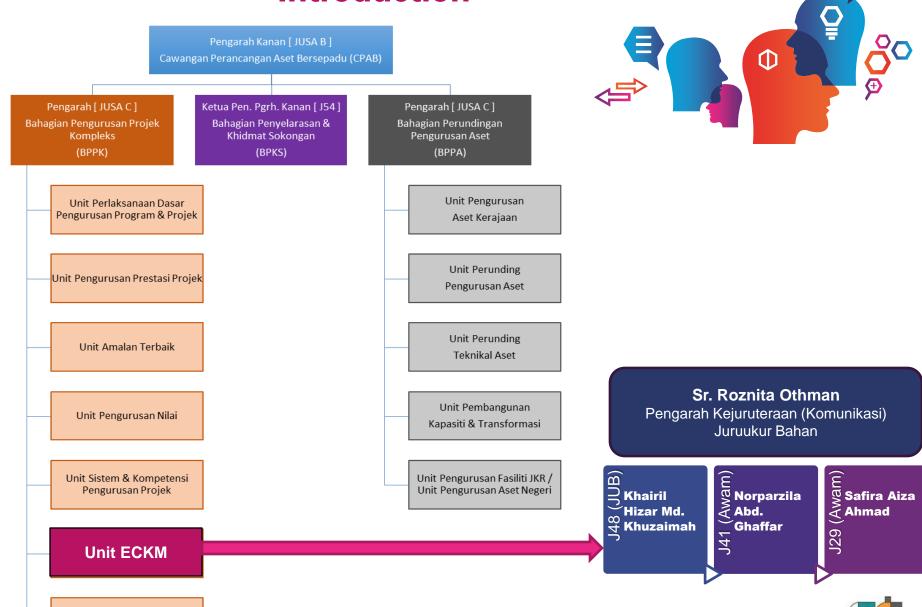


8 Disember 2016

Introduction

Unit BIM





How KM improves our performance

Our knowledge Assets

JKR KM Agenda & Journey

ECKM Products

Lessons Learned



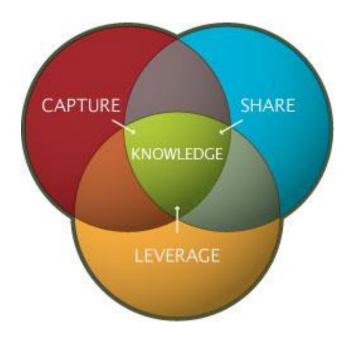




How KM can improve the organisational performance







Easy to find experienced individuals

Enterprise wide knowledge at our finger tips

Improve productivity by reusing "what we know

Improve communication and break down silos

Generate new ideas that can be incorporated into innovative products and processes



Our Knowledge Assets

Relationships

- know-who
- Social relationship

-eg with experts, stakeholders

Methods

Procedures, processes, workflows

Not all are documented

e.g best practices, checklists, templates

Adapted from Dave Snowden, 'The ASHEN model an enabler of action' Knowledge Management vol.3 issue 7 2000

Natural Talent

- Inherent
- Cannot be constructed/replicated
- e.g art, design

Experience

- Able to identify trends and make sense
- e.g forecasting, negotiations, risk planning

Skills

- Competent in performing tasks
- Acquired through learning and doing
 - e.g project scheduling,

Documents/Data

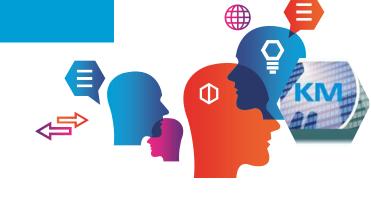
- Explicit knowledge

e.g Manuals, SOPs, databases, training kit

INTARNAIS, JUL'S, databases, training kit

The KM Agenda

To cultivate **knowledge sharing and learning culture** across department
through the use of proven **effective knowledge sharing tools**



MAJOR KM INITIATIVES (since 2008)

JPedia, an online repository to share knowledge-in-context)

2

Communities of Practice to share domains of knowledge

3

JCoP, an online platform to ask and discuss

- Project Lessons Learned
 System to share key project
 learnings
- JKR Yellow Pages to locate experts within the department

5

KM Toolbox, set of tools and techniques to capture and share insights and ideas

7

E-Learning to provide 24 x 7 learning environment



JKR Enterprise Content & Knowledge Management Program



Tools and Techniques





To become a first-class knowledge centre that provides the optimum in performance support via optimization based on trust, partnerships and a mutual win-win mentality

JKR KM MISSION

Knowledge Fairs





To improve our performance by getting the BEST knowledge to the right people at just the right time





Knowledge managers in HQ and JKR States

Quarterly Mesyuarat JKPPPI











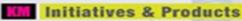








KARNIVAL PEMBUDAYAAN ILMU









KM JOURNEY IN JKR FROM 2008 - 2016

Create The Buzz

 June - Dec ECKM Briefing to ECKM team; Introduction to KM course for ECKM team; ECKM Handbook

Getting Others Involved

 Jan - June
 Set up J/K Pelaksanaan dan Pemantauan Pembudayaan limu
 & Appoint Knowledge Managers:

 Jul - Dec Launched e-PSMG; Briefing at Mesyuarat Pengarah-pengarah and Mesyuarat Jurutera Daerah; Avillon Knowledge Café; Karnival Pembudayaan Ilmu

K-Visits: Knowledge Audit CKUB

More Initiatives

Jan - June
 KM Seminar for top management;
 JPedia Lessons Learned Process;
 L10 Requirements Specs

J-10 Requirements Specs for ECKM Initiatives, Sepang Knowledge Café

 Jul - Dec Content management governance;
 KM Training; KM Seminar for J48 and above; Semarak limu

Inculcating Knowledge Sharing Culture

· Jan - June

JPedia & JCoP Roadshows A'Famosa Knowledge Café K-Visits, K-Managers Meeting HKL Project Lessons Learned Workshop; SUKMA Project Lessons Learned Workshop; Exit interviews

 Jul - Dec Workshops on Sustaining CoPs Wacana Ilmu: JCoP v.2: JCoP survey

Shared Learnings

Jan - June
 PLL Workshops
 PLL Guide
 K-Connect Seminar
 CoP Health Check

Jul - Dec
 JCoP / JPEDIA Roadshow
 KM Audit
 Persada Minda
 Seminar CoP JKR



2009

2010

4

2011

2012

2013

2014

2015

Oo

2016



2008









Quick Wins to Get Buy In

· Jan - June

Talks; KM workshops

Jul - Dec
 Pilot online knowledge
 repository (e-PSMG);
 Developed ECKM
 Framework; ECKM Roadmap
and Taxonomy

Sell, Sell, Sell

· Jan - June

Workshops to enhance e-PSMG content; ECKM Roadshows; Present Papers at International Conferences; K-Visits; K managers meeting

 Jul - Dec KM Readiness Assessment; Genting Knowledge Caré

Retaining & Transferring Tacit Knowledge

· Feb - June

Cultivate CoPs; JPedia Roadshows; UPNM Lessons Learned Workshop; Story telling Workshop; K-Visits; K managers meeting; Gambang knowledge Café

· Jul - Dec

JCoP portal; Wadah Ilmu; CoP Launching and Seminar; Exit interview

Communicate and Collaborate

· Jan - June

JCoP Newsletter; Seminar CoP for Top Management; Publish CoP guides; K-Visit; Penang K-Café; K managers meeting; JCoP Roadshows; Exit Interviews, JCoP Moderators Workshop; KM Prog, for cadre officers; JCoP day

· Jul - Dec

Persada Minda; JPedia workshop

KM is a KEY component in JKR Strategic Framework 2016-2020











KM Initiatives

T1.3 Develop PM Competency

- JCoP as platform for sharing knowledge
- Lessons Learned documentation

T2.3 Develop Customer Centric Workforce

 Knowledge Sharing competency development

T3.4 Identity and Develop Experts

• SME Profile Page

T4.4 Develop Sustainable Champion

WikiGreen and WikiTAM in Jpedia

T5.3 Enrich Organisational Knowledge Base

T5.4 Develop Innovative Centric Workforce

 Enhance ECKM,, Governance, e-Learning, CoP Sustenance,



ECKM products





JKR CoP Domains

2013

SHM
COP
TCA
COP
HRM
COP
HRM
COP

2016

BIM CoP Contract Mgt CoP

?

Green CoP

Structures CoP



JKR KM Online Tools



JPedia

Online Knowledge Repository

- Best Practices
- PM Competency Framework
- Project Lessons Learned
- Technical References and Guides
- Presentations
- Conference Papers



Connect People to Content

JCoP Virual Communities of Practice

- CoP Domains
- Subject Matter Experts Profile
- Ask and Discuss Online Platform



Connect People to People





m Printable version

1) SURVEY W

2) SOIL INVE In-situ Test

> = Boreho JKR Pro

- Hand A Trial Pit . Cone P Vane SI ■ Plate B Site Labor Sieve A = Moisture Modifie

= Permanent link



Connecting People – The **BEST** Way

JCoP

Build Network

Keretakan tembok



asked Mar 25, 2014 in Structure by Mastura (170 points)

Bangunan asal sekolah ini empat tingkat.dan hanya satu tangga disediakan. Kemudian, tangga tambahan dibuat pada bangunan tersebut. Sekarang, ada keretakan diantara bangunan asal dengan tangga tambahan tersebut.

commented Apr 1, 2014 by Rosli (4,750 points)

Dinding untuk koridor perlukan stiffner dan dowel bar. Begitu juga dinding tang baru dengan blok sekolah. Jika tidak disedial tiffner + dowel bar, bermaksuc Share Tacit Knowledge dinding tersebut bergantung har ngan mortar dan berat sendir g., i.e pelajar / murid sekolah ada dinding tersebut. Untuk oading ini boleh dirujuk dalam Table

gan lantai koridor pada setiap tingkat. Kemungkinan ada yang retak banyak dan ada juga sedikit pada sambungan antara tangga baru dan blok sekolah. Dikhuatiri pecahan mortar yang jatuh boleh mencederakan kepala pelajar / murid yang melalui di kawasan tangga baru tersebut.

Punca kenapa berlaku "gap" tersebut perlulah diketahui supaya pembaikan dibuat tidak berulang. Sekiranya atas desakan PPD / Pengetua / Guru Besar supaya ambil tindakan segera bagi elak persepsi kurang baik dari ibu bapa / masyarakat setempat, dinding dipecahkan sebahagian kecil sahaja yang berhampiran blok sekolah. Drill rasuk dan masukkan rebar sebagai stiffner dan sediakan dowel bar. Perbetulkan kembali construction joint.

Sekadar pandangan saya. Terima kasih.

Table 4 - Minimum Horizontal Imposed Loads For Parapets, Barriers and Balustrades, etc

TYPE OF ACTIVITY/OCCUPANCY FOR PART OF THE BUILDING OR STRUCTURE	EXAMPLES OF SPECIFIC USE	HORIZONTAL UNIFORMLY DISTRIBUTED LINE LOAD (kN/M²)	A UNIFORMLY DISTRIBUTED LOAD APPLIED TO THE INFILL (kN/M²)	A POINT LOAD APPLIED TO PART OF THE INFILL (kN)
A Domestic and residential activities	(i) All areas within or serving exclusively one dwelling including stairs, landings etc. But excluding external balconies and edges of roofs (see C3 ix)	0.36	0.50	0.25
	(ii) Other residential, (but also C)	0.74	1.0	0.5
B and E Offices and work areas not included elsewhere including storage areas	(iii) Light access stairs and gangways not more than 600mm wide	0.22	N/A	N/A
	(iv) Light pedestrian traffic routes in industrial and storage buildings except designated escape routes	0.36	0.5	0.25
	(v) Areas not susceptible to overcrowding in office and institutional buildings also industrial and storage buildings except as given above	0.74	1.0	0.5
C Areas where people may congregate C1/C2 Areas with tables or fixed seating	(vi) Areas having fixed seating within 530mm of the barrier, balustrade or parapet	15	1.5	1.5
	(vii) Restaurants and Bars	1.5	1.5	1.5
C3 Areas without obstacles for moving people & not susceptible to overcrowding	(viii) Stairs, Landings, Corridors, Ramps	0.74	1.0	0.5
	(ix) External balconies and edges of roofs. Footways and pavements within building cartilage adjacent to basement/sunken areas	0.74	1.0	0.5
CS Areas susceptible to overcrowding	(xi) Theatres, cinemas, discotheques, bars, auditoria, shopping mails, assembly areas, studio. Footways or pavements greater than 3m wide adjacent to sunken areas	3.0	1.5	15
D Retail areas	(xiii) All retail areas including public areas of banks/building societies or betting shops. For areas where overcrowding may occur, see C5	15	1.5	1.5
F/G Vehicular	(xiv) Pedestrian areas in car parks including stairs, landings, ramps, edges or internal floors, footways, edges of roofs	15	1.5	1.5



n sememangnya tidak bersambung a dijelaskan oleh Encik Harjit.



Jpedia (formerly called e-psmg)

- Started as an experiment to see what works in JKR environment
- An online knowledge repository focused on knowledge needs of site supervisory staff (online site management guide)
- Used open source software, Mediawiki
 - flexible and easy-to-use tool
 - minimum learning curve
 - minimal cost



Jpedia content size and users as on 8 December 2016

Page statistics					
Content pages	829				
Pages (All pages in the wiki, including talk pages, redirects, etc.)	8,876				
Uploaded files	7,013				
Edit statistics					
Page edits since J-Pedia was set up	29,156				
Average edits per page	3.28				
User statistics					
Registered users	2,309				



JCoP

- Focus on sharing of experiential knowledge
- An online communities of practice platform to ask and discuss
- Used open source software, Stack Overflow
 - gamification element
 - users profile

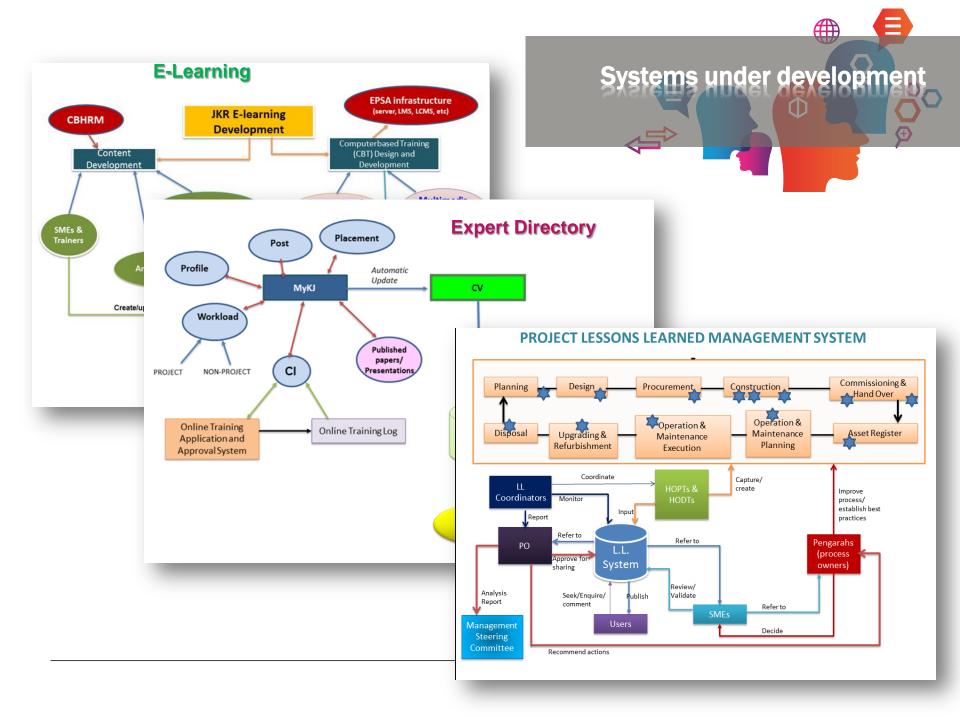


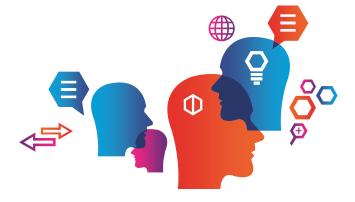
JCoP users and postings as on 8 December 2016





Top scoring users			٩	
farijal	፩ 30,000 ⓒ Isma_Ashraf	§ 9,630	Most popu	lar tags
Mohd Fairuz	8 24,420 NikAinun	6 9,180	stakeholder project- management facilities-asset- management risk-management stakeholder-management time-management asset communication-management competency integration bim human design cost-management electrical myspata pengurusan-aset-fasiliti project-planning time project	
nikmanan	20,240 abubakarms	8 ,990		
MeorSLizam	§ 19,700 SarumZA	5 8,830		
Muham Zaini Hamzah	5 19,260 haris	5 8,360	1,023	1,988
aidzil	5 17,390 khudri	5 7,610	QUESTIONS	ANSWERS
hizar	5 13,140 mfairuz	5 7,290	663	1,968
noorazmanr	6 11,790 Rosli	6 6,990	COMMENTS	USERS
SaifulFazli	6 11,530 harjit	6 6,450		
szshah	፩ 11,140 ⁴ abrahmans	§ 6,200		



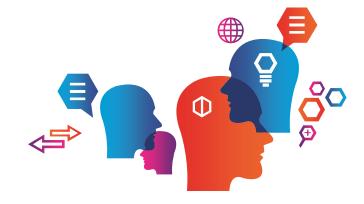


LESSONS LEARNED in IMPLEMENTING KM

You may have heard what I've done, but not what I've been through

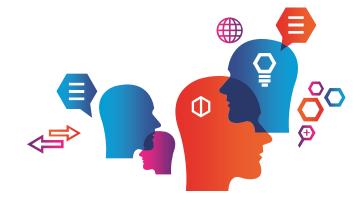


Why is Change Management critical for Knowledge Management?



Lack of a strong change management strategy is one of the top five reasons for having a failed knowledge management implementation.

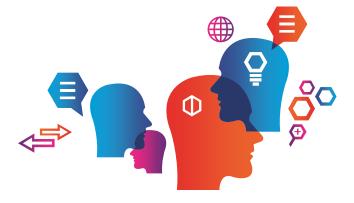




- Change is all about people...
- Change is not predictable and does not follow a set pattern.

An effective change management strategy should address the individual's behavioral aspects to motivate them to adopt change





Can we change people's behaviour?

What if people just aren't interested? Do threats work? Do incentives work?





LEADERSHIP AND CHAMPIONS

Identify people who are willing to spend time sharing knowledge;

Get support from friends;

Create enabling environment and provide opportunities for people to become inspired by what their peers have achieved

FOCUS AROUNDS ACTUAL BUSINESS NEEDS AND OBJECTIVES

Know the pain points, gaps, critical knowledge; Align to business strategy



START SMALL AND SIMPLE, THEN BUILD FROM THERE

Figure out how to create solutions that answer their real needs. get to know your audience and work with them to innovate solutions

Quick wins, pilots

Incremental approach



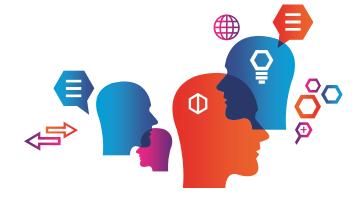
RIGHT COMBINATION OF PEOPLE, PROCESS AND TECHNOLOGY

Focus on people;

Embed knowledge capture and sharing in work process;

Technology as enabler and tool Incentives for knowledge sharing

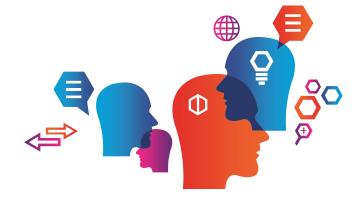




SELL, SELL!

Use appropriate marketing strategies and tools; Broadcast, promote, update via social media

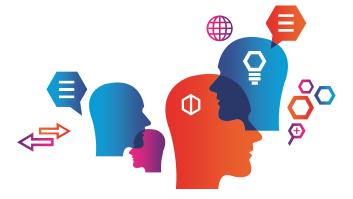




SOLICIT FEEDBACK!

Listen to users' expectations, preference, suggestions
Analyse users behavior
Monitor targets achievement





Thank you!

