

# Unifying information, process and people

Delivers better outcomes for you and your clients.

**David Caldeira**

Director, ECM Products and Strategy

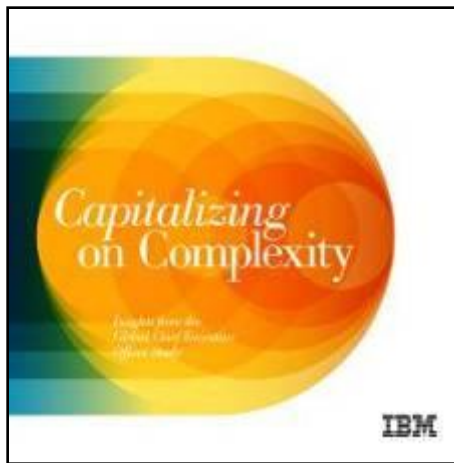


# Change, change and **still more change**

- Organizations were undergoing fundamental changes well before the financial crisis started
- Pressures in the global economy continue to drive new business models
- The pace of change is increasing – the challenges are becoming more... challenging
- How are business leaders dealing with all of this?



**CFO** study 2010  
1,900 interviews



**CEO** study 2010  
1,500 interviews



**CIO** study 2009  
2,600 interviews

# What are your executives focused on?

**Become more  
creative and  
innovative**

- Creativity is the top leadership quality
- Drive change to stay ahead of market
- Expand our communication channels
- Break with status quo (industry, business and revenue models)



**Increase our  
responsiveness  
and flexibility**

- Simplify operations and products
- Shift to iterative approaches (make quicker decisions - execute with speed)
- Increase agility by integrating globally and exploit partnering

**Reinvent our  
Customer  
relationships**

- Get closer to customers (*top theme*)
- Better understand our what customers need
- Deliver unprecedented customer service

# CIOs of high-growth organizations focus on innovation

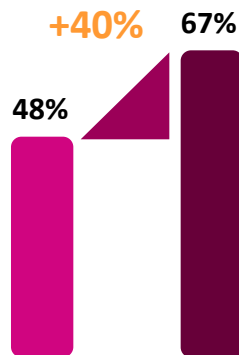
## Using IT as a competitive weapon

- **Integrate business and IT** to innovate new approaches
- Proactively reaches out to the business to co-create and champion innovation
- Has a clear view of the top technological priorities that will enhance competitiveness

*“Innovation should be based on practical technology that can deliver business objectives within reasonable time and cost, which can be absorbed by the business.”*

Life insurance CIO, India

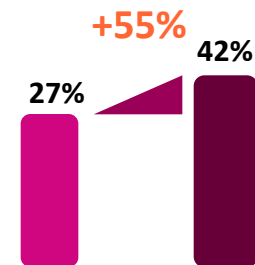
**“I actively reach out to the business to co-create and champion innovation”**



*“One of the things we try to do is define innovation. It is the ability to generate a lot of diverse ideas to address a particular need. Then we distill it into an actionable plan that results in business improvement”*

Energy and Utilities CIO, U.S.

**“I spend time collecting innovative ideas”**



Low and high growth CIOs give reference to the context in which they operate: an environment characterized by low versus High profit before tax growth. For more information – see the CIO study 2009

Low growth CIOs High growth CIOs

# World-class companies focus on simplifying their operations and standardizing processes

## Changes to operating strategy: Simplify



**30%** more

*“Simplification and standardization are key strategies that we have been using for several years to reduce existing and future complexity.”*

Brenda Barnes,  
CEO, Sara Lee, United States

*“When things look very simple, you need to look for a competitive edge. When things are complex, you simplify to get the competitive advantage”*

Graeme Liebelt,  
Managing Director and CEO, Orica Limited, Australia

# Organizations are using ECM to **innovate, standardize and simplify** in these ways



## **SMART IS ... ELIMINATING PAPER**

A large U.S. federal agency saves more than \$1.3 billion annually by eliminating paper.



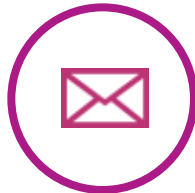
## **SMART IS ... GOVERNING AND DEFENSIBLY DISPOSING OF INFORMATION**

JM Family Enterprises saves \$2.1 million annually by reducing costs.



## **SMART IS ... IMPROVING CONTENT-CENTRIC WORKFLOWS**

J.B. Hunt added \$870K annually by more accurately charging customers.



## **SMART IS ... RAPIDLY DERIVING CONTENT INSIGHTS**

A large U.S. bank achieved ROI on content analytics in 7 months.



## **SMART IS ... LOWERING LEGAL RISK AND COST**

BASF implemented more cost-effective governance.

# ECM has changed

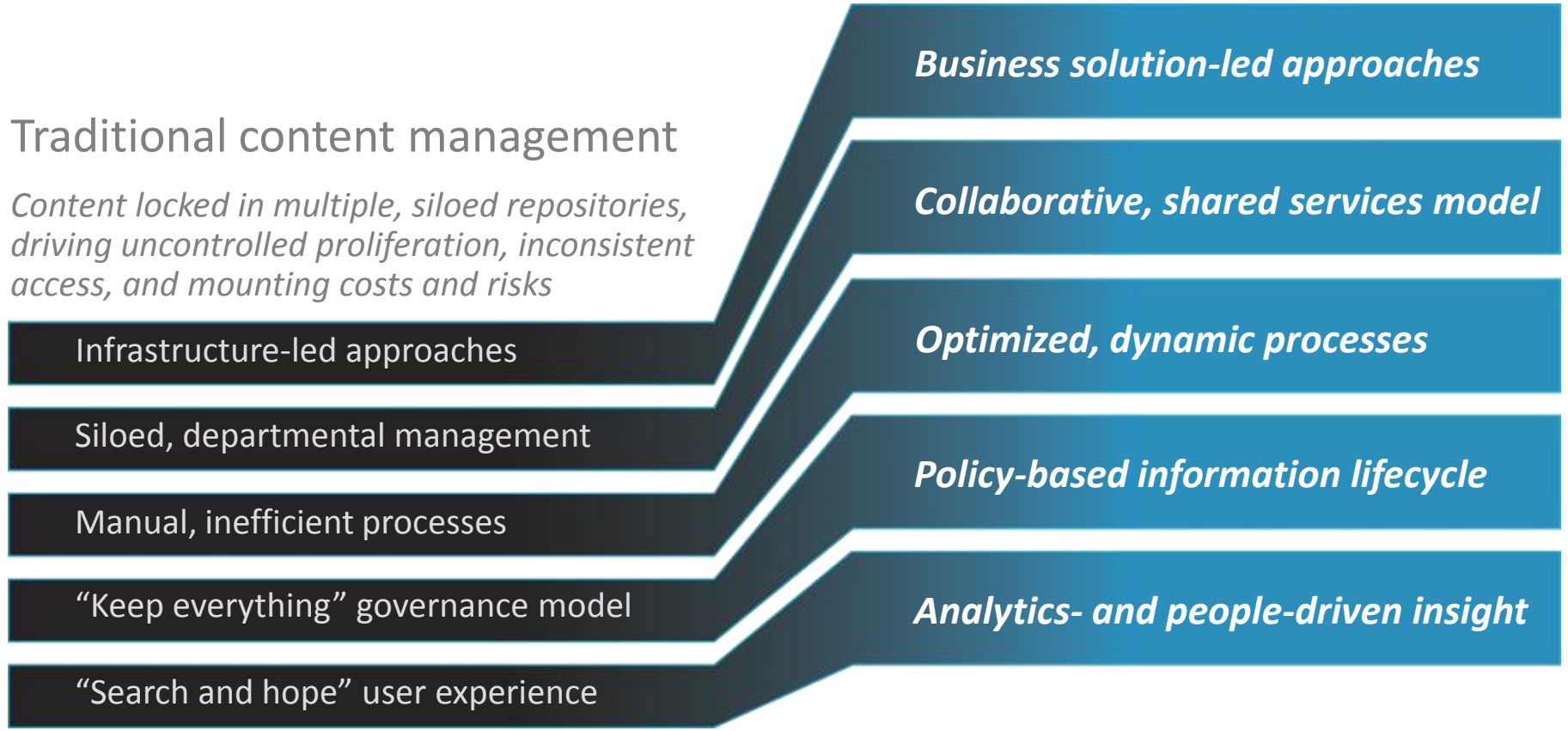


## Smarter content management

*Content in a shared services model, delivered in context to specific business users and processes, driving faster insight and action*

## Traditional content management

*Content locked in multiple, siloed repositories, driving uncontrolled proliferation, inconsistent access, and mounting costs and risks*



Infrastructure-led approaches

Siloed, departmental management

Manual, inefficient processes

“Keep everything” governance model

“Search and hope” user experience

*Business solution-led approaches*

*Collaborative, shared services model*

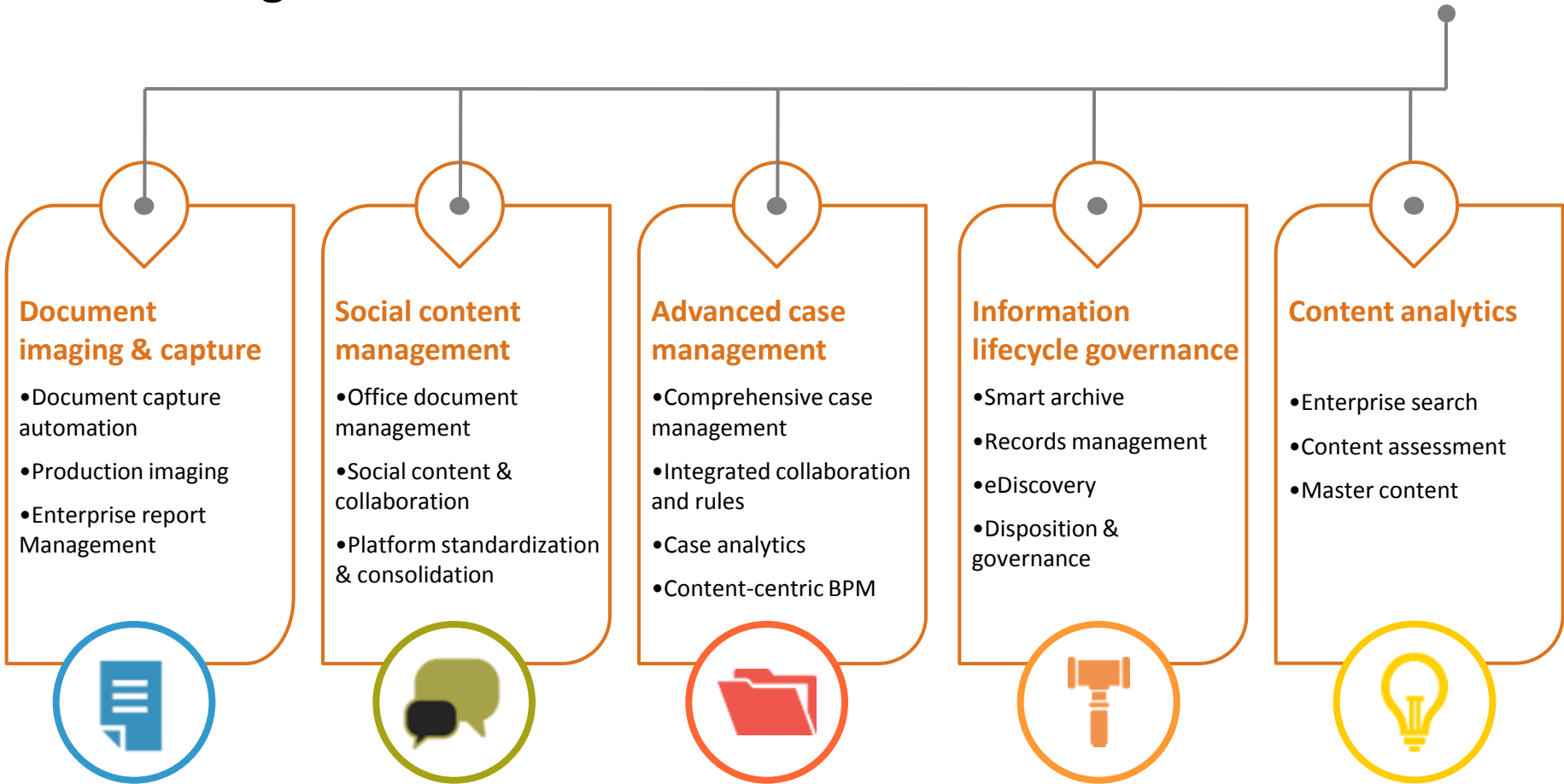
*Optimized, dynamic processes*

*Policy-based information lifecycle*

*Analytics- and people-driven insight*

# IBM Enterprise Content Management

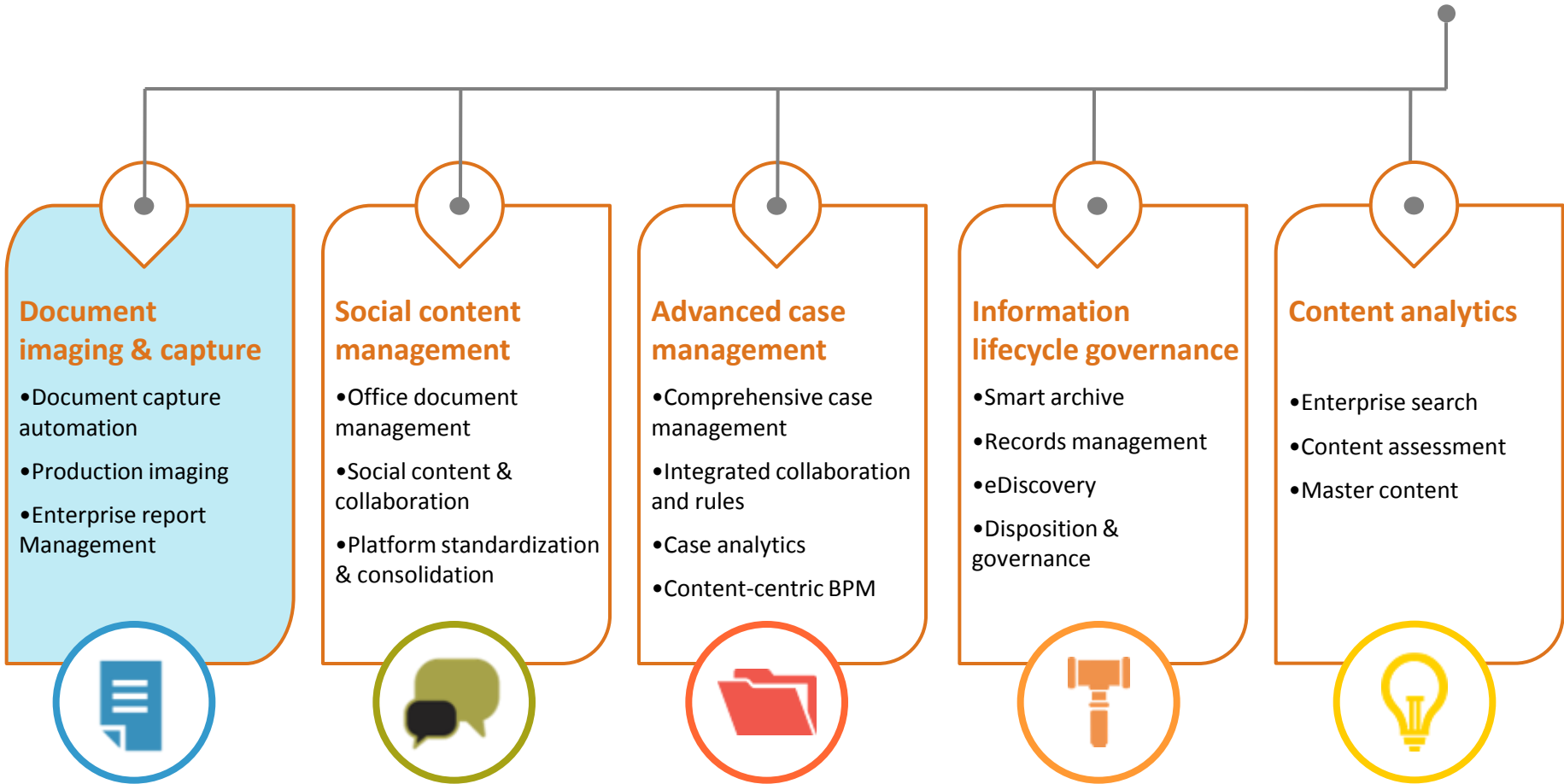
## Five Starting Points





# IBM Enterprise Content Management

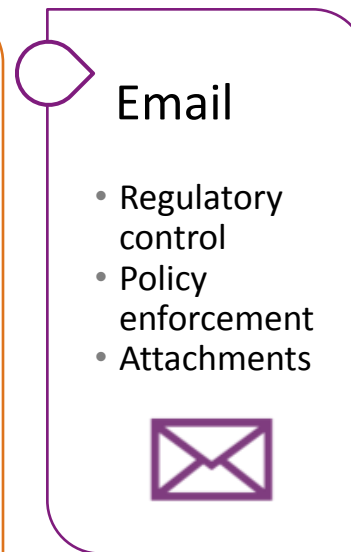
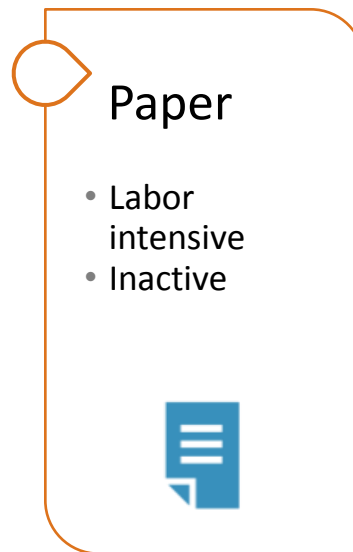
Imaging and capture *have never mattered more*



# Solutions for document input automation

## Delivers real business results

- Reduce cost of transporting paper
- Reduce data entry labor costs
- Extract data from documents without manual keying
- Reduce paper sorting and document preparation
- Replace obsolete or costly legacy systems
- Reduce license fees, support and maintenance costs
- Enable case management, governance and eDiscovery



**Datacap**  
an IBM® Company

- Best-of-breed technology for capture automation and recognition
- Expertise in a wide variety of industries and solutions: accounts payable; explanation of benefits, tax and more

# IBM Enterprise Report Management

Content Manager on Demand for high volume print output: e-capture and e-presentment

## Delivers real business results

- Improved customer responsiveness
- Web access: to print/paper documents, 24x7
- Improved customer self-service
- Reduced printing costs and paper use: **go green**
- Avoid storing print/paper documents
- Replacement of legacy systems

## Solution summary

- A 'View Not Print Solution' for customer service & avoidance of print and storage costs
- Fast and significant ROI
- Up to 90% storage savings
- Proven, scalable technology
- Pervasive access
- Replacement for outdated systems

*“Reduced costs for printed customer bills saving \$25 million annually. Increased small business customer satisfaction and gained \$750,000 in promise-to-pay revenue during initial six months of operation”*

**— A large telecommunications company**

# CITI

## Achieving enterprise-wide information sharing, cost-efficiency and innovation with IBM ECM

### The need

- Reduce cost of processing incoming customer documents
- Increase control and optimization of work load monitoring
- Reduce access times through electronic access

### The solution

- IBM ECM solution supports loans, private finance, credit card application process, termination process and issue handling
- All customer communications are presorted, scanned and indexed, then workflow is activated and documents are archived
- IBM FileNet handles up to **100,000 images per day**, some of which can be 1,000 pages in length

### The benefits

- Cost savings of about **\$5 million**
- Citicard application processing time cut from over **2 weeks to just 2 days**
- Centralized data delivers faster response customer service
- Centrally managed, enterprise wide solution delivers timely, accurate information
- Very short project cycle times (< 3 months)

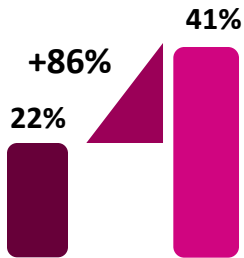
*“ We chose IBM ECM because of its market leadership and financial performance. ... Migration to IBM FileNet P8 provides advanced technology and long-term support, enhanced scalability to support mission-critical applications, and greater flexibility. The open architecture also facilitates integration.”*



— Marco Diehl  
1st Vice President, Cititech

# CIOs of high-growth organizations are finding new ways to **communicate and collaborate**

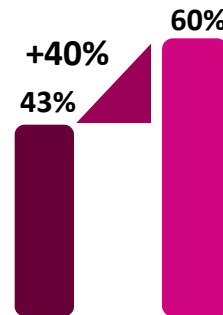
## More actively using collaboration to drive innovation



*“Collaboration causes innovation.”*

Electronics CIO, USA

## Realize change through deployment of collaborative and communication tools



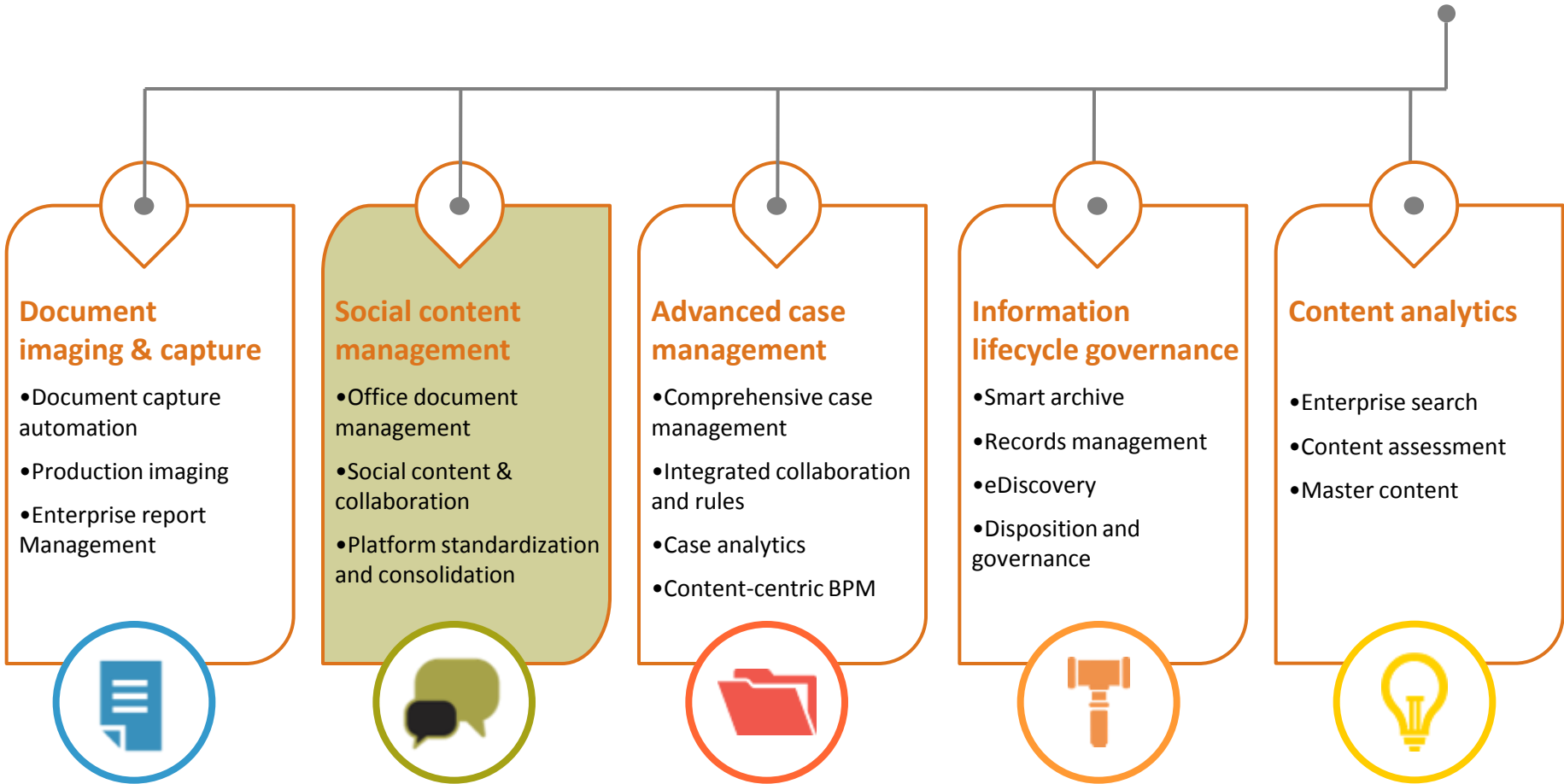
*“Using higher order collaborative tools can be quite smart and lower costs – for example, collaborative planning and forecasting for retail.”*

Retail Industry CIO, UK

■ Low growth CIOs   ■ High growth CIOs

# IBM Enterprise Content Management

Managing social and collaborative content is *becoming a hot topic*



# Challenges of social business and content

Changes in how we communicate impact how we manage content



# Organizations are looking to get value from new communities

**500 billion impressions**  
annually made about  
products and services <sup>1</sup>

**770 million people**  
worldwide visited  
a social networking site <sup>2</sup>

**44x information  
growth** by 2020 <sup>3</sup>

## Public Social Media



*Conversations about quality, experience, price, value, service ...*

- *Forums and Newsgroups*
- *Wikis, Blogs and Microblogs*
- *Social Networks*
- *Social Media News Aggregators*



## Corporate Social Business

*Conversations about strategy, projects, issues, risks, outcomes ...*



*In addition to conversations about quality, experience, price, value, service ...*

- *Wikis, RSS and Forums*
- *Email and Collaborative Content*
- *Call Center Notes and Recordings*
- *Customer and Employee Surveys*
- *Reports, Minutes and Research*



## Sennheiser electronic GmbH & Co. KG

# Orchestrating deep knowledge base support and online collaboration

### The need

- Enable representatives to help audio engineers prepare for concerts and solve problems fast.
- Provide instant access to a performer's equipment requirements and a venue's technical specifications plus initiate online, global collaboration with audio experts.

### The solution

- IBM and IBM Business Partner (GIS) solutions enabled global collaboration among customer support representatives, audio engineers and global experts.
- Instantly access detailed information about a performer's requirements and a venue's technical specifications.

### The benefits

- Transforms a large amount of technical data into an easily accessible knowledge base
- Collects detailed information on equipment requirements
- Enables global collaboration by providing access to online web conferencing, chat and team rooms

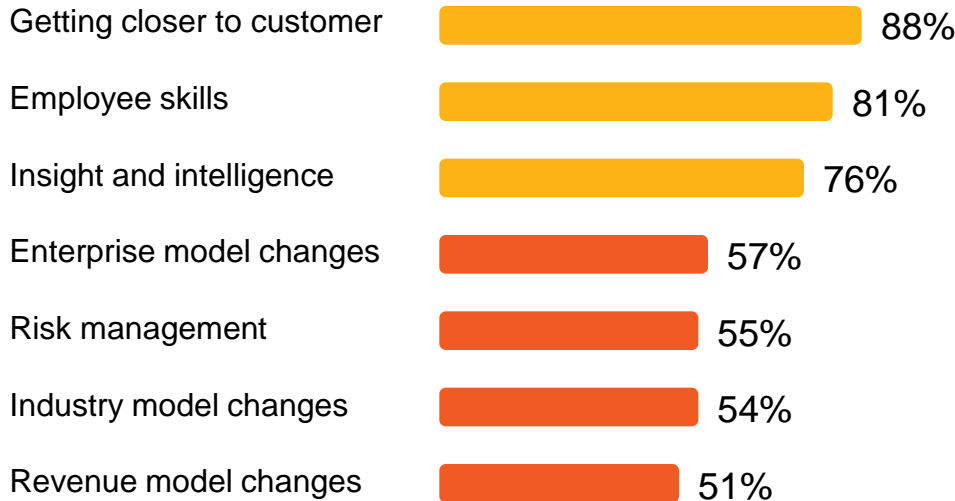
*“The collaboration platform connects team members with customers and partners. Global RF specialists have a solution for working together around the world.”*



— Klaus Höling, Director IT & Group CIO,  
Sennheiser electronic GmbH & Co. KG

# ‘Getting closer to the customer’ is THE top priority for standout organizations

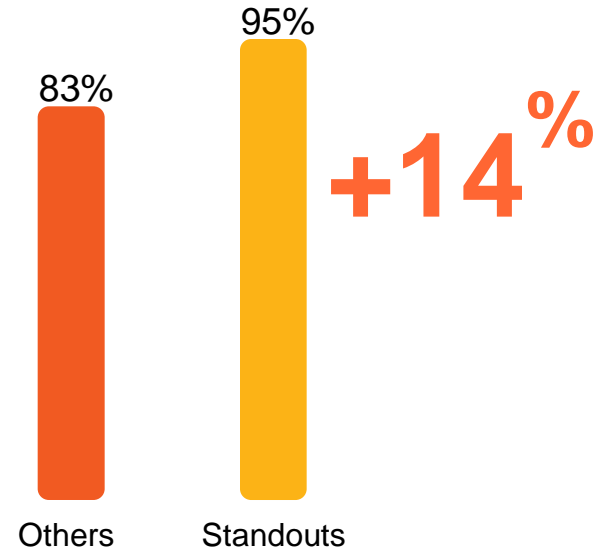
## “Where I will focus over the next 5 years”



*“To surprise customers requires unexpected ideas through interactions of people with diverse perspectives.”*

Shukuo Ishikawa  
President and CEO, NAMCO BANDAI, Japan

## Getting closer to customer

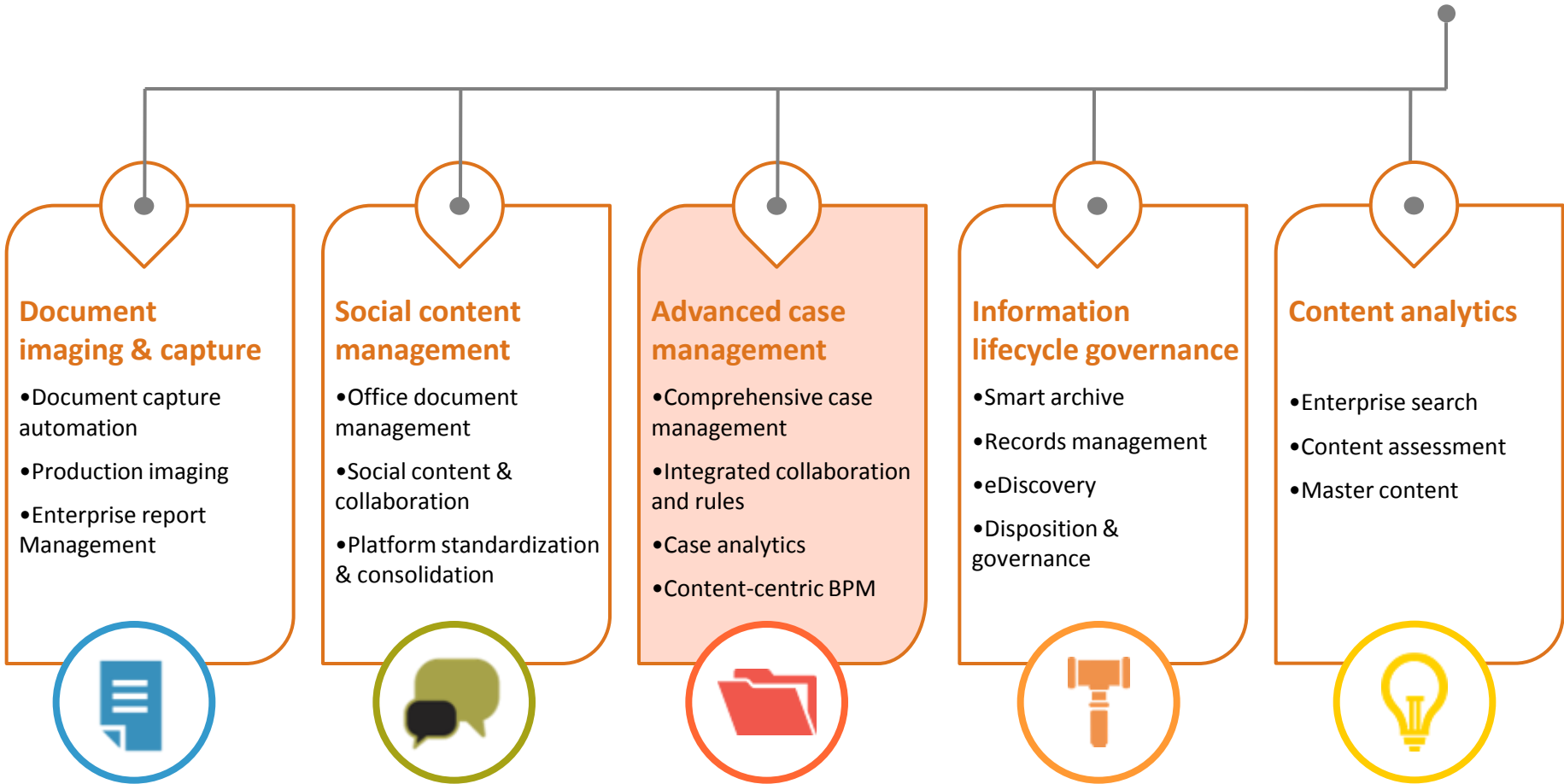


*“Our customers want personalization of services and products. It is all about the market of one.”*

Tony Tyler  
CEO, Cathay Pacific Airways, Hong Kong

# IBM Enterprise Content Management

Case management helps get you *closer to your customer*



# Case management in every industry

*Although a “case” may be expressed differently depending on your business ...*



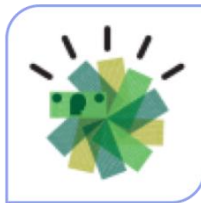
**Invoice, Contract, Employee, Vendor, Customer, Project, Change Request, Complaint, Exception, Incident, Audit, Electronic Discovery, etc...**

## Insurance



- Policy
- Underwriting
- Claim
- Annuity
- ...

## Banking



- Loan
- Mortgage
- Account
- Credit Card
- ...

## Healthcare



- Patient case
- Claim
- Member
- Provider
- ...

## Government



- Grant
- Court case
- Citizen
- Tax payer
- ...

## Energy & Utilities



- Rate Case
- Permit
- Land
- Property
- ...



*... a common pattern of challenges exists across all industries*

# IBM's approach to case management

## Use Cases

- Complex exception handling
- Complaint or dispute management
- New customer or new account opening
- Lending applications
- Credit approval
- Contract management
- Claims processing
- Benefits enrollment
- Rate case management
- Investigations or audits

KEY: Both *horizontal* and *vertical* in nature

## Patterns

- A “case” is created to manage all work
- Activities are event-driven
- Processes are collaborative and ad-hoc and therefore are often not predetermined
- Work is knowledge intensive
- Progress relies on people to make decisions
- Content is essential for decision making
- Goal-driven outcomes

KEY: A *case* is the primary focus of the system

## Integrated Solution

- Content management
- Business process management
- Collaboration tools
- Social software
- Business rules
- Analytics
- Solution development and deployment
- Templates

KEY: Solution is optimized for the *context* of a case

# IBM Advanced Case Management

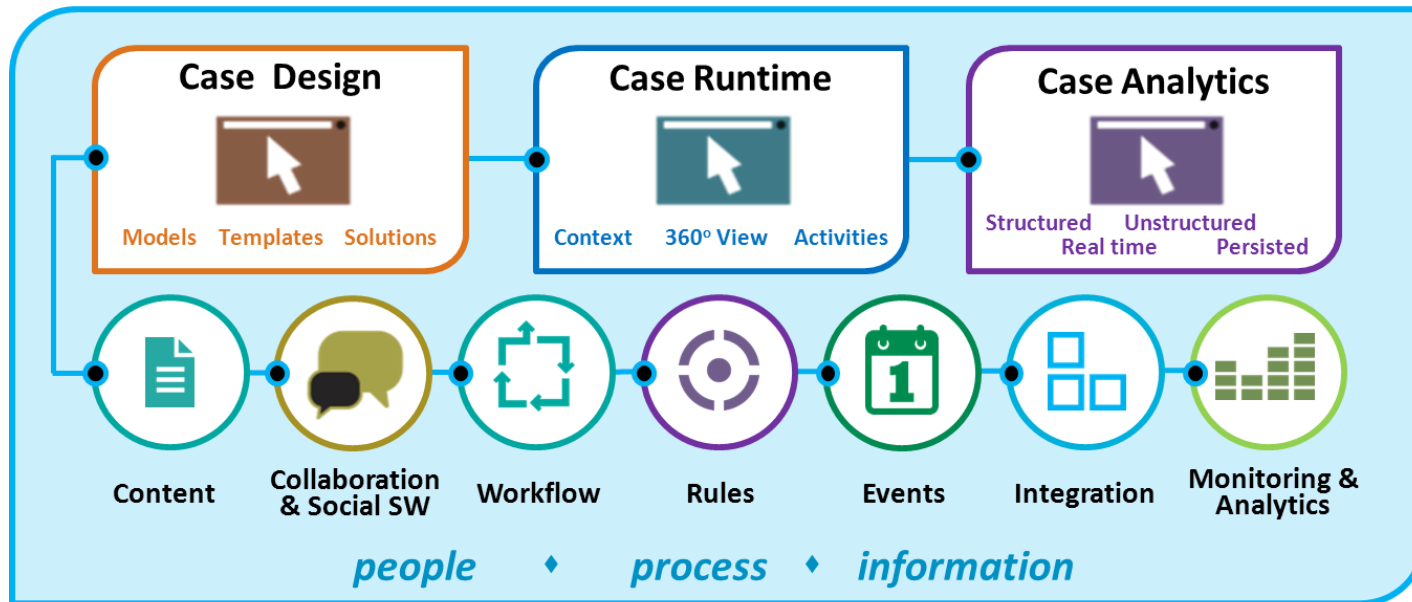
*Brings people, process and information together ... in context of a case*



- Delivers **optimized case outcomes**
- Supports **dynamic**, runtime work management
- Delivers **trusted information** to the case – structured or unstructured
- Manages and governs **entire case lifecycle**
- Provides the line-of-business and IT with tools to **rapidly deliver** case-based solutions

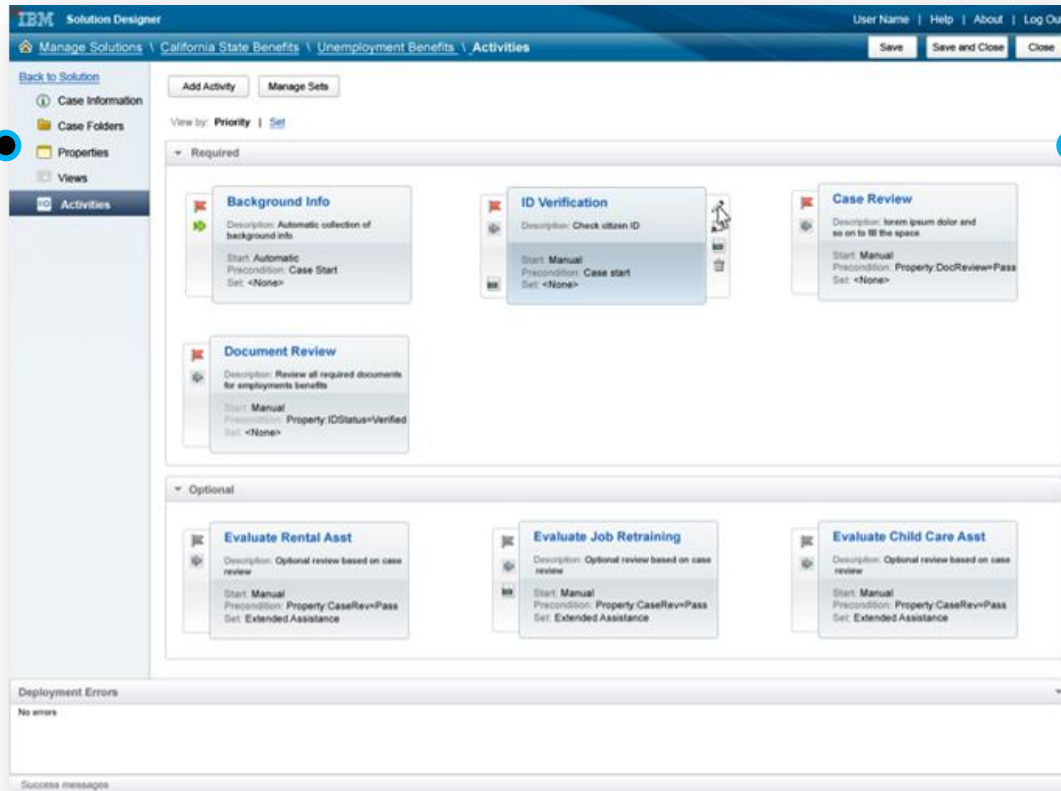
# IBM Case Manager

*Simplifying the delivery of case-based solutions*



- *Built on IBM FileNet P8 Business Process Manager*
- *Includes Content Analytics, WebSphere ILOG jRules, Cognos RTM, Lotus Sametime and Mashups – for use within case solutions*
- *Extensible to the entire ECM portfolio*
- *Deep integration to WebSphere Process Server for connectivity*

# IBM Case Manager: Rapid application case design for the business



## Case Design



Models Templates Solutions

- **Easy to use, “Interview Mode” (wizard-driven)**  
*Case designer allows a business user to very quickly build a solution*
- **Comprehensive across case assets**  
*Case designer can provide 360° view of case*
- **Leverage templates for a fast start**  
*Represent industry best practices*

Significantly shortens time-to-value for case-style applications

### **Bottom line:**

Deliver end users the solution in a fraction of time of other approaches



# IBM Case Manager: Case worker user experience

## Case Runtime



Context 360° View Activities

- **Role-based and personalized**  
*End user gets exactly the information they need to progress the case*
- **Flexible and extensible**  
*Can be configured to meet unique business requirements*
- **Provides deep context for case work**  
*No more disjointed jumping between application*
- **Brings people, process and information together to drive case progression and better outcomes**

The screenshot shows the IBM Case Manager interface for a specific case. The top navigation bar includes 'Cases', 'Work', 'Case Details', and 'New Page'. The main content area is divided into several sections: 'Case Information' with tabs for 'Documents', 'Tasks', and 'History'; a 'Document Viewer' showing a 'TRAFFIC ACCIDENT REPORT' form; and a 'Case Data' panel on the right with an 'Edit' button. The 'Tasks' panel lists 'Required (1)' and 'Optional (2)' tasks, such as 'Gather Claim Data' (Completed) and 'Duplicate Claim'.

### Bottom line:

A case worker has all the information they need to improve case outcomes

# IBM Case Manager: Powerful analytics for better case outcomes



## Case Analytics



Structured    Unstructured  
Real time    Persisted

- **Comprehensive reporting and analysis**  
*Gives case managers visibility across all information types to assess and act quickly*
- **Real-time dashboards**  
*Understand issues before they become a problem*
- **Unique content analytics for discovering deeper case insight**

### Bottom line:

Case managers need insight in order to impact results.

## State of North Dakota

# Smart is delivering services more effectively

*“Advanced case management will help keep our parole officers safer because they’ll have information faster and more reliably.”*

*— Chuck Picard, Enterprise EDMS Coordinator  
State of North Dakota*

*Industry context: government services  
Value driver: improve process efficiency  
Solution onramp: advanced case management*

### Business Challenge

The state of North Dakota wanted to securely share citizen information across agencies statewide and gain greater visibility into its operations.

### What’s Smart?

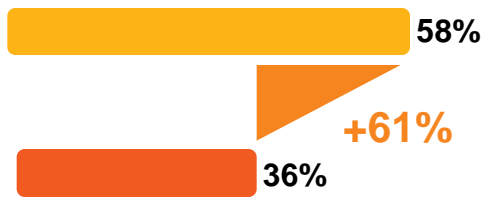
The state enabled agencies to efficiently retain, access and share information by replacing paper-based processes with an automated, centralized advanced case management solution from IBM.

### Smarter Business Outcomes

Reduces response time to citizen inquiries **from days to seconds**. Improves process efficiency, information sharing and cost savings.

# CIOs of high-growth businesses are looking to implement a strong information governance model

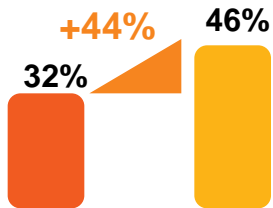
## High growth CIOs proactively craft data into actionable information



*"We do recognize the strategic advantage of using data to support improved decision making. We are not as strong as we would like to be, but this is a key plank of our strategy moving forward."*

Consumer products CIO, Ireland

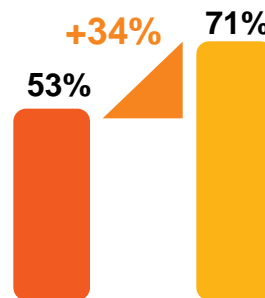
## High growth CIOs add value by having a strong data governance model in place



*"Having a strong data governance model is a strategic area on the roadmap; Having a single view of the truth through accurate data is a strategic imperative."*

Financial Markets, CIO, U.S.

## High growth CIOs add value by proactively suggesting better ways to use data



*"The implementation of BIO's (Business Info. Officers) within the business units are improving the use of data as there is a natural interface within the business units towards central IT."*

CIO, Sweden

# Why is information governance a problem?

**98%**

Companies that cite defensible disposal as key driver behind their governance programs

**22%**

Companies that can defensibly dispose today

**\$3M**

Average cost to collect, cull and review information per legal case<sup>1</sup>

**70%**

Portion of information unnecessarily retained<sup>2</sup>

**17%**

Amount of IT budget spent on storage<sup>3</sup>

**44x**

Projected information growth, 2009-2020<sup>4</sup>

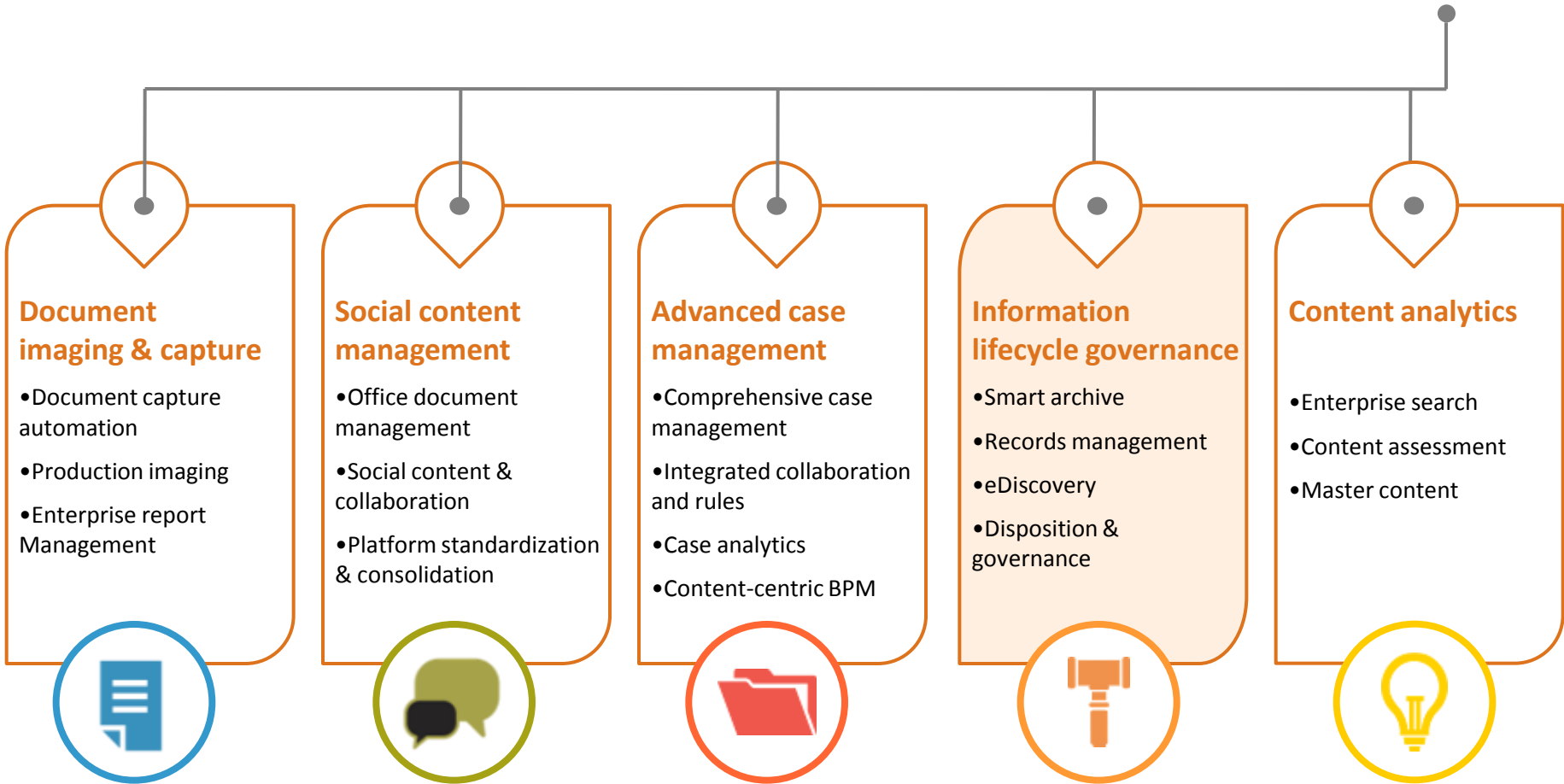
Source: [CGOC Benchmark Report on Information Governance](#), October 2010

Sources: 1 [Litigation Cost Survey of Major Companies, 2010](#) (from [Conference on Civil Litigation](#), Duke Law School, May 2010). 2 Industry estimates

Sources: 3. [Information Week Survey](#), December 2009. 4. [IDC Digital Universe Study](#), May 2010

# IBM Enterprise Content Management

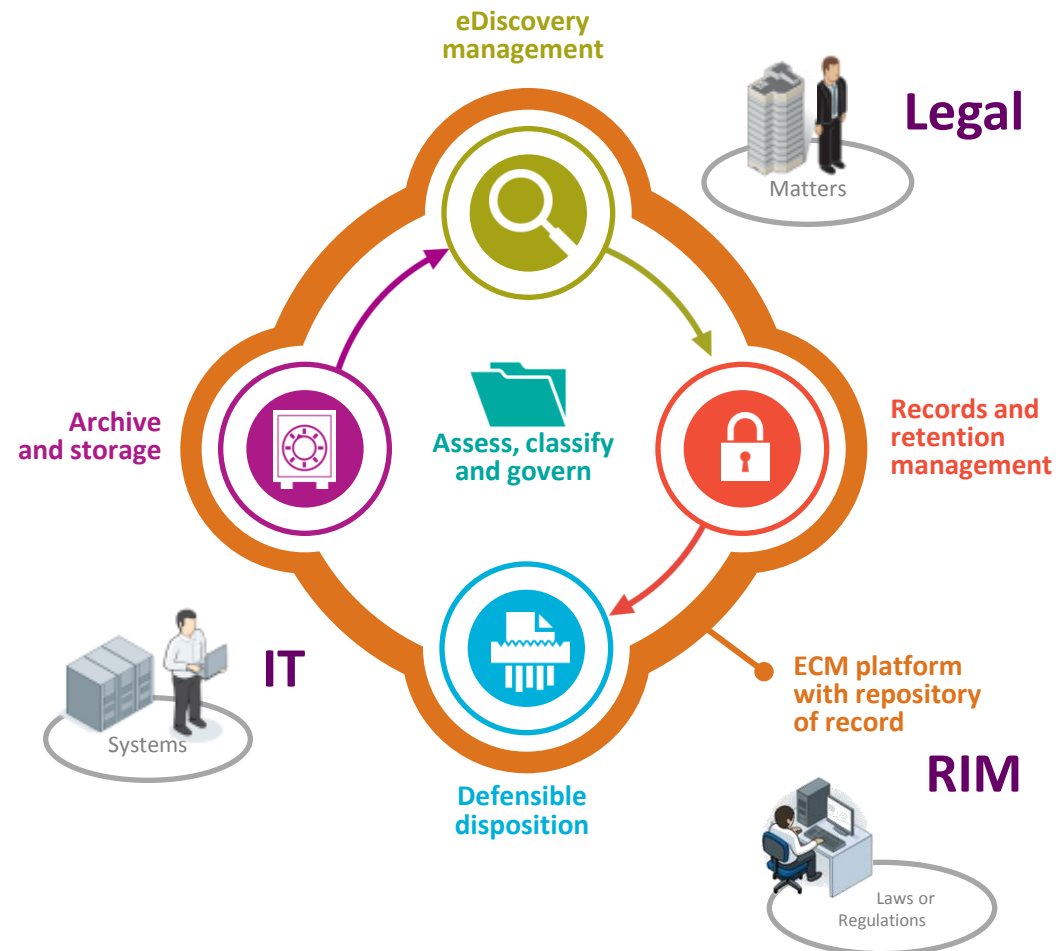
*Effective information governance* has never mattered more



# IBM Information Lifecycle Governance

IBM ILG includes solution sets for legal, IT and RIM buyers including:

- Smart Archive solution for IT
- eDiscovery Management solution for Legal
- Records and Retention Management solution for Records and Information Managers
- Disposal and Governance Management solution for the CIO



# PSS Systems

Rigorous discovery, value-based retention, defensible disposal



An IBM Company

- A recognized leader in legal information governance and legal holds pioneer
- IBM now delivers the industry's most comprehensive solution to information lifecycle governance

Financial Services	Life Sciences
Oil & Gas	

## PSS Atlas suite



- Analytics and integrated business process applications for rigorous discovery, value-based retention and defensible disposition
- Coordinates policy decisions across stakeholders and links obligations and value to information assets
- Atlas integration available to IBM eDiscovery Manager
- Supported by CGOC community



## PPL Corporation

# Smart is knowing what to keep

*“Before, it could take up to five days to get a file from our records department. Now staff can access documents at the click of a button.”*

*— Jim Mazurowski, Supervisor  
Information Solutions, PPL*

*Industry context: energy and utilities*

*Value driver: reduce costs, improve compliance*

*Solution onramp: info. lifecycle governance*

### Business Challenge

PPL wanted to minimize the risk and costs associated with records, plus improve document retention for regulatory compliance and information governance.

### What's Smart?

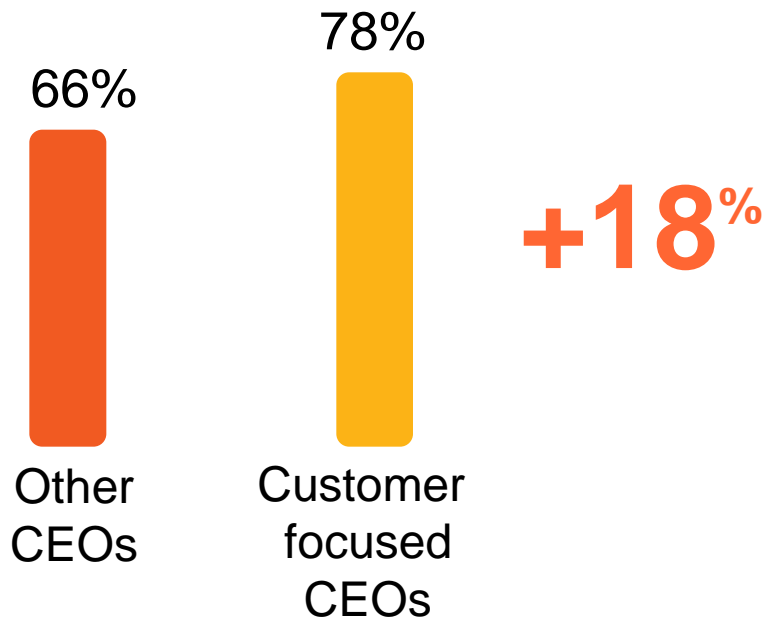
PPL addressed their e-mail and records retention requirements by properly capturing, consolidating, storing and managing content across its lifecycle, enabling compliance staff to find trusted, contextually relevant information in a single retention record.

### Smarter Business Outcomes

The IBM solution reduced time to access records from up to **five days to just seconds**, enabled a **75% decrease in time to compile information for new projects**, and helped staff retain critical documents to meet regulatory requirements.

# CEOs want to exploit the information explosion to better understand and serve customers

Focus on deriving new insights and intelligence from information to help realize strategy

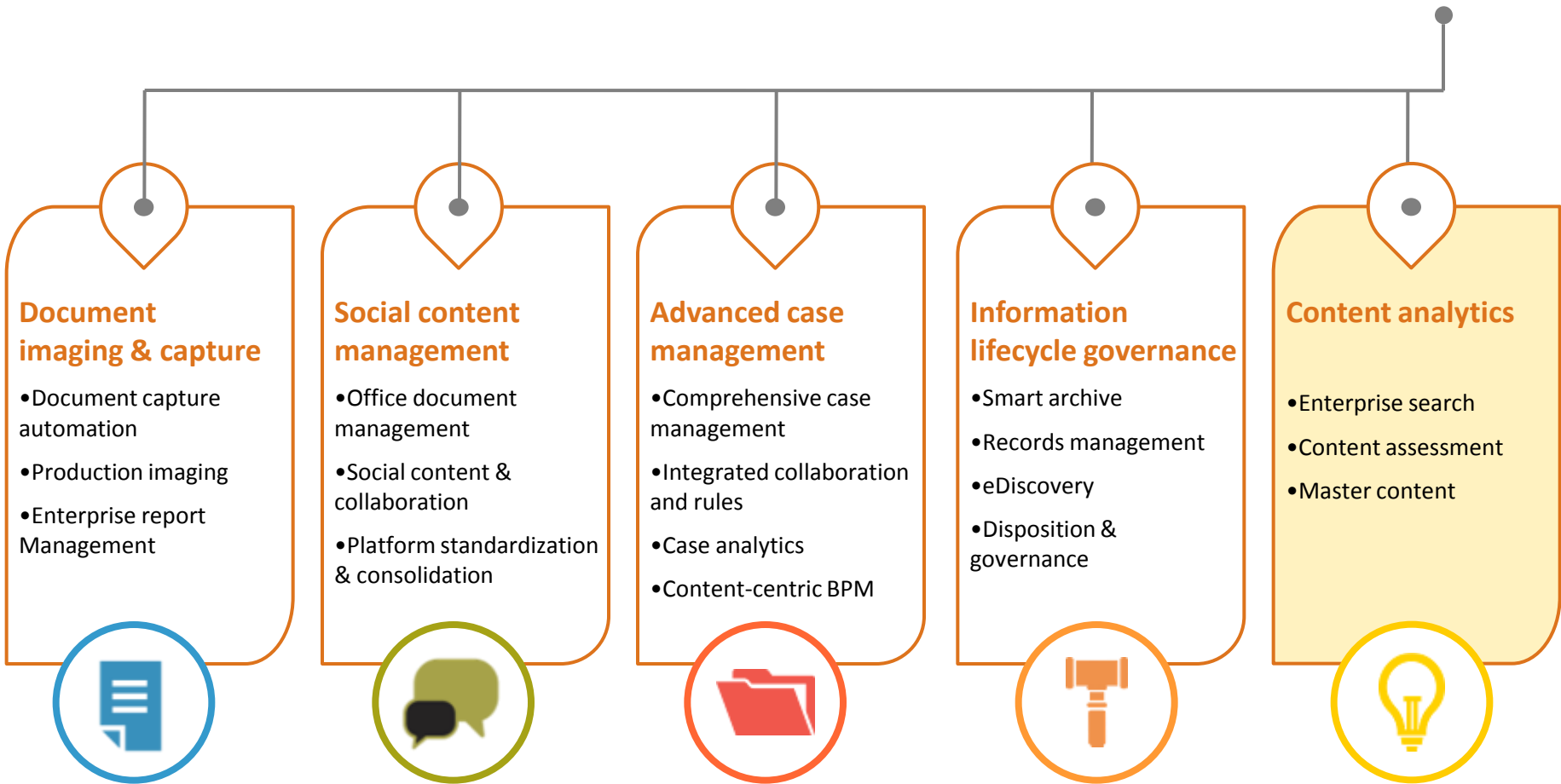


*“Insight and foresight are linked with leadership. It's insight that helps to capture opportunity.”*

Zhou Ming, Executive VP and Secretary General, China Council for Int'l Investment Protection China

# IBM Enterprise Content Management

Content analytics is helping *make sense of business information*



# Traditional approaches 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

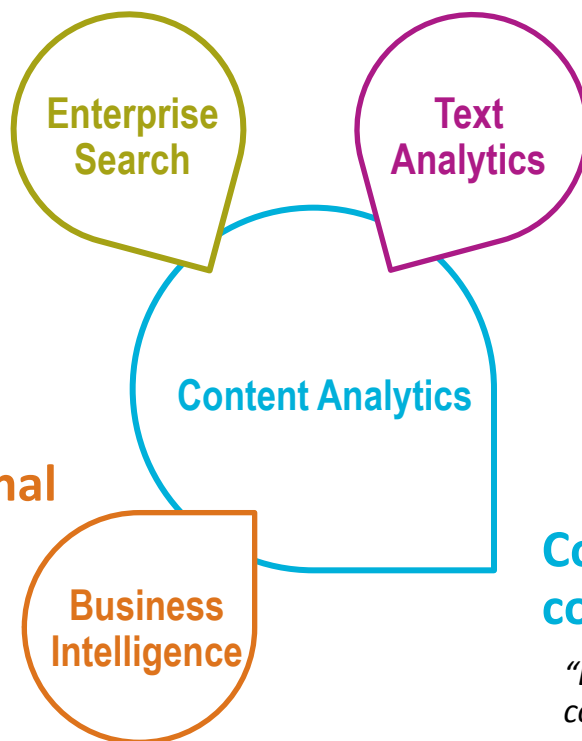
*“For many business process professionals, access to structured data, even when supported by BI or predictive analytics, lacks sufficient context for customer service, finance, and other areas where communications with customers involves many channels”*

– 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

# IBM Content Analytics is a platform to derive new insights

- Transform raw information into **business insights** without building models or deploying complex systems.
- Derive insight in **hours** or **days** ... not weeks or months.
- **Easy to use** for all knowledge workers to **search** and **explore** content.
- **Flexible** and **extensible** for deeper insights.



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

# Content analytics and Watson

- **Natural Language Processing (NLP)** is the cornerstone to translate interactions between computers and human (natural) languages
  - Watson uses **IBM Content Analytics** to perform critical NLP functions
- **Unstructured Information Management Architecture (UIMA)** is an open framework for processing text and building analytic solutions
  - Several IBM ECM products leverage UIMA text analytics processing:
    - IBM Content Analytics
    - OmniFind Enterprise Edition
    - IBM Classification Module
    - IBM eDiscovery Analyzer



## Japan 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 keywords.

## 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.

# ECM has never been more relevant

## Become more creative and innovative

- Creativity is the top leadership quality
- Drive change to stay ahead of market
- Expand our communication channels
- Break with status quo (industry, business and revenue models)



## Increase our responsiveness and flexibility

- Simplify operations and products
- Shift to iterative approaches (make quicker decisions - execute with speed)
- Increase agility by integrating globally and exploit partnering

## Reinvent our Customer relationships

- Get closer to customers (*top theme*)
- Better understand our what customers need
- Deliver unprecedented customer service



# Unifying information, process and people

Delivers better outcomes for you and your clients.

*thank you!*

[dcaldiera@us.ibm.com](mailto:dcaldiera@us.ibm.com)

