# **Pervasive Business Intelligence**



peer i

## **Collaborative BI** peer 1 Web **User Interface** Business Intelligence Reformulation framework Network Semantic mappings Multidimensional Engine peer n

## **OLAP Query Personalization**

Fostering the use of BI tools not only by business analysts but also by front-line employees.

Simplifying the OLAP analysis by providing a set of preferences that could reduce the query result to the most relevant information:

- **1. Association rules mining**: OLAP preferences are defined by exploiting a set of association rules mined from past user queries.
- **2. Graph-based approach**: OLAP preferences are defined by exploiting past user sessions and a graph representing a map of similar sessions.



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Users need to access information anywhere it can be found, by locating it through a semantic process and performing integration on the fly.

# **Business Intelligence Network (BIN)**

- An inter-business collaborative context where companies organize and coordinate themselves to share opportunities, respecting their own autonomy and heterogeneity.
- The users transparently access the business information distributed over the network.
- The framework provides a language for the definition of semantic mappings between the schemata of different BI systems.
- An ad-hoc algorithm allows the reformulation of a user query on the different BI systems.

