## The Evolution Of MDM-Content And Customer Data Mashup

By Gene Bishop



#### Who is this guy?

"When you combine great technologies, with great teams of people and leadership- the possibilities are endless."



- VP of Technology, ALM
- Career in media, publishing
- Develop, deliver and support solutions for customers internal and external.



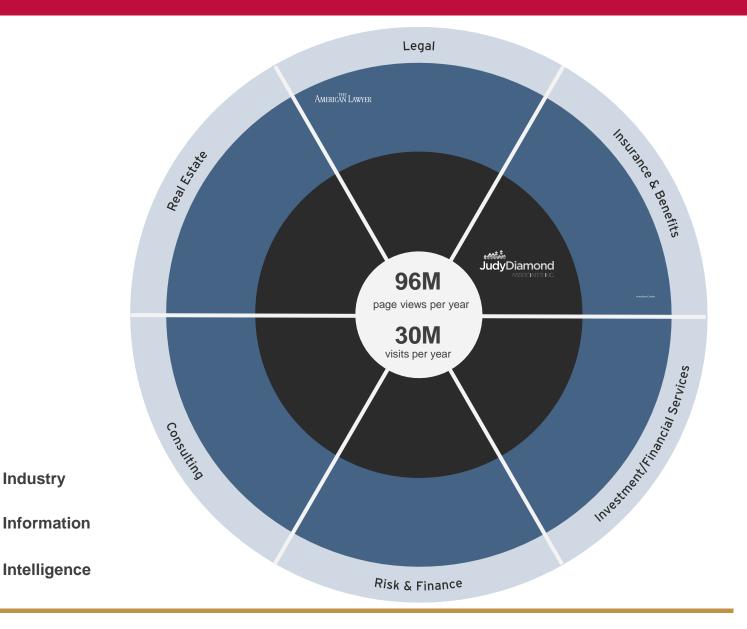


ALM, an information and intelligence company, provides customers with critical news, data, analysis, marketing solutions and events to successfully manage the business of business.

Customers use ALM solutions to discover new ideas and approaches for solving business challenges, connect to the right professionals and peers to move business forward, and compete to win through access to data, analytics and insight. ALM serves a community of over six million business professionals seeking to discover, connect and compete in highly complex industries.

#### **About ALM**

**Industry** 

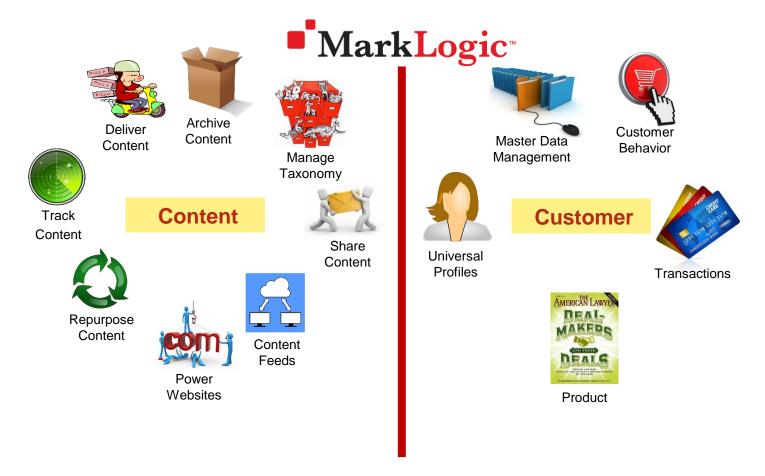




#### MarkLogic and MDM at ALM



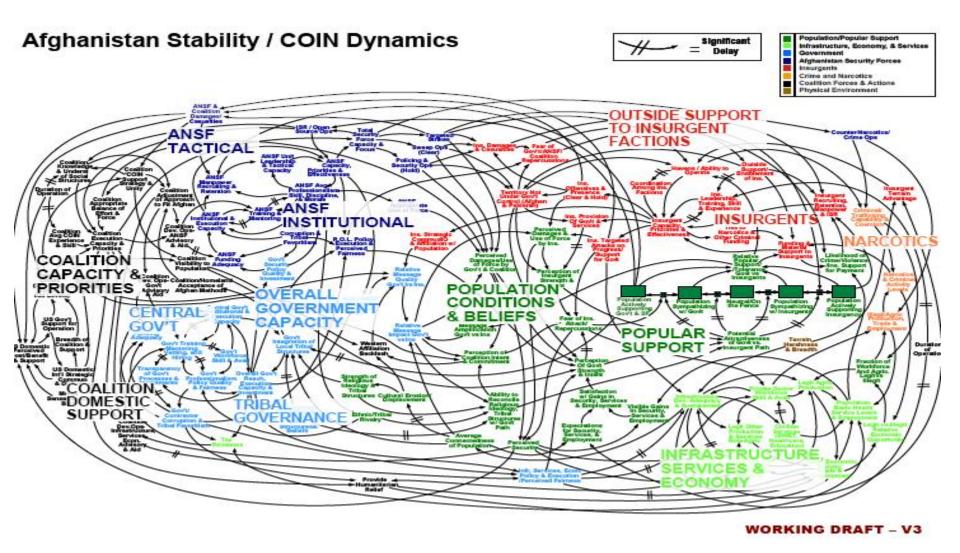
## MarkLogic At ALM



MarkLogic used both on content and business applications

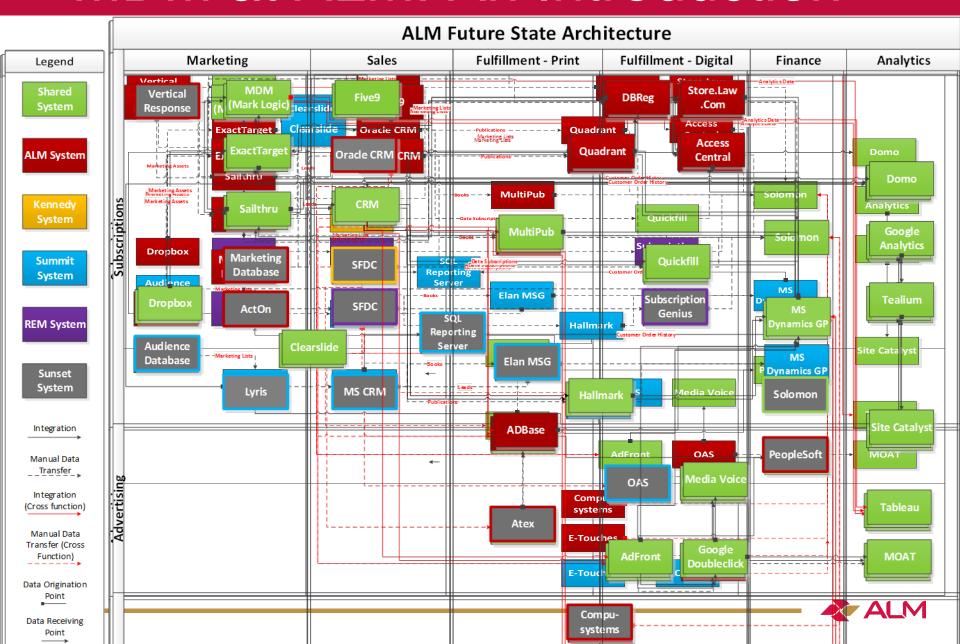


## Data Management at ALM

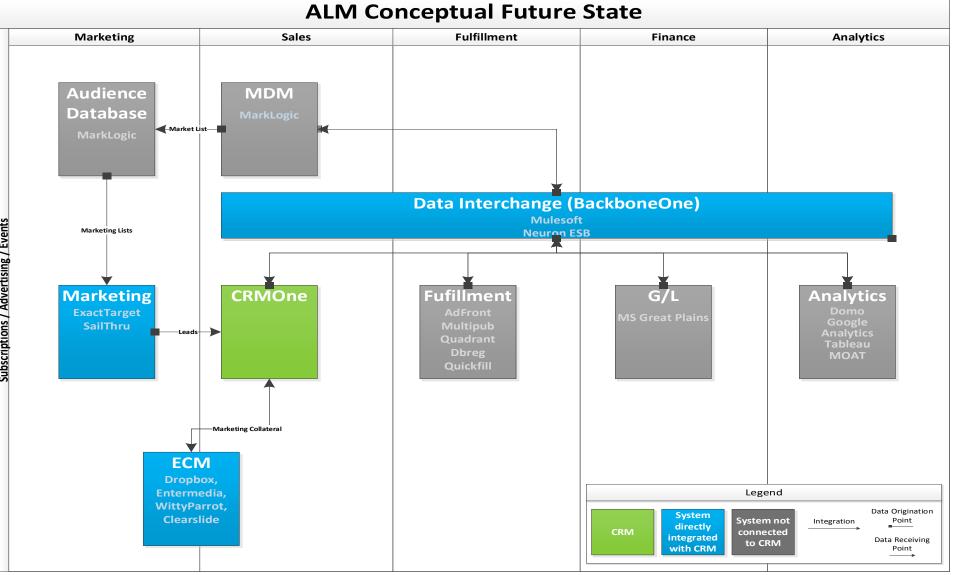




#### MDM at ALM: An Introduction

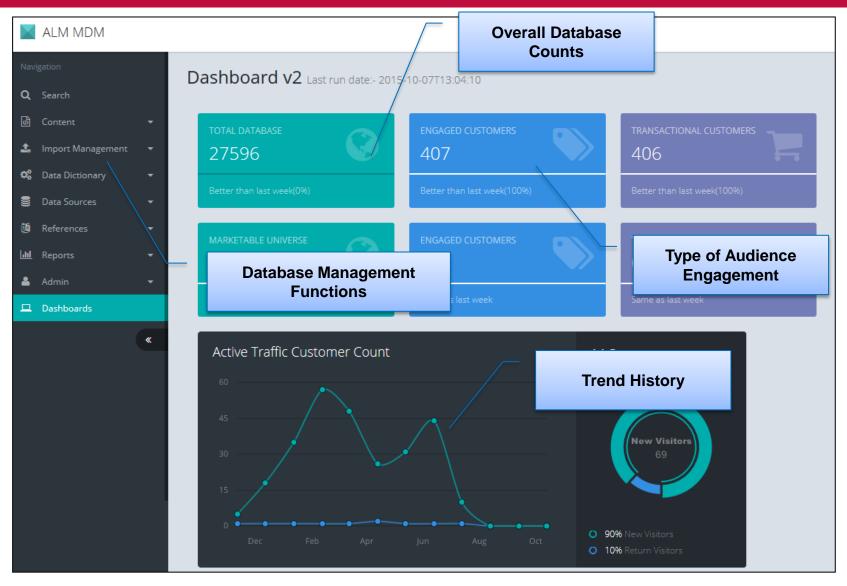


## Why MDM?



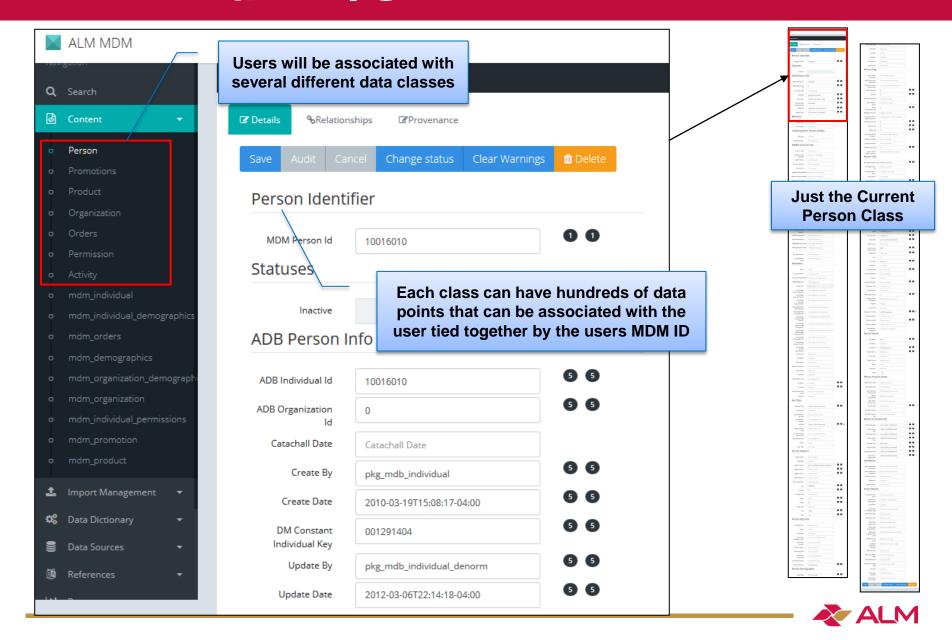


#### **MDM Dashboard**





#### **MDM Admin/UI**



#### The Content and Data Mashup



#### The Content and Data Mashup

- Bring Data together (Big Data)
- Put a fence around the data
  - Gatekeeper, Key Master
  - Data Access Rules, Business Rules
  - Data Governance
- Add Context And Connect to Content
  - Content, Taxonomy
- Make it available
  - Digital, Marketing, Sales, Audience Dev.

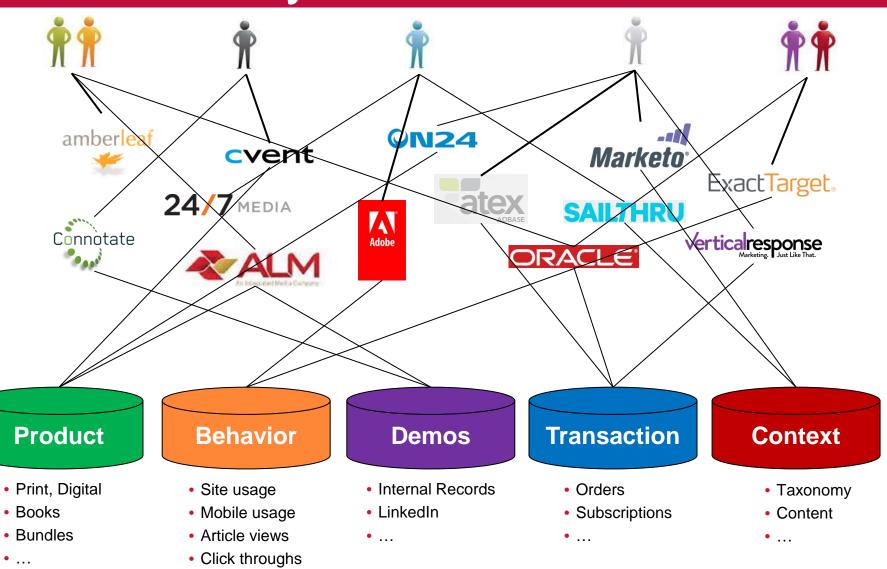


#### The Mashup Steps



## First: Identify The Data Buckets

Click stream





## Second: Define The Framework

#### **ALM-MarkLogic Proposed MDM Solution**

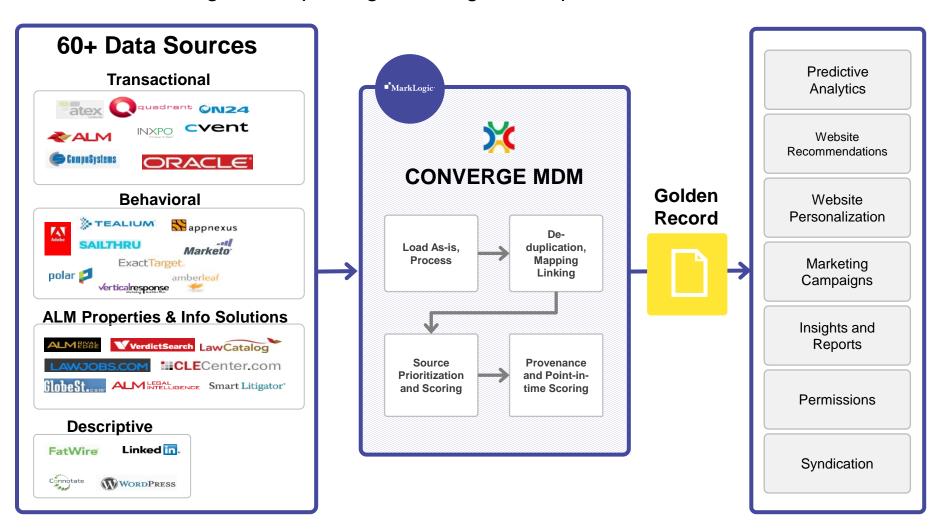
Platform	MDM Solution Architecture						Syndication		
	Ingestion (ELT/ETL)				MetaData Management	Search & Discovery	Reporting	Recommendation	Export
	Entity Resolution	Transformation & Normalization	Linking	Provenance	MetaData Management	Search Interface	ODBC Interface Report Config.	Clustering	Data Syndication
Module Features	Duplicate Detection	Data Mapper	Relationship Mapper	Transaction Audit Trail	MetaData Editing	Faceted Search	Alerting	Rules Engine Clustering	Excel/CSV Export
	Data Source Priority	Authority Normalizer	Entity -> Practice Area	Provenance Logging	Audit Logging & Instrumentation	Browse Navigation	Report Writer (Rules -> Export)	Scenario Modeling	Data Push HTTP
	Quality Scoring	National Change of Address	Entity -> Entity	Point In Time Versioning	Policy Based Editing	Data Analyzer			Custom Integrations (Unica, Exact Target, Oracel CRM)
	Data Source Integration		Entity -> Ontology		Data Dictionary				
					Ontology/Linking Management				
	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations	Other ALM Customizations

Key: Phase 1 Customization/ Peature Block Feature Category



## Third: Bring Data Together

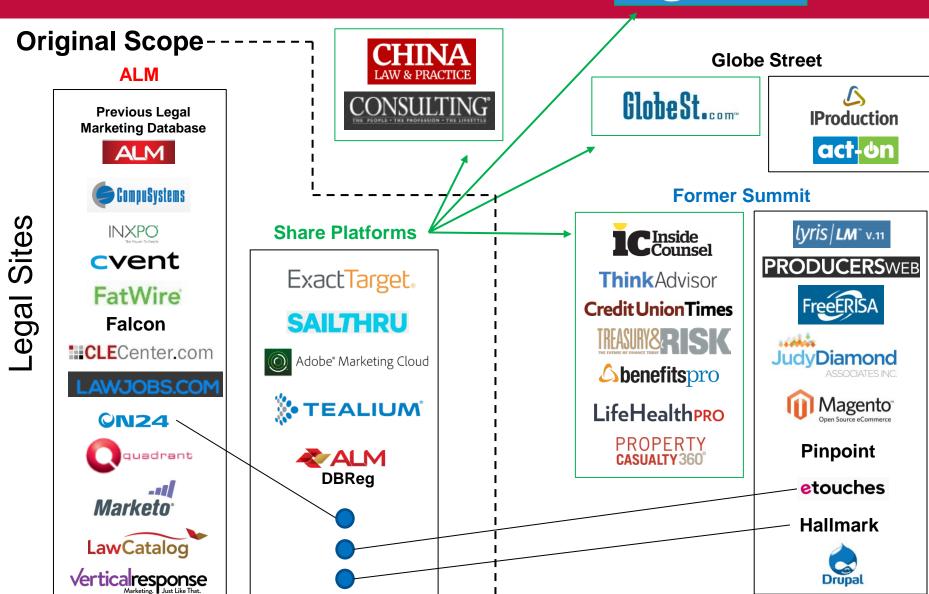
Built from the ground-up using MarkLogic Enterprise NoSQL Database





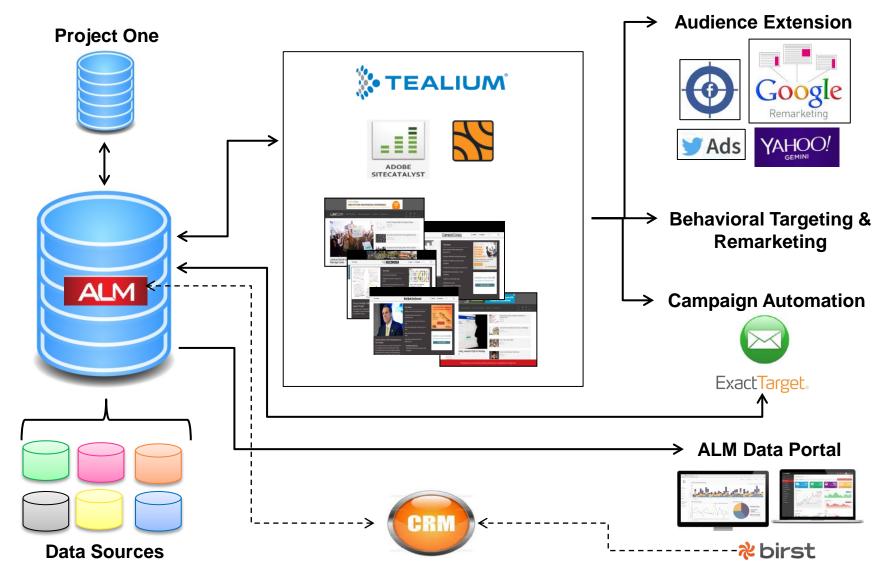
#### **ALM Data: MDM**





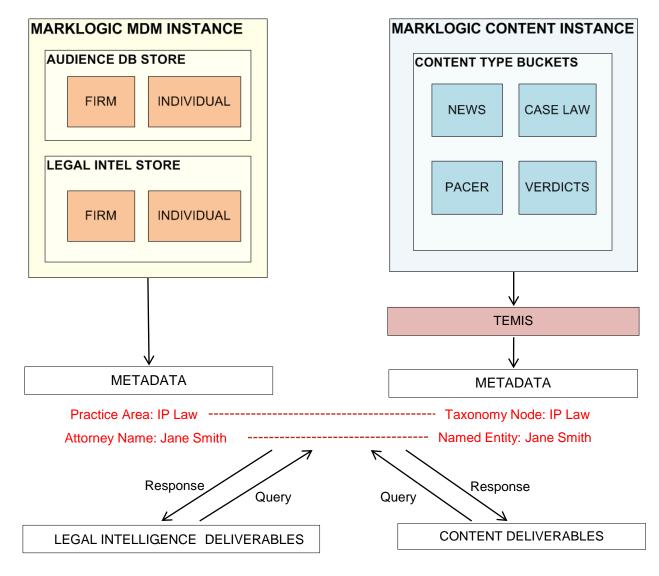


## ALM Data Ecosystem





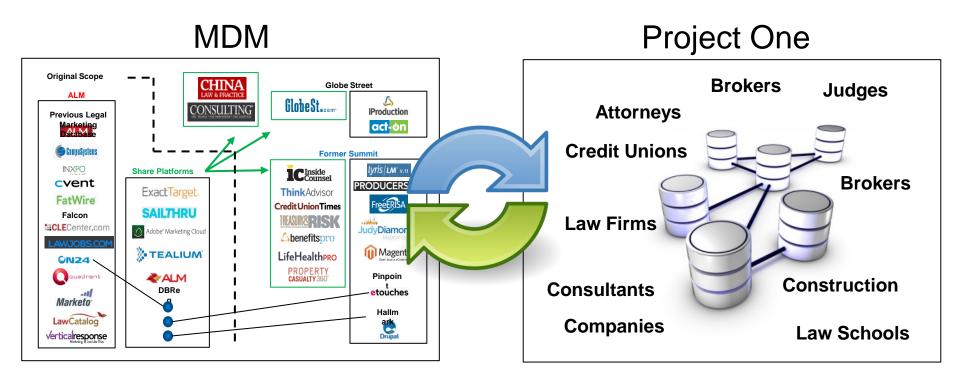
#### Fourth: Add Context and Content





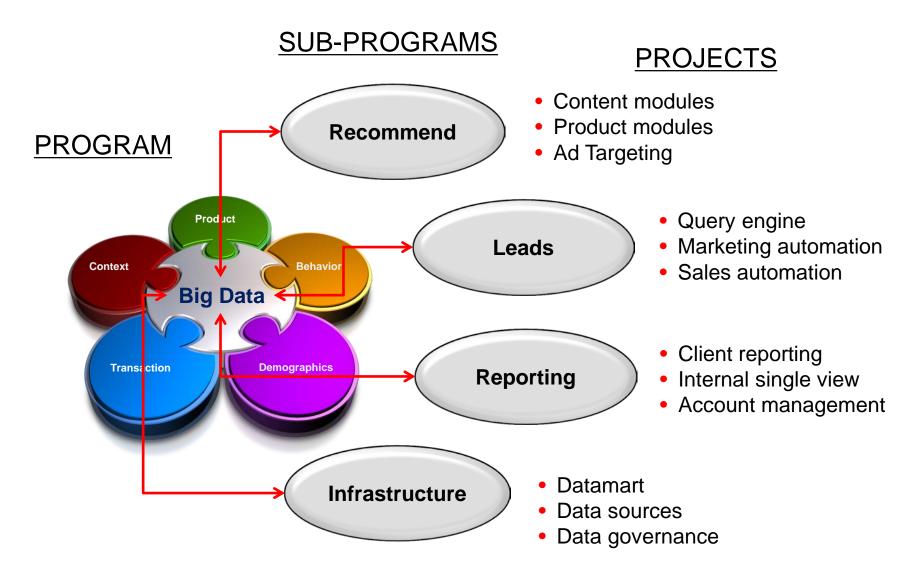
#### The Content and Data Mashup

Also now need to coordinate efforts on the Project One initiative as well...



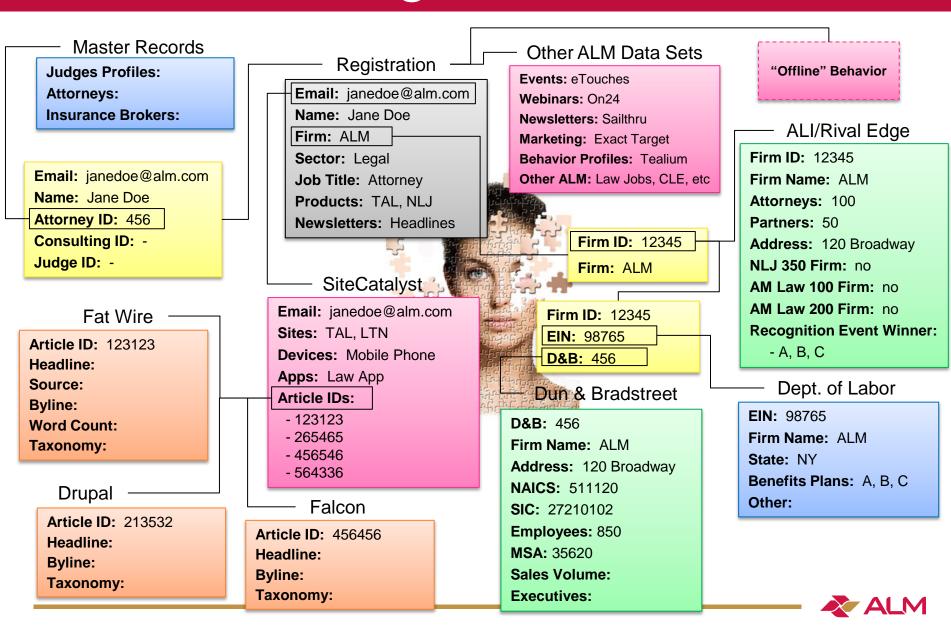


#### Fifth: Phase The Rollout





## Sixth: Leverage

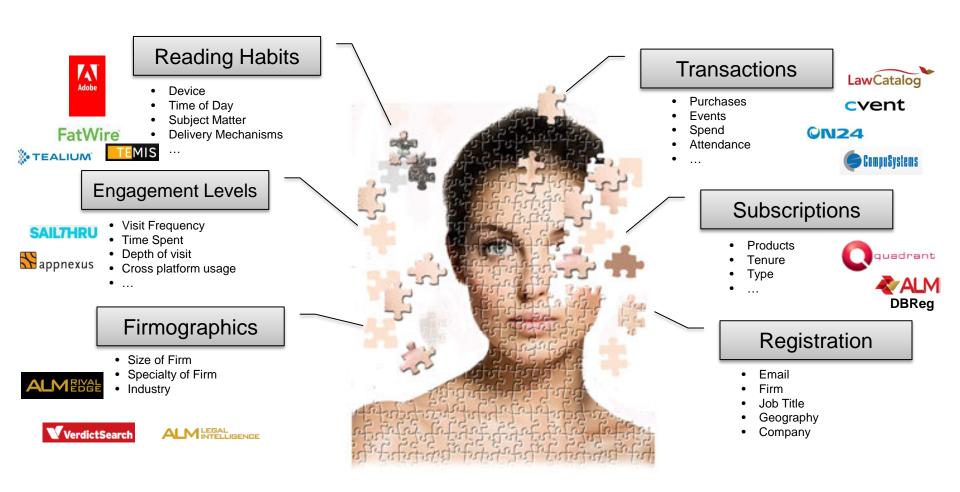


#### Leverage The Mashup

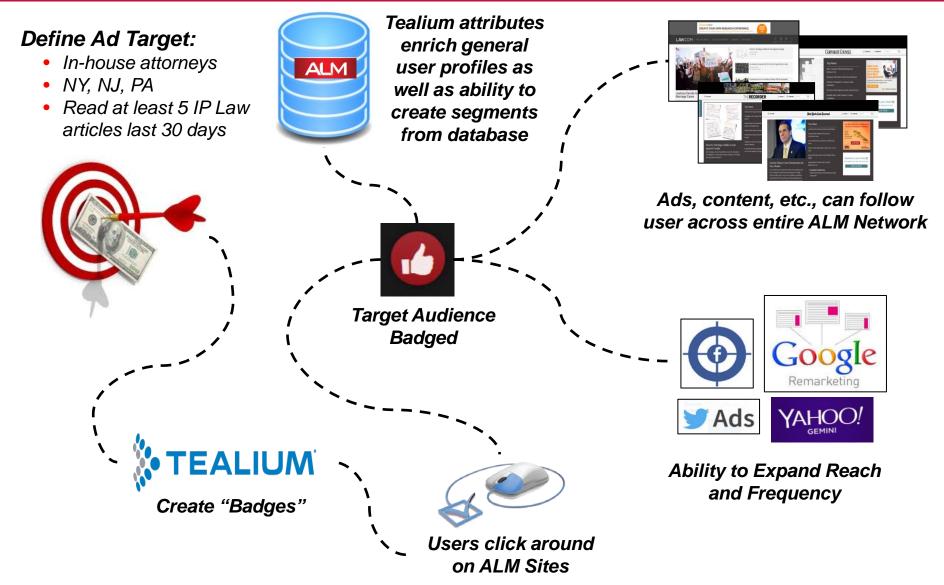


#### Leverage 1: Customer Profiles

As a media company, with multiple touch points, we gather unique insight into our customers.



## Leverage 2: Audience Targeting





#### Leverage 3: Article Taxonomy

#### **Categories**

#### **Practice Areas**

- Parent
- Child
- Grandchild

Subject

Organization

Industry

All ALM legal pub articles tagged with values from a set article taxonomy

# FIFA Taps Quinn Emanuel Amid Ongoing Corruption Probe, As Others Grab Key Roles Marlisse Silver Sweeney, The Am Law Daily June 4, 2015 | 0 Comments SHARE PRINT REPRINTS

Joseph "Sepp" Blatter, who resigned this week as president of FIFA.

William Burck of Quinn Emanuel Urquhart & Sullivan has taken the legal field for the Fédération Internationale de Football Association as soccer's global governing body is rocked by corruption charges against nine of its officials and five corporate executives. Burck has been retained within the past month by the Zurich-based organization, according to sources briefed on the matter.

The sweeping 47-count indictment announced on May 27 by U.S. Attorney General Loretta Lynch and Kelly Currie, acting U.S. attorney for the Eastern District of New York, includes charges for racketeering, wire fraud, money laundering conspiracies and a 24-year plan in which FIFA higher-ups allegedly corrupted international soccer to get rich.

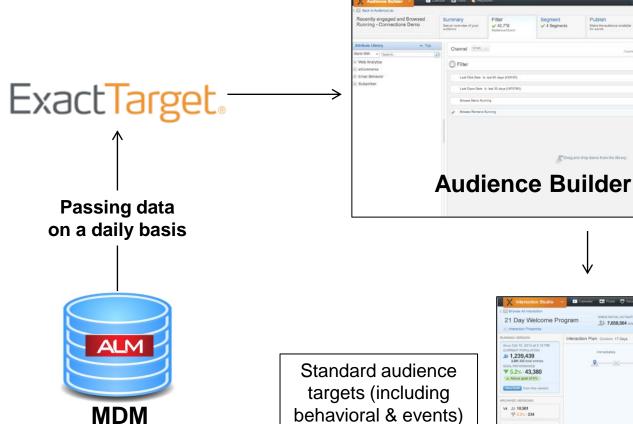
#### **Example Values**

- White Collar Crime

- Law Firm Client Relationships
- Law Firm Partners
- Large Firms
- Government
- Non-Profit
- Entertainment



## Leverage 4: Exact Target 2.0



No more separate list pulls for follow up campaign waves - 30% of monthly requests

can be created directly in ET



42,778 🗸



#### Leverage 5: BI Platform: Birst

#### Improved Dashboards

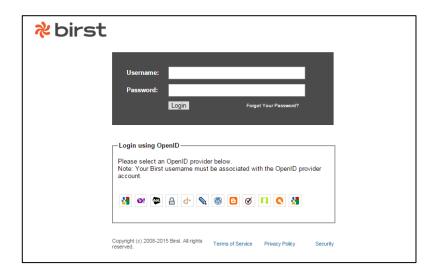
- a. More flexible reporting
- Easier templated reporting (so easier/faster to duplicate dashboards)
- c. Better design layout capabilities

#### 2. Better scalability

- a. Not limited by seat licenses
- b. White label capability for possible "ALM" client login portal

#### 3. Better Integration

- a. Integrations and with Salesforce
- b. Single sign on options within ALM

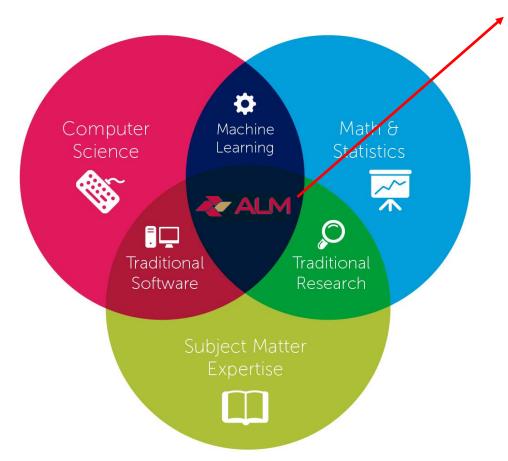






#### The Future

#### Where We Are Headed: Data Science



Project	Approach				
Acquisition modeling – order & registrations	Random Forests, Boosting, Bagging, Trees				
Lead Scoring	Bayesian, Recommender Systems				
Content Optimization	Data Envelopment Analysis, Optimization				
Content Recommendations	Neural Networks, Clustering				

- Modeling is an iterative process -no overnight solutions
- Models only as good as the data importance of the MDM and Data Quality initiatives

