The Use of ICT for Improving Knowledge Communication and Knowledge Management for Better Economic Development:

## **The Data Mining Techniques**

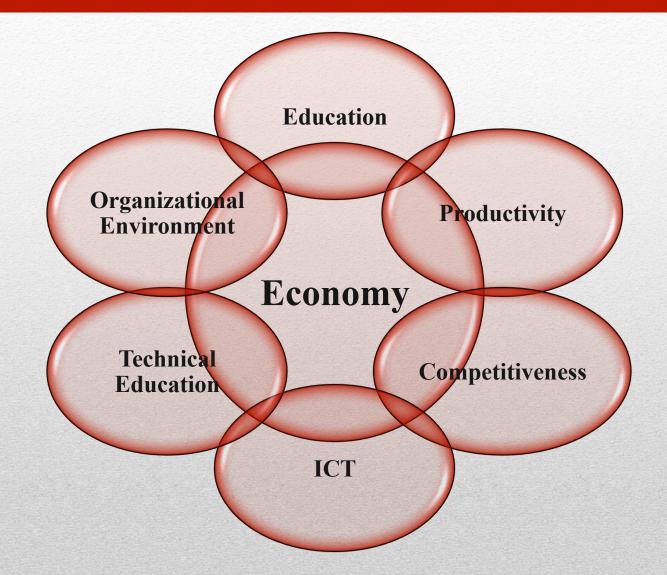
Dr. Mansoor Alaali Dean of Student Affairs Ahlia University





BAHRAIN INTERNATIONAL SME'S EMPOWERMENT CONFERENCE "EMPOWERMENT OF SME'S IN KNOWLEDGE BASED ECONOMY" 5TH - 6TH FEBRUARY 2014, CROWNE PLAZA, BAHRAIN

#### **Economy Activators, Agitators & Aggravators**



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# IT in Economic Development

#### **Economic & Social Development Era**

Information Technology

**Communication** Technology

### **Industrial Era**

Electricity





#### **Productivity Increase with Improved ICT Infrastructure**

#### Promotes better governance

Improves networking: access to new markets or services.

Improving information flows Reduce the cost of retrieving information





#### **ICT Infrastructure & Economy**

- Creates production facilities and stimulates economic activities.
- Reduces transaction costs and trade costs thus improving competitiveness.
- Provides employment opportunities to the poor.

• Plays a role in development goals.



## Knowledge

**Knowledge** is the ability of an actor to respond to a body of facts and principles accumulated over a period of time.

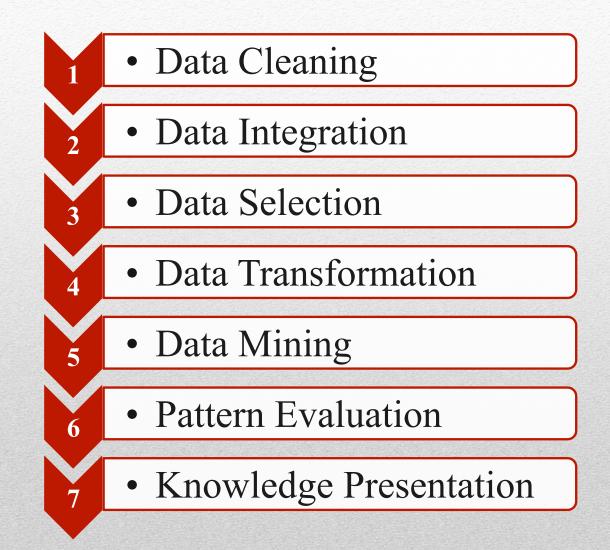


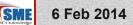
**Knowledge Management** is to harness, develop and direct the expertise of the organization and to apply it effectively to achieve strategic objectives.

**Knowledge Management** encourages learning and innovation as sources of competitive advantage



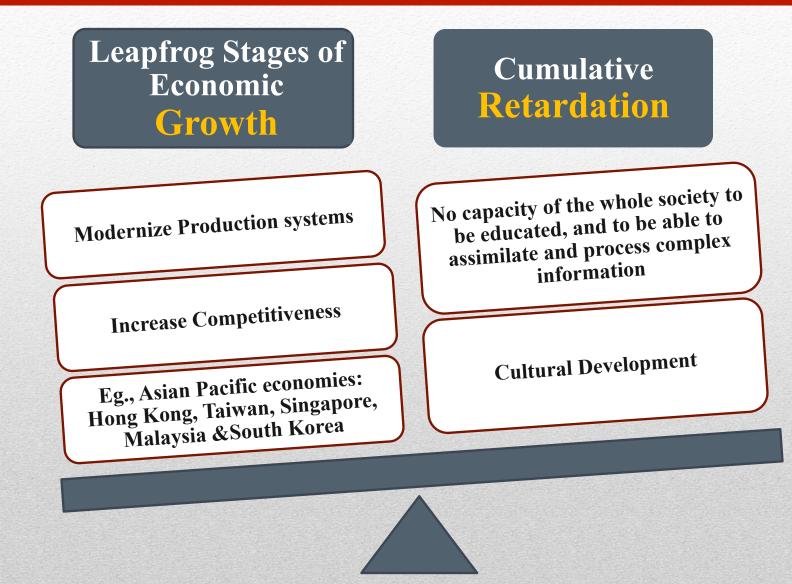
## **Knowledge Discovery Process**







# **ICT - Two-edged Sword**



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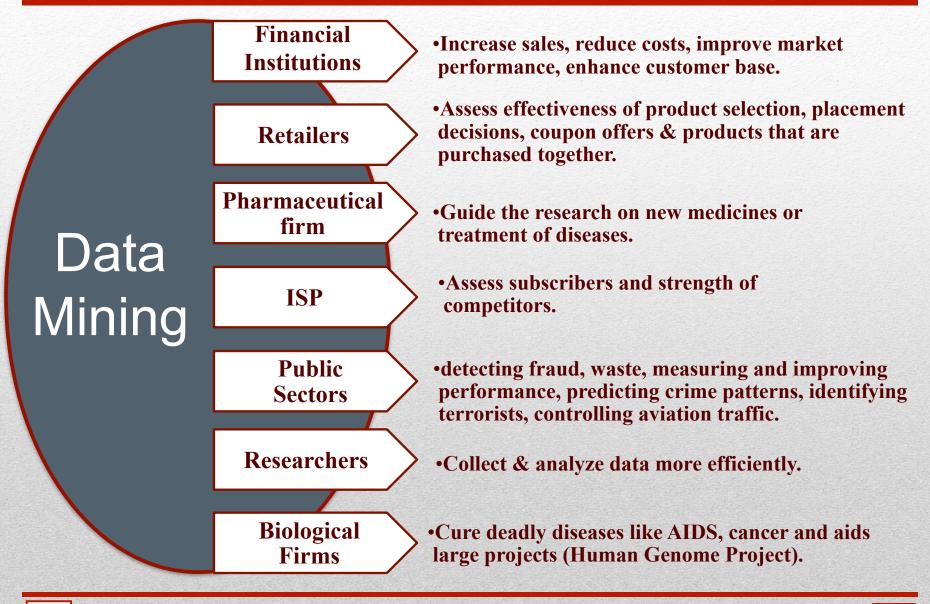
## **Data Mining**

The process of discovering interesting knowledge from large amounts of data.

- Patterns
- Associations
- Changes
- Anomalies
- Structures

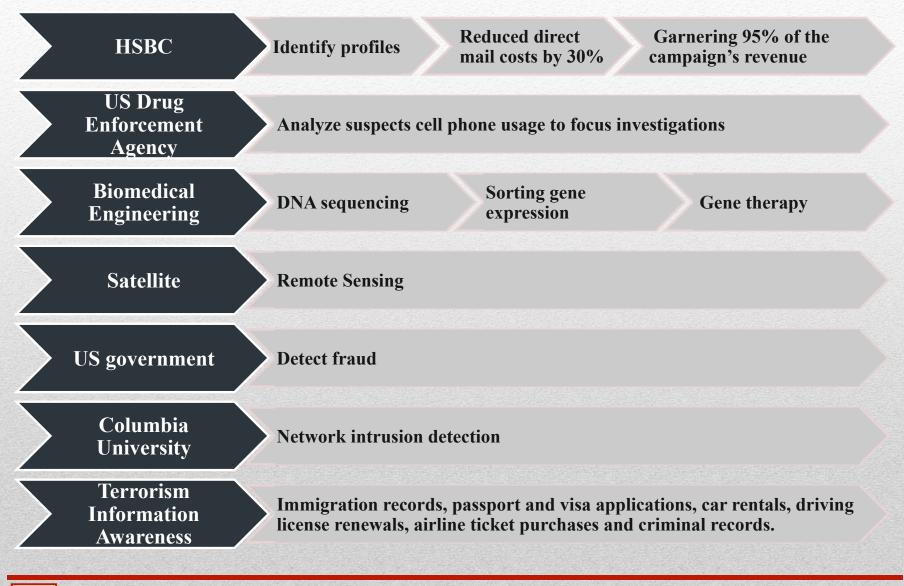


# **Data Mining Applications**



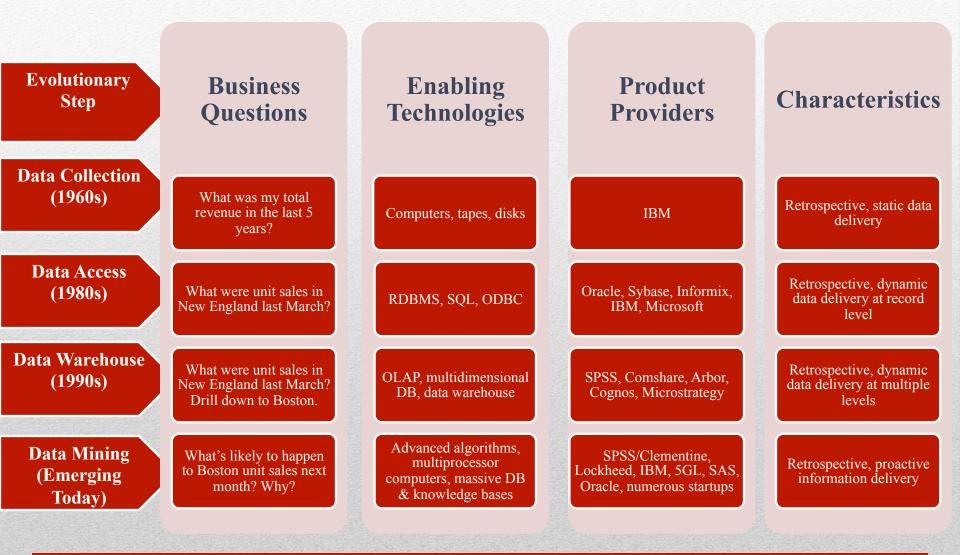
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#### **Success Stories of Data Mining Application**



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## **Steps in the Evolution of Data Mining**



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Tata Steel has been recognized as the overall (1st place) 2006 Indian Most Admired Knowledge Enterprises (MAKE) Winner compared to its 6th position for the last year (2005).

There were 8 knowledge performance dimensions which are the basis of the MAKE award and Tata Steel performed as follows:

- Creating an enterprise knowledge-driven culture (1st place)
- Developing knowledge workers through senior management leadership (2nd place)
- Delivering knowledge-based products/solutions (3rd place)
- Maximizing enterprise intellectual capital (3rd place)
- Creating an environment for collaborative knowledge sharing (1st place)
- Creating a learning organization (1st place)
- Delivering value based on customer knowledge (1st place)
- Transforming organizational knowledge into shareholder value (2nd place).



# Thank You

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