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Knowledge Mapping : A Practical Overview by Denham Grey March, 1999

What exactly is Knowledge Mapping?

It's an ongoing quest within an organization (including its supply and customer chain) to help discover the location, ownership, value and use of knowledge artifacts, to learn the roles and expertise of people, to identify constraints to the flow of knowledge, and to highlight opportunities to leverage existing knowledge.

Knowledge mapping is a important practice consisting of survey, audit, and synthesis. It aims to track the acquisition and loss of information and knowledge. It explores personal and group competencies and proficiencies. It illustrates or "maps" how knowledge flows throughout an organization. Knowledge mapping helps an organization to appreciate how the loss of staff influences intellectual capital, to assist with the selection of teams, and to match technology to knowledge needs and processes.

What are the key principles of knowledge mapping?

Understand that knowledge is transient.
Explain the sanction, establish boundaries, and respect personal disclosures
Recognize and locate knowledge in a wide variety of forms: tacit and explicit, formal and
informal, codified and personalized, internal and external, short life cycle and permanent.
Locate knowledge in processes, relationships, policies, people, documents, conversations, links
and context, suppliers, competitors and customers
Be aware of organizational level and aggregation, cultural issues and reward systems, timeliness,
sharing and value, legal process and protection (patents, trade secrets, trade marks, NDAs)

What is a knowledge map?

The knowledge map is a navigation aid to explicit (codified) information and tacit knowledge, showing the importance and the relationships between knowledge stores and dynamics. The knowledge map, an outcome of synthesis, portrays the sources, flows, constraints and sinks (losses or stopping points) of knowledge within an organization.

Why should I map the knowledge in my organization?

Encourage re-use and prevent re-invention, saving search time and acquisition costs
Highlight islands of expertise and suggest ways to build bridges to increase knowledge sharing
Discover effective and emergent communities of practice where learning is happening

12/06/12	Knowledge Mapping
	Provide a baseline for measuring progress with KM projects
	Reduce the burden on experts by helping staff to find critical information quickly
	Improve customer response, decision making and problem solving by providing access to
	applicable information
	Highlight opportunities for learning and leverage of knowledge
	Provide an inventory and evaluation of intellectual and intangible assets
	Research for designing a knowledge architecture or a corporate memory
What	do I need to map?
	Location, ownership, validity, timeliness, domain, sensitivity, access rights, storage medium, use
	statistics, medium and channels used
	Documents, files, systems, policies, directories, competencies, relationships, authorities
Ī	Boundary objects, knowledge artifacts, stories, heuristics, patterns, events, practices, activities
Ī	Explicit and tacit knowledge which is closely linked to strategic drivers, core competencies and
	market intelligence.
Whor	re should I be looking?
	feeds, contact addresses, network transactions, helpdesks, patent registers, asset and HR
	ases, warrantee claims, LAN directory structures, library, record archives, process descriptions,
	profiles, meta-data directory.
How	do I collect the information?
Ц	Conduct interviews and ask targeted questions
Ц	Observe the work in progress
Ц	Track the boundary objects
Ц	Obtain the network traffic logs
Ц	Explore the common and individual file structures
	Gather policy documents, organizational charts, process documentation
	Concentrate on formal an informal gatherings, communication and activities
	Move across multiple levels (individual, group, department, organization)
	Gather from internal external sources
What	do I do with all this information?
	Compile yellow pages and register of boundary objects and templates
	Record promising heuristics and best practices
	Construct a proto ontology
	Explore re-use opportunities
	Look for learning points, natural knowledge stewards, gatekeepers, isolated islands, and narrow
	communication channels
	Map, flows, sequences, and dependencies
	Check for network patterns, critical nodes, high traffic, and highly valuable information
	Write your report providing feedback on the objectives and supporting data in the appendices
	(interview transcripts, boundary object register, file structure, concept maps, ontology,
	knowledge maps)
	Consider your next move. Knowledge mapping is often conducted in phases: overview to
	uncover opportunities, details to drill down to specifics or to cover different department,
	locations of functional groups.
Key	questions
	What type of knowledge is needed to do your work?
	Who provides it, where do you get it, how does it arrive?
	What do you do, how do you add value, what are the critical issues?

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