



 Make Every Decision the Right Decision with Decision Management

Information On Demand 2010

The Premier Forum for Information & Analytics

Gain Insight. Optimize Results.

CPA-3252A

Rob Risany, IBM Business Analytics

What impacts your decision making?

Where you want to be!



A decision with a favorable outcome

What's in your way!



Data? Process? Policy? People? Location? Politics? Knowledge? Legal Constraints? Time?

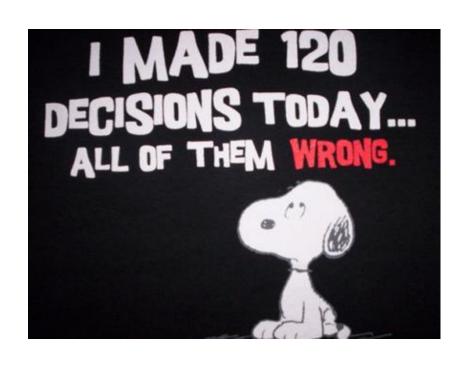
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Who makes decisions?



- Different kinds of people
 - Consumers
 - Call Center Reps
 - Sales People
 - Line of Business Managers
 - Executives
- Different kinds of systems
 - The IVR / Phone system
 - The website
 - The CRM system
 - A custom risk management database



Decisions vary in scope

Strategic decisions

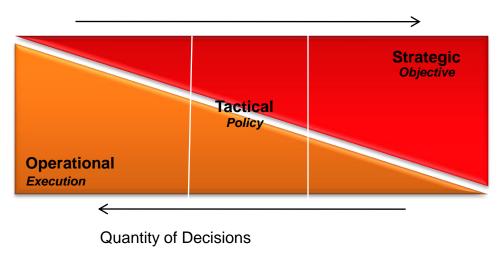
 Set the long-term direction for the organization. An initiative which results in <u>guidelines</u> within which operational decisions are made.

Tactical decisions

 The formation of <u>policy or process</u>. Focused on a specific project or objective which is executed at a tactical level.

Operational decisions

 Applying a policy, process, or rule set to a specific case. Lends itself to automation
Scope of Decisions





Problems Inevitably Lead to Operational Decisions

- Public Security
 - Problem: I can't search every car that crosses the border.
 - Decision: Which car should I search?
 - Who: Border Control Guard
- Insurance
 - Problem: I can't investigate every claim for fraud.
 - Decision: Should I investigate this claim?
 - Who: Claims Specialist
- Telecommunications
 - Problem: I can't save every customer.
 - Decision: Is it worth trying to save this customer?
 - Who: Call Center Agent





Practical Advice

- When you get home identify a business objective where you care about the results
- Identify the limiting factor of the decision the problem.
- Identify WHO makes decisions which impact this business problem cover strategic, tactical and operational perspectives

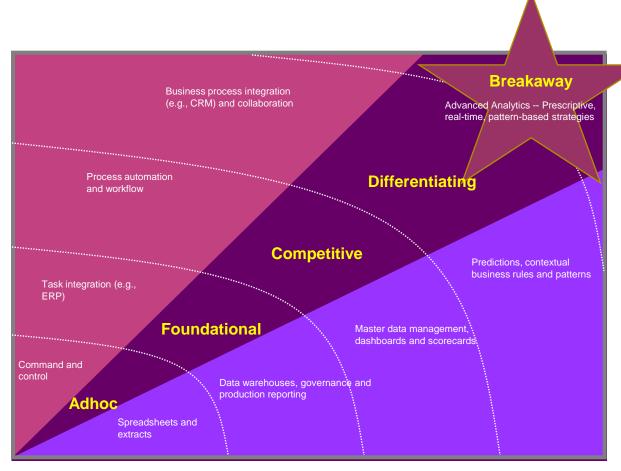


How Mature is Your Decision Making?

Business operations maturity

How the business applies information to achieve its goals

- Policies
- Business Processes
- Organization



Information and analytics maturity

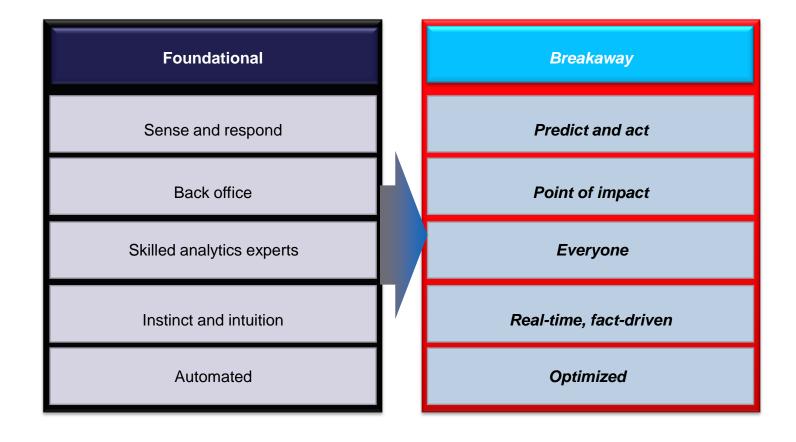
How the business manages information and learns from it

Source: Breaking Away with Business Analytics and Optimization: New intelligence meets enterprise operations available in late 2009 at www.ibm.com/gbs/intelligent-enterprise.





Optimizing Every Decision at the Point of Impact...





Transformation with IBM SPSS Decision Management



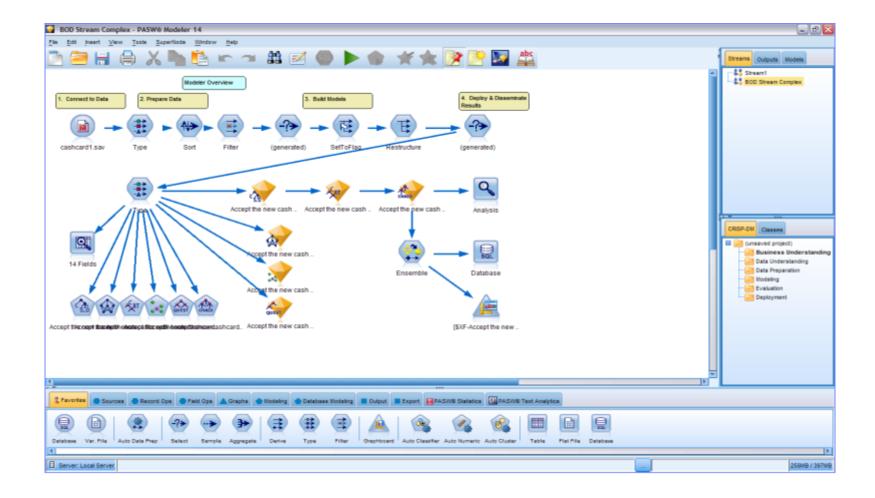
The next wave of predictive analytics – built on convergence

- The power of predictive analytics:
 - —In the hands of the business
 - —In language they can understand
- Best practices decision making for industry problems
 - Completely configurable solution templates
- Focused on the point of impact
- Automated decisions become part of the business DNA



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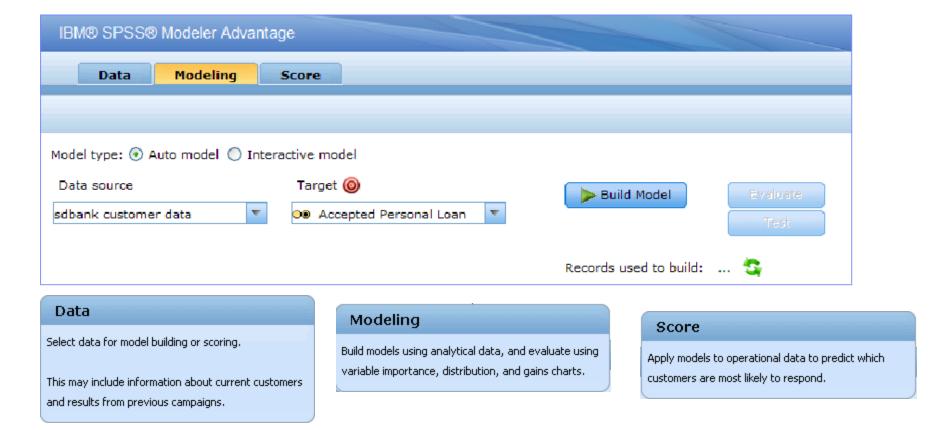
From Skilled Analytics Experts to Everyone– from this....





To this!





3 Click Automated Modeling with Modeler Advantage, Part of Decision Management





Practical Advice

- Take a skills inventory of the people who impact your decisions.
- Understand which questions can only be answered by your analytic experts – what would happen if those people didn't come to work tomorrow?

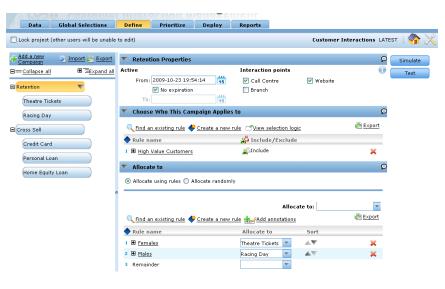




From Instinct & Intuition to Fact Driven Solutions

- Decision Management for Claims
- Decision Management for Customer Interactions





Making the business successful: Structured analytical decision making



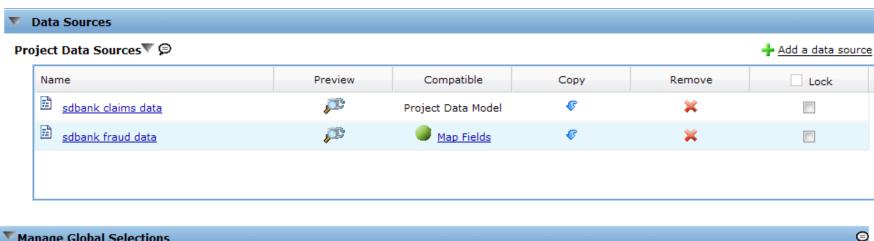
- 1.Connect to data
- 2. Define Scope of Decisions with Global Selections
- 3. Define desired outcomes
- 4. Define business rules / models
- 5. Optimize the Decisions
- 6. Deploy / Score
- 7.Report







Select Data Sources... Step 1



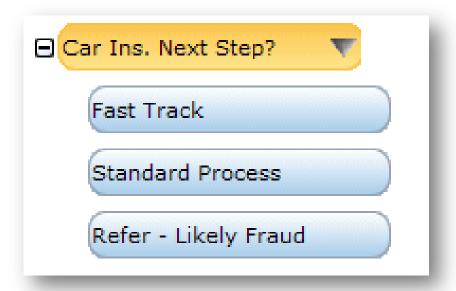


Define Scope with Global Selections... Step 2



Defining Desired Outcomes... Step 3

Typically with all decisions there is a finite set of desired outcomes that can be achieved.



The Insurance Company identifies three possible outcomes to the decision.

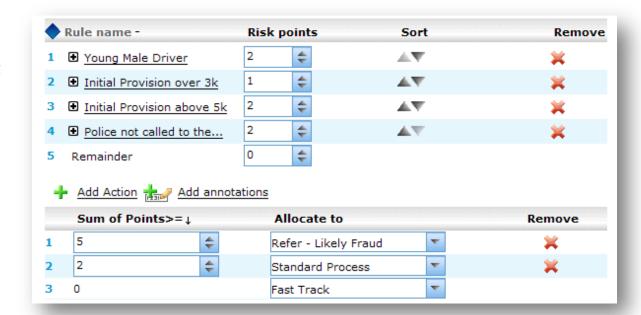
"There's three things we could do: Fast track, Standard process, Investigate"



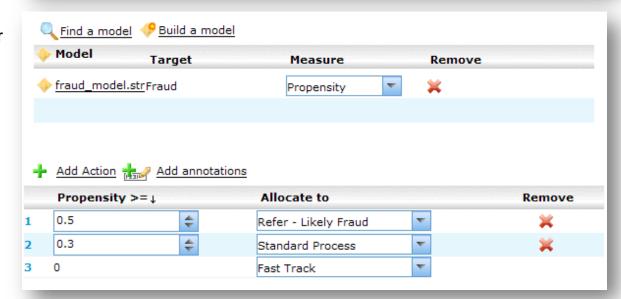


Define Rules and Models... Step 4

Business user defines rules that embody their priorities and experiences



Existing Models are leveraged – or new ones are created by the business user

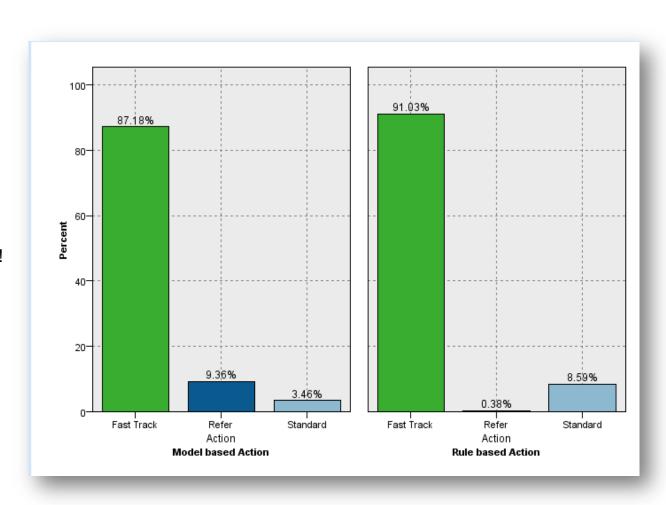


Define Rules and Models... Step 4

Models and Rules each contribute...

Valuable standalone...

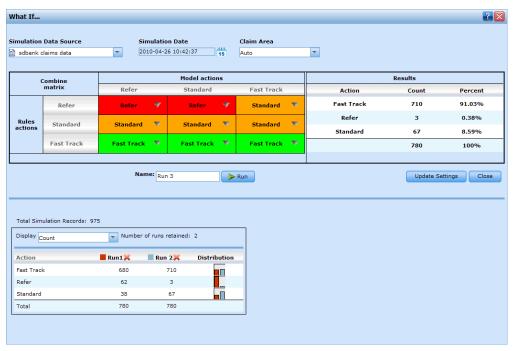
But much more useful together!





Optimize Outcomes... Step 5

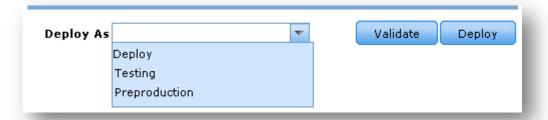
The decision outcome is optimized and balanced between the predictive models that provide real time insight and the rules that govern the policy and practices of the company



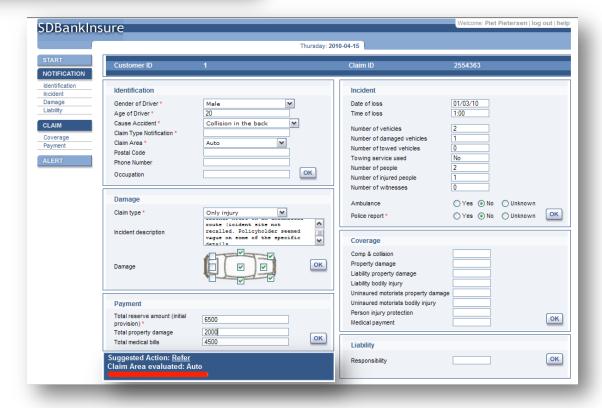
Flexible What-if tools for Optimization and Prioritization



Deploy... Step 6

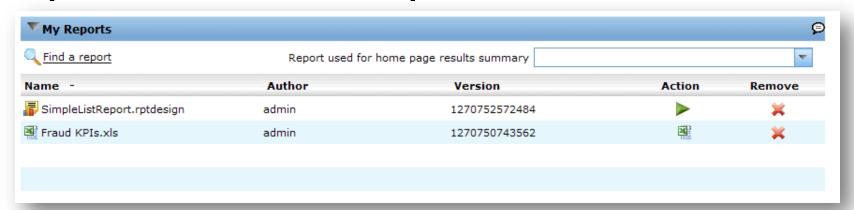


- The project is ready to move into production (for real time inbound decisions) or score in batch to deliver outbound communications
- Model Management capabilities allow ongoing monitoring / improvement of the models in production

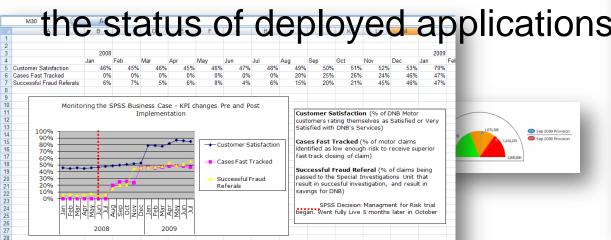




Report on outcomes... Step 7



The Report tab allows you to monitor



			For Internal use only Report Generated on 4/8/10	
Customer Li	isting (Claims with Initial Provision set at greater th 10000)			ian
Claim ID	Customer ID	Claim Type	Initial Provision	l
Cause Accident				ı
Change of direction		Total Provisi	ion: \$207,800.00	1
2310101	18772187	Material and injury	\$15,700.00	
2323924	18827968	Material and injury	\$15,700.00	
2329162	18829826	Material and injury	\$17,450.00	L
2395532	18853076	Material and injury	\$15,700.00	
2421511	18862039	Material and injury	\$15,700.00	
2424226	18862950	Material and injury	\$15,700.00	
2458208	18874694	Material and injury	\$15,700.00	
2467421	8655555	Material and injury	\$17,650.00	
2487918	18505049	Material and injury	\$16,900.00	
2506060	8638132	Material and injury	\$15,700.00	
2526452	18896406	Material and injury	\$15,700.00	
2536647	8891423	Material and injury	\$30,200.00	
Collision in the back		Total Provisi	ion: \$15,700.00	
2306838	18821850	Material and injury	\$15,700.00	
Exceeded speed limit		Total Provisi	ion: \$155,900.00	
2314161	8887959	Only injury	\$29,000.00	
2338983	18833323	Material and injury	\$15,700.00	
2348786	18836546	Material and injury	\$17,150.00	
2395607	18853105	Material and injury	\$31,400.00	
2421086	18861916	Material and injury	\$18,650.00	
2531398	18898238	Only injury	\$15,000.00	
2532226	18898507	Only injury	\$29,000.00	
Loss of attention		Total Provisi	ion: \$186,400.00	
2344113	8740065	Material and injury	\$15,700,00	
2345922	18835553	Material and injury	\$15,700.00	
2346053	18587161	Material and injury	\$15,700.00	
2429559	18864825	Material and injury	\$15,700.00	
2434459	18698289	Material and injury	\$16,900.00	
2450828	18752899	Material and injury	\$15,700.00	
2461354	18875773	Material and injury	\$15,700.00	
2484369	18883529	Material and injury	\$13,700.00	
2514869	18893121	Material and injury	\$30,200.00	
2525061	8642005	Material and injury	\$15,700.00	
2534667	18899299	Material and injury	\$15,700.00	1
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IB Reports RCB Reports Sheet3

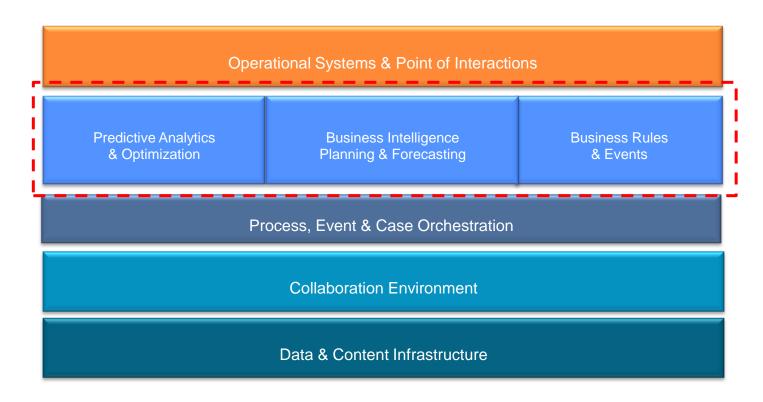


DEMONSTRATION



IBM Leads in Transformation

Key Technologies for optimizing the point of Interaction





Transformation is Limited Only By Your Creativity

Reduce Maintenance costs for truck fleets?

costs for truck fleets

Identify Store Locations?

Recruit the best employees?

Optimize Campaign Effectiveness ?

Retain Frequent Flyers?



Reduce fraudulent claims?

Choose the right Product Features?

Reduce Border incursions

Catch smugglers?

Reduce Churn?

Prevent crime?



Optimize product mix?

Thank You! Questions?

- When you get home identify a business objective where you care about the results.
- Identify the limiting factor of the decisions the problem inherent to the objective.
- Identify WHO makes decisions which impact this business problem – cover strategic, tactical and operational perspectives
- Take a skills inventory of the people who impact your decisions.
- Understand which questions can only be answered by your analytic experts – what would happen if those people didn't come to work tomorrow?







Backup content on the 7 steps





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 - Your smart phone or web browser at: iodsmartsite.com
 - Any SmartSite kiosk onsite
 - Each completed session survey increases your chance to win an Apple iPod Touch with daily drawing sponsored by Alliance

Tech



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