# Managing Business Knowledge

Managing and Using Information Systems: A Strategic Approach

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Data	Knowledge	Information
Simple observations of the world:  •Easily captured  •Easily structured  •Easily transferred  •Compact, quantifiable	Data with relevance and purpose:  •Requires unit of analysis  •Needs consensus on meaning  •Human mediation necessary  •Often garbled in transmission	Valuable information from the human mind: includes reflection, synthesis, context •Hard to capture electronically •Hard to structure •Often tacit •Hard to transfer •Highly personal to the source
More human contribution		
	Greater value	

Figure 12.1 The relationships between data, information, and knowledge.

### Knowledge

- Knowledge is a mix of contextual information, experiences, rules, and values.
- Richer, deeper, and more valuable.
- Consider knowing
  - What? based upon assembling information and eventually applying it.
  - How? applying knowledge leads to learning how to do something.
  - Why? casual knowledge of why something occurs.
  - (Figure 12.2 graphically illustrates these types of knowing).

### Tacit vs. Explicit Knowledge

- Tacit knowledge is personal, context-specific and hard to formalize and communicate
  - A [knowledge] developed and internalized by the knower over a long period of time . . . incorporates so much accrued and embedded learning that its rules may be impossible to separate from how an individual acts. 'knowing how'
- Explicit knowledge can be easily collected, organized and transferred through digital means.
  - A theory of the world, conceived of as a set of all of the conceptual entities describing classes of objects, relationships, processes, and behavioral norms. Often referred to as 'knowing that', or declarative knowledge.
- See Figure 12.3 for more examples.

#### **Tacit Knowledge**

- •Knowing how to identify the key issues necessary to solve a problem
- Applying similar experiences from past situations
- •Estimating work required based on intuition & experience
- Deciding on an appropriate course of action

#### **Explicit Knowledge**

- Procedures listed in a manual
- Books and articles
- News reports and financial statements
- Information left over from past projects

Figure 12.3 Examples of explicit and tacit knowledge

## From Managing Knowledge to BI

- Managing knowledge is not a new concept, but one reinvigorated by IT.
- KM is still an emerging discipline
- Business Intelligence (BI) term used to describe the set of technologies and processes used to describe business performance.
  - BI is a component of KM.
- Business Analytics use of quantitative and predictive models, and fact based mgmt to drive decisions.
- An organization's only sustainable competitive advantage lies with how its employees apply knowledge to business problems
- KM is not a magic bullet.

### Why Manage Knowledge?



- Information and knowledge have become the fields in which businesses compete.
- Several important factors include:
  - Sharing Best Practice
  - Globalization
  - Rapid Change
  - Downsizing
  - Managing Information and Communication Overload
  - Knowledge Embedded (inclure) in Products
  - Sustainable Competitive Advantage
  - Figure 12.4 summarizes these trends.

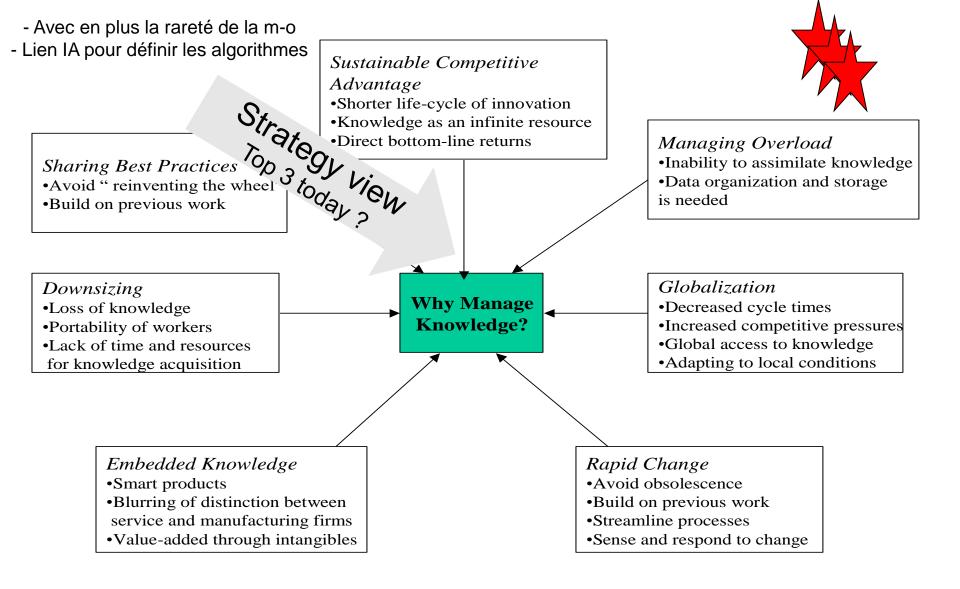


Figure 12.4 Reasons for Managing Knowledge. ©IBM Global Services

### **Sharing Best Practices**

- Sharing best practices means leveraging the knowledge gained by a subset of the organization.
- Increasingly important in organizations who depend on applying their expertise such as accounting, consulting and training firms.
- KM systems capture best practices to disseminate their experience within the firm.
- Problems often arise from employees who may be reluctant to share their knowledge (managers must encourage and reward open sharing).

#### Globalization

- Historically three factors, land, labor and capital were the key to economic success
- Knowledge has become a fourth factor.
- Knowledge-based businesses can grow without traditional land, labor, and capital requirements.
- Key competitive factor will be how well an organization acquires and applies knowledge.

#### Other factors

- Rapid change: firms must be nimble (agile) and adaptive to compete
- Downsizing: sometimes the wrong people get fired when creating a leaner organization
- Managing Info and Comm Overload: data must be categorized in some manner if it is to be useful rather than overwhelming
- Knowledge Embedded (intégré) in Products: the intangibles that add the most value to goods and services are becoming increasingly knowledge-based
- Sustainable Competitive Advantage: KM is the way to do this. Shorter innovation life cycles keep companies ahead of the competition.

### Summary

- KM is related to information systems in three ways: IT makes up its infrastructure, KM makes up the data infrastructure for many IS and apps, and KM is often referred to as an app of IS.
- Data, information, and knowledge should not be seen as interchangeable.
- The 2 kinds of knowledge are tacit and explicit.
- Manage knowledge carefully, there are many valid and of course legal reasons.
- KM projects can be measured using projectbased measures.