

# Smarter Analytics 2012

*Analysis of Unstructured Content enhances data analytics  
and improves decision making*



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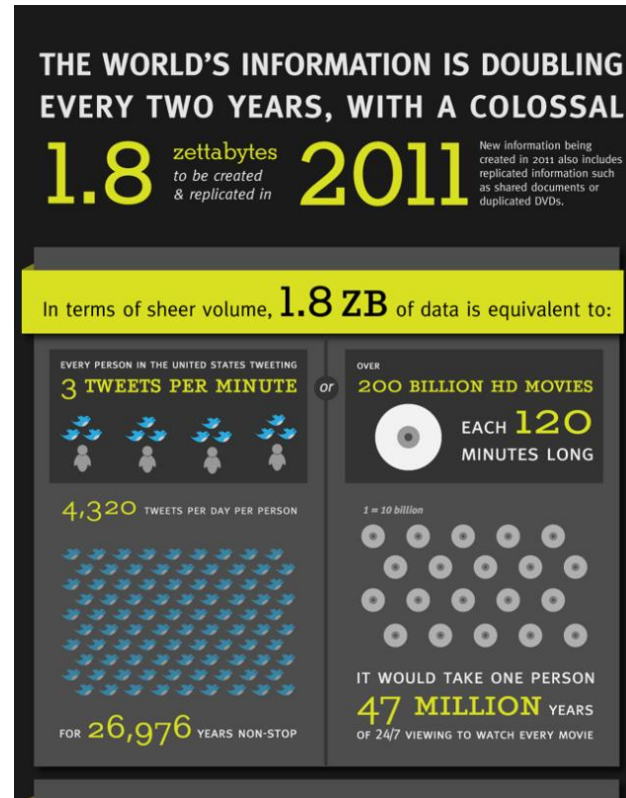
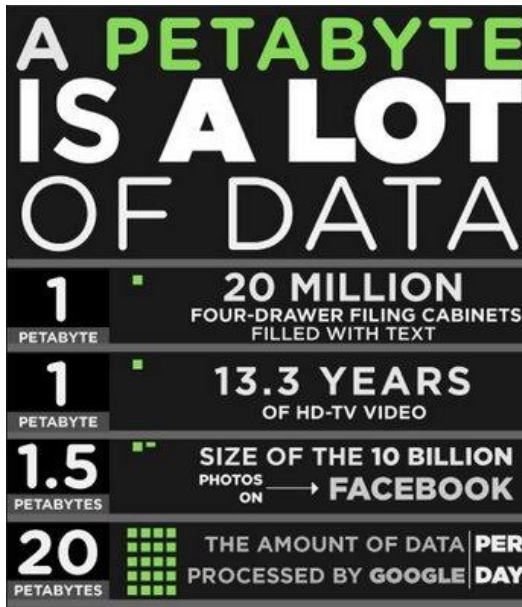
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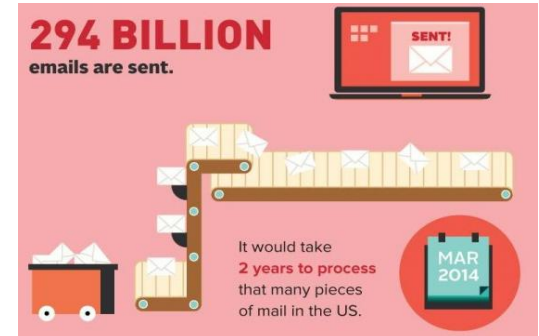
Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

All the data that existed up to 2003, we generate now in 2 days.

Every day, 5 Exabytes of data are created

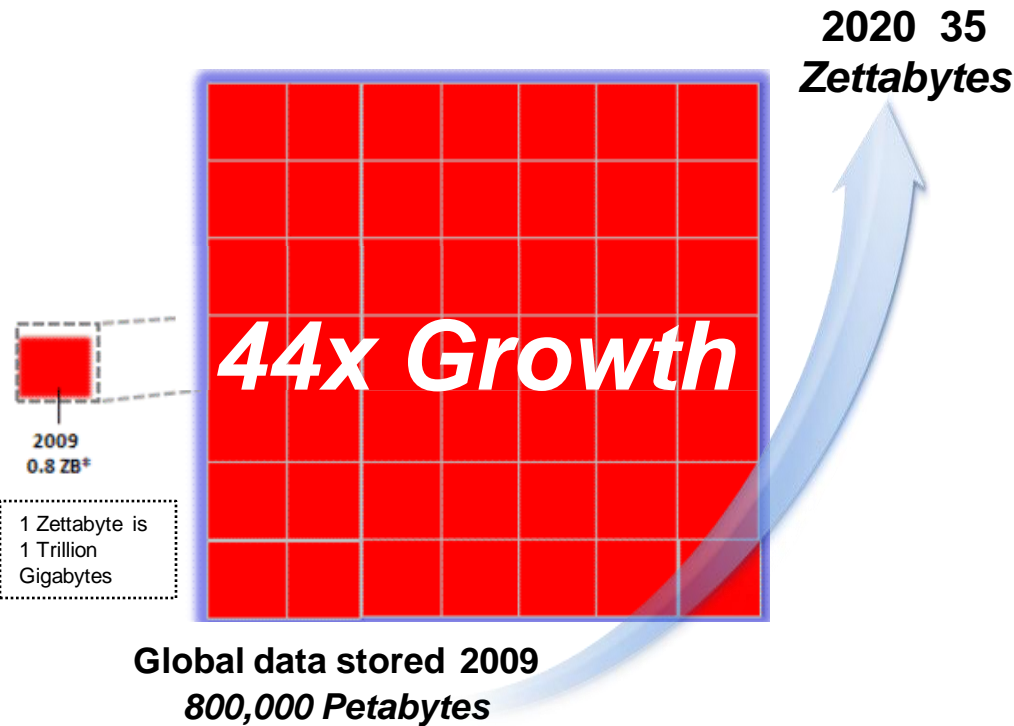


- 1 Gigabyte = 1,000,000,000
- 1 Terrabyte = 1,000,000,000,000
- 1 Petabyte = 1,000,000,000,000,000
- 1 Exabyte = 1,000,000,000,000,000,000**
- 1 Zetabyte = 1,000,000,000,000,000,000,000
- 1 Yottabyte = 1,000,000,000,000,000,000,000,000



# All this information is at the Center of a New Wave of Opportunity...

... and Organizations Need Deeper Insights



**1 in 3**

Business leaders frequently make decisions based on information they don't trust, or don't have

**1 in 2**

Business leaders say they don't have access to the information they need to do their jobs

**60%**

of CEOs need to do a better job capturing and understanding information rapidly in order to make swift business decisions

**80%**

Of the world's data is unstructured



# Why should you care about the growth in data and information being created?

Because your competitors who are using Analytics today are improving their business decisions...



**5.4x**

Top performers are 5.4X more likely to use an analytic approach over intuition

**83%**

of CIOs cited “Business intelligence and analytics” as part of their visionary plans to enhance competitiveness

**3x**

Organizations that lead in analytics outperform those who are just beginning to adopt analytics

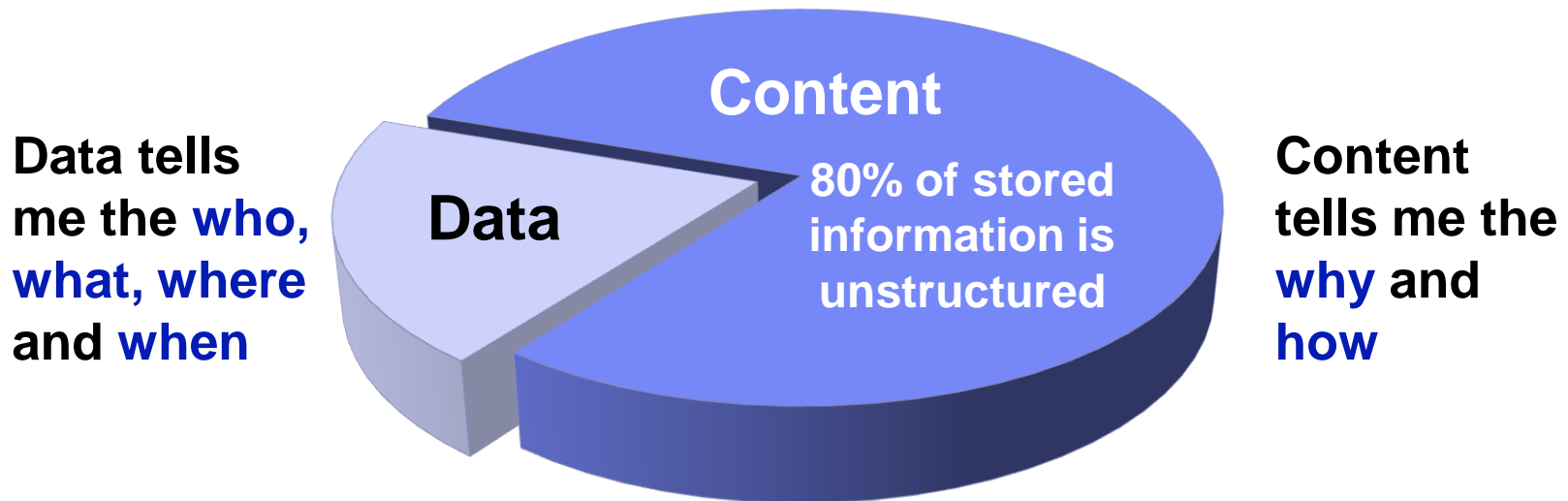
**57%**

increase in respondents saying analytics creates a competitive advantage: increased from 37% in 2010 to 58% in 2011

**2.2x**

Organizations achieving a competitive advantage with analytics are 2.2x more likely to substantially outperform their industry peers

Together, data and content represent the complete business context, but **Content** is 4/5 of all information



Most business analytics initiatives are about data.

Analysing your Unstructured Content requires a new approach....

# Traditional approaches to Analytics are **converging**

## More than keyword search is needed

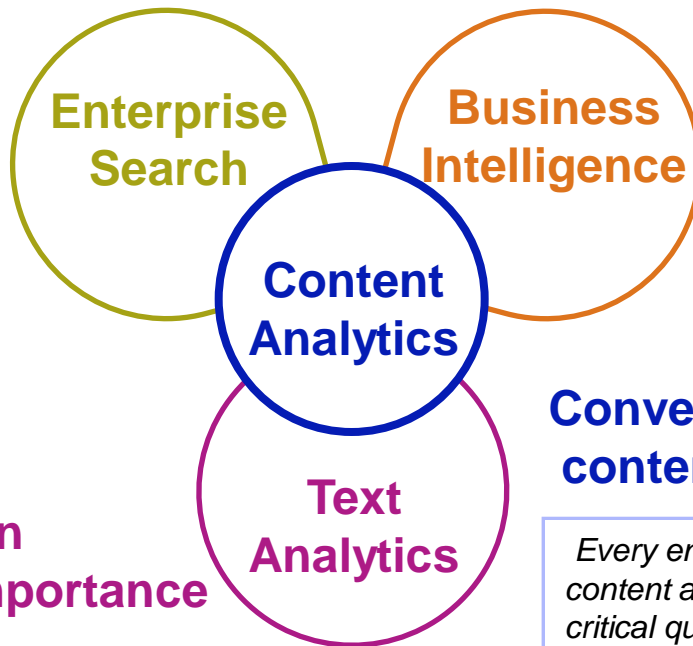
*Making unstructured data searchable is now a presumed primary interface for applications of all kinds, as well as for intranets and content repositories.”*

– Whit Andrews, Rita Knox Gartner

## Analyzing unstructured content no longer optional

*“For many business process professionals, access to structured data, even when supported by BI or predictive analytics, lacks sufficient context for customer service, finance, and other areas where communications with customers involves many channels”*

– Craig Le Clair Forrester



## Increasing in business importance

*Early adopters of [text analytics] are already gaining a competitive advantage. Organizations that fail to do so will be at risk.”*

– Sue Feldman IDC

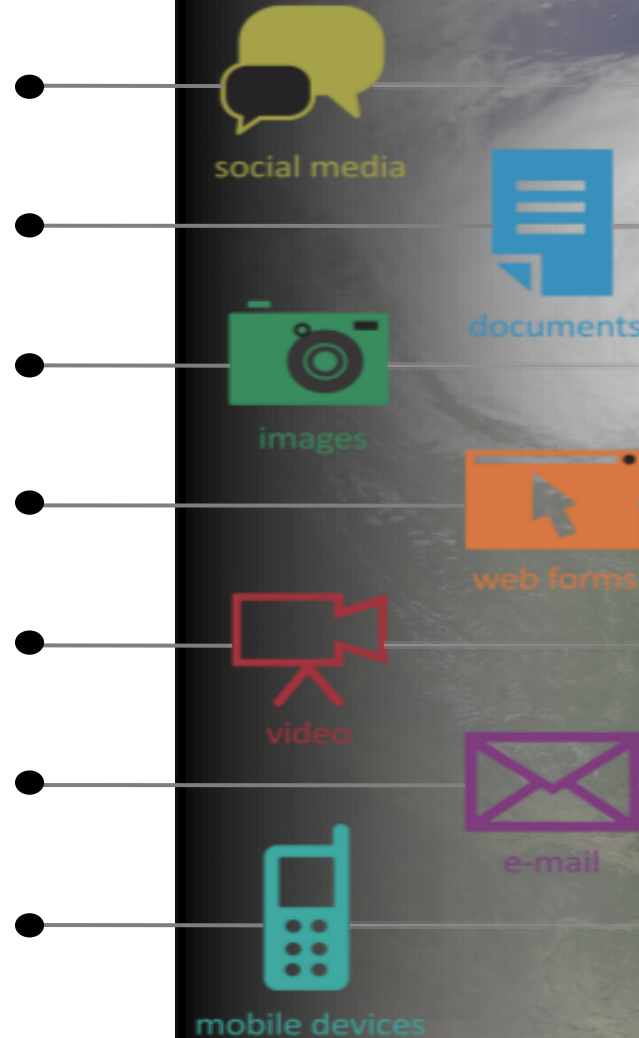
## Converging toward content analytics

*Every enterprise should understand how content analytics can produce answers to its critical questions; understanding this now will make it possible to exploit these tools as their availability proliferates.”*

– Rita Knox Gartner

# How do you separate the **signal** from the noise?

Leveraging content requires the ability to **search, assess** and **analyze** large volumes of **text** in order to understand and determine relevant **insight** quickly ... from multiple information sources **inside and outside the firewall**.





## IBM Content Analytics combines the power of Analytics with the scale of Enterprise & Website Text Search

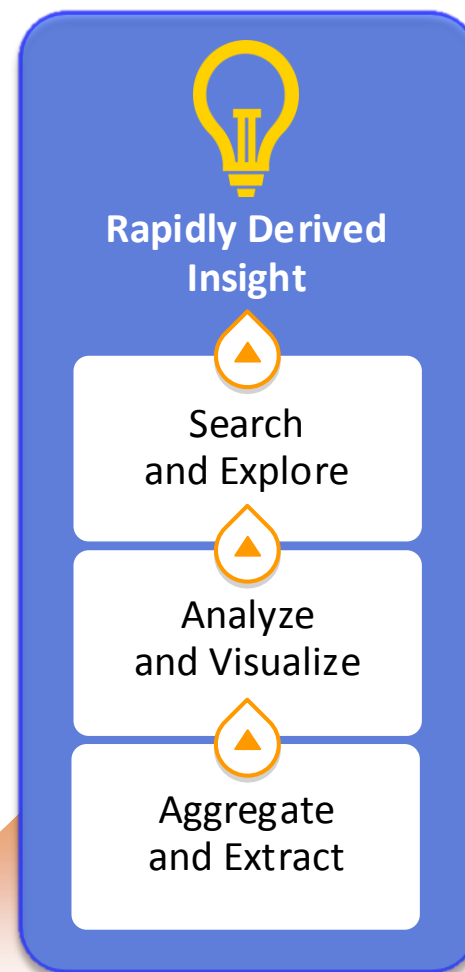
Mine **unstructured information** to improve service levels and build relationships

Transform raw information into **business insight quickly** without building models or deploying complex systems.

Visually identify and explore **trends, patterns,** and statistically relevant **facts.**

Gain **deeper understanding** of existing customers  
Discover cross-sell or up-sell **opportunities**

Key Point – Content Analytics is about the **discovery of information,** not keyword search



External and Internal Content (and Data) Sources including Social Media and More

# IBM Leadership in Search, Text Analysis and Classification

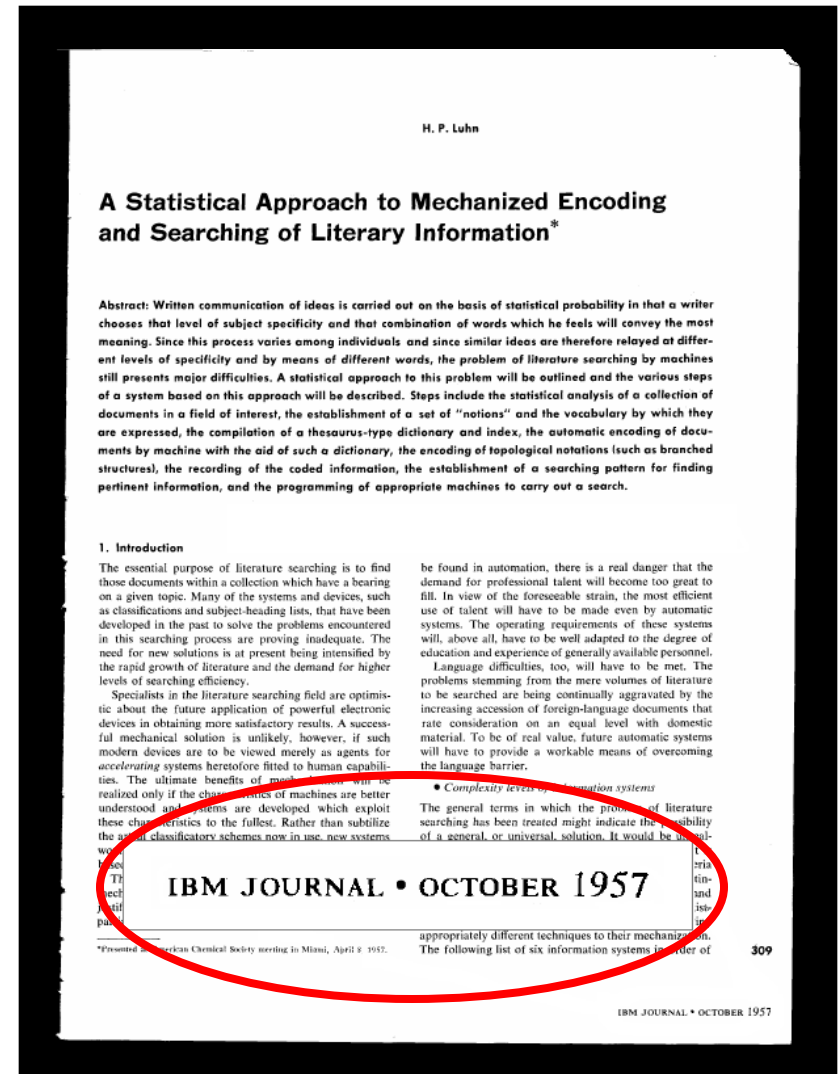
IBM has a **50+ year history** in text analysis and discovery

In 1957, IBM published pioneer research done on text classification (and related topics, such as text search, and automatic creation of text abstracts)

IBM invests ~\$50M annually in research and development for search and text analytics

Over **200 people** actively engaged in R&D

IBM holds over **200 patents** in information access with more each year



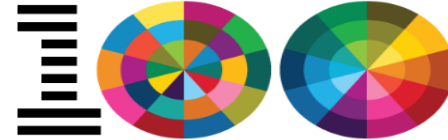
# IBM: 100 Years of Innovation

## TAKMI

Bringing Order to Unstructured Data

巧み = skillful, clever

匠 = craftsman, artisan



***“I didn’t invent TAKMI to do something humans could do, better. I wanted TAKMI to do something that humans could not do.”***

*Nasukawa-san*

IBM EXPERT



**Tetsuya Nasukawa,**  
Dr. Nasukawa joined IBM in 1989, and has been leading text mining projects since 1997, including sentiment analysis, conversation mining and cross-lingual text mining. Prior to text mining, he was involved in machine translation and digital library projects.

TAKMI: BRINGING ORDER TO UNSTRUCTURED DATA

**IBM Solutions Today**

IBM ContentAnalytics is the commercially available version of TAKMI.

IBM Content Analytics  
CRM Analytics Software and the Contact Center of the Future

In 1997, IBM researchers at the company’s Tokyo Research Laboratory pioneered a prototype for a powerful new tool capable of analyzing text. The system, known as TAKMI—for Text Analysis and Knowledge Mining—was a watershed development: for the first time, researchers could efficiently capture and utilize the wealth of buried knowledge residing in enormous databases of text.



Home > Podcasts > Business & Management

**Mining the Talk: Unlocking the Business Value in Unstructured Information – Part 1 (audio)**

Scott Spangler describes how to unlock the business value hidden in unstructured data (word processing docs, websites, emails, instant messages). Learn about breakthrough opportunities to become responsive, agile, & competitive. Part 1 of 2.



Topics: Business & Management, Home & Office Computing



## UIMA: Unstructured Information Management Architecture

..an open, industrial-strength platform for unstructured information analysis and search. Developed by IBM. Now Apache Open Source project and OASIS standard



## IBM Content Analytics adds value to...

**Healthcare Analytics**

- **Analyzing:** Patient care, hospital reports
- **For:** Clinical analysis; treatment protocol optimization
- **Benefits:** Better management of chronic diseases; optimized drug formularies; improved patient

**Voice of the Customer**

- **Analyzing:** Call center logs, emails, online media
- **For:** Buyer Behavior, Churn prediction
- **Benefits:** Improve Customer satisfaction and retention, marketing campaigns, find new revenue

**Crime Analytics**

- **Analyzing:** Case files, police records, 911 calls...
- **For:** Rapid crime solving & crime trend analysis
- **Benefits:** Safer communities & optimized force deployment

**Insurance Fraud**

- **Analyzing:** Insurance claims
- **For:** Detecting Fraudulent activity & patterns
- **Benefits:** Reduced losses, faster detection, more efficient claims processes

**Automotive Quality Insight**

- **Analyzing:** Tech notes, call logs, online media
- **For:** Warranty Analysis, Quality Assurance
- **Benefits:** Reduce warranty costs, improve customer satisfaction, marketing campaigns

**Social Media for Marketing**

- Analyzing:** Call center notes, SharePoint, multiple content repositories
- For:** churn prediction, product/brand quality
- Benefits:** Improve consumer satisfaction, marketing campaigns, find new revenue opportunities or product/brand quality issues

## New York Police Department

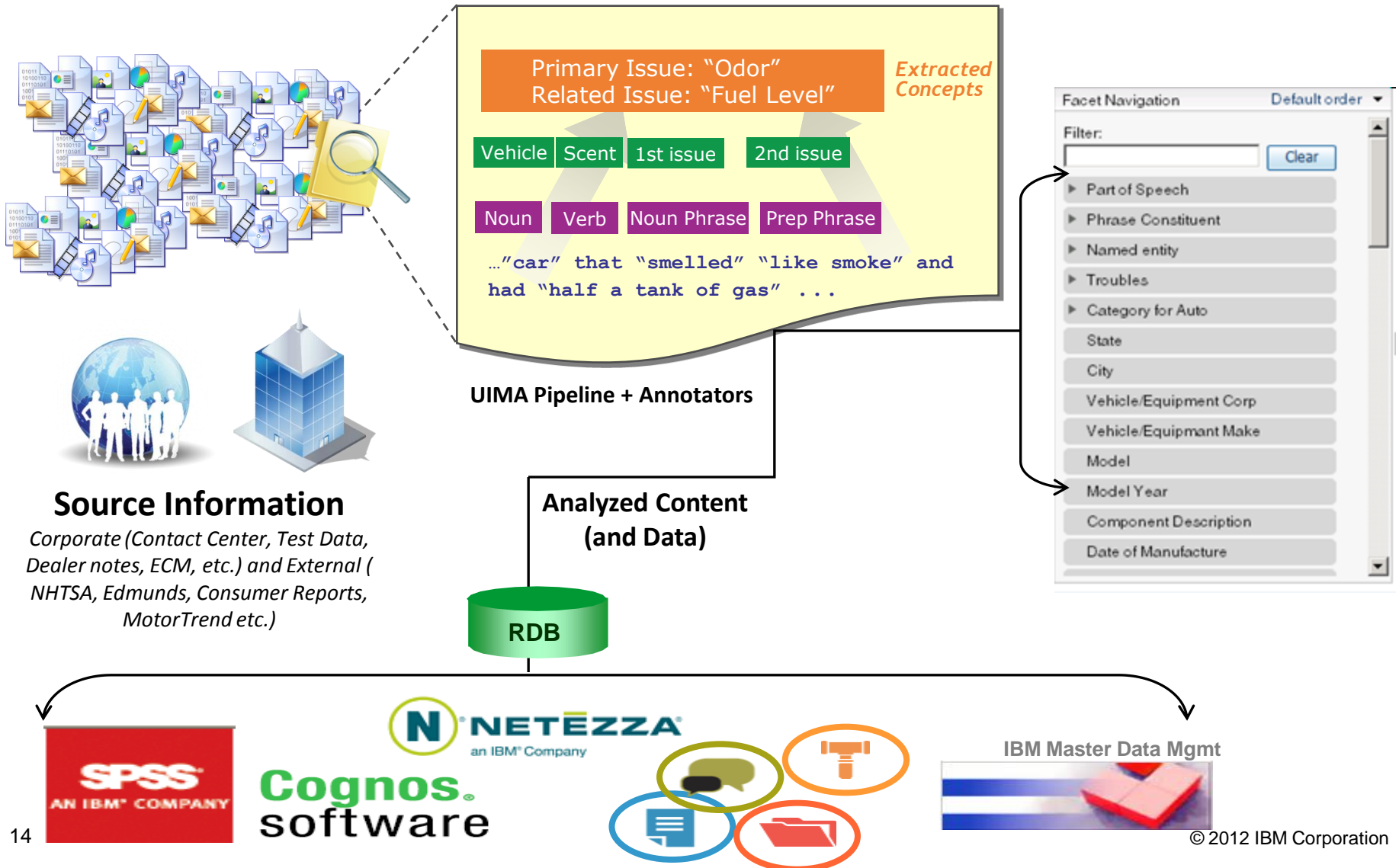
Smart is: **reducing** crime

- Search and analyze complaints, police reports, 911 records, arrest records, and data marts
- All of these types of Text have the common problems of call center text i.e. abbreviations, misspellings, synonyms (Police-specific i.e. perp, ML, FM, MO, pistol, gun, etc...)
- Content Analytics can analyze concepts and find similar situations described in different ways
- In the first week of deployment 2 unsolved (years old) murder cases were solved

## New York Police Department's Real Time Crime Center uses Content Analytics to solve cases



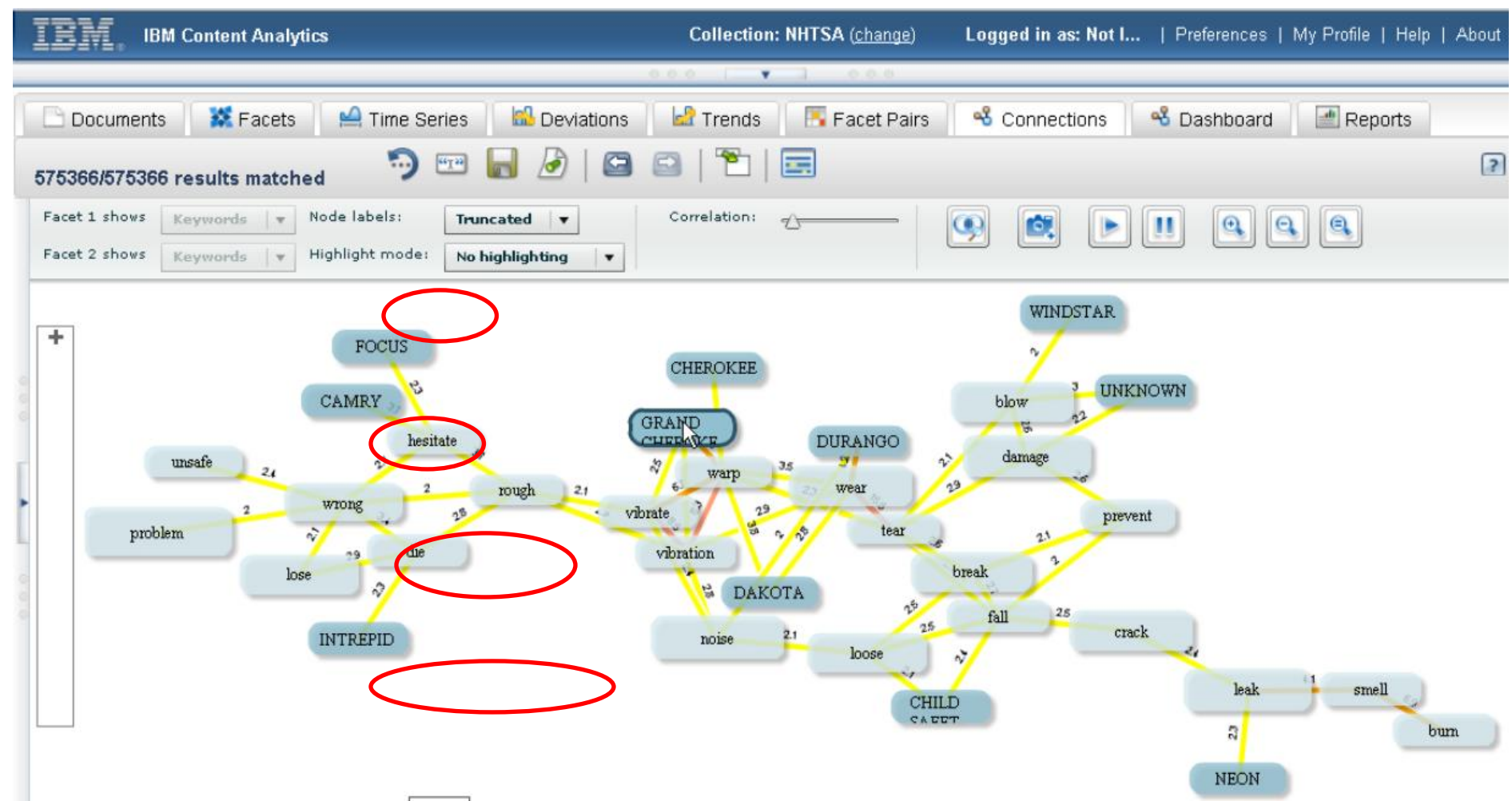
# Content Analytics: How does it work? (Top USA Car Model problems)



# Content Analytics explore relationships between Car problems: **Free Text Values**

By exploring the relationship between documents from different sources you can quickly identify unusual correlations or anomalies that might require further investigation.

Example **Oil Leaks, Windshield Cracks, Flat Tyre or Vibration**

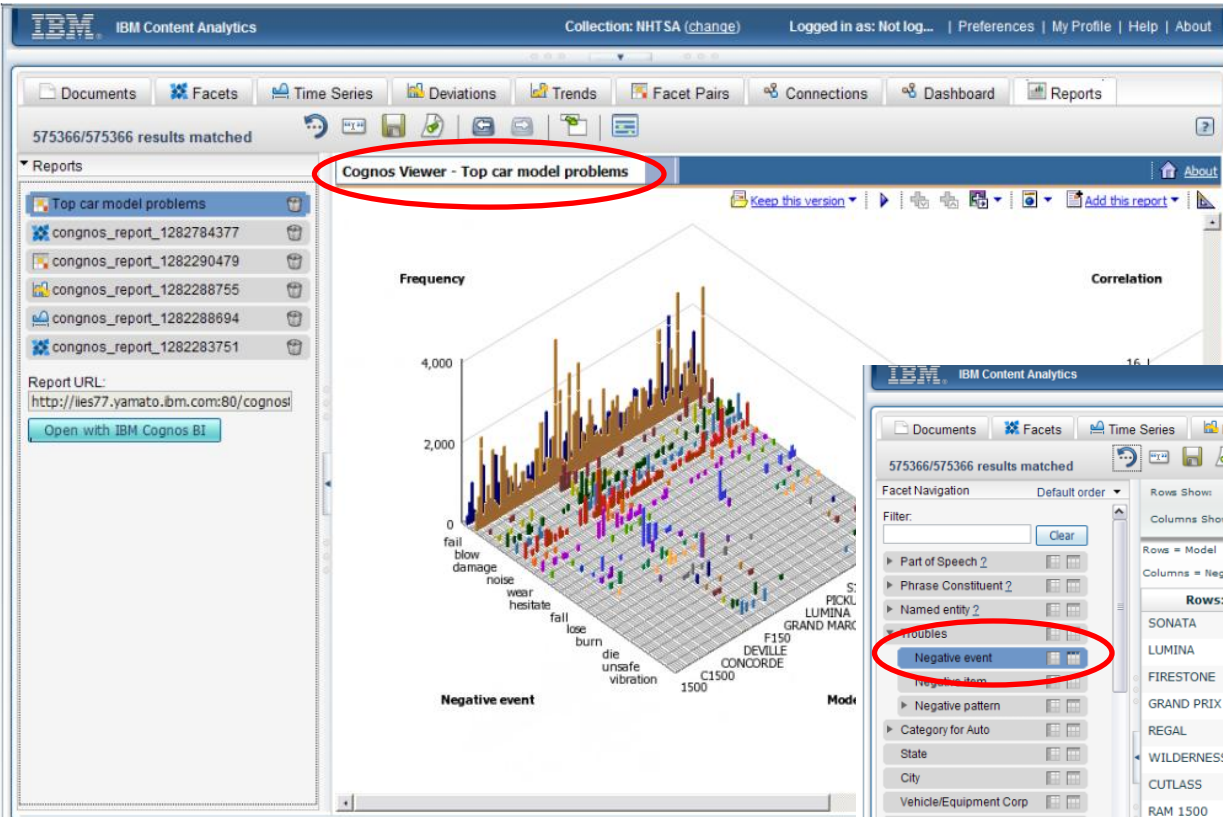






# Combine IBM Content Analytics with Cognos BI

Creating reports in Content Analytics, Business Analysts can gain unique insights by examining the unstructured data which is usually in a **Free Text** format in using Cognos.



575366/575366 results matched

Facet Navigation

Filter:

Clear

Part of Speech 2

Phrase Constituent 2

Named entity 2

Problems

Negative event

Negative item

Negative pattern

Category for Auto

State

City

Vehicle/Equipment Corp

Vehicle/Equipment Make

Model

Model Year

Component Description

Date of Manufacture

Date of Purchase

Date of Fail

Anti-Lock Brakes?

Crash

Rows Show: Keywords

Filter Rows:

Columns Show: Keywords

Filter Columns:

Rows = Model

Columns = Negative event

Correlation Amount: Low High

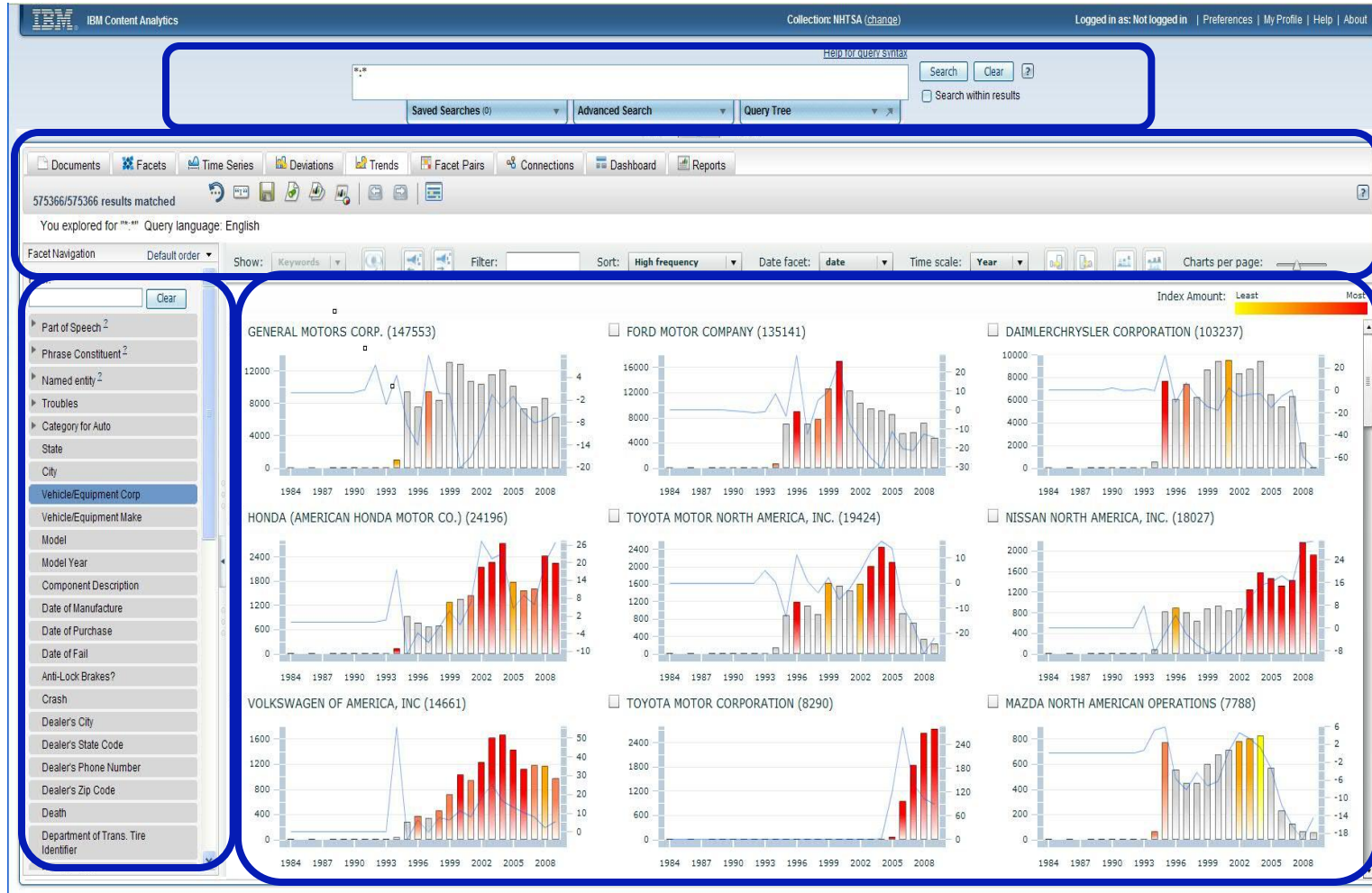
Rows:Model	Columns:Negative event	Frequency	Correlation
SONATA	cradle	48	17.3
LUMINA	cradle	89	16.9
FIRESTONE	blowout	389	15.2
GRAND PRIX	cradle	82	12.3
REGAL	cradle	45	11.1
WILDERNESS	blowout	113	10.5
CUTLASS	cradle	27	9.0
RAM 1500	crack	774	7.8
PASSAT	creak	18	7.4
GRAND CHEROKEE	warp	628	6.9
CONCORDE	cradle	30	6.6
WILDERNESS	blow	267	5.0
CAMARO	warp	83	5.0
INTREPID	cradle	53	4.8
VILLAGER	smell	150	4.4
DURANGO	wear	713	4.2

# Content Analytics: Top Car Model Problems Dashboard

Search Query Exploration

Views, Filters and Thresholds

Automatically Extracted and Analyzed Concepts, Entities, Relationships, Meta Data and Classifications



Visualization with Drill Down for Exploration and Assessment

## Government Agency: Responsible for global threat identification

This organization is a government intelligence agency responsible for identifying and mitigating global terrorist threats to enhance the security of their citizens at home and abroad.

### Uncovering new insights

#### Business Challenge

How to build a social network analysis of all terrorists and related persons of interest from multiple information sources and documents

#### What's Smart?

Implemented IBM Content Analytics to extract key facts and entities from unstructured information to create a social network hub that combines structured and unstructured information of latest terrorist activity.

#### Smarter Business Outcomes

Information reaches agents in hours, not days or weeks. Previously unknown relationships between suspects and new persons of interests automatically uncovered and viewable in a single version of the truth.

### The details

#### Structured Data ETL

Information Server provided high performance and quality extraction and cleansing of the structured data, workflow definition and management.

#### Unstructured Content ETL

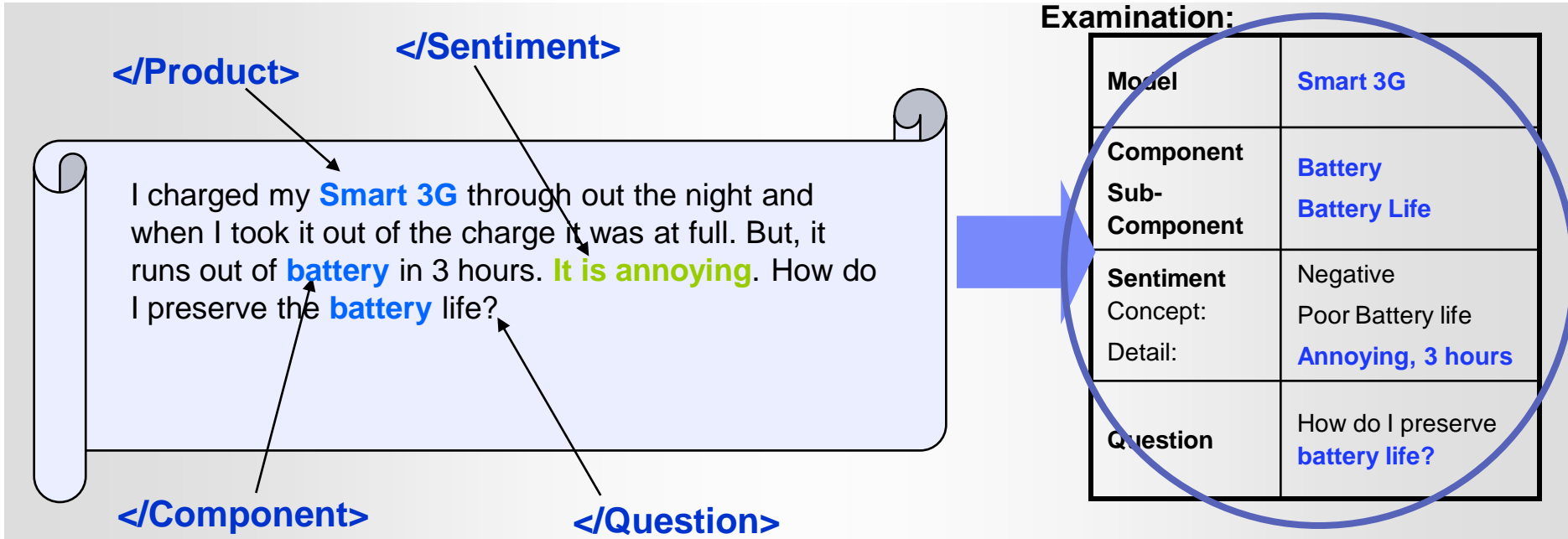
IBM Content Analytics provided high precision and recall extraction of facts and entities from all text creating indexes for quick search and analysis. It then passed this new structured content to Information Server for conventional ETL.

#### Single data warehouse to layer analytics

All cleansed information populated an InfoSphere data warehouse. The organization used key analytical applications like Identity Insights and i2 to associate relationships between terrorists and analyze their activity.

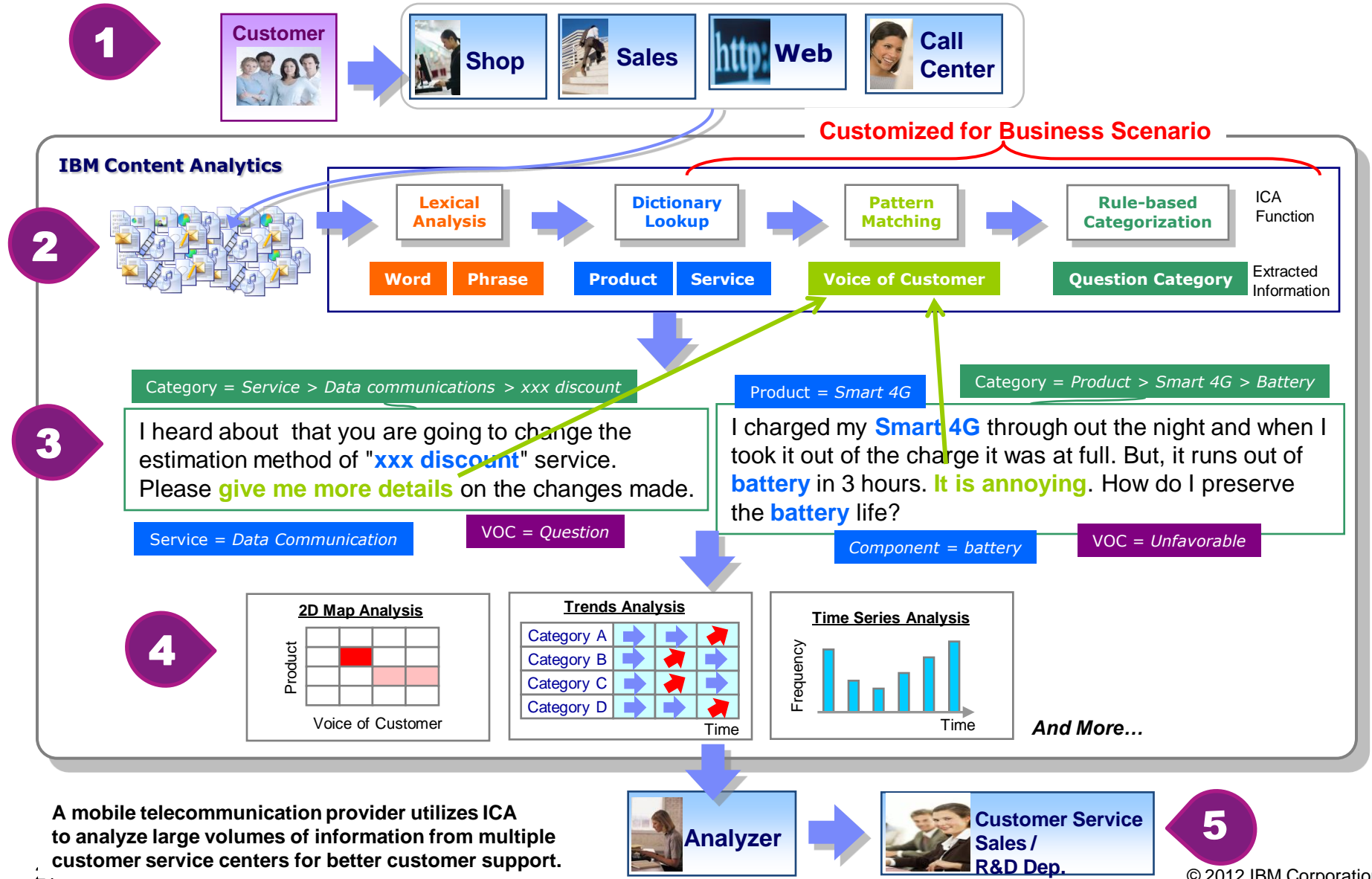
# Content Analytics – Voice Of the Customer (VoC)

A set of linguistic, statistical, and machine learning techniques to analyze and extract key facts, entities and concepts from text used to...



...visually search, identify and explore trends, patterns, and statistically relevant facts found in various types of content spread across internal and external content sources.

# Analysing the Voice Of the Customer (VoC)



A mobile telecommunication provider utilizes ICA to analyze large volumes of information from multiple customer service centers for better customer support.

**5**

A Telecommunications Company

## Smart is: **reducing** customer churn using VoC

*“Insight into customer interaction logs is an information gold mine for us.”*

— General Manager  
Japanese Telecomm Business

*Industry context: telecommunications  
Value driver: improve customer service  
Solution: Content Analytics*

### **Business Challenge**

Adopt a customer-oriented business strategy to offer highly satisfying products and services based on real voice of customers (VoC).

### **What’s Smart?**

They process call center notes and customer emails to detect likely candidates for customer churn. A rules-based text analysis engine in IBM Content Analytics detects the customer churn candidates. An alerting engine then automatically sends reports to a department that deals specifically with customer churn situations.

### **Smarter Business Outcomes**

Improved rates for model and service upgrades to loyal customers. Started new Premium Club points program based on VoC. Set initial parameters of mobile phones based on VoC.



German Research Organization

# Smart is: **finding** content that matters

*Drive users to the knowledge they seek and enhance the visibility of content and context of unstructured information*



**Industry context:** Scientific research

**Value driver:** Connecting researchers to content

**Solution :** Content Analytics

## **Business Challenge**

How to enable 13,000 staff scientists and engineers from 56 Institutes to securely search for and discover relevant scientific research papers to enable new business innovations

## **What's Smart?**

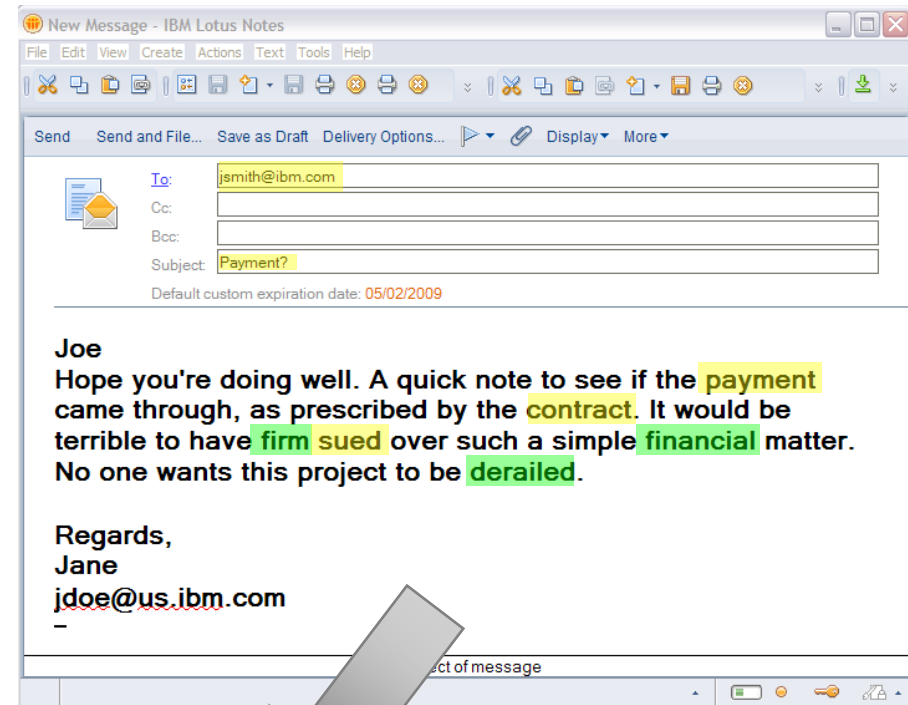
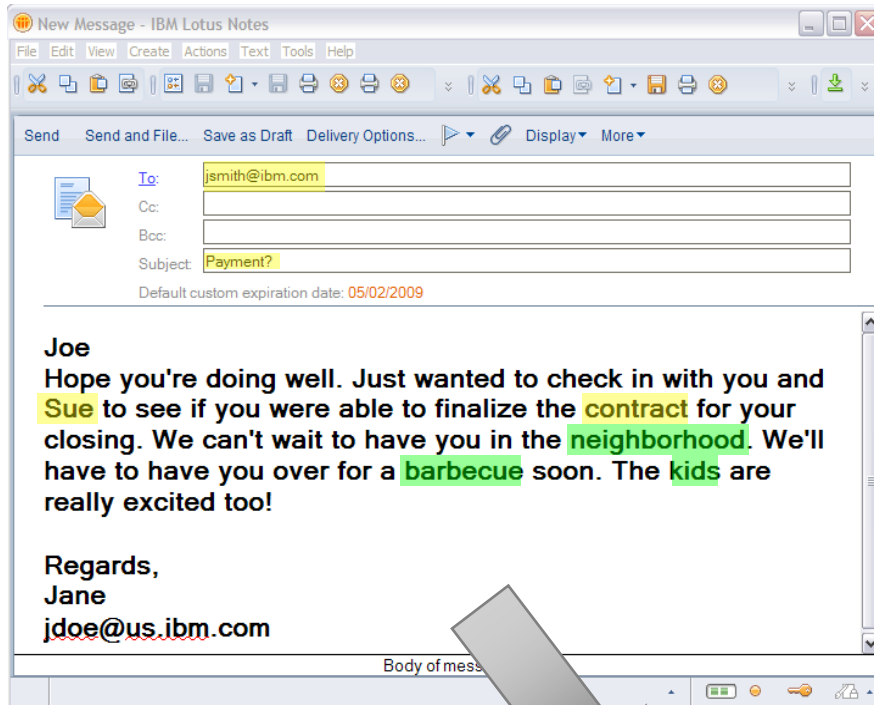
In 4 months, this research organization fully implemented Content Analytics to enable secure semantic search and classification of research assets for their internal portal that services all Institutes, as well as their public facing website

## **Smarter Business Outcomes**

Scientists and engineers from this institute are able to find the most relevant research papers and knowledge experts, leading to continued innovations

# Content Analytics analyses **free text** within emails

Make detailed distinctions between long-form texts with very different intent





# Seton Healthcare Family Hospital

## Reducing Congestive Heart Failure readmissions to improve care

*“IBM Content and Predictive Analytics for Healthcare uses the same type of natural language processing as IBM Watson, enabling us to leverage information in new ways not possible before. We can access an integrated view of relevant clinical and operational information to drive more informed decision making and optimize patient and operational outcomes.”*

*Charles J. Barnett, FACHE, President/Chief Executive Officer, Seton Healthcare Family*

### Business Challenge

Seton Healthcare strives to reduce the occurrence of high cost Congestive Heart Failure (CHF) readmissions by proactively identifying patients likely to be readmitted on an emergent basis.

### What's Smart?

IBM Content and Predictive Analytics for Healthcare solution will help to better target and understand high-risk CHF patients for care management programs by:

- Utilizing natural language processing to extract key elements from unstructured History and Physical, Discharge Summaries, Echocardiogram Reports, and Consult Notes
- Leveraging predictive models that have demonstrated high positive predictive value against extracted elements of structured and unstructured data
- Providing an interface through which providers can intuitively navigate, interpret and take action

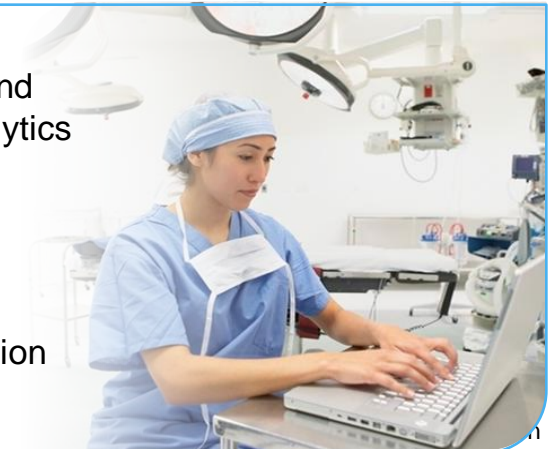
### Smarter Business Outcomes

Seton will be able to proactively target care management and reduce re-admission of CHF patients.

Teaming unstructured content with predictive analytics, Seton will be able to identify patients likely for re-admission and introduce early interventions to reduce cost, mortality rates, and improved patient quality of life.

### IBM solution

- IBM Content and Predictive Analytics for Healthcare
- IBM Cognos Business Intelligence
- IBM BAO solution services





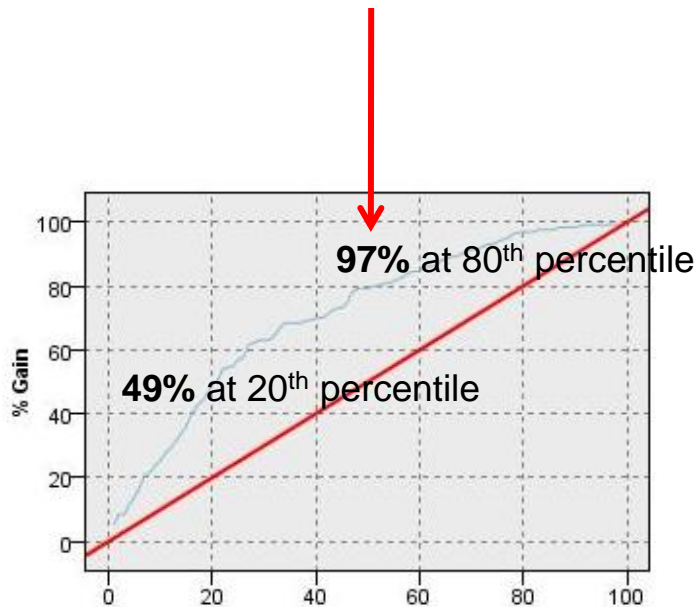
# But - What Really Causes Readmissions at Seton Hospital

## The Data they thought would be useful ... **wasn't**

- 113 candidate predictors from structured and unstructured data sources
- Structured data was less reliable than **unstructured data** – increased the reliance on unstructured data

## New Unexpected Indicators Emerged ... Highly Predictive Model

- 18 accurate indicators or predictors



Predictor Analysis	% Encounters Structured Data	% Encounters Unstructured Data
Ejection Fraction (LVEF)	2%	74%
Smoking Indicator	35% (65% Accurate)	81% (95% Accurate)
Living Arrangements	<1%	73% (100% Accurate)
Drug and Alcohol Abuse	16%	81%
Assisted Living	0%	13%

BJC Healthcare and Washington University Partnership

## Smart is: **unlocking** biomedical informatics answers

*"We anticipate this solution to be a game changer in biomedical research and patient care. I believe that IBM Content Analytics will ultimately accelerate the pace of clinical and translational research through more rapid and accurate extraction of research relevant information from clinical documents"*

Dr. Rakesh Nagarajan, M.D., Ph.D., Associate Professor, Department of Pathology and Immunology, Washington University.

*Industry context: Healthcare*

*Value driver: Access to biomedical trends, insight*

*Solution : Content Analytics*

### **Business Challenge**

Existing Biomedical Informatics (BMI) resources were disjointed and non-interoperable, available only to a small fraction of researchers, and frequently redundant. No capability to tap into the wealth of research information trapped in unstructured clinical notes, diagnostic reports, etc.

### **What's Smart?**

Capitalizing on **the untapped, unstructured information of clinical notes and reports by using IBM Content Analytics with IBM InfoSphere Warehouse.**

### **Smarter Business Outcomes**

Researchers now able to answer key questions previously unavailable. Examples include *Does the patient smoke?, How often and for how long?, If smoke free, how long? What home medications is the patient taking? What is the patient sent home with? What was the diagnosis and what procedures performed on patient?*

© 2012 IBM Corporation

An Insurance Company

## Smart is: creating **rapid insights** from content

*“The demo impressed the customer so much that the customer was ready to buy ICA in a few days.”*

— ECM Sales Rep

*Industry context: insurance claims*  
*Value driver: payment optimization*  
*Solution: Content Analytics*

### Business Challenge

A Japanese Insurance Agency wanted to automatically assess and verify accurate payment of claims. The industry in general was facing challenges of over or under payments due to inaccurate coding of medical diagnosis. Additional regulation required insurance companies to verify paid payment by implementing a payment assessment and inspection solution.

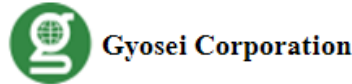
### What's Smart?

Using IBM Content Analytics, the customer is able to normalize medical diagnosis and procedures to a single representation by building a consistent dictionary against which all claims are checked in an automated workflow. Complex claims that required further evaluation can now be identified more quickly and accurately through this automated validation

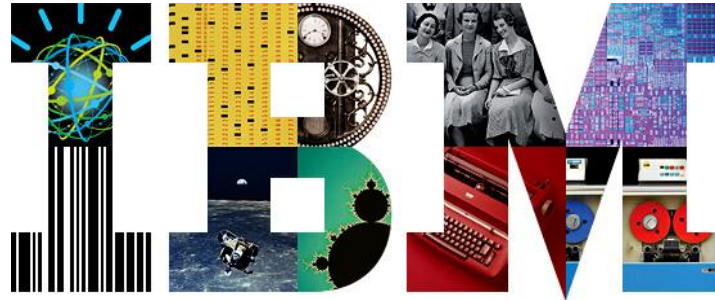
### Client Benefits

- Reduction of human cost and error of manually normalizing and categorize medical certificates and claims.
- More accurately and quickly identify over/under payments and take action.

# Sample list of IBM Content Analytics Customers



\* Subset of the customers



Thank you

**Lloyd Parata**  
ECM Solution Specialist  
Singapore

# Question?

What percentage of your organizations information is unstructured?

A) 60%

B) 70%

C) 80%



# Backup

# Where to find more information about ICA

IBM Content Analytics ✕ Search

About 13,700,000 results (0.18 seconds)

[Advanced search](#)

## [IBM - Content Analytics - Software](#) ☆ 🔍

**Content analytics** software that helps companies gain new business insights through the analysis of unstructured content. View a demo of **IBM Cognos Content ...**

[www.ibm.com/software/data/content-management/analytics/](http://www.ibm.com/software/data/content-management/analytics/) - [Cached](#)

**You Tube**

**IBM Content Analytics**  
 IBMECM 6 videos

**IBM Content Analytics**  
 Over 50 years of text analysis and discovery

1:17 / 4:42 480p

**Content Analytics**

Learn what Watson is, how it works, and how the technology can be adapted to solve problems.

→ [Register to listen to the ECM podcast.](#)

**IBM Content Analytics**

Analyze unstructured content to unlock critical business insight.

→ [Register for new webinars and white papers.](#)

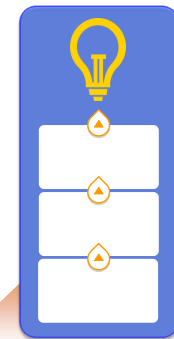
Start **unlocking the insight** trapped in your content today

*Uncover **business insight** quickly to improve product quality and customer service, detect fraud, optimize decision making and more ...*



## IBM Content Analytics

- Find relevant enterprise content quickly and securely
- Assess enterprise content to decommission the unnecessary and govern the content that matters
- Customize rapid insight to industry and customer specific needs
- Enable deeper insights through integration to other systems and solutions



A Car Rental Company and Mindshare Technologies

# Smart is: **identifying** customer satisfaction trends

*“We wanted to leverage this insight at both the strategic level and the local level to drive operational improvements”*



*Industry context: travel services, car rental*

*Value driver: access to customer survey*

*Solution onramp: content analytics*

## **Business Challenge**

A car rental company needed to better understand customer feedback to adapt its business accordingly. Most of its valuable information was trapped inside free-form customer feedback surveys. This company's location managers read each customer comment submitted via email or phone and then manually categorized it, proving to be very labor-intensive and inconsistent.

## **What's Smart?**

Transforming customer information into actionable intelligence. Using IBM Content Analytics together with Mindshare Technologies sentiment-based tagging solution, the company created a “Voice of the Customer” analytics system to automatically capture customer experiences in real-time.

## **Smarter Business Outcomes**

The company realized improved accuracy and speed of the customer feedback analysis process, almost doubling what had been achieved manually.

# Social Content Management... Why should I care?

Content needs proactive management, governance, and discovery.



**25%**

1 out of every 4 page views are FACEBOOK!



**22%**

Social networking accounts for 22% of all online time



**55%**

Make better decisions based on insights from like-minded professionals.<sup>1</sup>



**30B**

New pieces of content shared EVERY month on Facebook



**550M+**

Socialize, share, and collaborate on social tools everyday... (Facebook, LinkedIn etc)



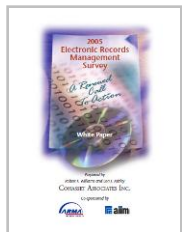
**800%**

Increase in the number of virtual workers over the past 5 years

## ICA – Language & Function Support\*

Language	Part of speech	Phrase constituent	Person	Location	Organization	Pattern Matching	ICM Integration
Arabic	X	X				X	X
Chinese	X	X				X	X
Danish	X	X				X	X
Dutch	X	X				X	X
English	X	X	X	X	X	X	X
French	X	X	X	X	X	X	X
German	X	X	X	X	X	X	X
Italian	X	X				X	X
Japanese	X	X	X	X	X	X	X
Portuguese	X	X				X	X
Spanish	X	X	X	X	X	X	X

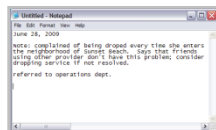
# Insight for Multiple Lines of Business



industry reports



market research transcripts



call logs



internal docs and reports



web



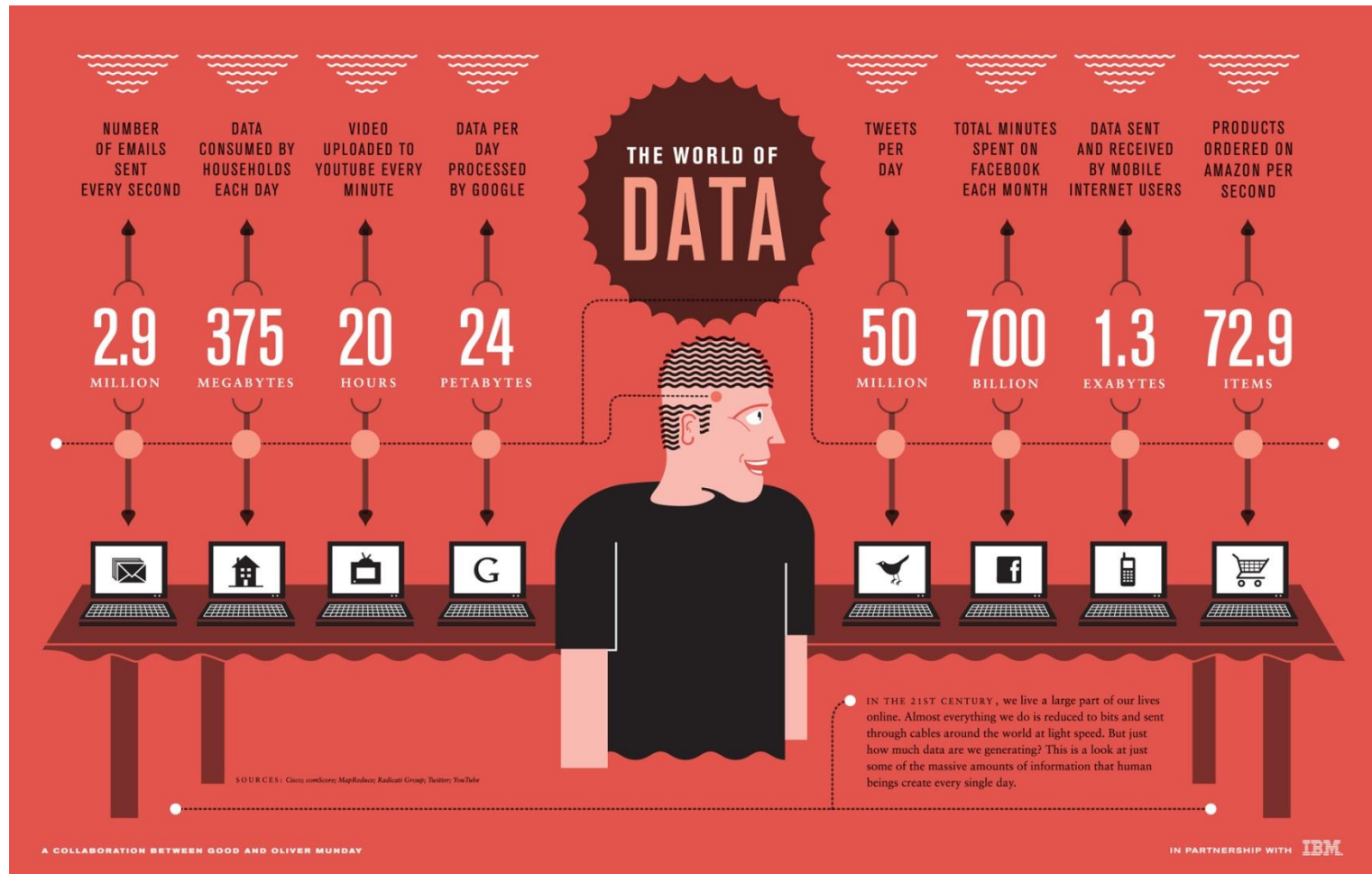
blogs



email

# A day in the life of the Internet

Do you know we sent nearly 3 million emails per second,  
 20 hours of videos are uploaded in YouTube in just 60 seconds,  
 Google processes 24 petabytes of information, are published  
 50 million tweets per day,  
 73 products are ordered on Amazon for every second





# Content Created in 60 Seconds



The most sought-after CIOs will have a keen understanding of how companies can put to use the oceans of information they now collect...

HBR, March 2011 – The New Path to the C-suite

## A Japanese Business Services Provider

### Smart is: **gleaning insight** about customers

*“Insight into customer interaction logs is an information gold mine for us.”*

— General Manager  
Japan Business



*Industry context: computer services*

*Value driver: improve customer service*

*Solution onramp: content analytics*

#### **Business Challenge**

A Japanese business services provider operates multiple customer service centers and needed ways to analyze large volumes of information to improve agent training and deliver better customer support

#### **What's Smart?**

They implemented content analytics from IBM to understand and process natural language. The solution analyzes customer interactions based on consolidated logs of phone calls, email and Web, identifying

#### **Smarter Business Outcomes**

Improved agent skills and training, resulting in a 92% reduction in call transfer and 88% improvement in volume. Provides new insights about product issues, resulting in an 88% decrease in product-related calls.

# Content Analytics includes Text Analytics

## What is Text Analytics?

*Text Analytics* (NLP\*) describes a set of linguistic, statistical, and machine learning techniques that allow text to be analyzed and key information extraction for business integration.

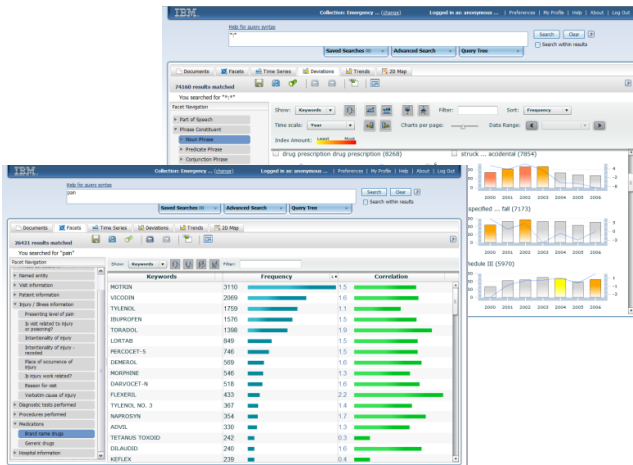
PC 143 (Hunter)  
 15 June 2006 23:47  
 Suspect identified himself as **John Setsuko**. Matched description given by night club doorman (IC1, Male, Ag 22-24 yrs, blue Everton shirt). Stopped whilst driving **White Ford Mondeo**, W563 WDL. Address given as **22 East Dene Ridge**, Copdock, Ipswich. Searched at scene and found in possession of **1oz Cannabis Resin** and lockable pocket knife.



Arresting_Officer	PC 143
Arrest_Date_Time	15/06/2006 : 23:47
Suspect_Forename	John
Suspect_Surname	Setsuko
Suspect_VRN	W563WDL
Suspect_Vehicle_Color	White
Suspect_Vehicle_Make	Ford Mondeo
Suspect_Addr_Street	22 East Dene Ridge
Suspect_Addr_Town	Ipswich
Evidence_1_Description	1 oz Cannabis Resin
Classification	Drug possession

## What is Content Analytics?

*Content Analytics* (Text Analytics + Mining) refers to the text analytics process plus the ability to visually identify and explore trends, patterns, and statistically relevant facts found in various types of content spread across internal and external content sources.



\* Natural Language Processing

# Unlock **valuable insight** and make the right decision

*What our clients are doing with Content Analytics*

Understand what customers want **before they ask.**



**Detect fraudulent claims** before they are paid.



**Dynamically deploy** resources to the areas of greatest threat.



**Reduce re-admission** rates of patients into hospital.



**Are you unlocking the value of your unstructured content?**