Lecture 05:

Knowledge Management Systems and KM Tools

Learning objectives

Learners should

- understand the role of information technology in the context of knowledge management
- be able to give an overview of technologies and tools available and used for knowledge management
- be familiar with classification schemas for KM tools and be able to explain the difference between technologies, tools and KM systems
- know the function of an ideal knowledge management system
- understand the role of architectural concepts for the design of knowledge management systems and also the contribution of knowledge engineering
- be able to describe practical examples of KM tools and know which KM activities can be supported by which tools



- Role of Information Technology in KM
- Classification of KM Tools and Technologies
- Knowledge Management Systems
- Knowledge Engineering
- Examples
 - Yellow Pages
 - Mind Mapping Tools
- Summary Myth on Knowledge Management

(1) Role of Information Technology in KM

























Groupware systems	Content & storage systems	Artificial intelligence systems	Executive information systems	Other systems
 Communi- cation systems Cooperation systems Coordination systems 	 Document management systems Content management systems Portal systems Learning management systems 	 Expert systems Agent systems Text mining systems 	 Data warehouse OLAP systems Data mining systems 	 Information support and Search services Visualization systems























(3) Knowledge Management systems (KMS)

Knowledge Management System Definition

"A knowledge management system (KMS) is an ICT system in the sense of an application system or an ICT platform that combines and integrates functions for the contextualized handling of both, explicit and tacit knowledge, throughout the organization or that part of the organization that is targeted by a KM initiative. A KMS supports networks of knowledge workers in the creation, construction, identification, capturing, acquisition, selection, valuation, organization, linking, structuring, formalization, visualization, distribution, retention, maintenance, refinement, evolution, accessing, search and last but not least the application of knowledge the aim of which is to support the dynamics of organizational learning and organizational effectiveness."

(Maier 2002)



















Contrasting Knowledge Management and Knowledge Engineering

Knowledge Management	Knowledge Engineering
Information Systems and Management	Computer Science
Development of organizational software and technical systems for enabling knowledge processes in organizations	Development of Artificial Intelligence or Knowledge-based Systems
Whole spectrum from Tacit to Explicit Knowledge	Problem Solving, mainly Explicit Knowledge
	(source MOCURIS

(5) Examples

- Yellow Pages

- Mind Mapping Tools







Example	7 Pages Continental AG, Hannover	
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C Inside	: Hone : Help : Feedback	
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Expert knowledge	Dvision: Dvision Ti/Company: CAG Departic of Center: IT TIRE Business Unit Location: Hannover (VVA) (Room / 2802)	
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	Expert Knowledge © Knowledge Management emeterKnowledge Management @ Continental". PL Vellow Pages Experts INSDE support IM-Tools on Lobus Queskalow. Insertional back apound of Knowledge Management Queskalow. Insertional back apound of Knowledge	
	Value Based Management Development and implementation of VRM method in projects and turiness units, e.g., PLMP, IR&D projects IT, HR, Theoretical knowledge of VRM method. UMP	(Source: altavier.de – Yellow Pages at Continental AG, Hannover)











Mind mapping tools

Examples for free tools:

- Freemind
- Xmind
- Bubbl.US
- MindMeister
- Map Myself (aka Mapul)
- Wisemapping

For more tools visit:

http://en.wikipedia.org/wiki/List_of_concept-_and_mind-mapping_software

















