WebSphere's Advanced Technology Improves Business

Automate And Improve Your Business Decisions

Businesses React To Events



Call to the help desk



Sale is made



Inventory movement



Web site login

- They occur in real-time, not static data from a file or database
- The non-occurrence of an event can be significant
- Patterns or event relationships may exist

Businesses Run On Rules

Commission Payments. Who should get what, and why?

Is this possible fraud?

Is this customer eligible to receive this loan?

Should we offer a special promotion for our best customers?

Claims processing decisions.

Inventory movement. Anything need backfill?

Joint account opened might lead to other banking needs?

Utility Spikes

Incorrect login. may need attention

Quotes requested. How to respond? Billing. Are there discounts, taxes, S&H?

Toll not paid. Take a photo, ticket, check for other violations, or all of the above?

Product configuration rules

Determine if eligibility is met.

Based on buying patterns, suggest xyz.

Should I do an up-sell/cross-sell offer?

Order validation for a sale made

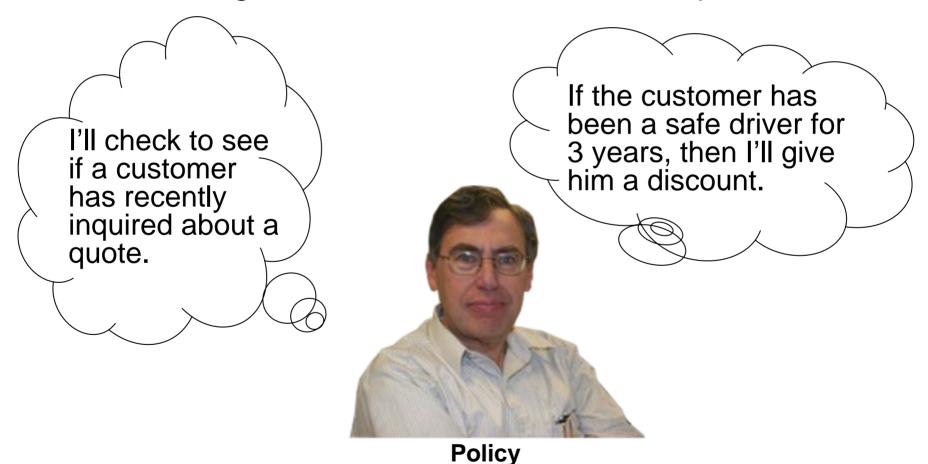
Risk assessment. Compute a credit score for this person. Did the customer fill out the form correctly?



Using Events And Rules, Businesses Need To Make Intelligent Decisions

Customers ask for quotes on automobile insurance policies.

Service Oriented Finance must decide how much to charge in order to get the business but still make a profit.

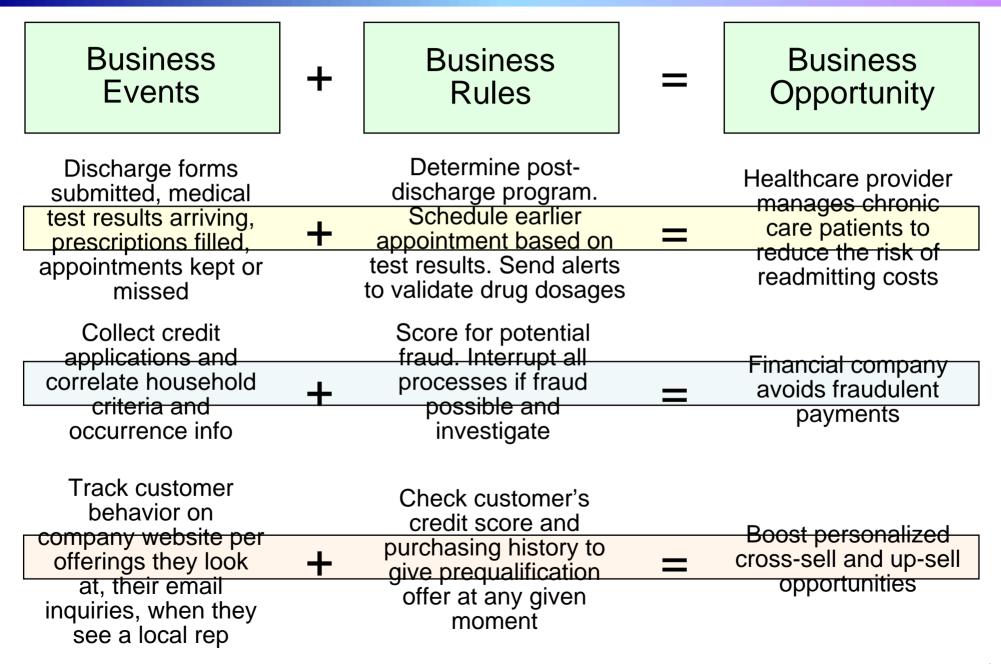


Business Expert

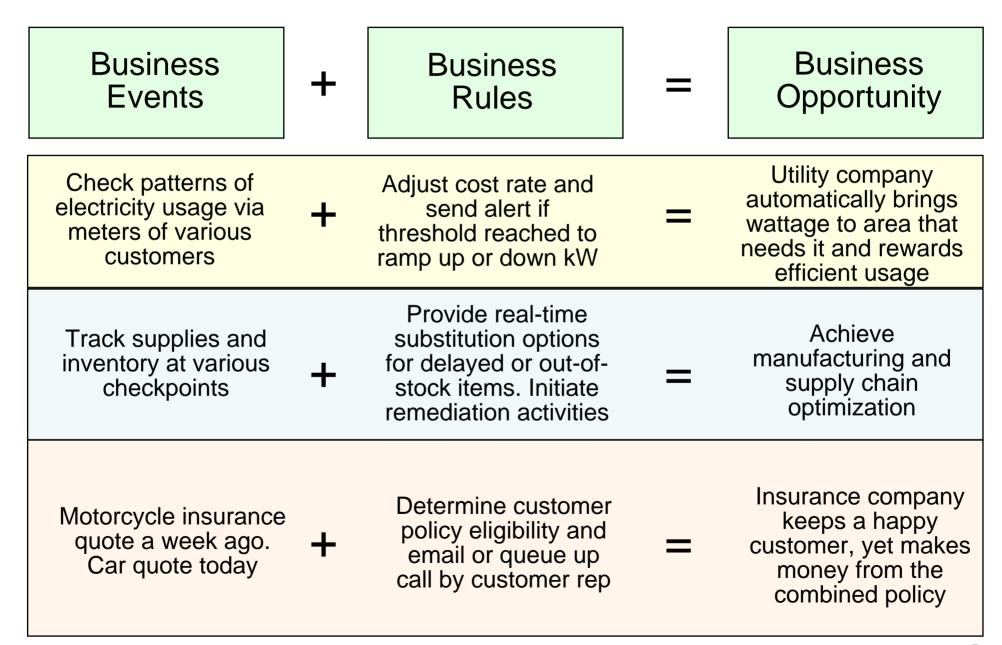
What Characterizes Intelligent Decision Management?

- Business events can be recognized and trigger a business process
 - e.g., if fraud is suspected, launch a business process to resolve the case
- Business rules can be invoked from a business process
 - e.g., the order fulfillment process invokes rules to determine the order price
- Business expertise can be captured as business rules
 - e.g., if the order price is more than \$500, give a 5% discount
 - e.g., if a customer uses his credit card in London and Delhi within 24 hours, his card may have been stolen
- Business rules and business events can be shared in a repository, encouraging collaboration between business experts and developers
- Business rules and business events have lifecycle management to support creation through retirement, including versioning and tracing
- Updates can be made quickly and easily

Combining Business Events And Rules Creates Business Opportunity



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How Can We Recognize Events That Require Action?

- Tap into specified event flows
 - Examples: messages, e-mail, file system, HTTP requests, JDBC
- Define which events we need to recognize
 - Author event rules
- Monitor event flows for specified events
 - Single events
 - Filtered events
 - Event patterns
- Trigger an action when an event is recognized

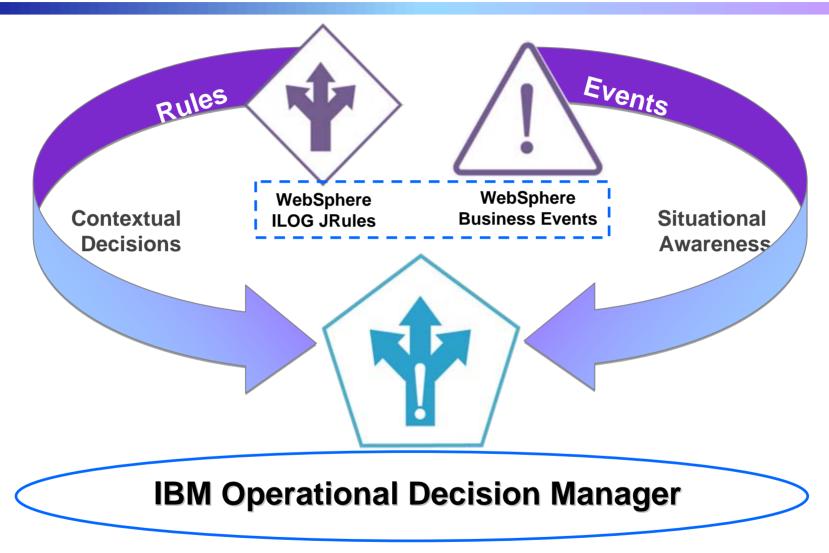
A business event server is required

We Also Require Automated Rules To Make Decisions Quickly

- Personal decision making is time consuming
- Business experts cannot focus on key decisions because they spend their time making less important decisions
- Decision making by non-experts is error prone and inconsistent
- Understanding how a decision was made is often impossible
- Changes to rules requires training for decision makers
- "Human speeds" cannot keep up with the flow of events

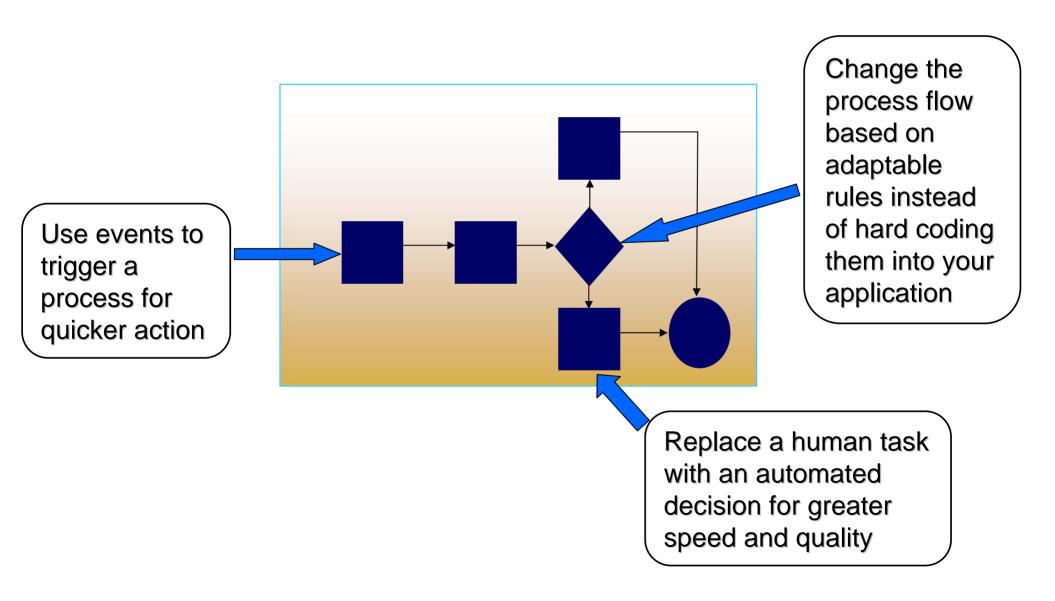
Automating decision management is required

IBM Operational Decision Manager Captures Rules And Events



An integrated solution offers a consistent approach to automating business decisions

IBM Operational Decision Manager Can Make Your Business Processes Smarter



Can My Decision Management Solution Help Me Detect Possible Fraud Or Identity Theft?

Customers sometimes dispute claims, and not all turn out to be valid. I wish we could detect earlier when a dispute might indicate fraud or identity theft.



Business Expert

IBM can discover, filter, and correlate large numbers of events automatically so that you can act on patterns of interest.



IBM

Create Your Event Filters Without Programming

A browser-based tool (Decision Center Console) is used for building business event correlations without programming



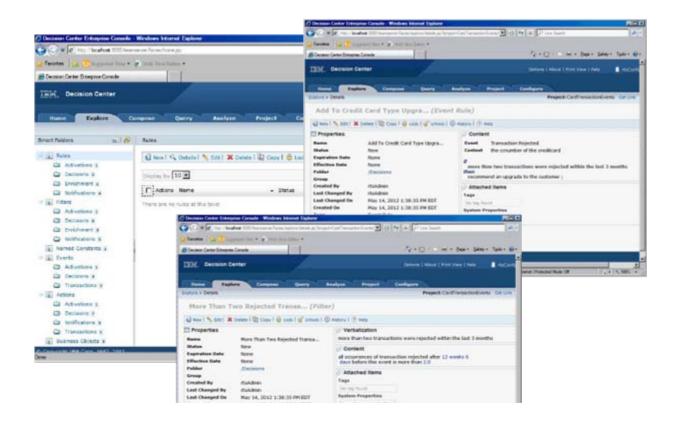
Natural language event **filter** to only select business events of interest

A correlation event rule determines if the received event should send an action



Demo: Capture Business Events To Identify Suspicious Claims

- A business expert recognizes patterns that indicate fraudulent customer behavior
- Using Operational Decision Manager, one can easily create event filters, and correlations





Intelligent Operational Decision Manager Applies Your Best Expertise To Every Decision

How can I capture my team's expertise so that I can make intelligent decisions?



VP Credit Card Services

Let me show you how your business experts can easily capture, collaborate, and manage their knowledge with automated rules.



IBM

Business Experts Can Create Rules Easily Using Natural, Not Technical, Language

Business Object Model



Developer

Rule Vocabulary





IT / Business

Business Rule Language





Rule Developer /
Business User

. _ -

CustomerInfo

- name
- birthday
- getNumAccidents()
- isHighRiskDriver()

• ...

"customer"

- the name of ...
- the birthday of ...
- the number of accidents of

. . .

• the ... is a high risk driver

• . . .

Rule: High risk driver

if

the birthday of **customer** is after **12/9/1975 and** the number of accidents of **customer** is at least **3**

then

set the customer as a high risk driver

Automatic rule vocabulary generation

- Vocabulary localization
- Consistent execution language

Even work in your native language

"client"

- le nom du ...
- l'anniversaire du ...
- Le nombre d'accidents du ...
- le ... est un conducteur à risque
- •

Règle: Conducteur à risque

si

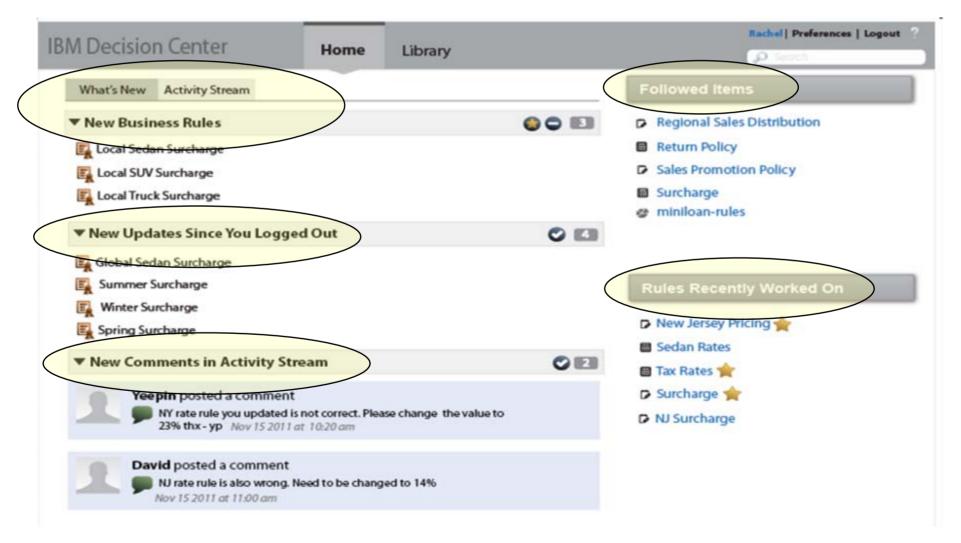
L'anniversaire du client est après le 12/9/1975 et le nombre d'accident du client est au moins 3

alors

Classer le client comme conducteur à risque

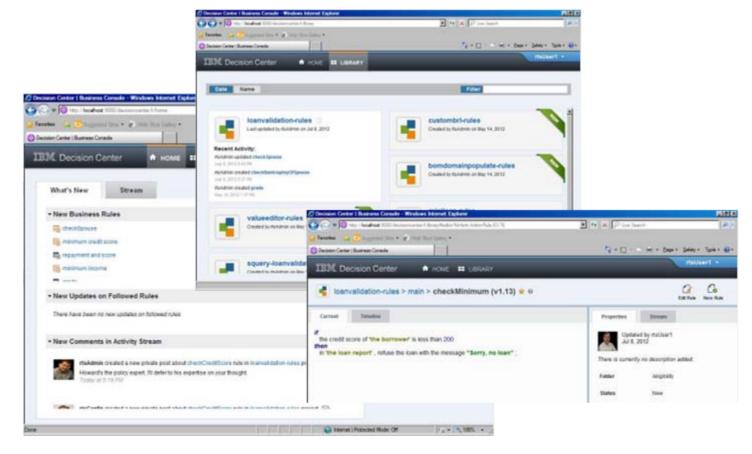
Be More Productive With The Collaborative Decision Center Business Console

In real time, experts can exchange comments and receive change notifications on rules that interest them



Demo: Easily Create A Business Rule With IBM Operational Decision Manager

- Using a natural language approach, a business user will author a rule in his area of expertise
- The business user will seek feedback on his rule from fellow experts





Rules Need To Be Managed Effectively

How can we manage and check all of our rules when they're developed by different experts?



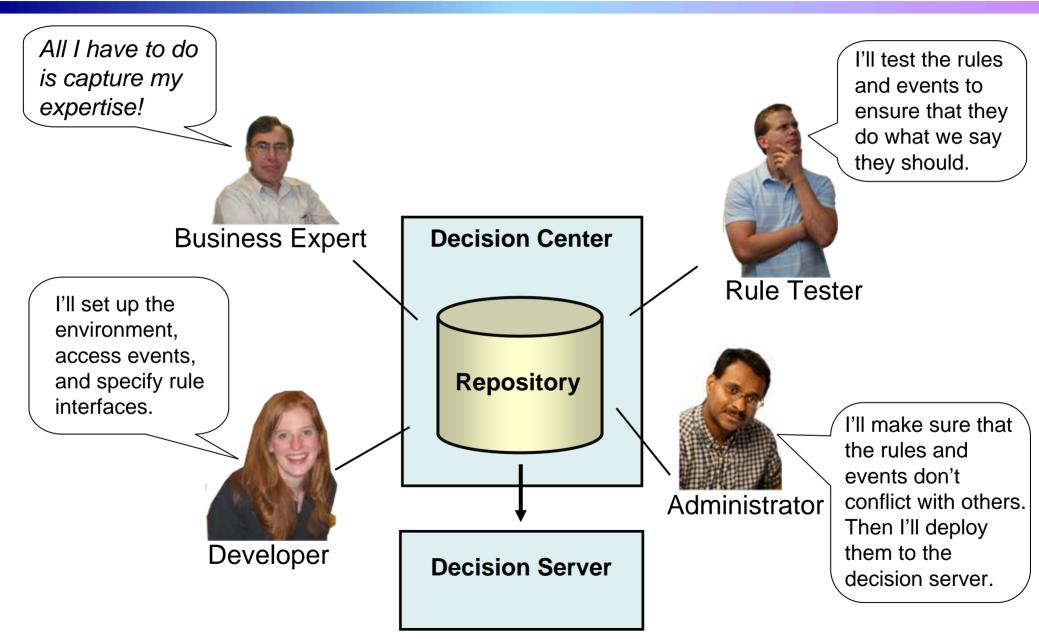
Policy Business Expert

IBM allows teams to work together safely and effectively.

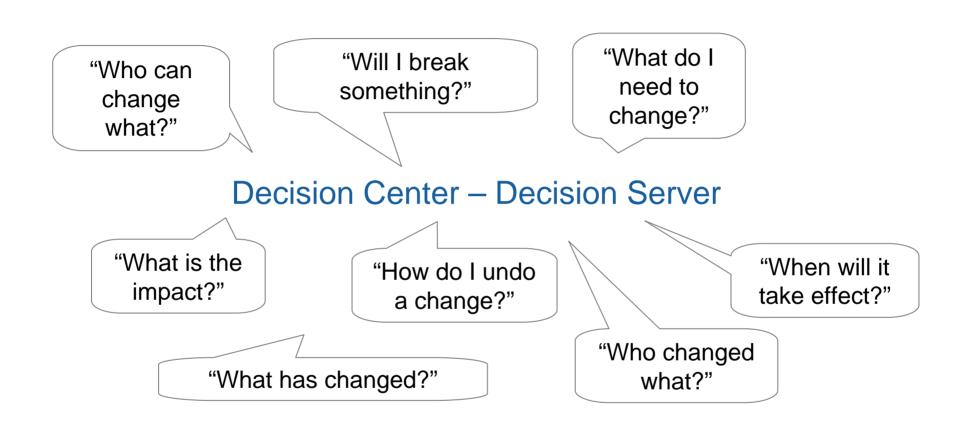


IBM

IBM Operational Decision Manager Allows Collaboration Amongst Stakeholders



With IBM, You Can Lower Risk With Safe And Predictable Decision Governance



With IBM, You Can Manage Effectively Even Very Large Numbers Of Rules

- Event rules and business rules
- Find and organize rules of interest
- Release projects flexibly, including branching and merging

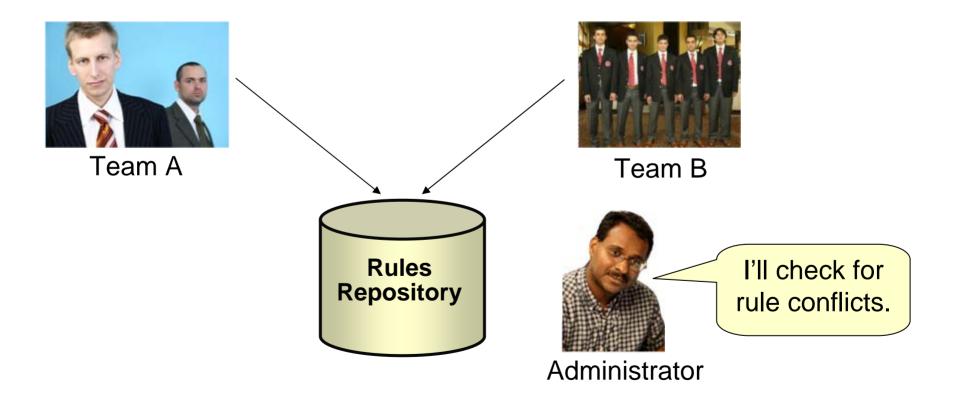
Perform rule consistency and completeness checks

Run simulations to compare outcomes



Demo: Ensure That Rules Do Not Conflict

- Teams may produce rules that conflict with each other
- IBM Operational Decision Manager automatically can detect rule conflicts so that they can be resolved





Swiss Customs Streamlines Tariff Calculations For Border Control



The Challenge:

- Facilitate trade while reducing threat of illegal goods
- Enforce customs regulations consistently
- Increase the effectiveness of 2,500 customs officers

The Benefits:

- Scalable system validates 200,000 customers declarations daily
- 96% of declarations are processed automatically
- Customs officers update the rules to keep pace with changing regulations
- Pre-validated customs declarations allow faster, but better, border checks

Why Customers Choose IBM



Challenge: Create a custom web-based point-of-sale system

"WebSphere's application stack was more evolved, more integrated, and more capable out-of-the-box. This translated into significantly lower application development costs, estimated to be 15% less compared to Fusion."

"TBC is saving close to 50% off future development and integration costs [with WebSphere]"



Challenge: Handle rapidly changing regulatory demands

"When we sat down with IBM, their road map blew us away... we knew it was best of breed."

"With WebSphere, we expect to see over 40% in savings across the board"

An International Logistics Provider

Challenge: Replace a legacy system

"[We] stopped supporting a million lines of custom code; reduced outage backlog recovery time from 8 hours to 15 minutes"

"ODM is also proving to dramatically boost developer and analyst productivity, by as much as 50%"

Branham report titled, "Choosing IBM WebSphere over Oracle Fusion based on Real World Experiences. A Perspective on BPM and Connectivity & Integration Solutions", dated June 2012. Used with permission from Branham Group Inc.

Common Benefits Of Decision Management Solutions

Automation

- Makes decisions without sick days, vacations, and coffee breaks
- Reduces labor costs and processing time

Quality

- Make decisions with the best expertise
- Reduce lost revenue due to errors, angry customers

Focus

- Allow experts to spend more time on the most difficult decisions
- Experts spend more time on the most profitable decisions

Transparency

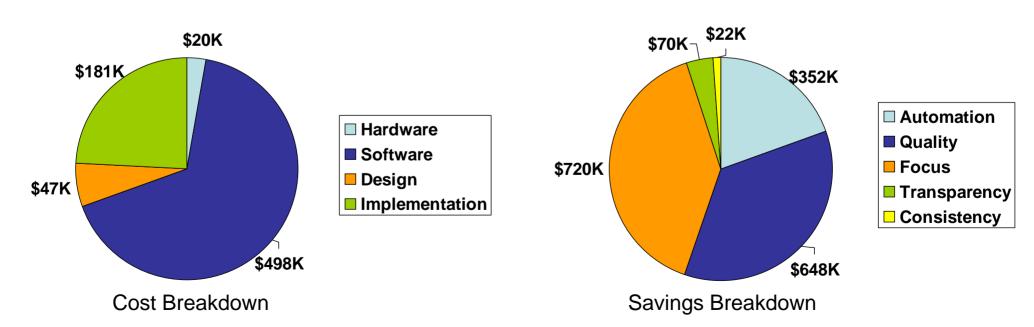
- Understand how decisions were made
- Save time, money, and headaches trying to assign blame

Consistency

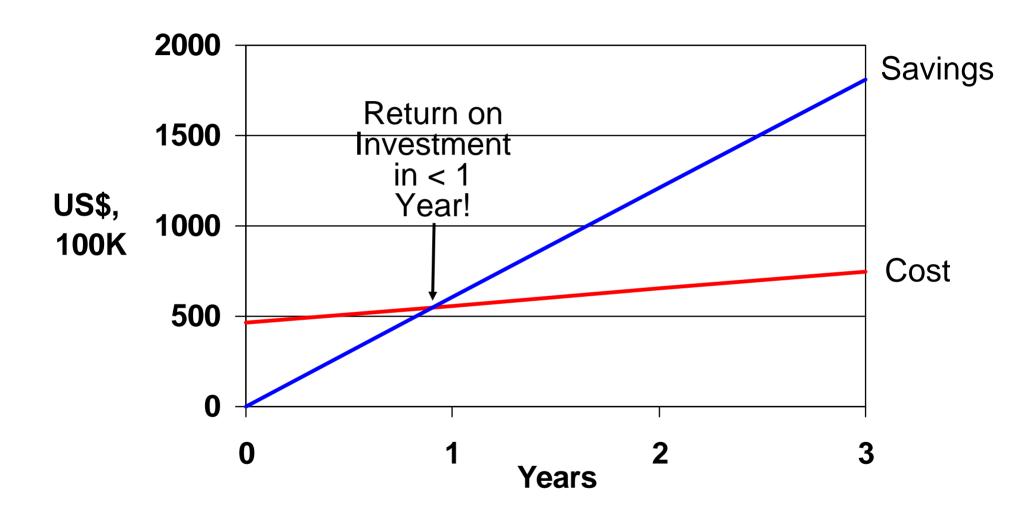
- Change rules without re-training
- Eliminates inconsistencies and down-time

You Do Not Need Many Rules Or Decisions To Justify A Decision Management Solution

- The number of decisions is a key factor. Even a relatively low number of daily decisions can benefit from automation
- Eliminating costly mistakes saves much more money than just reducing the time to make the decision
- The number of rules is only a minor factor in the savings



... And The Investment Payback Is Fast



Results based on IBM internal study as of 03/06/2012. Cost calculations are based on publicly available U.S. list prices; prices will vary by country.

Why Invest In Decision Management With IBM? Consider Our Triple "A" Rating!

Adapt to rapid change

- Common business language for line of business to quickly improve decisions without waiting on IT
- Unified environment to manage rule and event definitions
- Hot deployment accelerates change implementations

Align across Business and IT

- Non-technical decision language improves communication and provides visibility across the business
- Centralized repository for team collaboration
- Runs on various platforms, including natively on z/OS for the mainframe
- Intuitive testing and simulation allow business to validate changes

Act with precision and reliability

- Events and rules integration to decide when and what to do
- Versioning and release management for reliable change governance
- Automated and optimized, with a high performance runtime to support mission-critical decision services

