

KMIRC 知識管理及創新研究中心

Knowledge Management and Innovation Research Centre

Knowledge Audit Methodology for Unstructured Business Processes -Design Based Research Cases in Hong Kong Enterprises

> Jessica Yip 11th October, 2012 KMAP 2012, Shanghai, China

Performing knowledge audit at the beginning KM journeys in unstructured processes?





How to elicit Implicit knowledge? (Experienced Workers in suburb area)

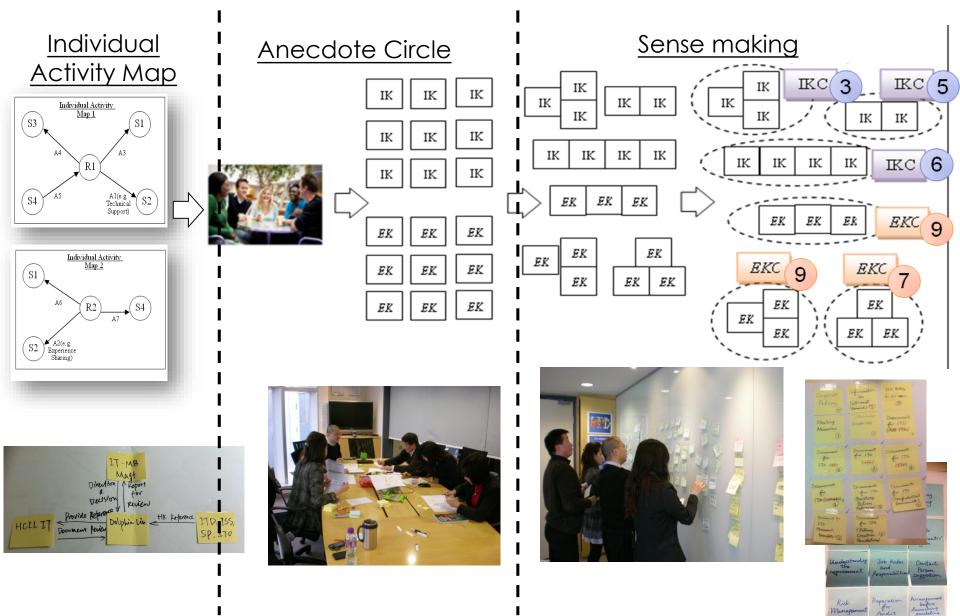
Knowledge Representation

Mental Models

Everyones' work is the second dynamic. How the dynamicity could be represented? (Sales Dept.) The team (not the auditor) know the best! (Govt. emergency unit)

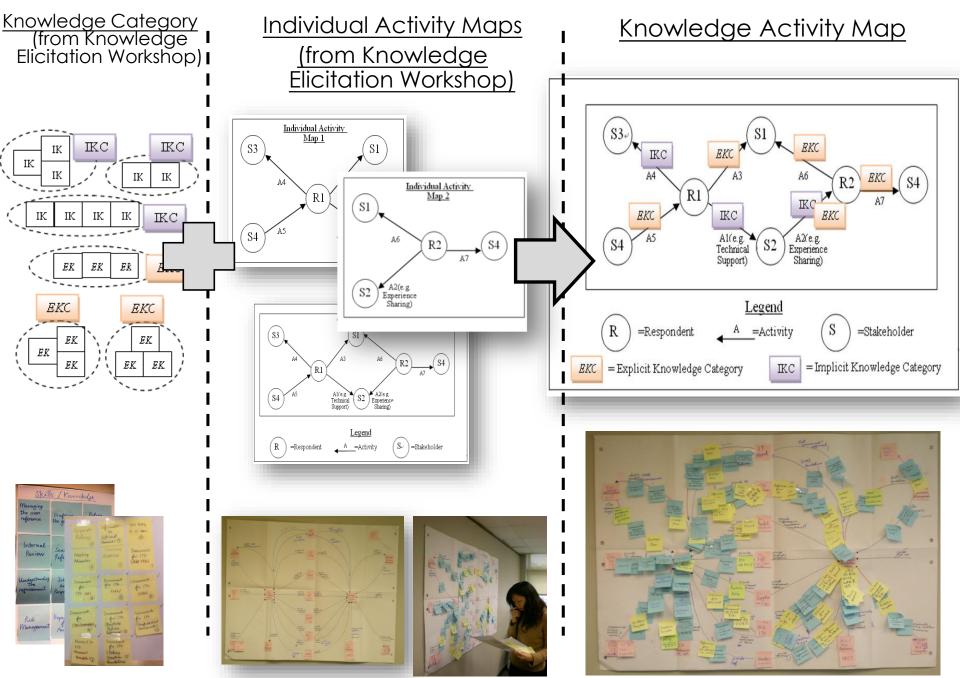
New Knowledge Audit Tool

1. Knowledge Elicitation



Manaper

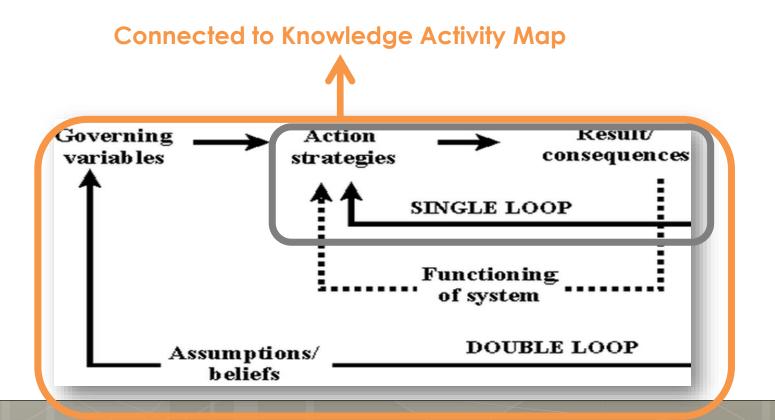
2. Knowledge Representation



3. Mental Models

Addresses the importance of mental model s (handed to us by culture & personal development etc.)

Paradigm shift from auditor to facilitator



Results

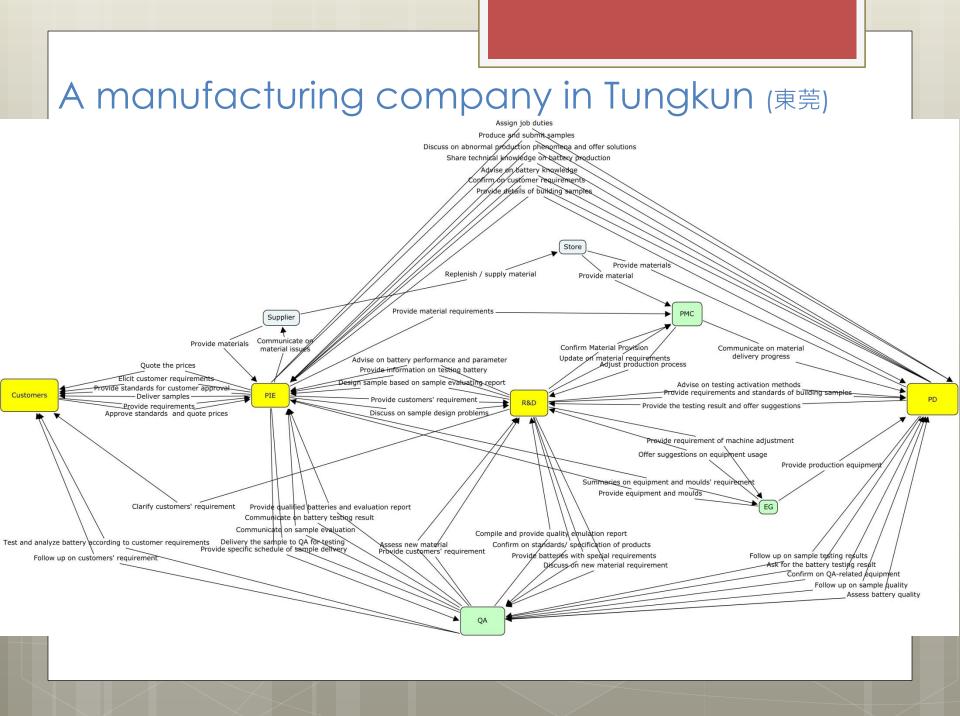
- 1. Implicit-Explicit Knowledge Category Ratio
- 2. Critical Implicit Knowledge Categories
- 3. Critical Explicit Knowledge Categories
- 4. Knowledge Categories comparison
- 5. Critical Knowledge Owners
- 6. Critical Knowledge Customers
- 7. Desired Implicit and Explicit Knowledge
- 8. Comparison of Individual Activity Maps

This research

Traditional

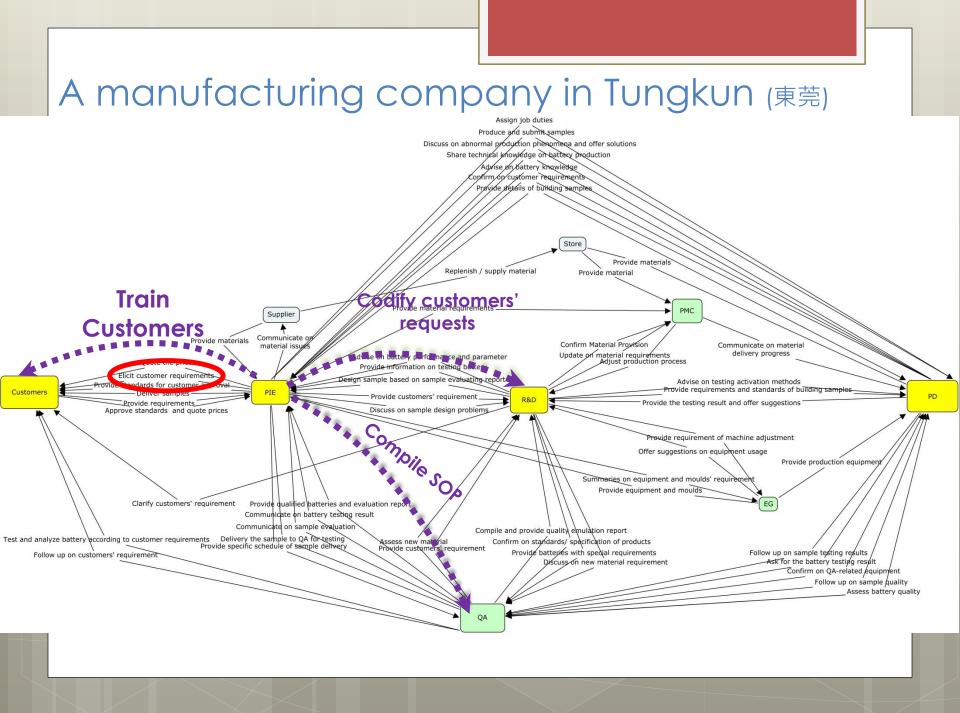
9. Comparison of Knowledge Activity Maps

10. Mental Model Identification, Reframing & Intervention



A manufacturing company in Tungkun (東莞)

Consequences	Actions/ Activity	Mental Model
• Departments are confused with their respective interpretation on customer requirements. This deters the sample production progress. Customers complain on it.	Customers>PIE (Elicit Customer requirement)	 Customers do not have specified requirements Employees do not understand their duties. So, they tends to ignore the responsibility not stated in their job specification.
Validation?	 PIE > Customers (customer training) PIE> QA (Codify customers' requests) PD as internal documents) R&D QA> PIE (SOP Compilation) PD R&D 	 Customers has the capability to formulate battery specification and production criteria



Research Significance

Embarking the KM journey with a knowledge audit tools developed for unstructured business processes

Knowledge Elicitation



Implicit Knowledge Elicitation using **story** (anecdote) circle

Knowledge Representation

Date	Employee	Item	Units	Un	it Cost	To	tal	
12/20/05	Smith	Pencil	8	s	22.39	s	179.1	
10/30/05	Jones	Pencil	9	s	17.91	S	161.1	
4/9/05	Sigan	Pencil	20	s	22.39	s	447.7	
2/9/06	Smith	Pencil	67	s	17.91	s	1,199.8	Visualize the
5/30/05	Sigan	Pencil	68	s	2.23	S	121 21	
6/8/06	Ballard	Pencil	89	s	5.59	s	497.4	dynamic interplay
1/6/06	Jones	Pencil	89	ş	5.59	S	497.4	
10/13/05	Smith	Mouse Pad	5	s	140.00	s	700.0	
4/1/06	Ballard	Mouse Pad	13	s	5.59	s	72.6	1 1
7/29/06	Jones	Mouse Pad	21	\$	140.00	s	2,940.0	between
2/26/06	Sigan	Mouse Pad	39	\$	10.07	S	392.6	
3/6/05	Jones	Mouse Pad	43	s	22 39	s	962.7	2
5/13/05	Sigan	Mouse Pad	53	s	5.59	s	296.2	knowledge,
7/20/05	Ballard	Mouse Pad	53	s	10.07	S	533.6	knowledde.
7/12/06	Sigan	Mouse Pad	73	\$	10.07	s	735.0	
9/9/05	Smith	Mouse Pad	74	s	22 39	S	1,656.7	
3/15/06	Smith	Mouse Pad	80	\$	16.80	S	1,344.0	activity and
7/3/05	Thompson	Eraser	25	s	2.23	S	55.7	
6/16/05	Ballard	Eraser	83	s	5.59		463.8	
8/6/05	Jones	Eraser	83	s	5.59	s	463.8	ملماره لم ما ما م بم
2/17/05	Ballard	Eraser	88	S	2 23	s	196.1	stakeholders
				Tot		51		

Mental Model



Paradigm shift from auditor to facilitator

Address the mental model (handed to us by culture, personal development The End Thank you!