

# ENTERPRISE CONTENT KNOWLEDGE MANAGEMENT (ECKM) Perspective CKE

#### CONTENT



#### ORGANISATION KNOWLEDGE

WHAT & WHY ECKM/KM

KM IMPLEMENTATION IN JKR

KM IN CAWANGAN KEJURUTERAAN ELEKTRIK

## ORGANISATION KNOWLEDGE Type of Knowledge

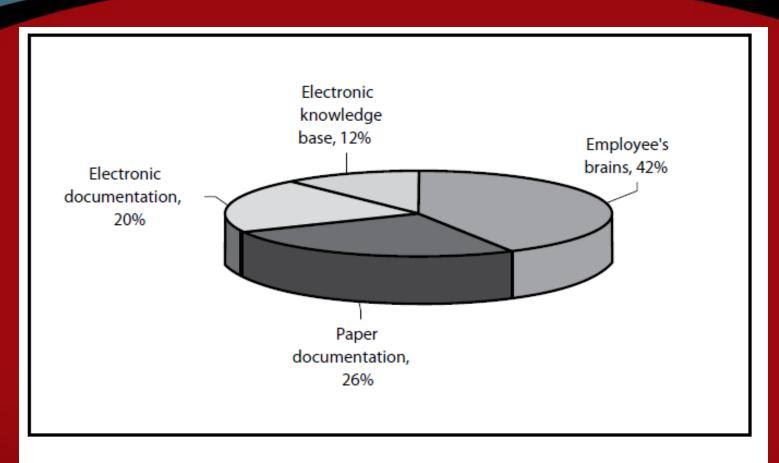


- Tacit knowledge resides in one's head, difficult to be expressed or explained.
- Implicit knowledge can be transferred by the use of heuristics (set of rules) to achieve the same level of accuracy.

 Explicit knowledge - can be transferred easily in writing or verbally

# ORGANISATION KNOWLEDGE Primary Repositories Of An Organisation's Knowledge

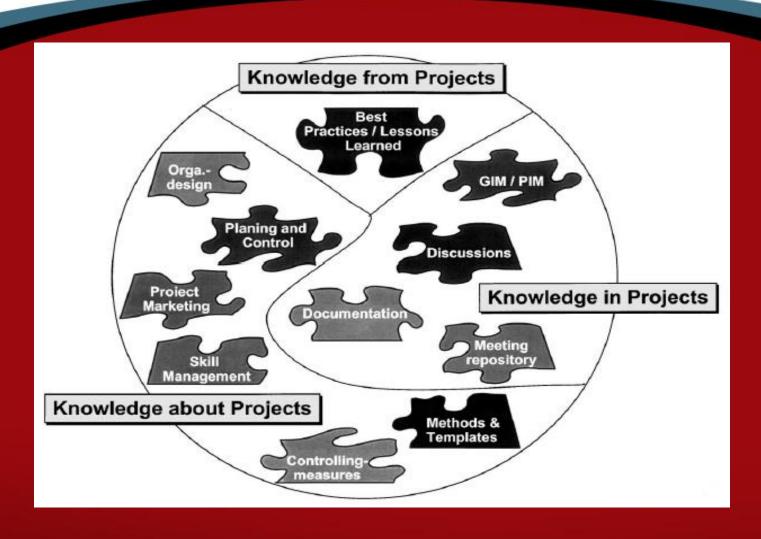




Source: The Delphi Group, Inc., (2000)

#### KNOWLEDGE PUZZLE





#### ECKM & KM



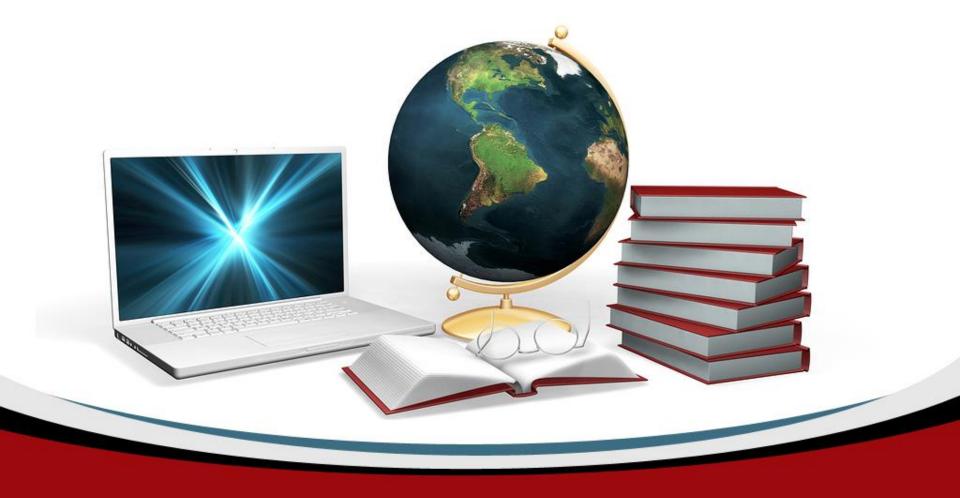
ECKM is a knowledge management system which manages data, information and knowledge

KM is A management discipline that focuses on improving the means by which individual and collectively-held knowledge is produced and integrated in organizations. As such, KM is practised at the level of knowledge and innovation processes, policies, and technology support - Mark McElroy

#### WHY ECKM & KM??

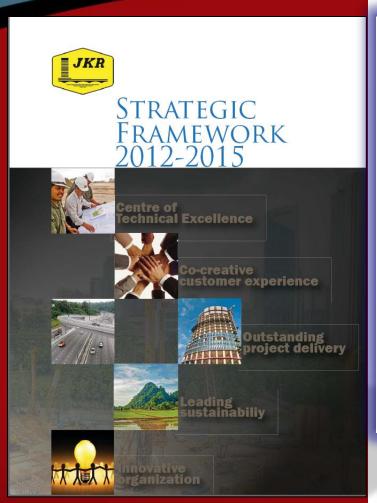


- Loss of knowledge
- More resources will be wasted by reinventing knowledge
- Spending time locating knowledge and trying to understand and use the growing volumes of new knowledge flowing into and within our organization every day.



## KM IMPLEMENTATION IN JKR

#### LINKING KM TO BUSINESS STRATEGY AND GOALS (JKR STRATEGIC FRAME WORK 2012-2015)



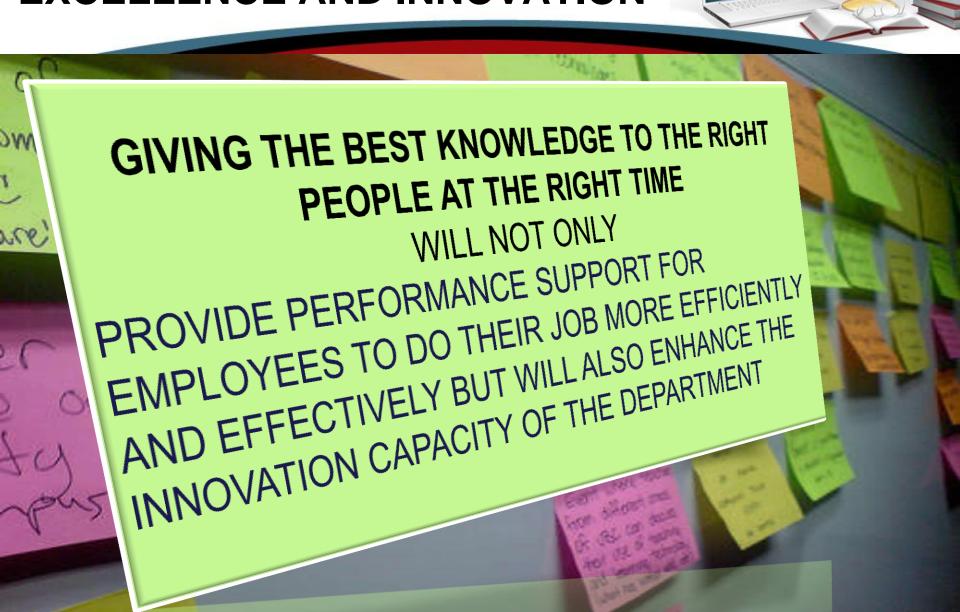


LINKING KM TO BUSINESS STRATEGY AND GOALS (JKR STRATEGIC FRAMEWORK 2012-



## KM AS A DRIVER OF TECHNICAL EXCELLENCE AND INNOVATION





### THEME 3: CENTRE OF TECHNICAL EXCELLENCE



T3.1

JKR As A Technical
Reference Centre

 Develop Systems to facilitate search for internal experts - JKR Yellow Pages

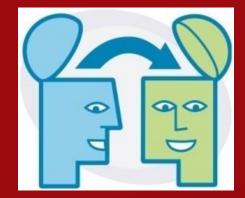


### THEME 3: CENTRE OF TECHNICAL EXCELLENCE



T3.3
Strengthen Means of Knowledge
Transfer

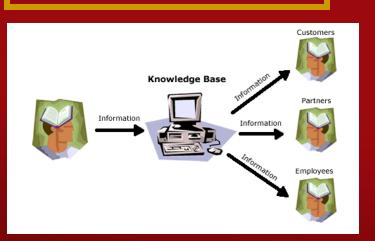
Promote proven
 Knowledge sharing
 techniques to facilitate
 tacit knowledge transfer



### THEME 5: INNOVATIVE ORGANISATION



T5.3
Enrich
Organisational
Knowledge Base



- Develop Knowledge
   Management Practice
- Develop Online Knowledge Repository System (J-pedia)
- Develop Project Lessons Learned Management Guide
- Develop Systems To Support Continuous Learning (E-Learning)

### THEME 5: INNOVATIVE ORGANISATION

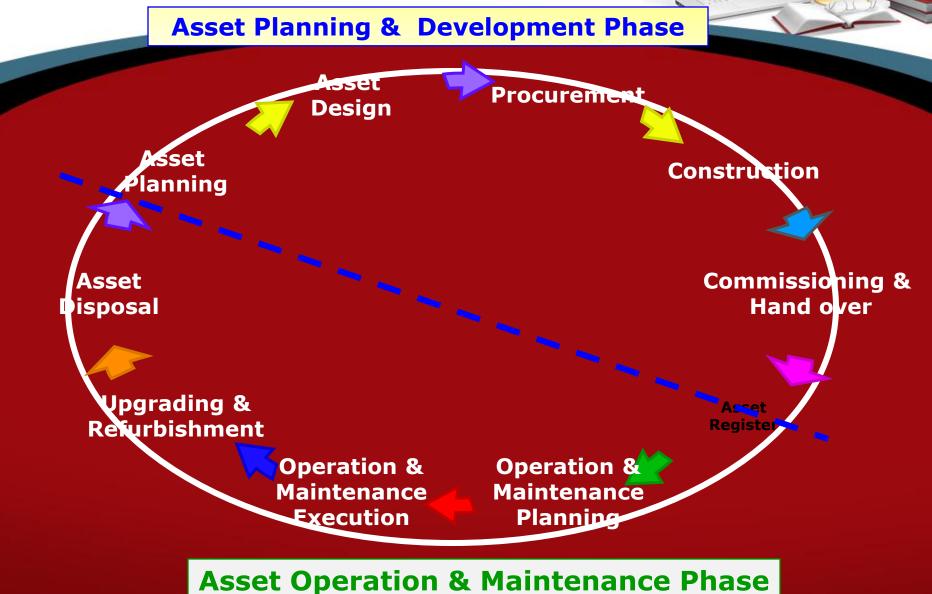


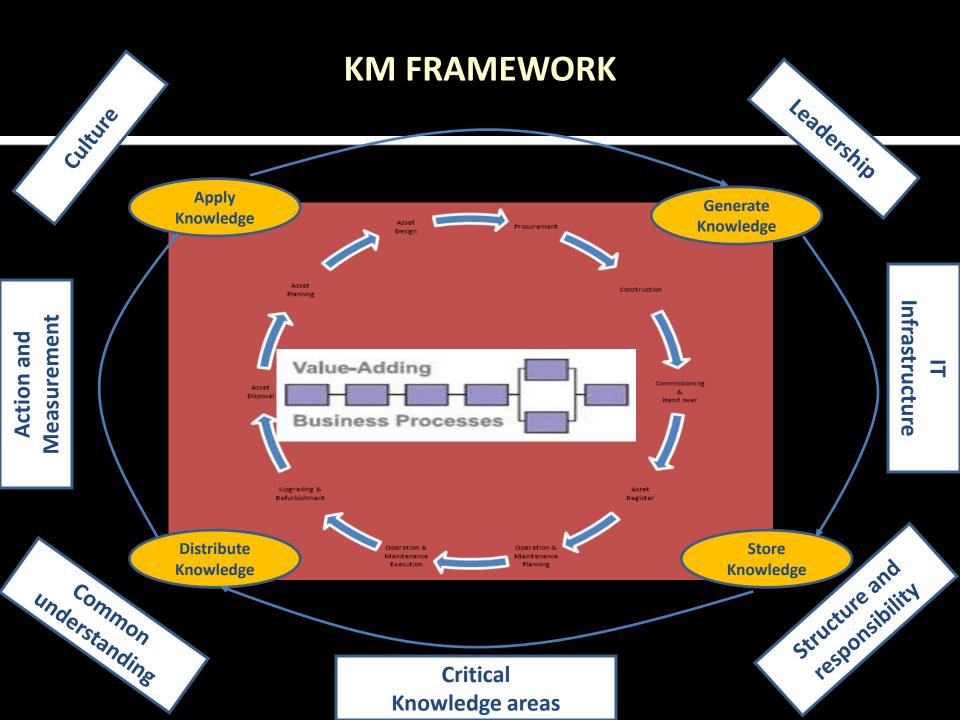
T5.4

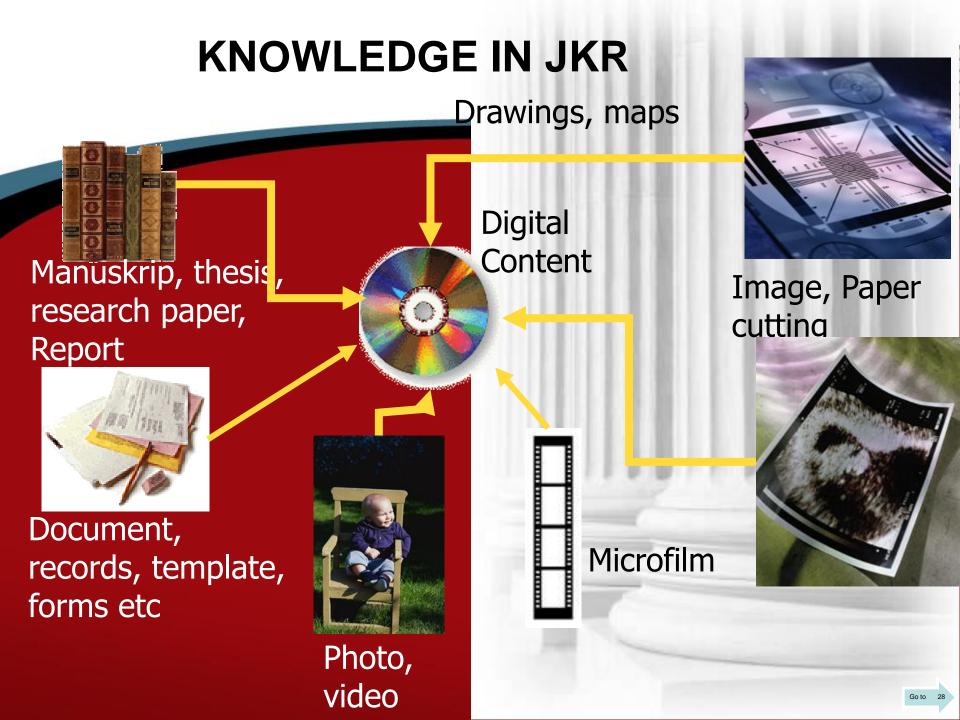
Develop Innovativecentric Workforce 5. Build Communities of Practice (CoP)



#### TOTAL ASSET LIFE CYCLE





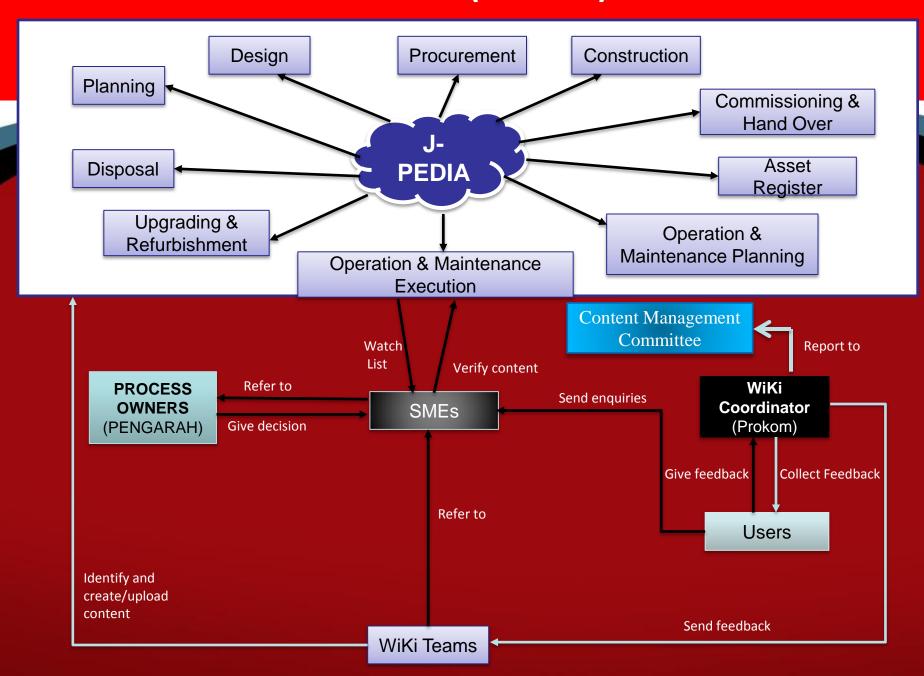


#### **KNOWLEDGE REPOSITORY**



- Web sites
- Shared folder
- Storage tools CD, Pen drive, Hard drive
- J-library As built drawings, Photos, paper cutting, video
- J-pedia Knowledge Content

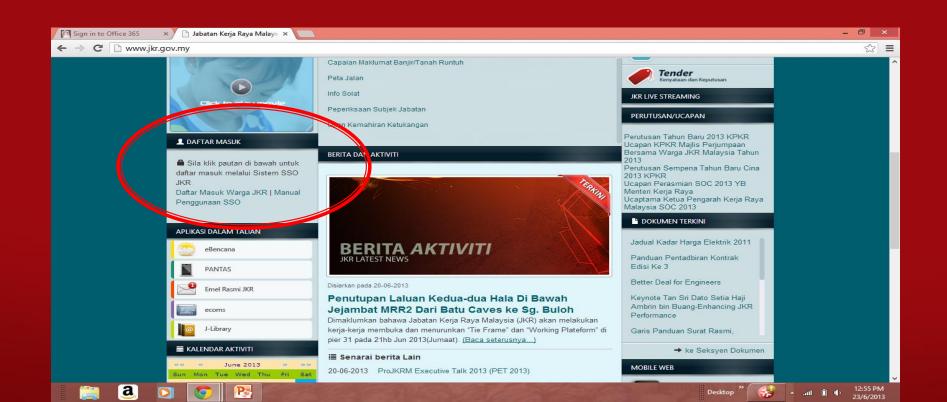
#### JKR WIKI (J-PEDIA)



#### **ACCESS J-Pedia VIA WEB**

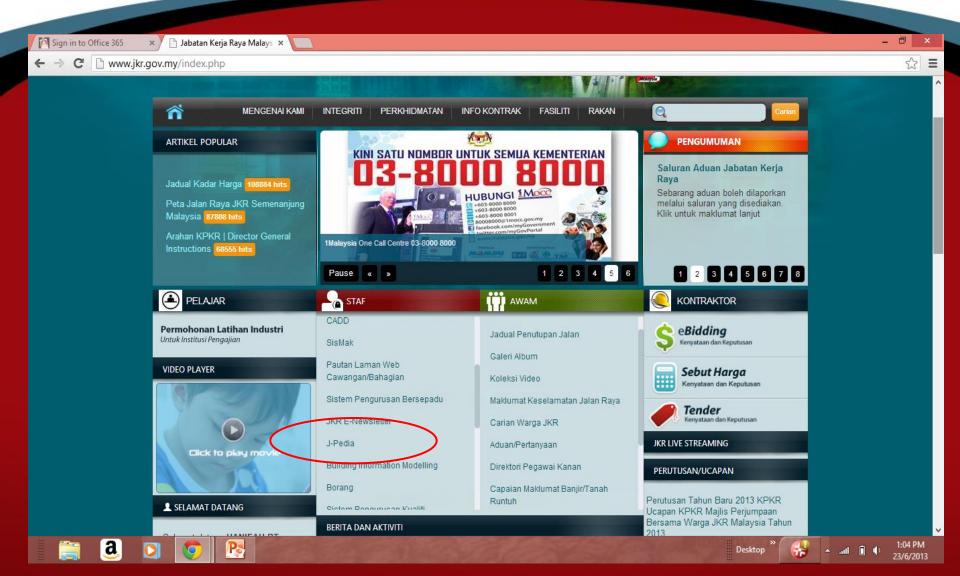


- www.jkr.gov.my
- Login Web Single Login/Sign-On (WebSSO)
- Acces with MyKJ user ID



#### **ACCESS VIA WEB**





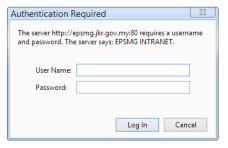
#### **ACCESS VIA WEB**

× | Jabatan Kerja Raya Malays ×





Password: epsmg2020











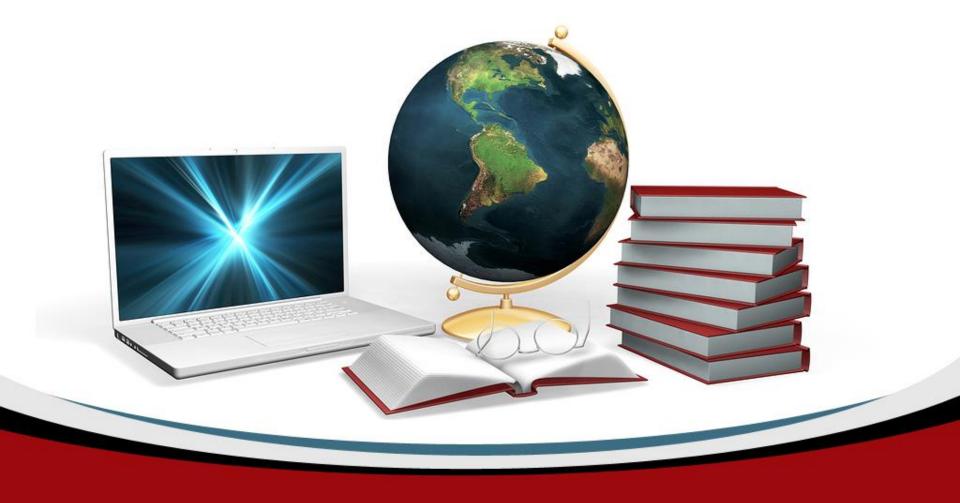












### KM IN CKE



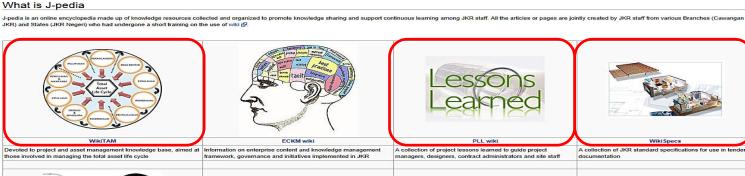
Go Search



What links here Related changes Special pages Permanent link

Page Discussion

J-Pedia





Read View source View history









managers, designers, contract administrators and site staff



documentation







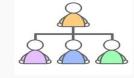


A collection of notes and presentations of trainings conducted in JKR

A collection of conference proce

A collection of theses and research papers produced by JKR







History



A collection of forensic (structure & bridge) documents/materials/references

JKR Organisation Structure A brief organisation hierarchy of JKR.

JKR History

Portfolio Office, Program Office & Project Office

J-pedia Feedback

We are running a survey on what you think of J-pedia and how it can be improved. Please click this link www.surveymonkey.com/s.aspx 🚱



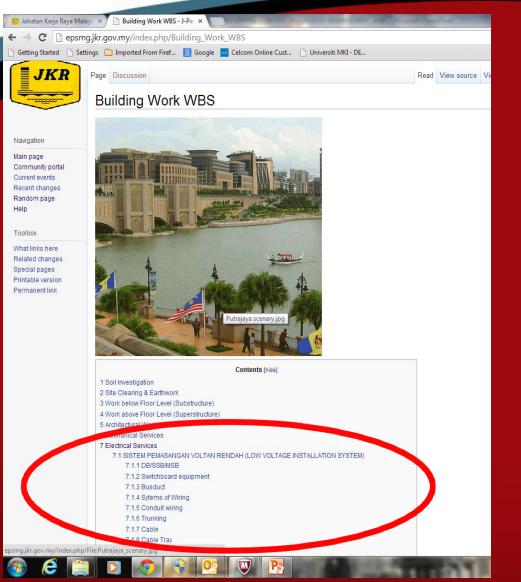
#### Focus on Asset Management



To equip site supervisory team with knowledge and tools to deliver quality construction products by:

- Providing basic construction knowledge and tools that are accessible online 24 x 7, comprising but not limited to-
- Specifications and Standards, Manuals and guidelines, Lessons Learned (Dos and Don'ts), Best Practices

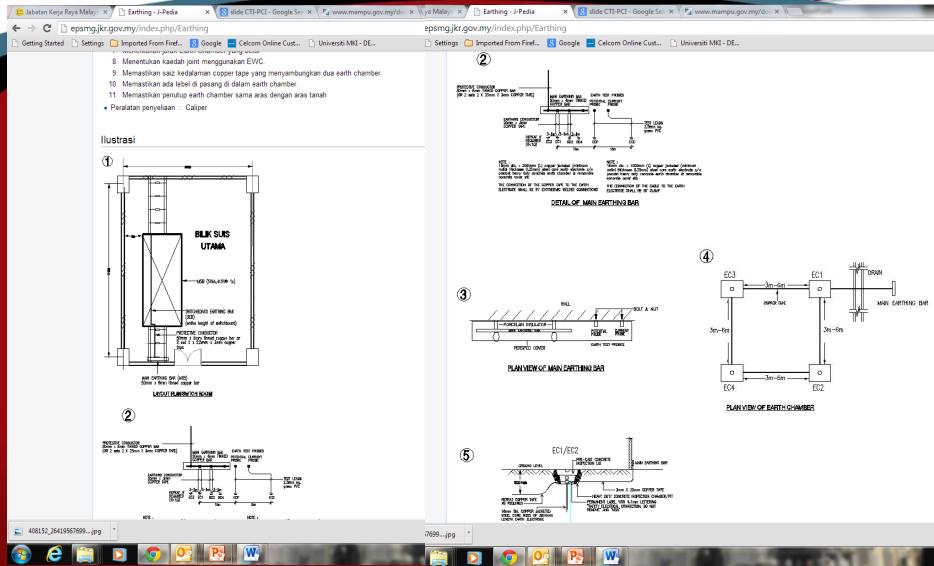


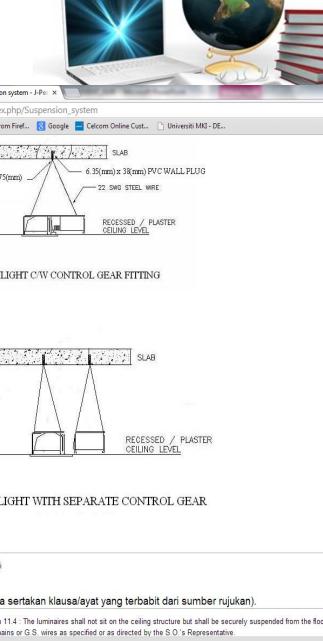


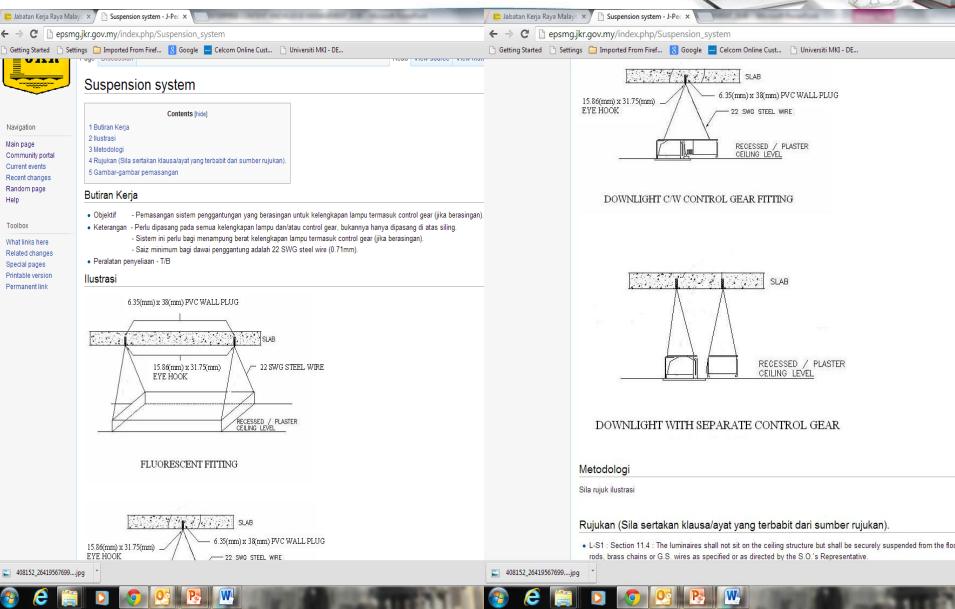
#### **Benefits**

- ensure quality and standards of supervision work are maintained regardless of the nature and different levels of complexities of the projects;
- improve productivity and efficiency;
- nurture and develop human capital;
- foster closer cooperation between different disciplines and enable the creation of cross functional knowledge clusters;
- enable more effective utilisation of resources;
- promote long life learning and provide support to the creation of new knowledge.



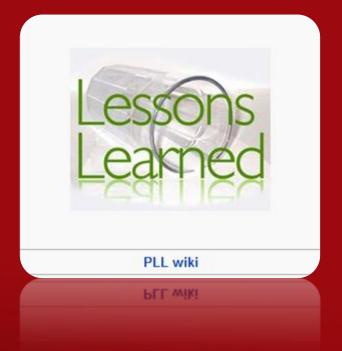








 Collection of lessons learned to assist project managers, designers, site staff and team.



#### Elektrikal

- 1. Do and Don'ts CKE (2008)
- 2. Do and Don'ts CKE (2011)
- 3. Do and Don'ts CKE (2012)
- 3. Do and Don'ts CKE (2012



#### Collections of CKE's Specifications



Wiki Specs Miki Specs

#### Electrical

- . L-S1: Low Voltage Internal Electrical Installation
- Addendum L-S1: LED Luminaires (11.4)
- . L-S2: Low Voltage Automatic Power Factor Correction Equipment
- L-S3: Low Voltage Underground Cable
- L-S4: Low Voltage Overhead Line Distribution System
- . L-S5: Three Phase Generator Set
- . L-S6: Acoustic Treatment For Generator Room
- . L-S7: Single Phase Diesel Generator Set
- . L-S8: Specification For Lightning Protection System (Using Stranded G.I. Wires)
- . L-S9: Lightning Protection System For Structures
- . L-S10: 11 Ky Distribution Transformers
- . L-S11: For 11 Kv High Voltage Oil Circuit Breaker
- . L-S12: For 11 Kv High Voltage Ring-Main Unit Distribution Switchgear
- . L-S13: For 11 Kv High Voltage Underground Cable
- . L-S14: For 11 Kv Sf6 Ring Main Unit
- . L-S15: For 11Kv Metal-Enclosed Switchgear
- . L-S17: For 11Kv Dry-Type Distribution Transformer
- . L-S20: For Road Lighting Installation
- Specification For Trafffic Signals
- · Specification For Mesin X-RAY Klinik Kesihatan
- . Specification For Operation Table
- Specification For Surgical Light Fittings
- Specification For 60Hz Rotary Frequency Converter System
- Specification For Three Phase 50/400Hz Frequency Converter and Associated Auxilliary Equipment
- Specification For Three Phase 50/400Hz Frequency Converter and Associated Auxilliary Equipment
- Specification For boths Rotary Frequency Converter Syst



Collection of thesis & Research paper by CKE's Staff.



WikiResearch

WikiResearch

#### CKE

- Probabilistic Failure Analysis Of Surge Protective Devices Connected To Low-Voltage Due To Lightning Phenomenon In Malaysian Climate
  - World residential sector energy consumption: can implementing energy efficient designs save energy?
- Evalution of the Solar Hybrid Systems for Rural School in Sabah
- Design and Construction of A Small Scale Tesla Coil 2kV
- Calculating the Probabilit of SPDs Failure in an Installation Served by Overhead Lines
- Spark Gap Modeling Using PSCAD/EMTDC
- · Maintaining Project Alignment: A Grounded Theory Study of Project Managers in The Public Works Department of Malaysia (PWDM)
- Maintaining Project Alignment: A Grounded Theory Study of Project Managers in The Public Works Department of Malaysia (PWDM)
- Spark Gap Modeling Using PSCAD/EM/DC



#### Collection of Electrical Guides & Specifications



Guides and Standards

**Guides and Standards** 

#### **Electrical Engineering**

- · Panduan Penggantungan Fluoresent Luminaires Downlight dan Speaker
- Rujukan Standard Terkini CKE.USPMA(P).005-1-1
- Rujukan Standard Terkini CKE.USPMA(P).005-1-2
- Rujukan Standard Terkini CKE.USPMA(P).005-1-3
- . Energy Effigiency Guidlines For CKE Design
- Senarai Bahan-bahan yang Mendapat Kelulusan Jawatankuasa Bahan JKR Cawangan Kejuruteraan Elektrik
- Manual Polisi Senggara Elektrik
- Panduan Menyemak Kabel (PVC Insulated Armoured & Non Armoured)
- Panduan Menyemak Bahan (Street Lantern)
- Panduan Menyemak Conduit (UPVC Galvanised Steel)
- Aplikasi Teknologi LED Bagi Pemasangan Projek Kerajaan
- Panduan Teknik Rekabentuk Elektrik Edisi 4
- Manual Pengurusan Dokumentasi CKE
- Manual Pengurusan Dokumentasi CKE
- Panduan Teknik Rekabentuk Elektrik Edisi 4
- Aplikasi Teknologi LED Bagi Pemasangan Projek Kerajaan
- Panduan Menyemak Conduit (UPVC Galvanised Steel)

#### KM iniative in Progress:



- eCOMs
- JKR Yellow Pages
- E-Learning
- CoP Community of Practice

#### "FEATURES" eCOMs



#### **Capture**















Paper Films Optical Database

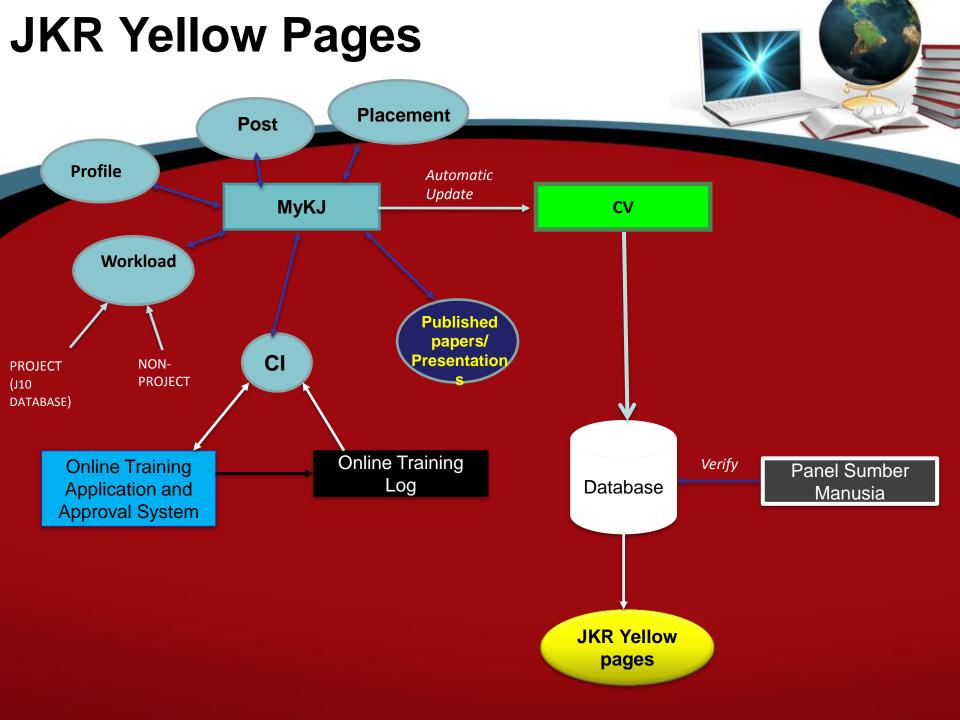
#### Deliver







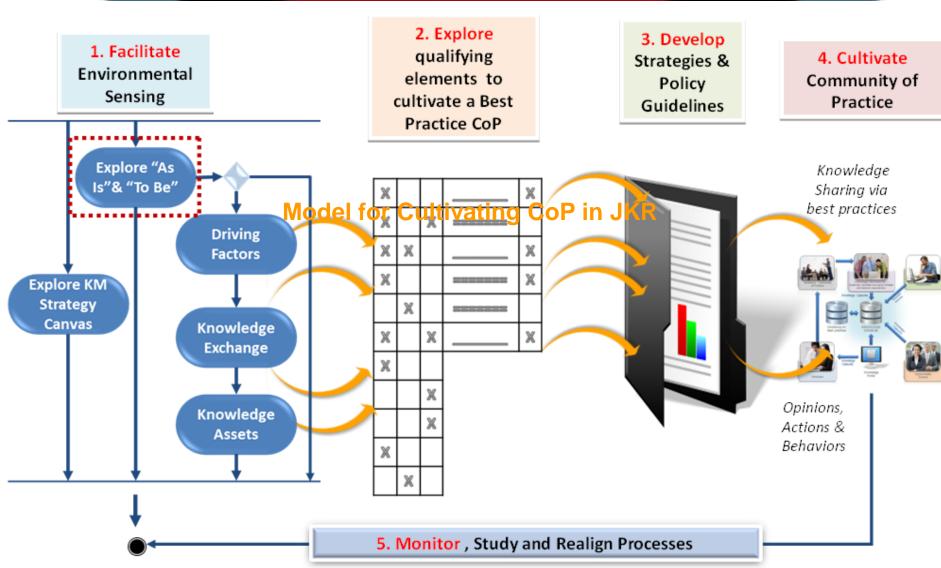
**Preserve** 



#### E-Learning **EPSA** infrastructure **JKR E-learning** (server, LMS, LCMS, **CBHRM Development** Computerbased Training Content (CBT) Design and Development Development medi Manage implementation Create/ update designer **Develop Administrator** Instruction storyboard (BLP & BTM) al designer SMEs Collect and analyse documents **Trainin** Content **Analyst** (Caw. reports Learning Create/update Assessment **Staff CPD E-Training Log Points Certificate**

## Model for Cultivating CoP in JKR







### THANK YOU



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