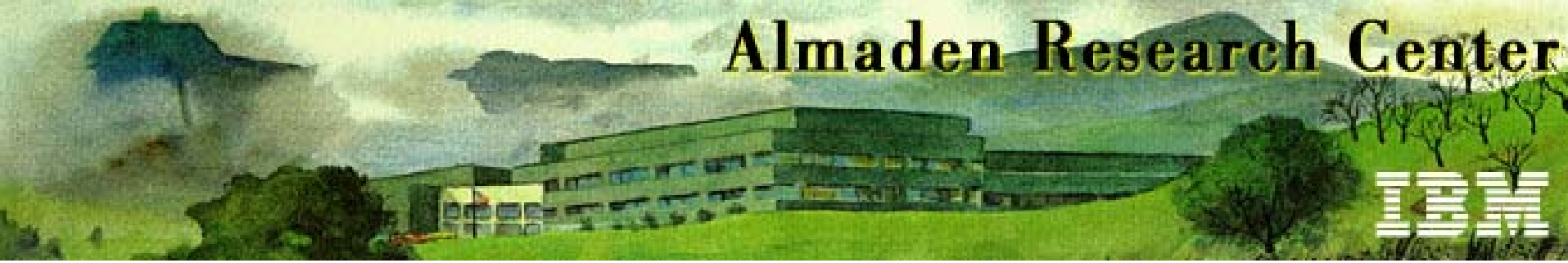

BIKM

BIKM is an interactive tool for the integrated analysis of text and data within a scalable data warehouse architecture. BIKM is an acronym for Business Intelligence and Knowledge Management. BIKM capabilities include:

- **Data and Document Warehousing**
  - Interactive OLAP interaction model for exploring dimensional data and document cubes including report tables, pie charts and trend graphs
  - Analysis across multiple data and document cubes through shared dimensions providing a means to integrate analysis across heterogeneous data sets such as financial or experimental data with related documents
  - Scalability to billions of data facts and documents
  - Ability to identify and extract an arbitrary subset of documents for deeper text analysis and taxonomy generation which can then be dynamically saved in the document warehouse as a new dimension allowing for integrated analysis between the text and data
- **Clustering and Taxonomy Generation**
  - Multiple clustering algorithms including K-Means, EM, query-based clustering, and structure from associated meta-data
  - Rich set of interactive manipulation capabilities including add category, delete category, subclass a category, merge categories, and drag-and-drop
  - Multiple metrics and measures including cohesion, distinctness and automatic category naming
- **Text Mining, Analysis & Visualization**
  - Various means of summarization and sorting used to quickly understand concepts in large amounts of text
  - Dictionary and taxonomy Co-occurrence and dependency analysis to find hidden relationships within the information
  - Textual explanation of events discovered in the OLAP data
  - Keyword searching
  - Interactive scatter plot visualization used to visual relationships
- **Platform, Storage, Formats & Languages**
  - Currently using a relational OLAP (ROLAP) model stored in DB2, using DB2 v8 the architecture can federate to many additional sources
  - The information in the warehouse can be sourced from many stores and formats.
  - Multiple languages, although majority of experience is in English
  - Extensive dictionary tools for the discovery and editing of stop words, include words, synonyms and stock-phrases
  - This technology is 100% Java, currently using Java 2 version 1.3.1

Application Scenarios

BIKM technology is used to derive business value from the integrated analysis of text and data. Example application scenarios include:

- Patent Mining
- Customer Relationship Management Insights
- Market Intelligence
- Competitive Intelligence
- Gap Analysis
- Knowledge Discovery

Licensing & Consulting

- Licensing terms available upon request
- Research scientists available for consulting
- Contacts:
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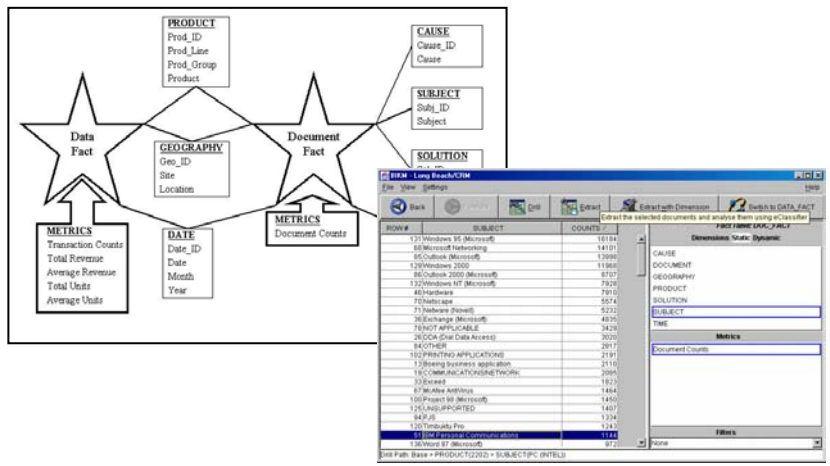

US Patents #6424971, #6397215, #6510431, additional patents pending