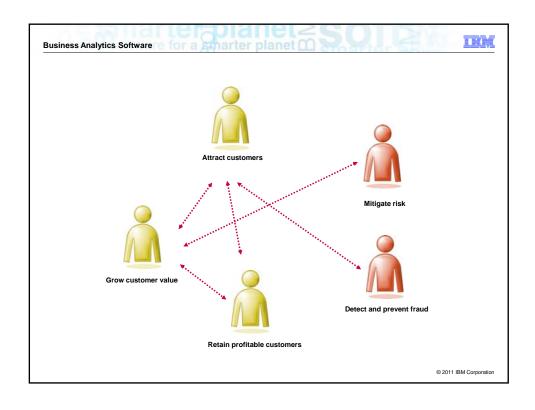




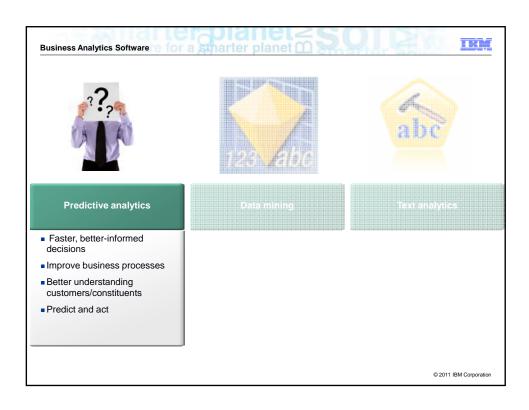


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IRM Business Analytics Software Predictive analytics in action Customer relationship management
 Science "analytical CRM" Genetics • Who are our best customers? • Drug discovery • Can we get more like that? Medical research • What/why do they buy? Food authentication • Why do they leave? Fraud detection Human capital management Money laundering • Who are our best employees? Network intrusion • How do we keep our best employees • Tax audits & collection from leaving? Crime analysis • Which prospects should we recruit? • Industrial process optimisation & QA and many more...



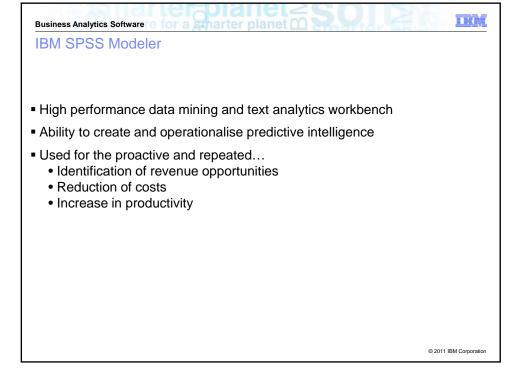




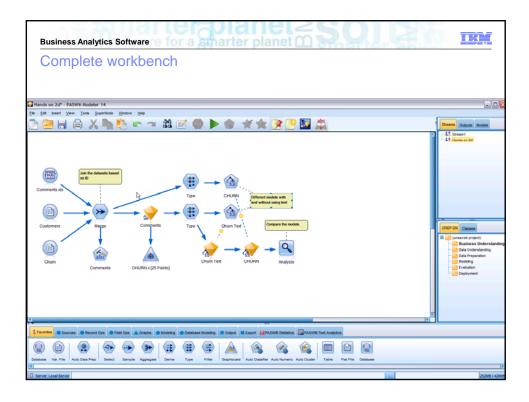


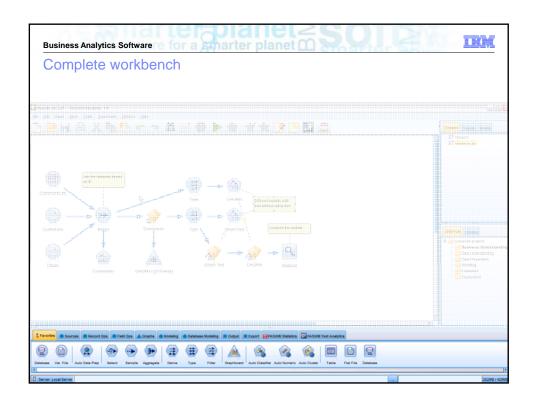


Data Mining Discover key relationships between variables Use advanced analytical techniques on data Model effect of variables on outcomes Determine influence on outcomes Predict outcomes Apply models to new data

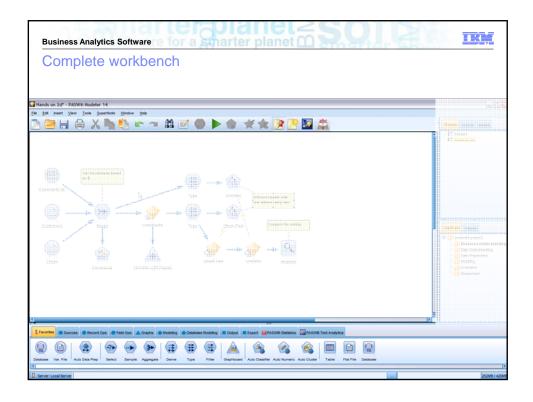


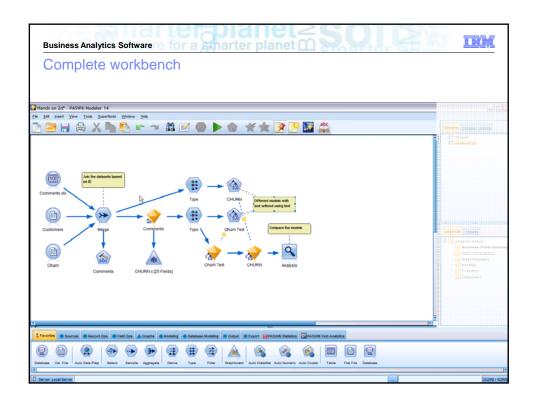




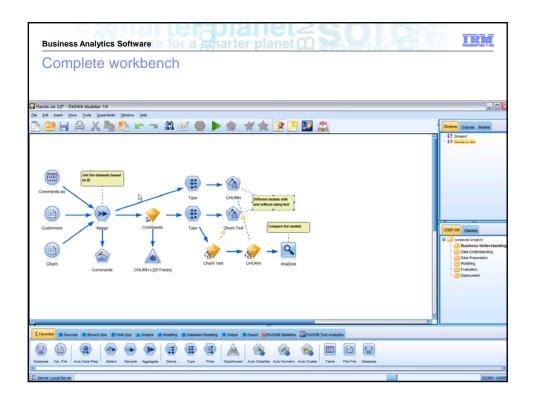


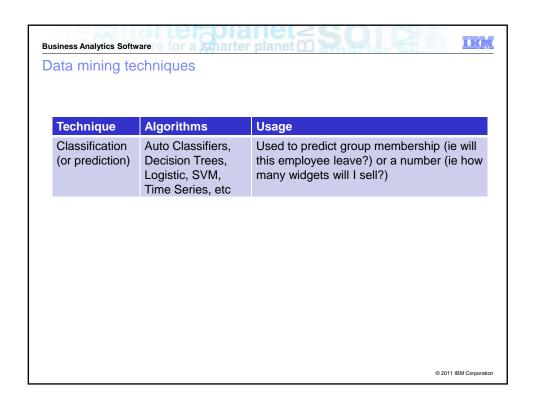




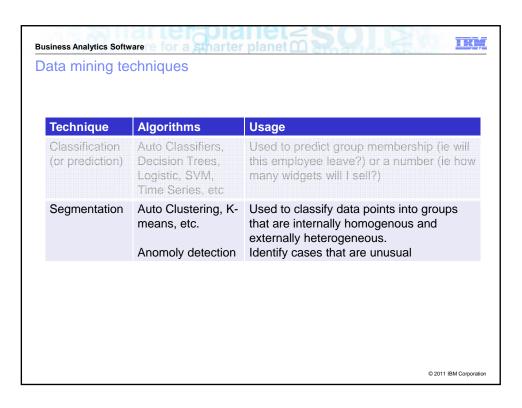








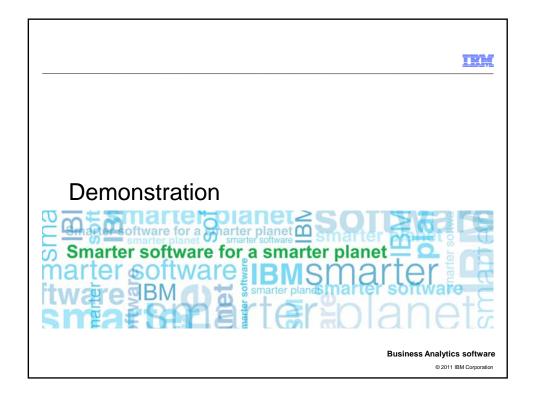




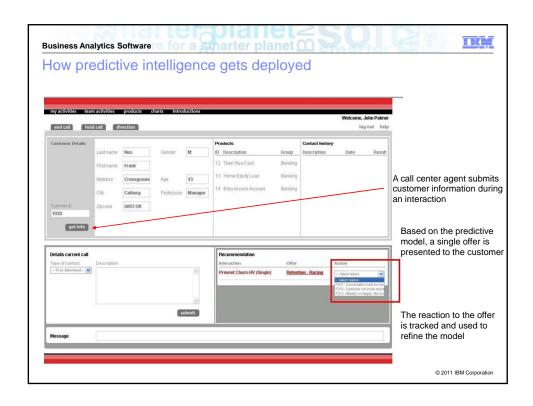
Technique	Algorithms	Usage
Classification (or prediction)	Auto Classifiers, Decision Trees, Logistic, SVM, Time Series, etc	Used to predict group membership (ie will this employee leave?) or a number (ie how many widgets will I sell?)
Segmentation	Auto Clustering, K-means, etc.	Used to classify data points into groups that are internally homogenous and externally heterogeneous.
Association	Anomoly detection APRIORI, Carma, Sequence	Used to find events that occur together or in a sequence (ie market basket).

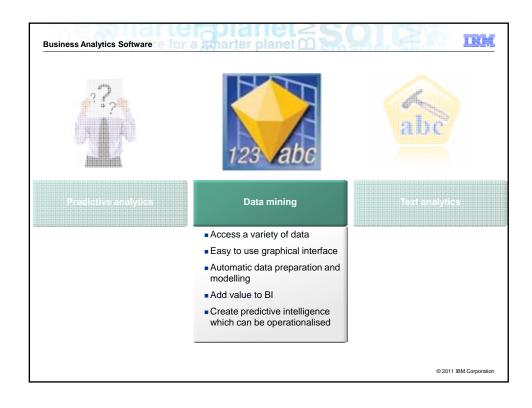




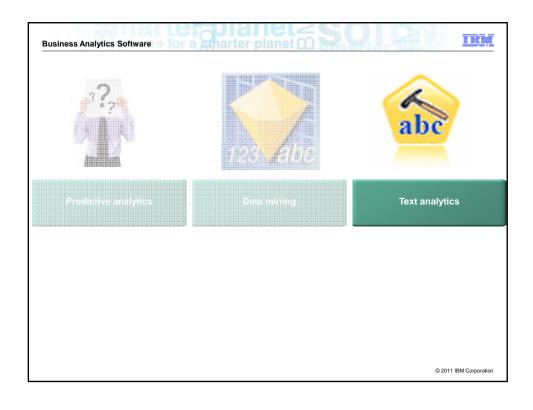


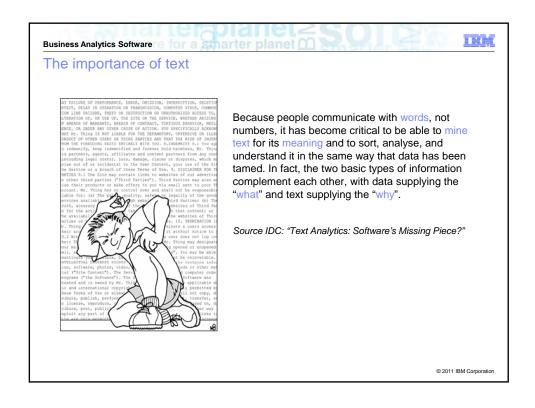














Business Analytics Software e for a smarter planet
Text analytics

- Extract, analyse and create structure from unstructured data
- Integrate analysis results into operational systems
- Integrate analysis results into Business Intelligence applications
- Integrate analysis results with structured data and use as input for Data mining
- Improves model accuracy.

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