Lecture 02:

Definitions of Knowledge and Concepts of Organisational Memory











(2) Knowledge and Types of Knowledge

Defining "Knowledge"

"Knowledge comprises all cognitive expectancies – observations that have been meaningfully organized, accumulated and embedded in a context through experience, communication, or inference – that an individual or organizational **actor** uses to interpret situations and to generate activities, behavior and solutions no matter whether these expectancies are rational or used intentionally."

"A set of data and information (when seen from an Information Technology point of view), and a combination of, for example know-how, experience, emotion, believes, values, ideas, intuition, curiosity, motivation, learning styles, attitude, ability to trust, ability to deal with complexity, ability to synthesize, openness, networking skills, communication skills, attitude to risk and entrepreneurial spirit to result in a valuable asset which can be used to improve the capacity to act and support decision making." (CEN 2004)

















No common understanding about the essence of knowledge!

Two antithetic conceptions about the essence of knowledge

- Knowledge as something given in actuality
 - Can be communicated and multiplied
 - Is needed for task fulfillement, decision making or problem solving
- Knowledge as result of social construction processes or social interactions
 - Is changed by use and transmission
 - Emerges from task fulfillement and therefor is volatile or identical with the process



(3) Relationship betweenData, Information andKnowledge





Data vs. Information

Data

Raw, un-summarized and unanalyzed facts, electronically stored and representing objects, events etc. within reality

Data and Information often are confused or used synonymously - BUT

Information is different from data

- data with meaning (semantics)
- and especially in business context: relevant for decision making or carrying out an operation

















(4) Intellectual Capital, Knowledge Assets and Competence

Intellectual capital

Definition

Intellectual capital is defined as knowledge that can be converted into value

Intellectual capital consists of

- Human capital the tacit knowledge embedded in the minds of the employees;
- Relational capital the knowledge embedded in the relationships established with the outside environment.
- Structural capital the organizational routines of the business;

Source: MOCURIS

Intellectual Capital

Intellectual Capital reflects the expectations by investors about economic utilisation of capabilities in the future. Financial and physical assets are also called tangible assets, while the rest (among them property rights, reputation and image) are called intangible assets.













(5) From individual to organisational knowledge: Organisational Memory and TMS

Organisational Memory as Key Concept

Several functions of "memory" are inherently present in every organization without software-technical support of any kind (e.g. in the form of search- and recall processes as carried out by telephone surveys or brainstorming during meetings). Typical demands on such a "memory" are:

- Haven't we already had a similar experience?
- How have we done that up to now?
- Can anyone remember how...?
- Does anyone have experience in this area?
- How can the corporation's experiences be used in the development of new projects?
- Which product might manifest similarities to the new design?
- Which problems arose while the project was being carried out?
- How can the most important competitor's potential be estimated?
- etc.

Do "firms" really have knowledge?

- An important question! Herbert Simon, Robert Grant suggested otherwise (reductionist perspective): "All learning takes place inside individual human heads; an organization learns in only two ways: (a) by the learning of its members, or (b) may ingesting new members who have knowledge that the organization didn't previously have."
- Meaning, "firms as such", not individuals.
- Meaning, "beyond the easy yes answer from the fact that a firm may be a legal person, hence an owner of patents, software, etc."
- A strong yes answer is based on the simple point that firms are creators of stable context for knowledge processes (store, extend, advance.)

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Individual knowledge vs. Collective (organisational) knowledge

Arguments supporting the existence of organisational knowledge

- Group knowledge is more than the sum of the group member's knowledge
- Without knowledge that goes beyond personal knowledge (= organisational knowledge) no bigger firm will succeed

Different kinds of organisational knowledge

- 1. Organisational / Corporate knowledge
- 2. Collective knowledge
- 3. Systemic / transactive knowledge



Forms of collective resp. organisational knowledge

Form	Occurrence	Example
abstract/soft	structure, culture, roles	corporate culture informal power structure
Semi-abstract	tales, myths	customer reports, firms image, anecdotes
Semi-concrete	technical know-how, business rules, standardised procedures	business processes problem documentation
concrete/hard	facts, data	technical norms, workflow- model, sales data





- The concept provides insight into organizational life (as a metaphor)
- Embedded in other management theories
- Is relevant to management practices and can assist managers in solving issues related to retention of knowledge in the organization

























TMS can be defined as shared division of cognitive labor with respect to learning, remembering, and communicating information

 transactive <u>processes</u> affect individual and collective knowledge as well as group performance

Transactive memory means the perception of others knowledge and permanent communication to locate and allocate information. Without a group-level understanding of who knows what, dyadic reciprocal exchanges can lead to redundant information exchange and impede the performance.









