solution looking for a problem”. Go back to defining the problem. Don’t start with the technology or the tool

- On challenges of using big data:
 - “There needs to be a better understanding and broader use of metadata”
 - “Who will make sense of the data?”
 - “Open minds to big data analytics without overhyping the technology”

+ Key Note: Big Data



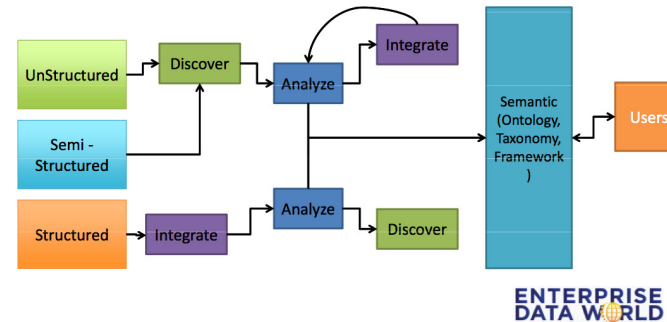
- On Information/Analytics/Big Data as a Service:
 - “Big data AAS will be centralised and in the cloud, virtualised and built project by project”
 - “I live in a world of secret and private data” Information AAS may not implement well in some industries
 - “Up to now, engagement have been between one organisation and another. We will see a rise in data aggregators”
- Download the MP3 of the panel: <http://www.information-management.com/dmradio/BigPanelBigData-EDW2012-DMRadio.php>

+ Big Data: What other people said!

Metadata

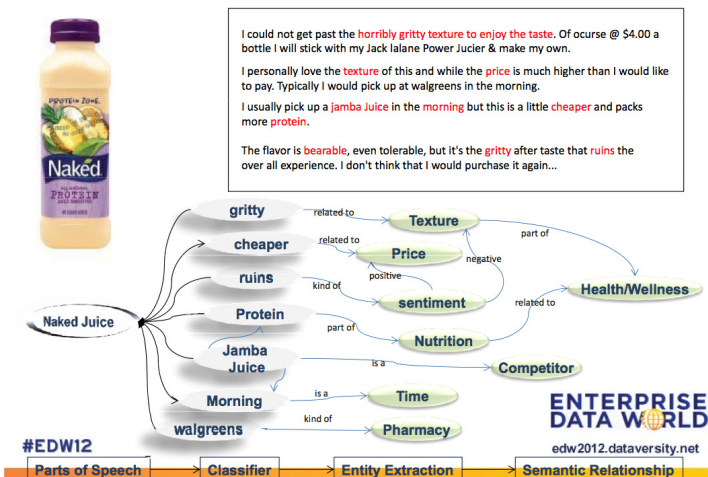
- The key to the castle in integrating Big Data is metadata
- Whatever the tool, technology and technique, if you do not know your metadata, your integration will fail
- Semantic technologies and architectures will be the way to process and integrate the Big Data.
- Business domain experts can identify large data patterns by association relationships with small metadata.

New Architecture



Semantic Integration

Semantic Integration Example

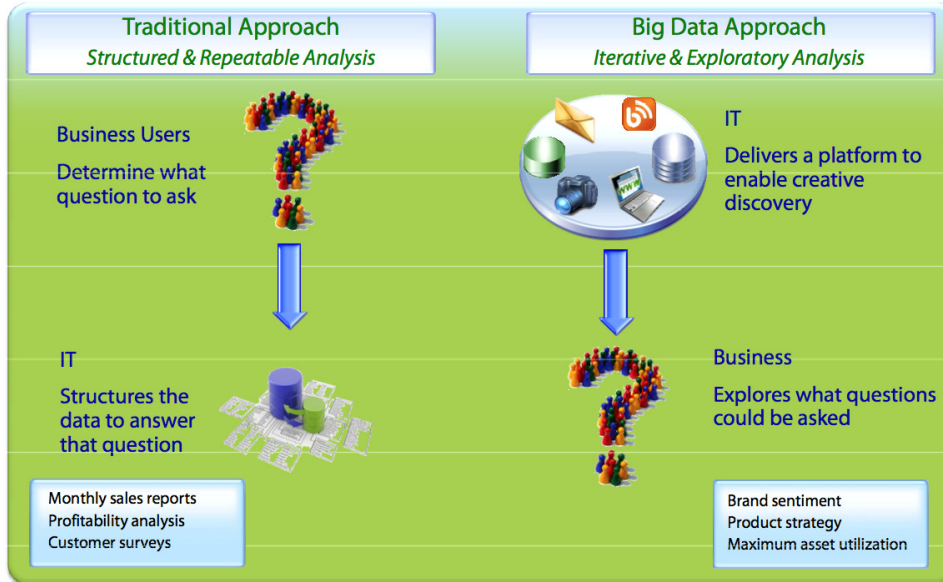


- Perform entity extraction from unstructured texts using advanced computational linguistics and natural language processing
- Organize unstructured data into meaningful, relevant and quantifiable knowledge automatically
- Building the data graph of the web via semantic understanding of content
- Connects people with relevant information without the need for human supervision
- Identify people, companies, organizations, topics, places and keywords; understands the relationship in the news flow, and puts them in context through interactive visualization workbench for refinement
- Support semantic reasoning and semantic query
- Link unstructured data to enterprise structure data via semantic transformation

+ Big Data: Requires new paradigms

Merging the Traditional and Big Data Approaches

Applications for Big Data Analytics



Addressing the Key Requirements

1. Platform for V³ – Variety, Velocity, Volume

- Variety - manage data & content "As Is"
- Handle any velocity - low-latency streams and large volume batch
- Volume - huge volumes of at-rest or streaming data

2. Analytics for V³

- Analyze Sources in their native format - text, data, rich content
- Analyze **all** of the data - not just a subset
- Dynamic analytics - automatic adjustments and actions

3. Ease of Use for Developers and Users

- Developer UIs, common languages & automatic optimization
- End-user UIs & visualization

4. Enterprise Class

- Failure tolerance, Security and Privacy
- Scale Economically

5. Extensive Integration Capabilities

- Integrate wide variety of sources
- Leverage enterprise integration technologies

Big Data Platform

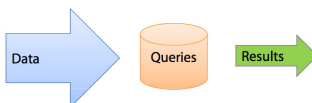


Working With Streaming Data: A New Paradigm

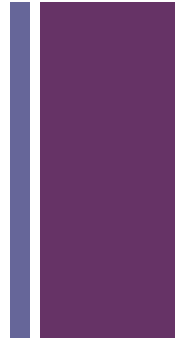
- Conventional processing: **static data**



- Real-time processing: **streaming data**

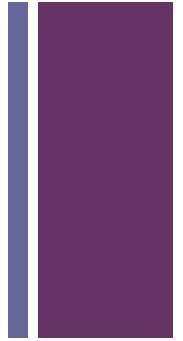


+ Themes



- Big Data
- Governance and Framework Development
- Measurement and Value

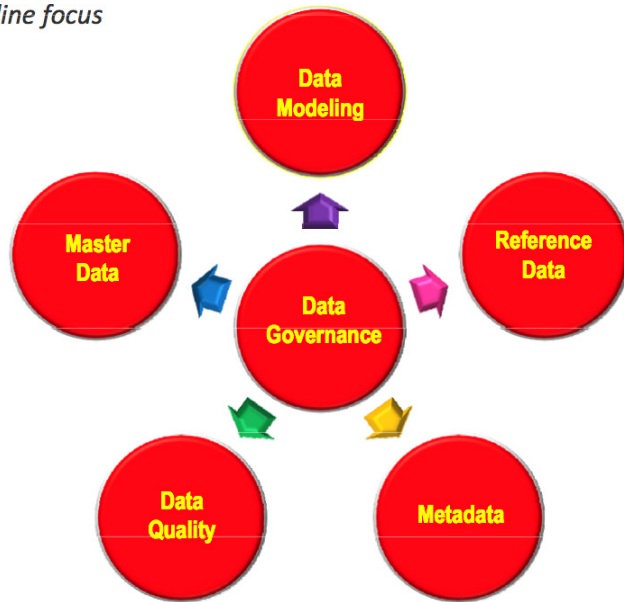
+ Walgreens: Initiating an Enterprise Information Framework



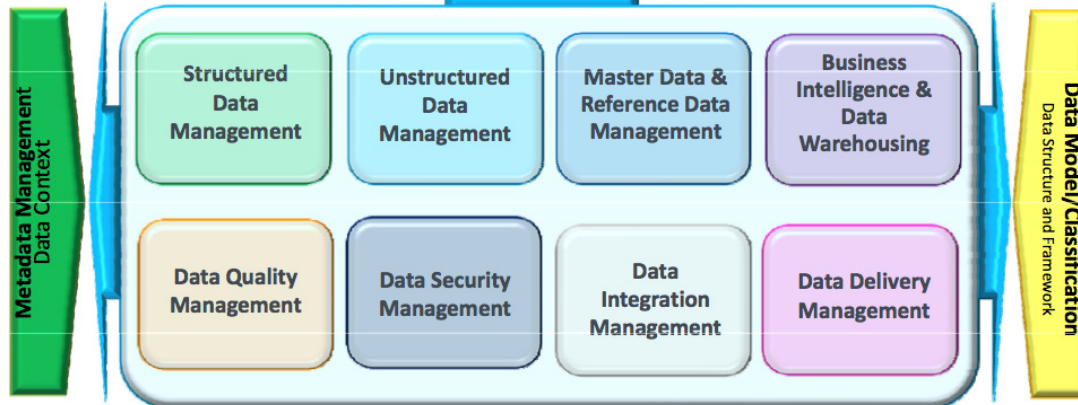
- Walgreens, USA
- 240,000 staff
- 784 million prescriptions filled in 2012
- Each store carries ~18,000 different items
- 8000+ stores, plus mail service, home services and health centres
- = a lot of data. Really.

+ Walgreens: EIM

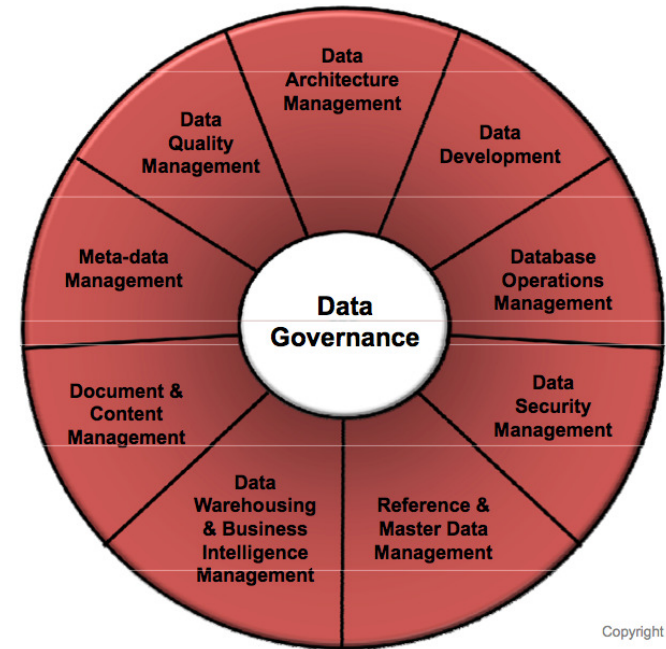
EIM discipline focus



Data Governance
Policies, Processes, Standards,
Organization, and Stewardship



Context with the DMBOK Framework



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+ Walgreens: EIM

Enterprise Information Management Framework

Challenges for EIM Programs

- No two EIM programs are the same. Differences include:
 - Organizational, political, and cultural differences in each organization.
 - Level of business and executive support.
 - Level of enterprise realization, support and seed funding.
 - ***Everyone wants enterprise until they have to pay for it.***
 - Data management maturity level.
- Adopt the best practices to your organization, while aligning to your unique data management state, business strategy and goals.
- Maintain a long-term enterprise focus while implementing incrementally and iteratively.

+ Walgreens: EIM

Data Governance

Program Components

