



Information On Demand 2010

The Premier Forum for Information & Analytics

Gain Insight. Optimize Results.



How Decision-Making is Changing



"We are in a historic moment of horse-versus-locomotive competition, where intuitive and experiential expertise is losing out time and time again to number crunching."

Ian Ayres, author of "Super Crunchers"

Quality and value of decisions

Decisions from "Intuition"

- "Instinct"
- "Hunches"
- Based on experience

Automated Decision-Making

- Knowledge, policies and practices embodied in business rules
- Decisions made efficiently and consistently
- Objective

Predictive Decision-Making

- Accurate predictions based on historic patterns
- Leverage all available data
- Flexible, evidence-based decisions
- Robust in volatile environments models re-generated from latest data to reflects changing fashions, trends, etc.

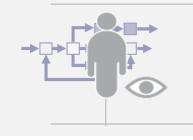


Imagine If Your Decision Makers Could...

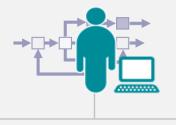


...predict and treat infection in premature newborns 24 hours earlier?

...adjust credit lines as transactions are occurring to account for risk fluctuations? ...determine who is most likely to buy if offered discounts at time of sale? ...apply inferred social relationships of customers to prevent churn?









Physician

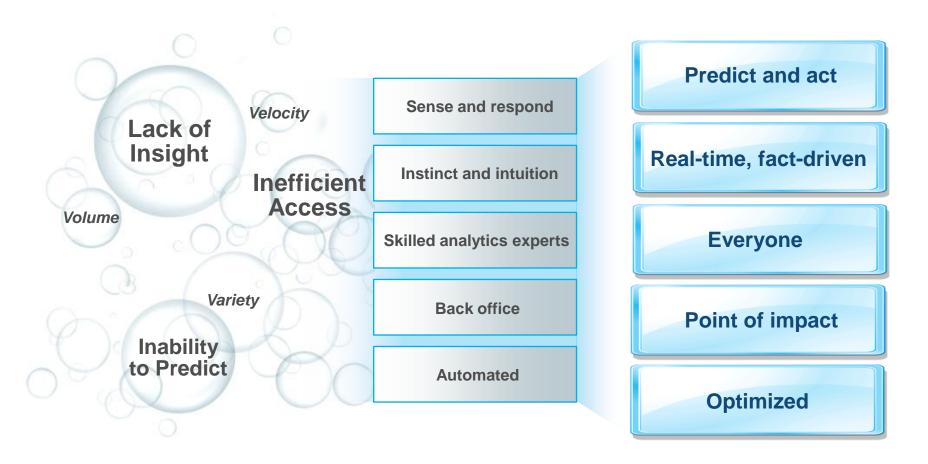
Loan Officer

Retail Sales Associate Telco Call Center Rep

...optimize every transaction, process and decision at the point of impact, based on the current situation, without requiring that everyone be an analytical expert



New ways of working to optimize decisions and actions







New ways of working to optimize decisions and actions





IBM BI and Performance Management Capabilities Help Decision Makers Find the Answers















Analyst



SPSS as a value-add for IBM Cognos Customers

How are we doing?

DASHBOARDING

SCORECARDING

Addition of KPPs (Key Performance Predictors)

Why are we on/off track?

REPORTING

Broad distribution of statistical results

QUERY

What should we do next?

ANALYSIS ANALYSIS

PLANNING

Time series forecasting

New customer insight through Data Collection

Predictive analytics for deeper understanding of the data







Manager



Business User



Line of Business Manager



Business Analyst



Financial Analyst





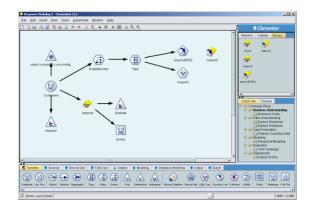
Make informed decisions with predictors

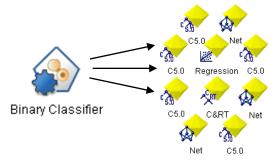
Infer the outcome of every interaction by modeling the hidden relationships in your data

IBM SPSS Predictive Analytics

Solution Highlights

- Easy to learn, no programming approach to data mining
- Automatically create accurate, deployable predictive models
- Choose the best solution with multi- model evaluation
- Data mining within standard databases
- Multithreading, clustering and use of embedded algorithms





Deliver the power of predictive analytics into the hands of the business users

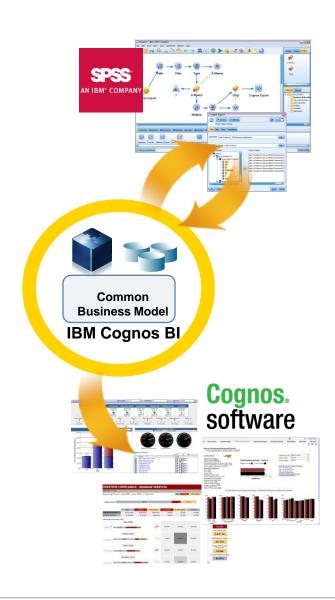


Uncover key insights in your corporate data by integrating predictive analytics as a core activity to drive business decisions

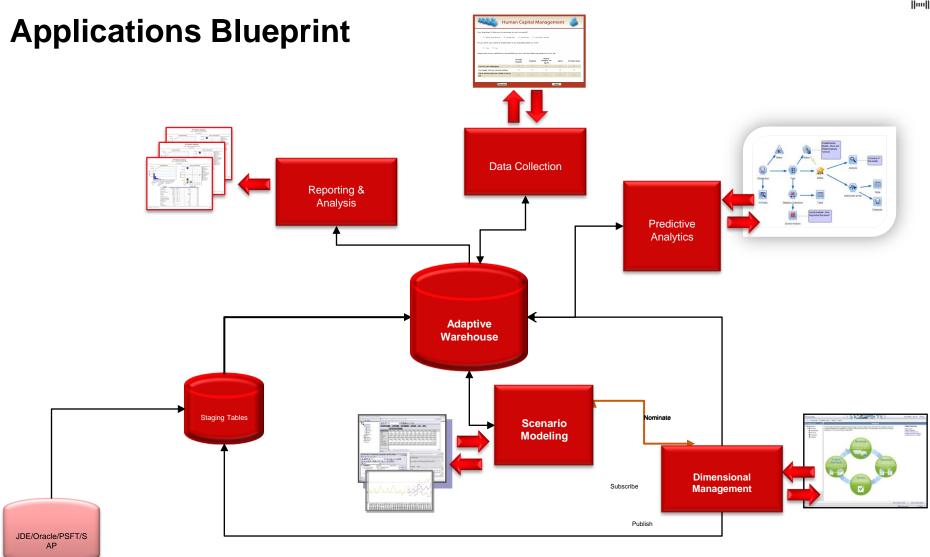
Integration with IBM SPSS Modeler 14.1

Solution Highlights

- Leverage BI to identify problem or situation needing attention
- Develop factual context using reliable trends, patterns and predictions.
- Easily distribute the results to broad user communities



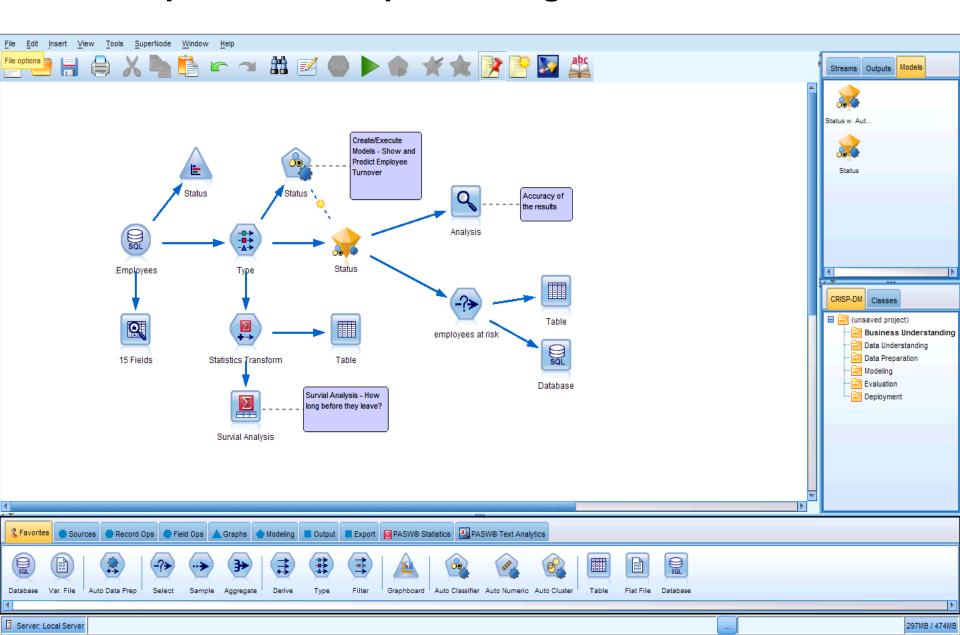






DH.

An example: Human capital management



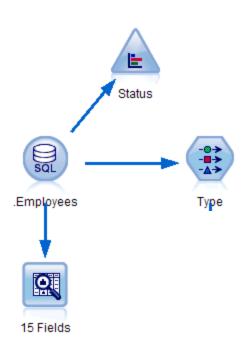


Human capital management – get data



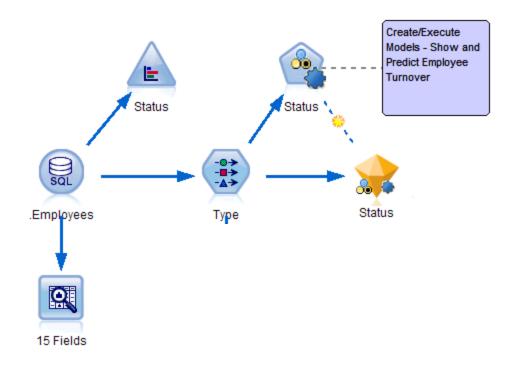


Human capital management – profile data





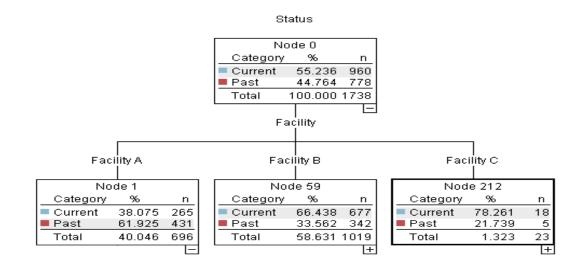
Human capital management - predicting





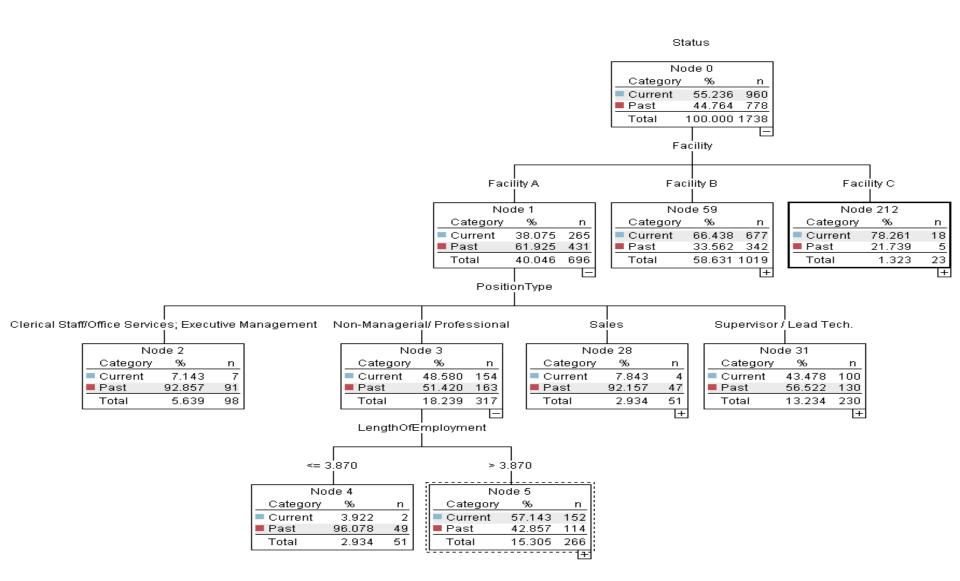


Look at the Prediction – Who's leaving?



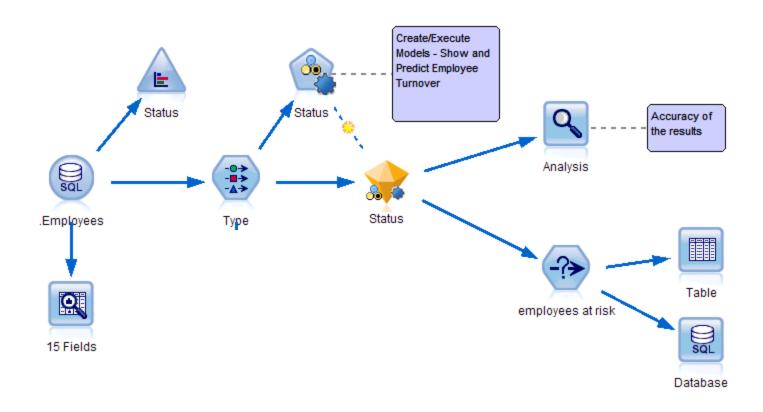


Look at the Prediction – Who's leaving?





Human capital management – Analyse Predictions





Human capital management – Now what?

- Conduct employee satisfaction surveys
- Combine employee satisfaction into modelling process
- Explore relationship between:
 - tenure and employee attrition
 - staff performance review process and attrition
 - employment channel and job role
 - etc, etc
- Screen CV's with Text Analytics to identify better qualified candidates



Employee satisfaction surveys





Human Capital Management



How long does it take you to com	nute to work currently?
----------------------------------	-------------------------

- O More than 90 min O 60-90 min O 30-60 min O Less than 30 min
- Do you think your place of employment is an enjoyable place to work?
 - O Yes O No

Please tell us how satisfied or dissatisfied you are with the following aspects of your job.

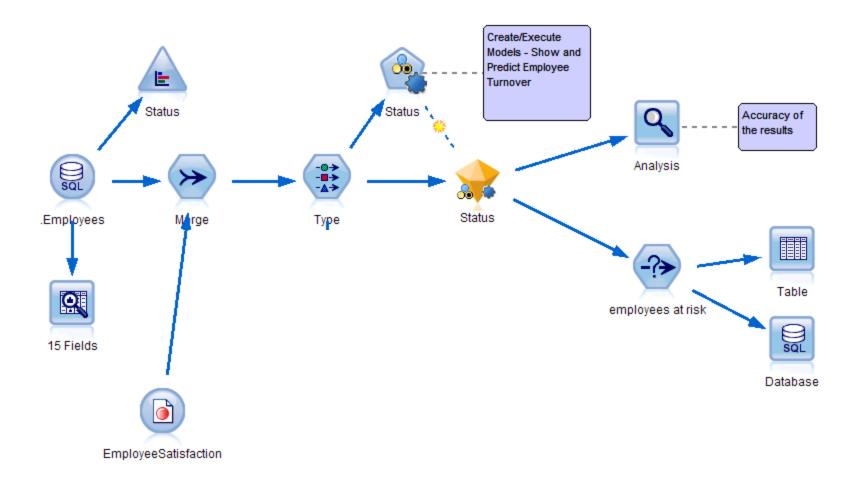
	Strongly Disagree	Disagree	Neither Disagree nor Agree	Agree	Strongly Agree
I find my job challenging.	0	0	0	0	0
I am happy with my current position.	0	0	0	0	0
I have all the resources I need to do my job.	0	0	0	0	0

Previous

Next

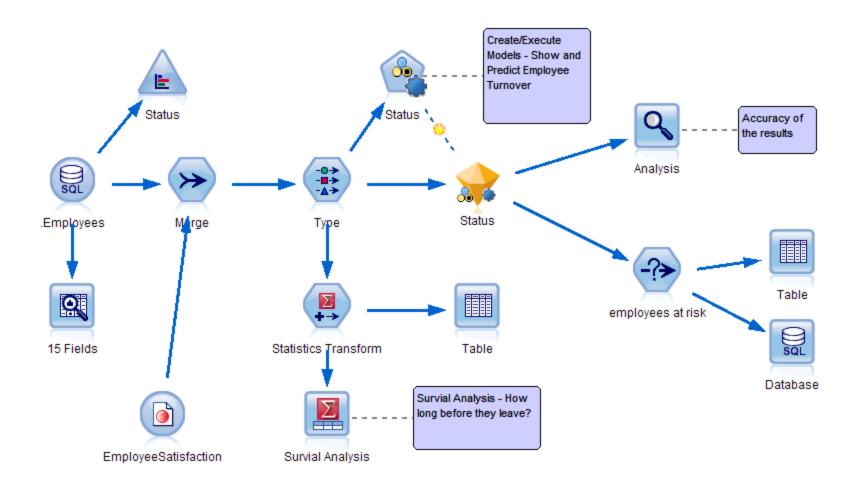


Include attitudinal information in modelling process



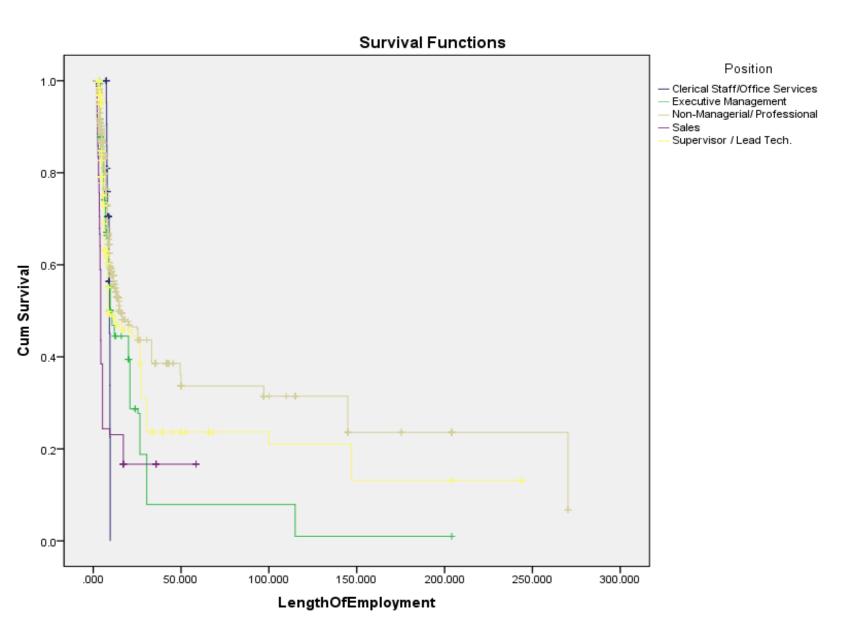


Explore the importance of tenure

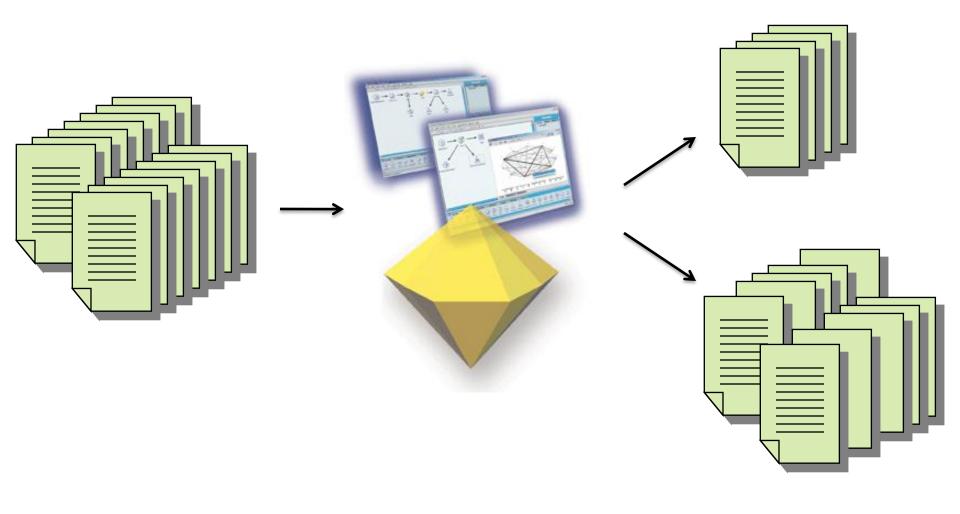




Explore the importance of tenure



Screen resumes to identify ideal candidates





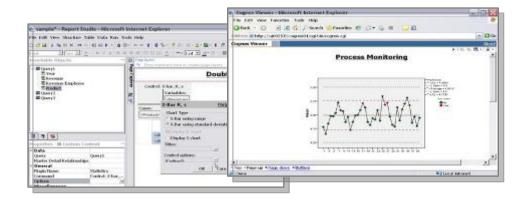
Analytics Everyone Can Use to answer key business questions

-> Cognos 10 delivers Statistical Reporting



Incorporate Statistical Results with Core Business Reporting

- Analysts will be able to easily disseminate statistical analysis
- Delivers accurate statistical evidence to back decisions
- Save time preparing analysis to meet presentation needs



Solution Highlights

- Seamlessly integrated into Report Studio Professional
- Based on the market leading SPSS statistical engine
- Mass distribution through Dashboards, Reports
- Works for data sources supported by IBM Cognos Platform



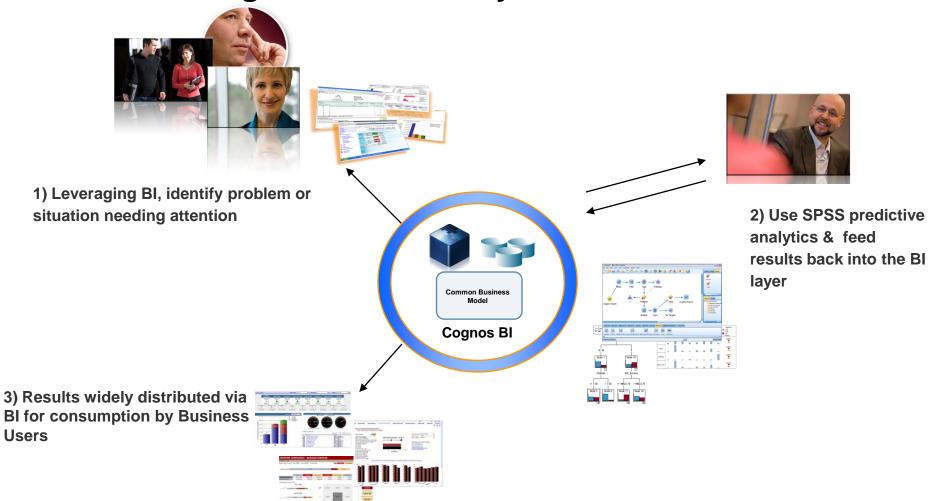


Desire to easily share analysis w/Broader Business Community





Demo: Adding value with analytics





Summary





How are we doing?

Why are we on/off track?

What should we do next?

- IBM Business Analytics answers the 3 performance management questions
 - Drives better business outcomes by freeing the business to develop new insights
 - Provides the predictive 'brains' for the next generation of decision making and business optimization
 - Predictive intelligence can be broadly distributed to decision makers via IBM Cognos BI reports and dashboards

Information and Analytics Communities

- On-line communities, User Groups, Technical Forums, Blogs, Social networks, and more
 - Find a community that interests you at...
 - <u>ibm.com/software/data/community</u>
- Information Champions
 - Recognizing individuals who have made the most outstanding contributions to Information Management communities
 - <u>ibm.com/software/data/champion</u>





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www.spss.com/goldcoast





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