

Project Controls Expo – 22nd November 2018 Melbourne Cricket Ground

Integrating Knowledge Management with Project Management for better performance

Vittal Anantatmula





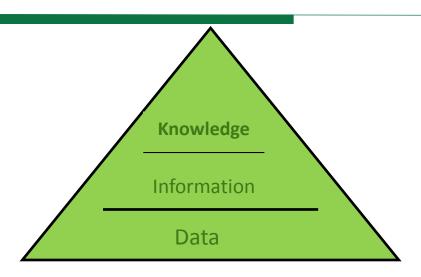
trends

- present economy distinguishes itself from earlier ones
 - the size of knowledge base,
 - rapid pace of innovation, and
 - the technological advances
- challenges of these new trends
 - outsourcing
 - virtual teams

issues

- if a long-term employee leaves the organization, will the organization miss him? and his experience?
- does your manager know what you know?
- how is innovation accomplished in your workplace?
- how often do you share your knowledge with your colleagues?
- how much do you know what your colleagues know?

knowledge hierarchy



data

facts, specifically numerical facts collected together for reference or information

information

communication of knowledge or news of some fact, subject, or event; when used by someone to solve a problem, information in turn becomes personal knowledge (tacit knowledge)



knowledge

- deriving knowledge from information requires human judgment, and is based on context and experience.
 - therefore, knowledge is associated with people.
- ironically, knowledge will remain dormant, and not very useful, until it is reflected in action.
- knowledge is the only resource that increases with the use.

knowledge and learning

- learning is associated with acquiring knowledge, which is reflected through a change in mindset.
- learning is a constant process of reorganizing and interpreting experience
- individual learning is characterized by thinking, personal experience, needs and motives, interests and values, level of difficulty of the task at hand, and manifestation of behavioral changes.

organizational learning

Individual Learning

Changes in individual behavior through thinking, personal experience, needs and motives, trial and error, and reflection

Bridge

Communication
Transparency
Integration
Transformation

Organizational Learning

Changes in collective knowledge, value base, and behavior through collective reflection, which reflects through improved decision making



project and knowledge

- project is a new time-bound effort that has a definite beginning, definite ending with several related and/or interdependent tasks to create a unique product or service
 - project is usually associated with uncertainties and unknowns
- knowledge is derived from thinking and can be understood as insights derived from information and experience, which remain dormant until it is reflected through action

PM and KM

- project management
 - concerned with completing a project on time, within budget, and according to the project specifications while satisfying both the customer and project team expectations
 - utilize resources effectively and efficiently
- knowledge management
 - the primary focus is to utilize information technology and tools, business processes, best practices, and culture to develop and share knowledge within an organization and to connect those who possess knowledge to those who need it.
 - capture and leverage knowledge



project and knowledge

project

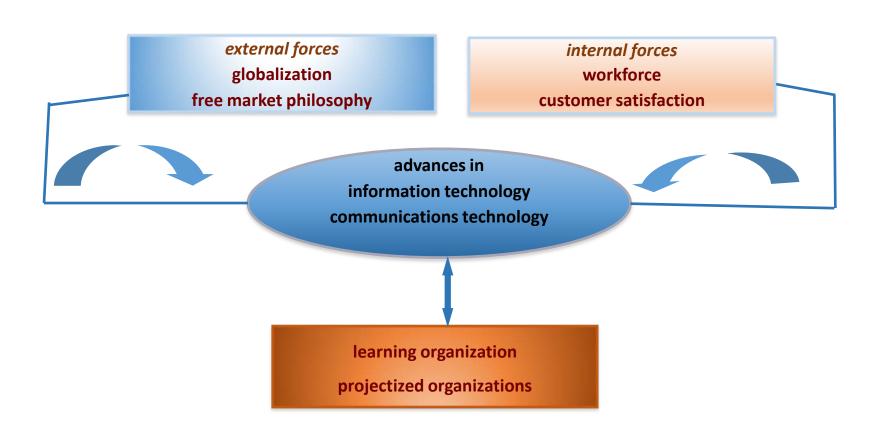
- performance focus
- new by definition
- adopting new is associated with change in behavior
- planning and control

knowledge

- innovation focus
- learning something new
- learning new is associated with change in behavior
- systems thinking



knowledge economy



outcomes of KM

- results in improving:
 - communication
 - collaboration
 - productivity
 - employee skills
- ultimately, KM leads to:
 - better decision making
 - better customer satisfaction
- it is not easy to tie KM with business results directly



difficulty with projects

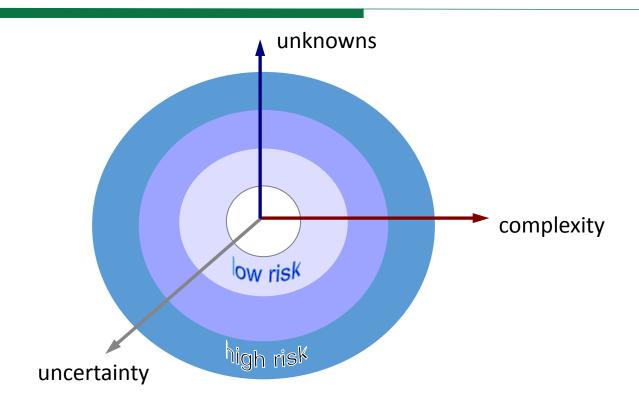
- unique
- defined start and end
- transient teams
- little precedence
- unknowns

- changes in practices
- risky
- complex
- uncertain
- revolutionary improvements

- moreover, project manager often/usually has
 - little control in team selection of the project
 - no formal authority over people assigned to the project team
 - team members are assigned to multiple projects



project risk drives the need

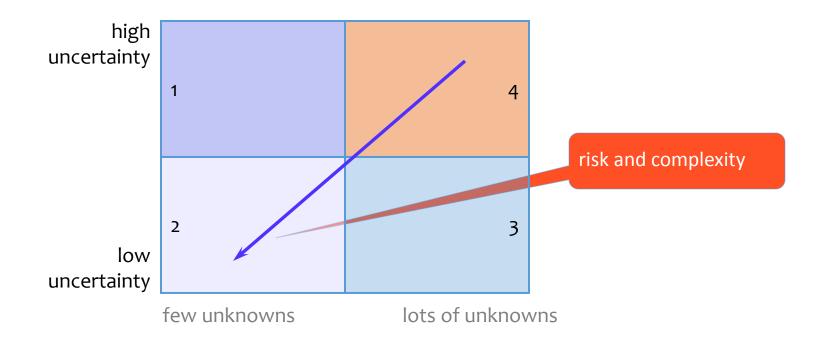


as you move away from the center, the need for managing knowledge becomes more important



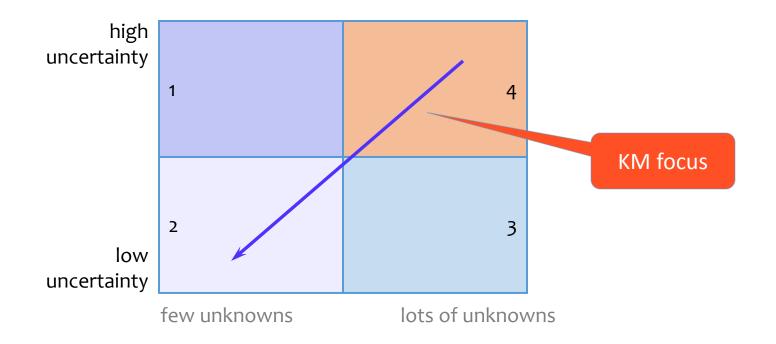
influencers of KM

- 2 project processes and outcomes are certain
- 4 uncertainties can impact project processes and outcomes

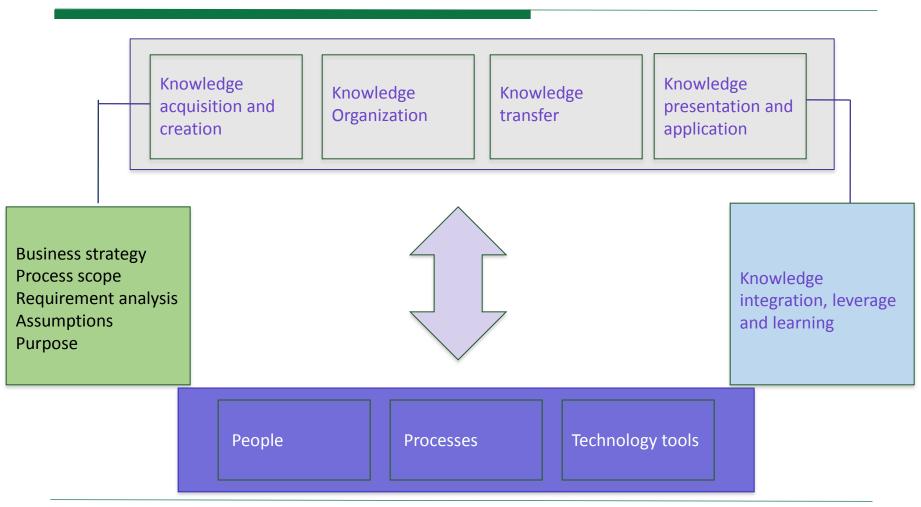


influencers of KM

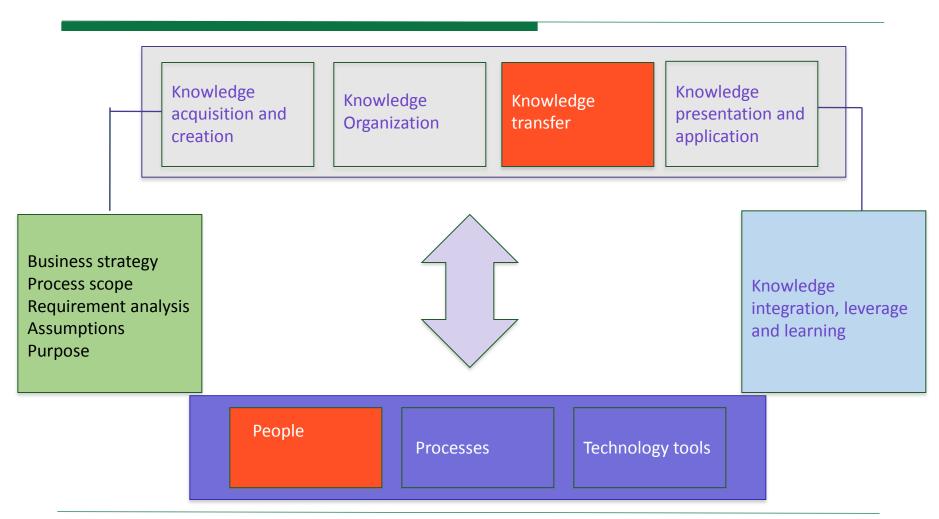
- 2 predictable, low innovation KM need is low
- 4 unpredictable, high innovation KM need is high



managing knowledge



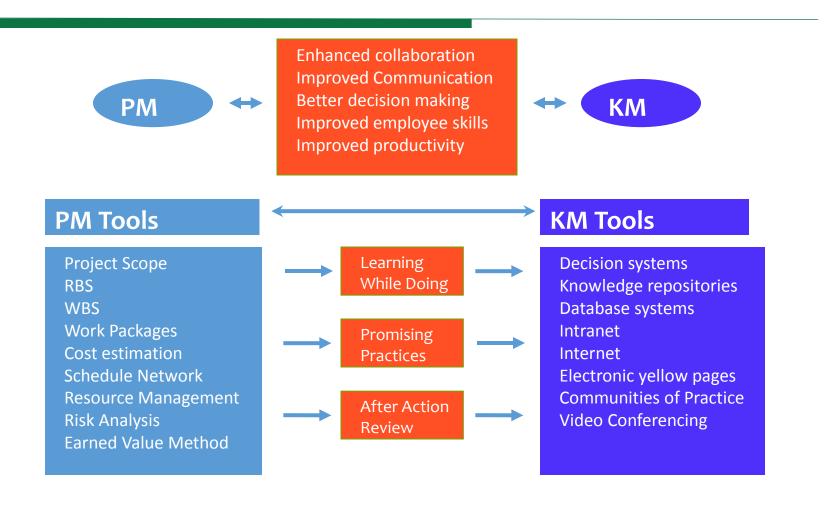
managing knowledge



integrating PM and KM

- applying of KM principles and processes designed to make relevant knowledge available to the project team
- creating and integrating knowledge, minimizing knowledge losses, and filling knowledge gaps throughout the project duration
- capturing lessons learned throughout the project
- applying lessons learned from the past projects
 - lessons learned should cover both successes and failures

integration of tools



tools are not enough

- people can conversion from information to knowledge
 - humans are slow as compared to IT systems
- it is not the tools in use or the work being performed that is the largest contributor to project failure;
 - rather it is project leadership that fails and is manifested in the project work

team process



learning process

Learning While Doing

What was supposed to complete? What actually happened? What is the reason for deviation? What can we do about it?

Learning Before Doing

Seek peer assist groups
Codify and adopt good practices
Employ collective wisdom
Use promising practices

Project Learning Loop

Communities of Practice

Identify lessons learned
Develop promising practices
Make tacit knowledge explicit

Learning After Doing

Share success and failure Identify key insights and learning Share experiences

Adopted from BP



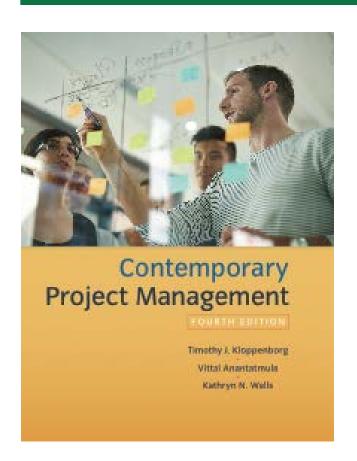
benefits

- more knowledge minimized risk
- realistic
 - project plan
 - project estimation
 - project schedule
- less need for contingencies
- efficient project integration

benefits

- transition of project elements into processes
- better conflict resolution
- better team performance
 - improved morale
 - improved job satisfaction
- better rationale for terminating runaway projects

never stop dreaming...



All our dreams can come true, if we have the courage to pursue them

Walt Disney

questions?



thank you

