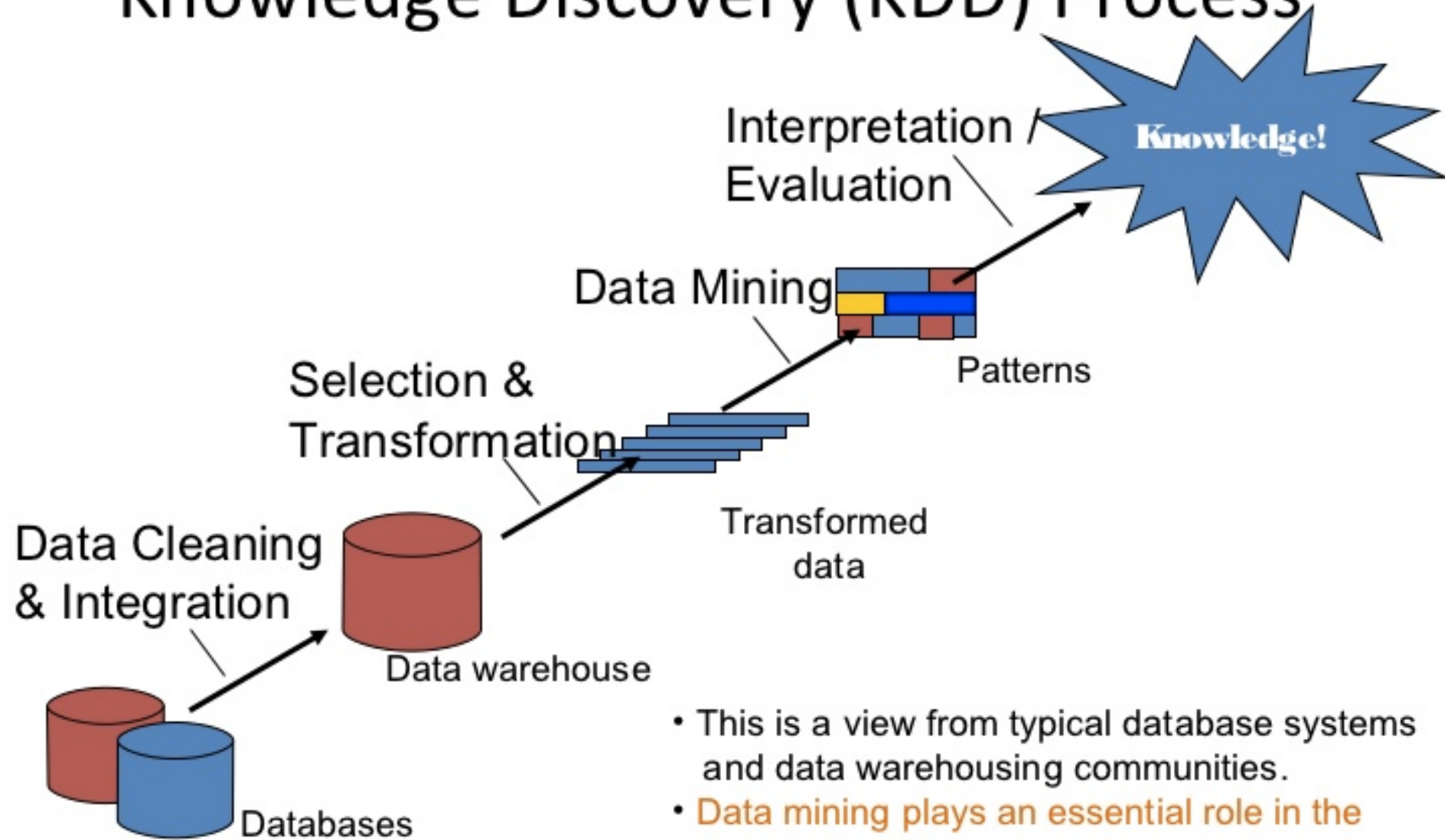# Data Mining

By Intellij System Solution Sdn. Bhd.

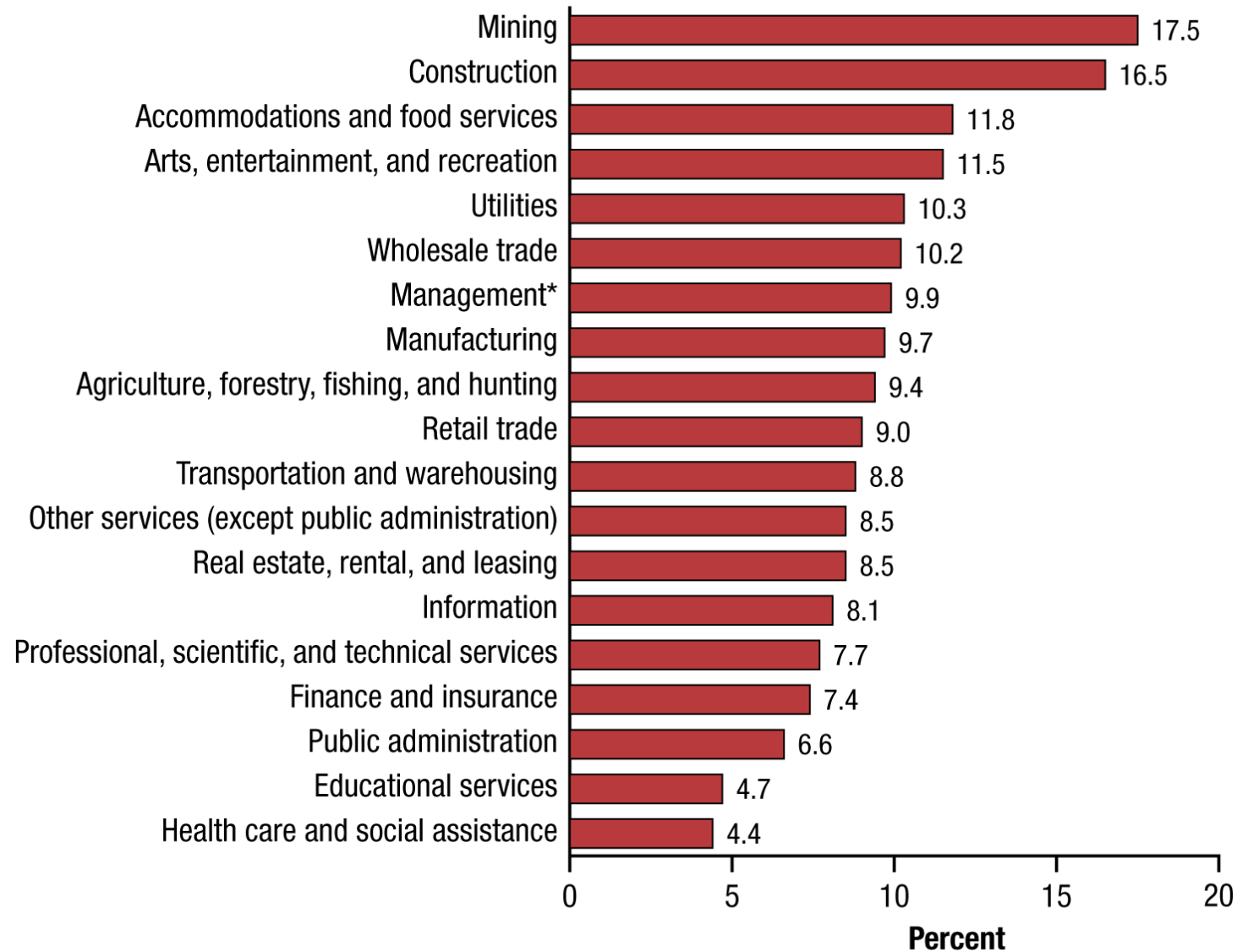# What is Data Mining?

Recognition of patterns.

Data mining is the process of sorting through large data sets to identify patterns and establish relationships to solve problems through data analysis. Data mining tools allow enterprises to predict future trends.

Knowledge Discovery (KDD) Process

Interpretation / Evaluation

Knowledge!

Data Mining

Patterns

Selection & Transformation

Transformed data
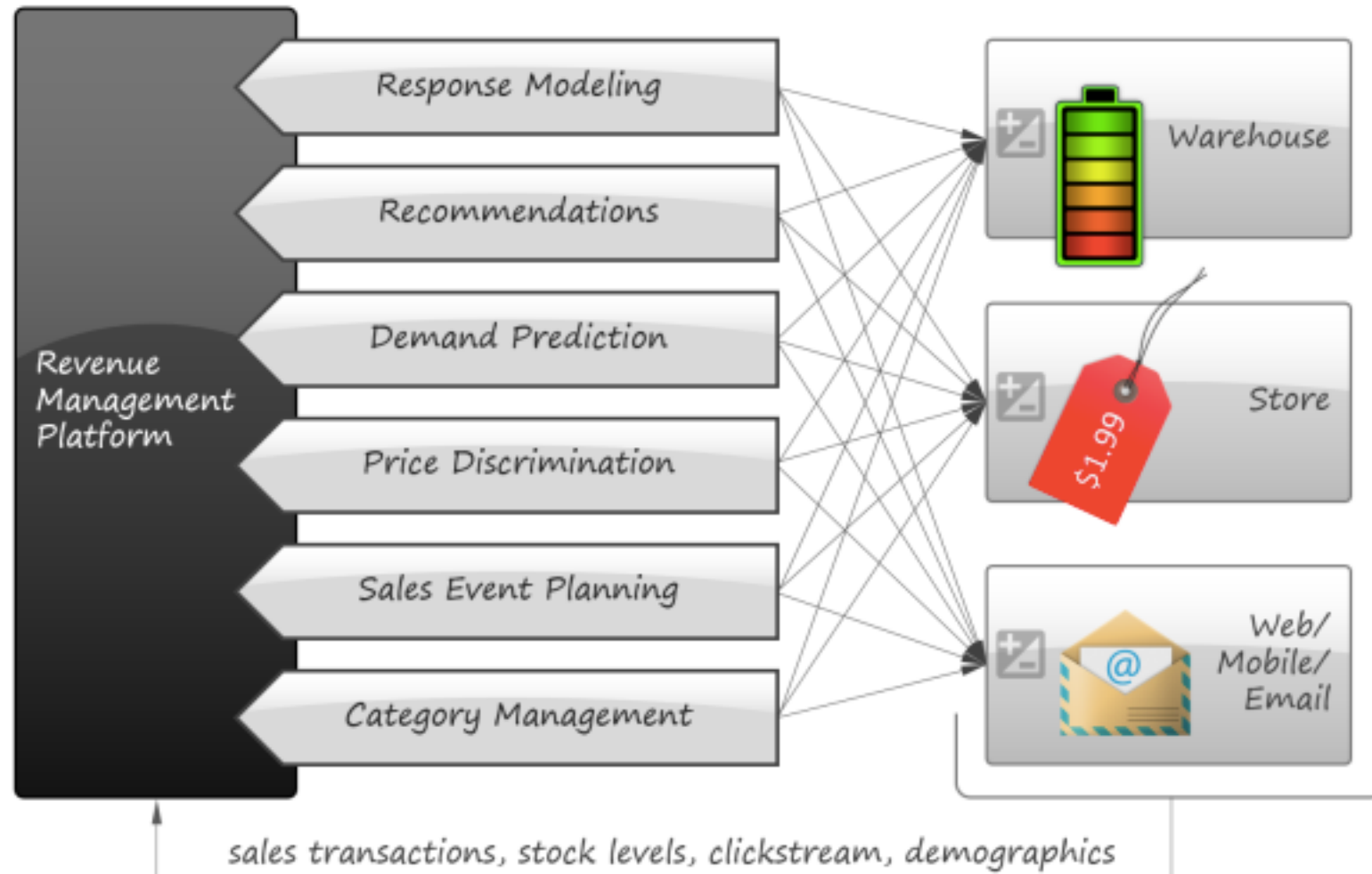
Data Cleaning & Integration

Data warehouse

Databases

- This is a view from typical database systems and data warehousing communities.
- Data mining plays an essential role in the knowledge discovery process.

Industries

Industry	Percent
Mining	17.5
Construction	16.5
Accommodations and food services	11.8
Arts, entertainment, and recreation	11.5
Utilities	10.3
Wholesale trade	10.2
Management*	9.9
Manufacturing	9.7
Agriculture, forestry, fishing, and hunting	9.4
Retail trade	9.0
Transportation and warehousing	8.8
Other services (except public administration)	8.5
Real estate, rental, and leasing	8.5
Information	8.1
Professional, scientific, and technical services	7.7
Finance and insurance	7.4
Public administration	6.6
Educational services	4.7
Health care and social assistance	4.4

Percent

Applications

Typical Data Mining System