# INFS2010: PEOPLE, INFORMATION AND KNOWLEDGE

FINAL EXAM NOTES

## WEEK 1: INTRODUCTION TO KNOWLEDGE MANAGEMENT

#### **Understanding Knowledge**

- The condition of apprehending truth or fact through reasoning
- Acquaintance with or **understanding** of a science, art or technique
- The fact or condition of having information or of being learned
- **Expertise**, and **skills** acquired through experience or education

### The Digital/Knowledge Economy

- Technological developments facilitate connectivity and collaboration across geographical, cultural and business contexts
- Enhance flexibility, innovation and competitiveness
- Knowledge is the main commodity and basis for services

Drivers	<b>Implications</b>
<ul> <li>Ubiquity of computing e.g. networked mobile devices, smartphones, loT</li> <li>Advancement of technology e.g. computing power, storage, transmission capacity</li> <li>Growth in information production</li> </ul>	<ul> <li>Knowledge service jobs more common</li> <li>Work relies on and produces information or knowledge</li> <li>Knowledge resources more important than material resources</li> <li>Competitive advantage sourced from knowledge-based services not material goods</li> </ul>

#### **Knowledge Management**

- Deals with the cultivation, sharing and utilisation of organisational expertise, skills and experience
- Not purely technological as, knowledge is not easily separable from the individuals who possess it
- Main challenges:
  - o How to get people to share their knowledge?
  - o Can tacit knowledge be readily shared?

#### Perspectives on Knowledge

eispectives of knowledge		
As objective truth	As involvement	
<ul> <li>Mind and body are ontologically distinct: body is material; mind is a non-material entity</li> </ul>	- Being-in-the-word: we are always already in- the-world	
<ul> <li>Body is perceived through senses, which are unreliable</li> </ul>	<ul> <li>True knowledge comes from involvement: using and acting in the world, not reflecting on it</li> </ul>	
The only thing that cannot be doubted is thought: "I think therefore I am"	<ul> <li>"Equipment whole": things become meaningful only in relation to other things</li> </ul>	
<ul> <li>Gaining knowledge through separation of object from subject; rational reasoning; removal of emotions or subjective perceptions</li> </ul>	<ul> <li>"Involvement whole": actions and events meaningful only in relation to other actions and events</li> </ul>	

**Tacit Knowledge:** the notion that knowledge is deeply personal, entrenched in embedded skills where knowing consists of:

- subsidiary particulars
- focal target
- a personal linking the two

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**Evolution of Knowledge** 

Novice	Recognition of objectively defined and context free e.g. shift to 2 <sup>nd</sup> gear		
	elements; application of context free rules to those elements	30kph	
Advanced	Based on experience in concrete situations, starting to	e.g. listening to sound	
Beginner	recognise situational elements of a task	of engine on a hill	
Competence	We execute task with a goal in mind. We develop	e.g. when in a rush we	
	hierarchical procedure of decision-making.	ignore safety, courtesy	
Proficiency	Based on previous experience, the environment is	e.g. knowing you are	
	recognised holistically and intuitively, not by analytically driving too fast in the		
	combining elements when analytic choice of action is taken	rain	
Expertise	Deep involvement in a situation where one grasps the	e.g. expert drivers act	
	environment and acts holistically and intuitively. There is no	on previous experience	
	process of conscious deliberation or decision making.	subconsciously	

Data, Information, Knowledge

Data	Context free sequence of items or events.		
Information	Context based sequence or items or events.		
Knowledge	Context based sequence or items or events.  Involves judgment of significance from a particular context and is informed by values and believes and is action-oriented.  - Involves the capacity to exercise judgment and draw distinctions between thing - Expressed through language  - Increasing knowledge leads to more refined distinctions  - In a social context: distinctions in the community using our body of knowledge and through a socialisation process		

**Organisational Knowledge:** behavior in organisations is based on abstract principles mean to achieve goals, these principles guide action within organisations

- Organisational structure
- Organisational roles
- Business processes

## WEEK 2: CREATING KNOWLEDGE IN ORGANISATIONS

**Knowledge Creation:** organisations need to generate new knowledge and information to redefine problems and solutions, so they can innovate and prosper in competitive markets.

- Organisations are **information-processing machines** where people are the decision-makers
- Organisations are arenas for **sensemaking** where people make sense rather than make decisions and knowledge is subjective and contextual

Types of Knowledge

Explicit (know-what)	<b>Tacit</b> (know-how)
- Objective, universal facts (information)	<ul> <li>Subjective, individual insight or capability</li> </ul>
<ul> <li>Gained through rational reasoning</li> </ul>	(cognitive or physical)
<ul> <li>Quantifiable, codifiable, and transmittable</li> </ul>	- Gained through indwelling and experience
in formal language	- Difficult to communicate

**Knowledge Creation** 

Socialisation	Tacit to Tacit	Sharing experiences and joint activities to create a new mental
		model and/or skills. Not structured.
Externalisation	Tacit to Explicit	Using metaphors, analogies, models to articulate tacit knowledge
		e.g. E=mc2. Promotes interaction discussion, collective reflection.
Combination	Explicit to Explicit	Combination and reconfiguration of existing information through sorting, segmentation or integration of explicit knowledge. Provides a
		new perspective.