

VM BODY OF KNOWLEDGE: VM STUDY PROCESS



Lecture Contents

- **VM STUDY PROCESS (JOB PLAN)**
- **FOCUS ON VE STUDY PROCESS**



Lecture Objectives

- **UNDERSTAND VM STRUCTURED PROCESS**
- **UNDERSTAND PROCESS OF VE STUDY IN PUBLIC PROJECT**



Before we start..



What is a **PROCESS** really ?



**A process is a handy solution
to tackling the same set of
problems you've been
encountering on a day to day
basis**

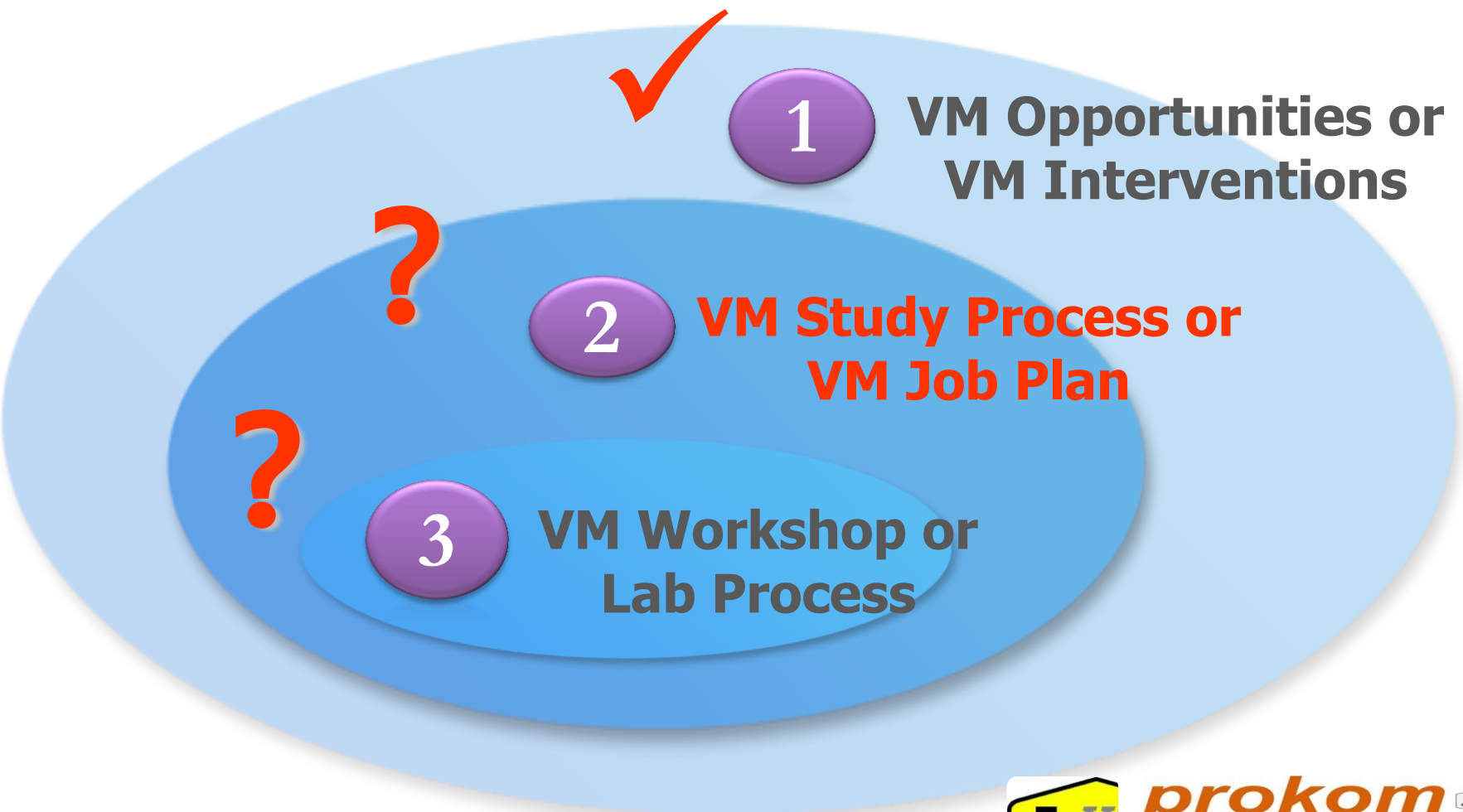


**Making improvements and
preventing past mistakes, in short
making your job easier**

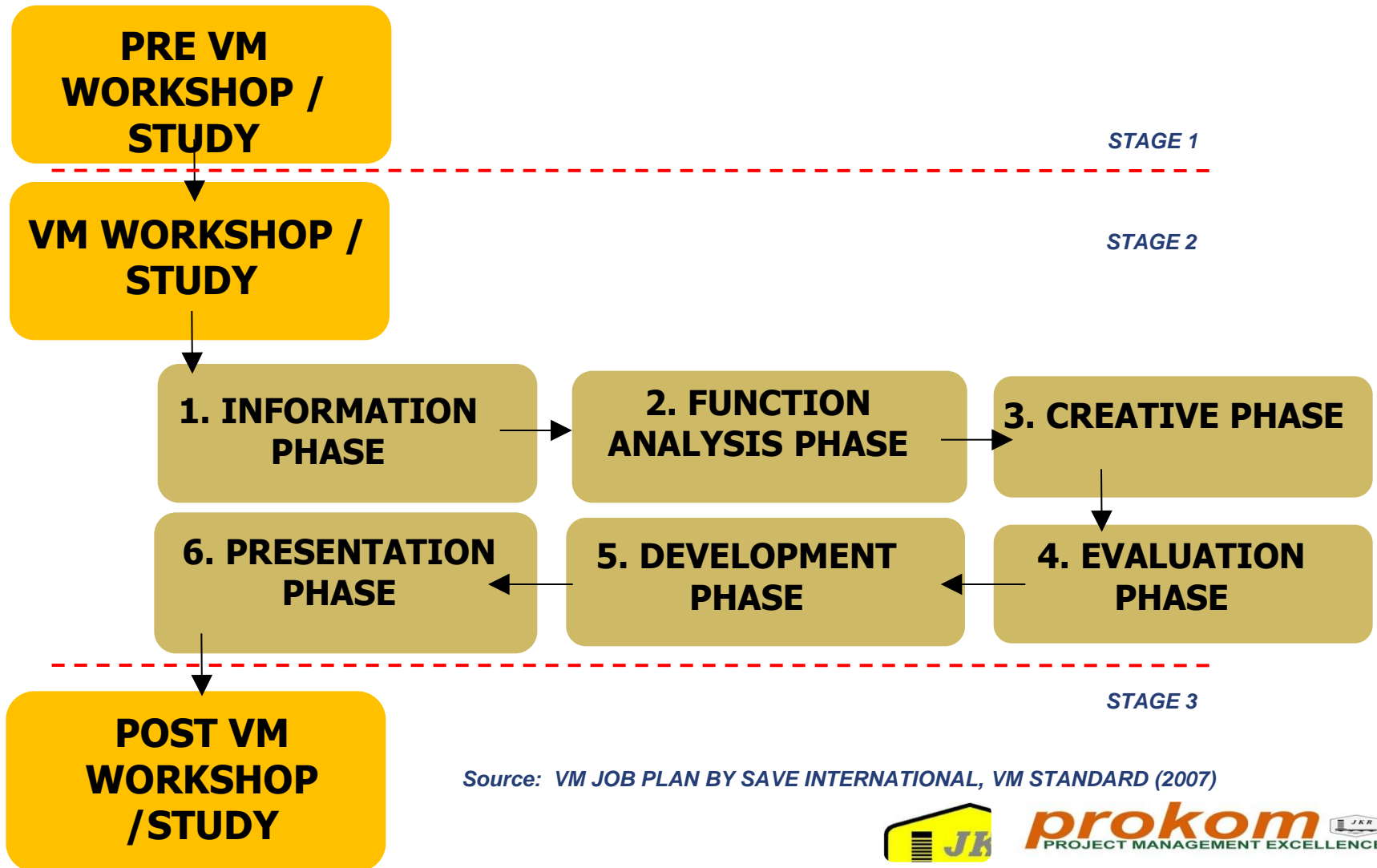




VM Body of Knowledge



VM Job Plan (SAVE)



Source: VM JOB PLAN BY SAVE INTERNATIONAL, VM STANDARD (2007)



VM Study Process (UK)

O & D PHASE (PRE STUDY)

Identify value context;
Define study scope;
Gather data;
Identify & select team;
Develop agenda;
Study Logistics

WORKSHOP PHASE

Information sharing;
Function Analysis;
Create Solutions & innovations;
Evaluate solutions;
Present & validate;
Action Planning;
Prepare report;
Finalization & sign off

IMPLEMENTATION PHASE (POST STUDY)

Disseminate report;
Support Implementation;
Continuous Improvement

Source: Enhanced VM Process, Male & Kelly (2007)



VM Study Process (UK)

(1)- O & D (Orientation & Diagnosis) Phase

(2)-Implementation Phase

Pre Study Information	Information	Creativity/Innovation	Evaluation	Option/Idea Development	Action Planning	Workshop Report	Implementation
Information Gathering	Presentation and Team Building	Brain storming	First level Sort	Development	Present to sponsor	Prepare Report	Feedback Workshop
Information Synthesis	Information Gathering		Refined Sort		Plan to implement	Circulate Report	Prepare Final Action Plan
Agenda Production	Information Synthesis		Select to Develop		Prepare Action Plan		Sign Off by Participants
	Function Logic Diagram				Sign Off		
	Function Analysis						
	Process Analysis						
	Target Functions						

(3)-Workshop Phase

Source: Revised Value Management Process, Kelly, Male & Graham (2004)



VM Study Process (EPU)

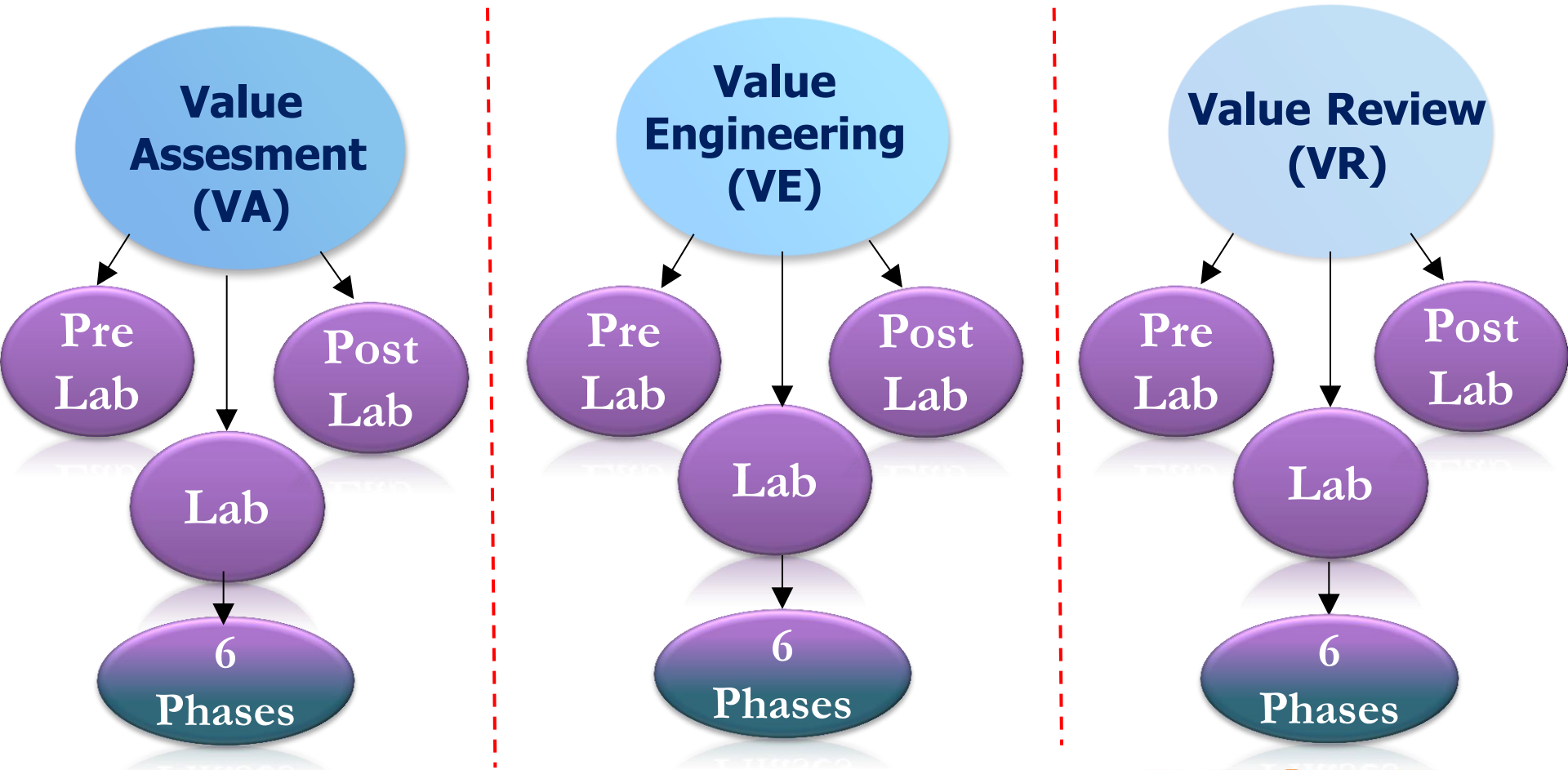
VM STUDY PROCESS SET BY EPU JPM (MALAYSIA)
FOR ALL VM STUDIES WHETHER VA / VE / VR

- 1 – PERINGKAT PRA LAB (PRELAB STAGE)**
- 2 – PERINGKAT LAB (LAB STAGE)**
- 3 – PERINGKAT PASCA LAB (POST LAB STAGE)**

(Sumber: Panduan Pelaksanaan Pengurusan Nilai, EPU - 2011)



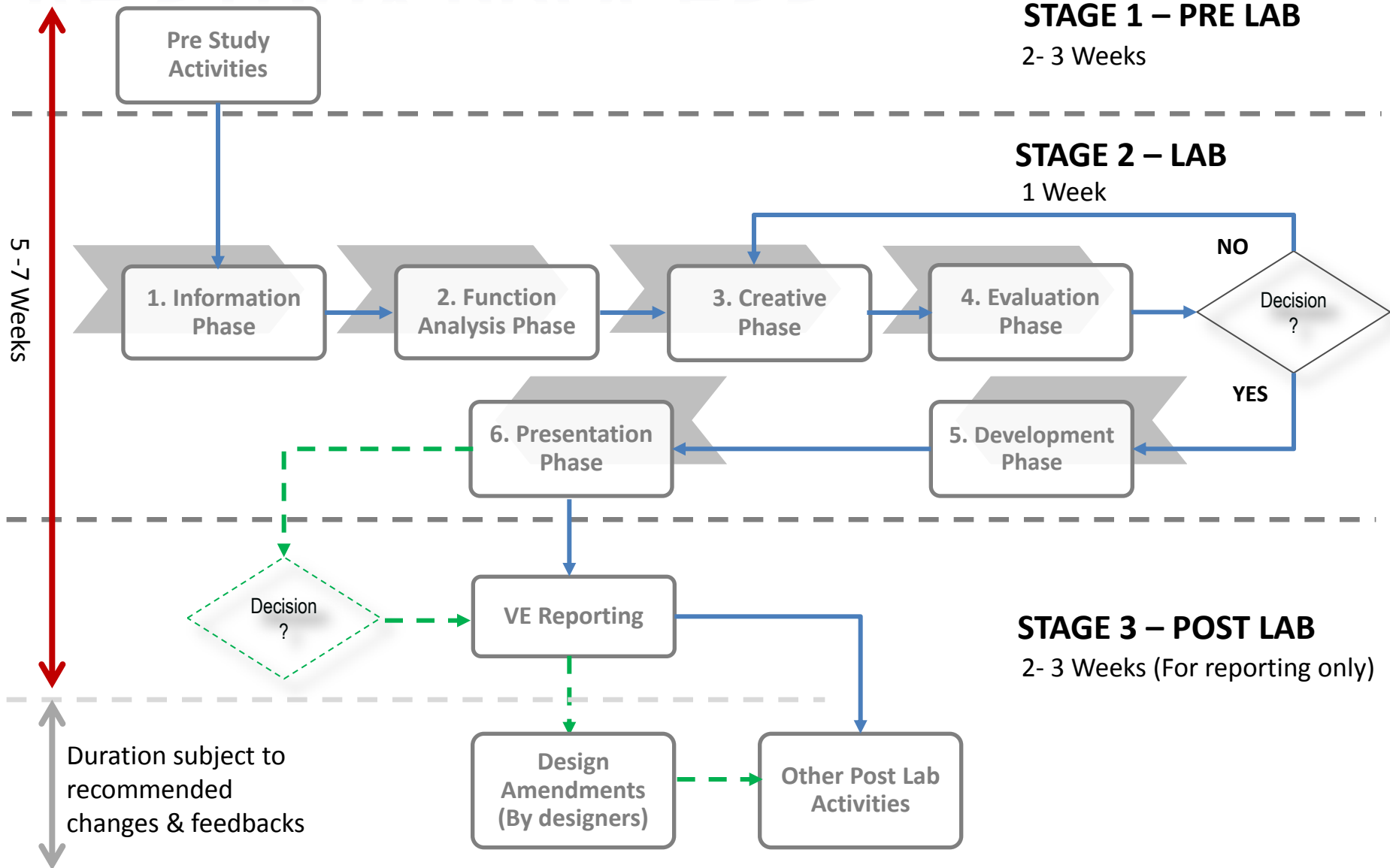
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(Sumber: Panduan Pelaksanaan Pengurusan Nilai, EPU - 2011)

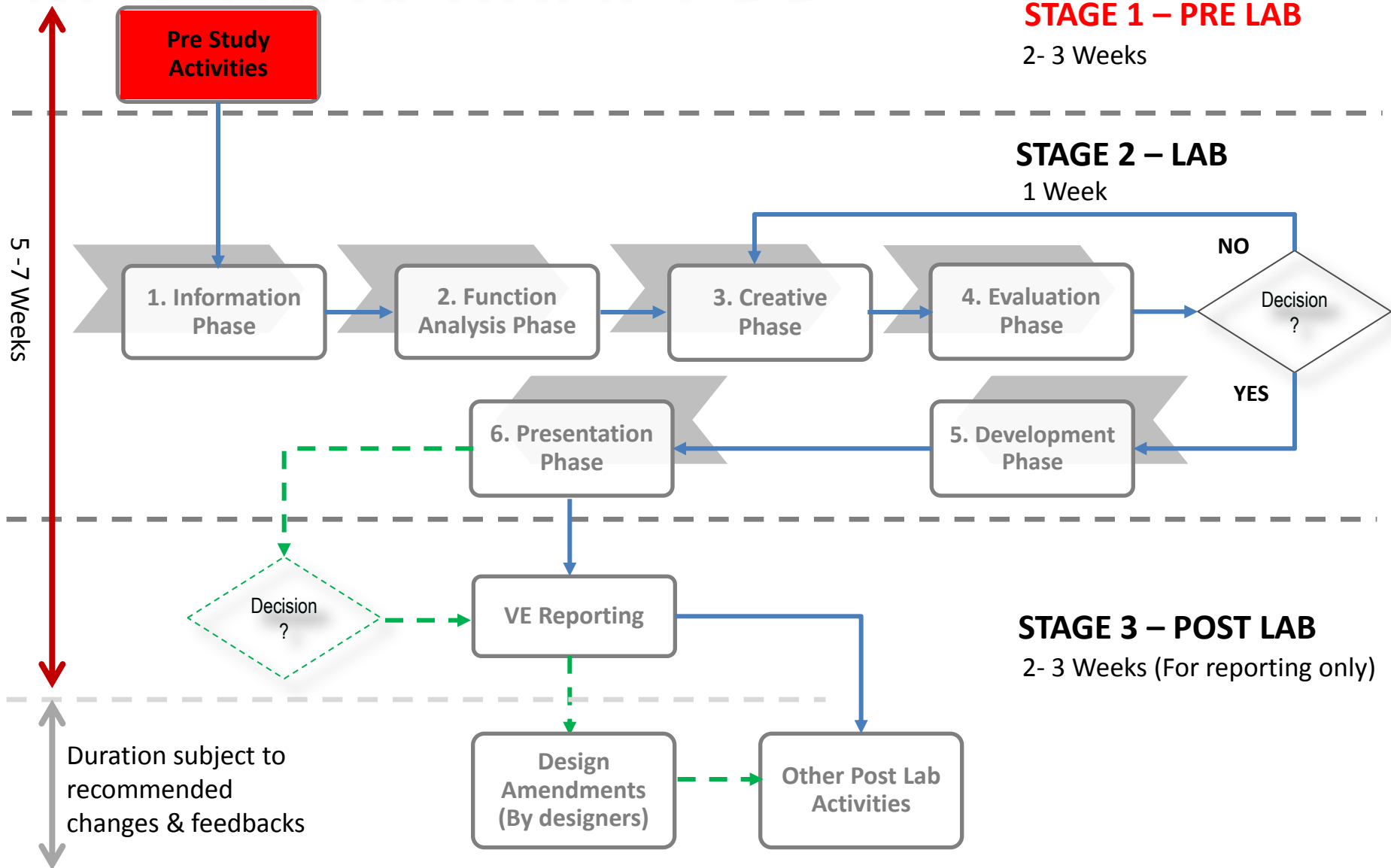


VE STUDY PROCESS



Sumber: VE application Guideline for Public Projects, JKR(2013)

VE STUDY PROCESS



Sumber: VE application Guideline for Public Projects, JKR(2013)

Pre Lab Stage (VE)...

Purpose:

- To check project readiness for VE Study
- To gather and synthesize project information
- To plan for VE Lab:
 - VE Study context and objectives are established
 - Project information is gathered & analysed
 - Lab agenda & logistics are organised

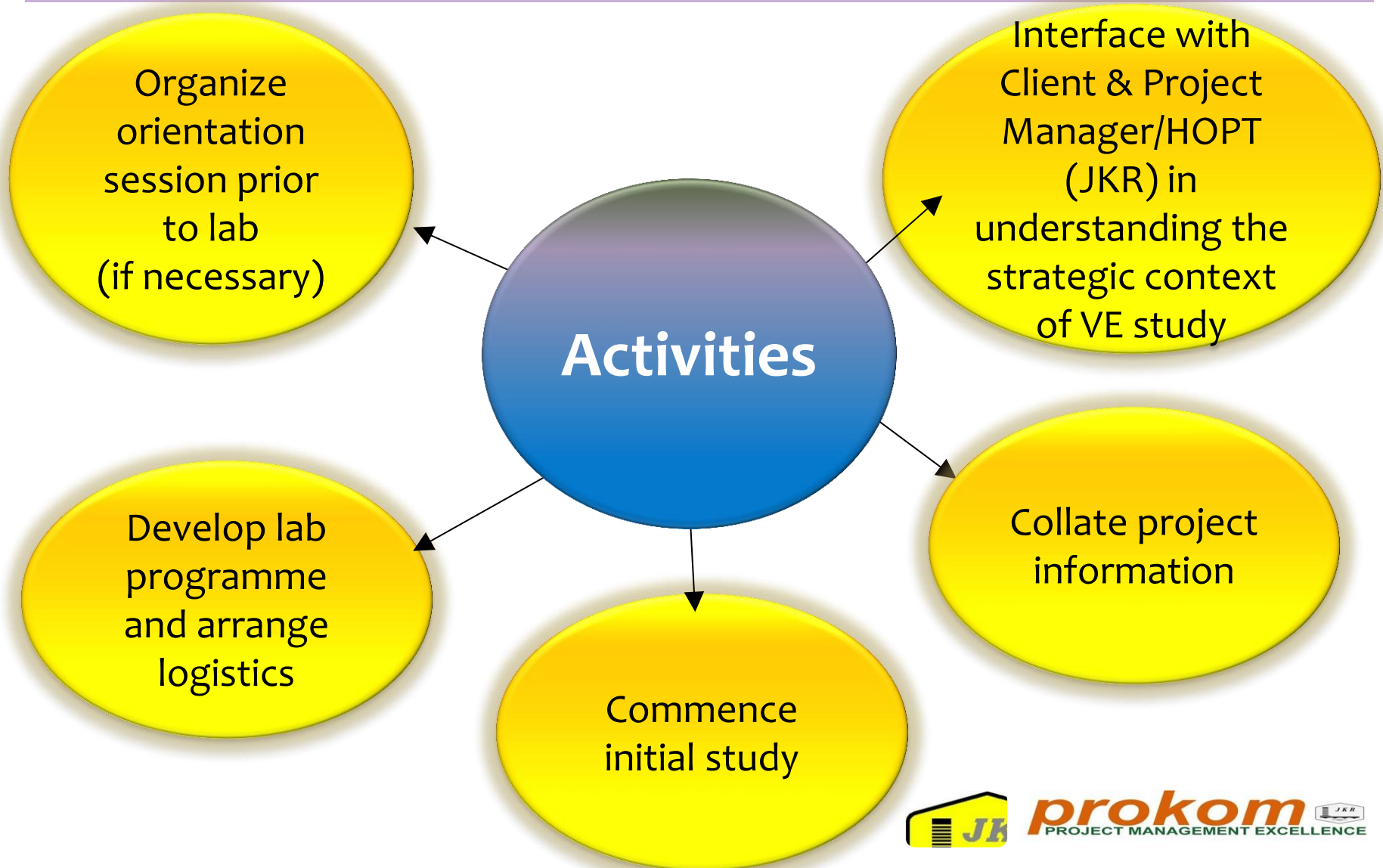


Pre Lab Stage (VE)...

What are the
activities / task /
tools & techniques
/ outputs /
outcomes?



(I) Pre Lab Stage (VE)



(I) Pre Lab Stage (VE)

ACTIVITY

- Interface with Client & Project Manager/ HOPT (JKR) in understanding the strategic context of VE study

TECHNIQUE

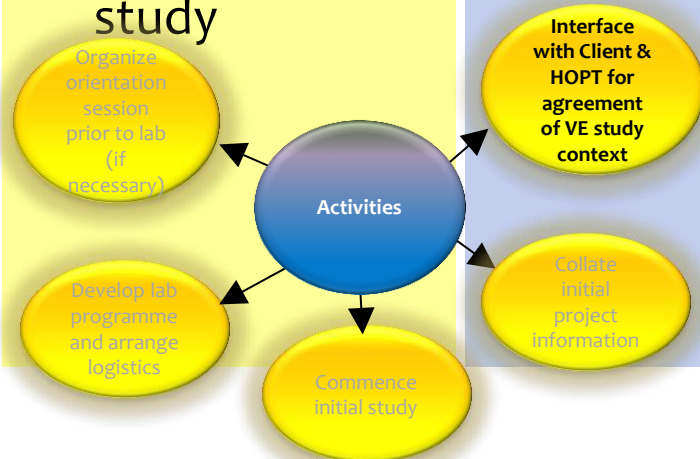
- Hold initial meeting / discussion with client

OUTPUT

- Borang Pra Syarat Pelaksanaan VE
- Record of agreement during initial meeting/ discussion

OUTCOME

- Clear direction of VE Study
- Client's support and commitment



(I) Pre Lab Stage (VE)

ACTIVITY

- Collate project information from Client/ HOPT/ HODT/ Authorities / Others

TECHNIQUE

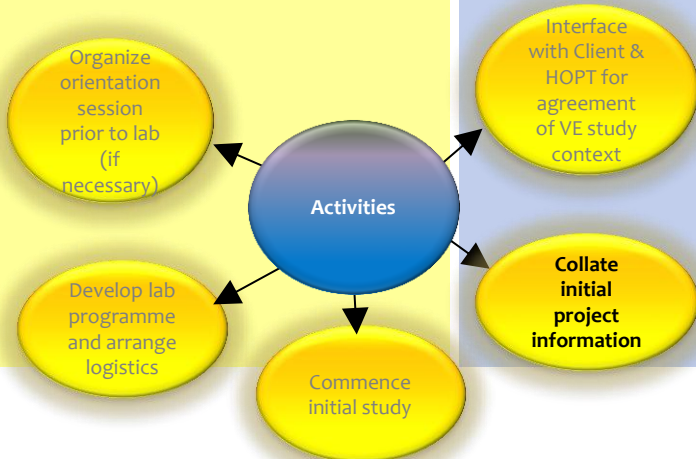
- Provide information & documents
- Collect relevant documents
- Analyze documents

OUTPUT

- Compilation of basic project information and documents

OUTCOME

- Clear understanding of project parameters



(I) Pre Lab Stage (VE)

ACTIVITY

- Commence initial study

TECHNIQUE

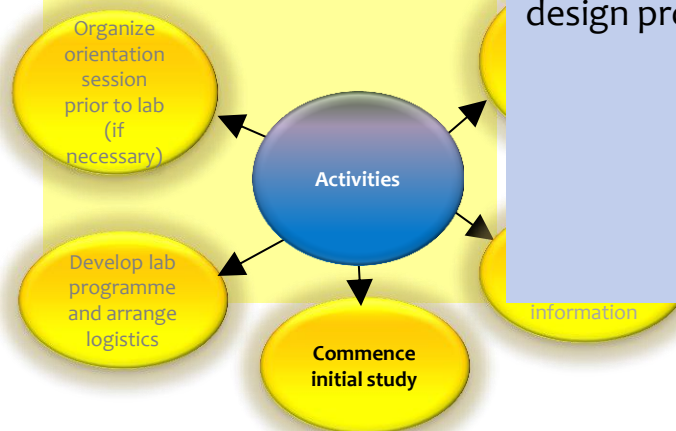
- Visit project site (if required)
- Study design proposal (drawings, specifications etc.)
- Verify Project Objectives
- Verify Project Functions
- Identify Client Value Systems
- Analyze Space Functions
- Analyze Cost Estimate
- Verify compliance of VA recommendation against design proposal

OUTPUT

- Site information
- Design information
- Verified Project Objectives
- Verified Project Functions
- Proposed Client Value Systems
- Proposed Space Model
- Proposed Cost Model
- Compliance/ Noncompliance against VA

OUTCOME

- Initial findings to facilitate lab execution
- Potential value improvement
- Clear understanding of project functions



(I) Pre Lab Stage (VE)

ACTIVITY

- Develop lab program and arrange logistics with Client/ HOPT

TECHNIQUE

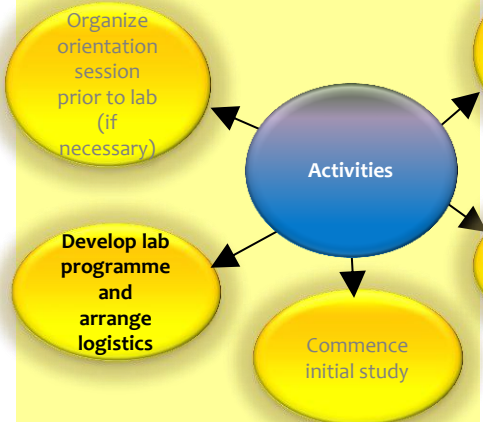
- Check comprehensiveness of information for VE Lab execution
 - Develop lab agenda
 - Identify and appoint facilitation team
 - Determine lab tools and techniques
 - Provide list of identified lab participants to Client/HOPT for invitation
 - Identify lab working groups
 - Communicate lab venue and logistics requirement to Client/HOPT
 - Prepare lab kit
 - Visit venue to confirm logistics

OUTPUT

- [Borang Senarai Semak Tindakan Pra Lab VE](#)
- Lab Agenda
- Appointment of external facilitators (from other SBUs)
- Suitable tools and techniques
- List of identified participants
- [Borang Penentuan Peserta Lab Kajian VE-A.C.I.D](#)
- Test Ensure invitation letters issued by HOPT
- Tentative working groups identified
- Ensure Lab venue and logistics confirmed by HOPT.

OUTCOME

- Well organized lab
- Efficient lab execution



(I) Pre Lab Stage (VE)

ACTIVITY

- Organize orientation session prior to lab

TECHNIQUE

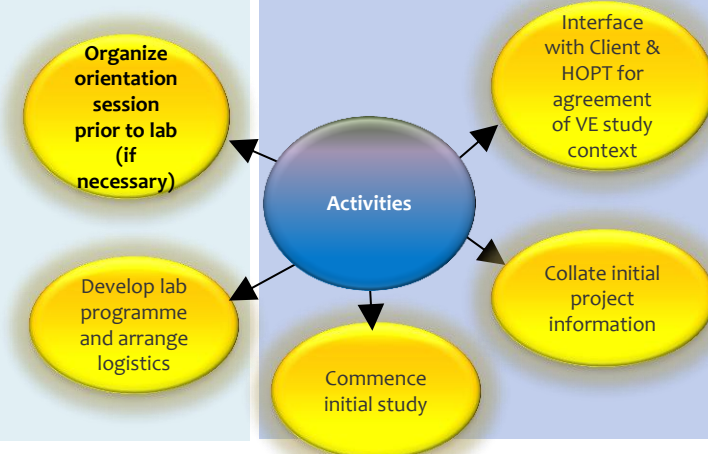
- Conduct pre lab meeting with project team
- Conduct briefing to facilitation team
- Conduct briefing to lab participants (if required)

OUTPUT

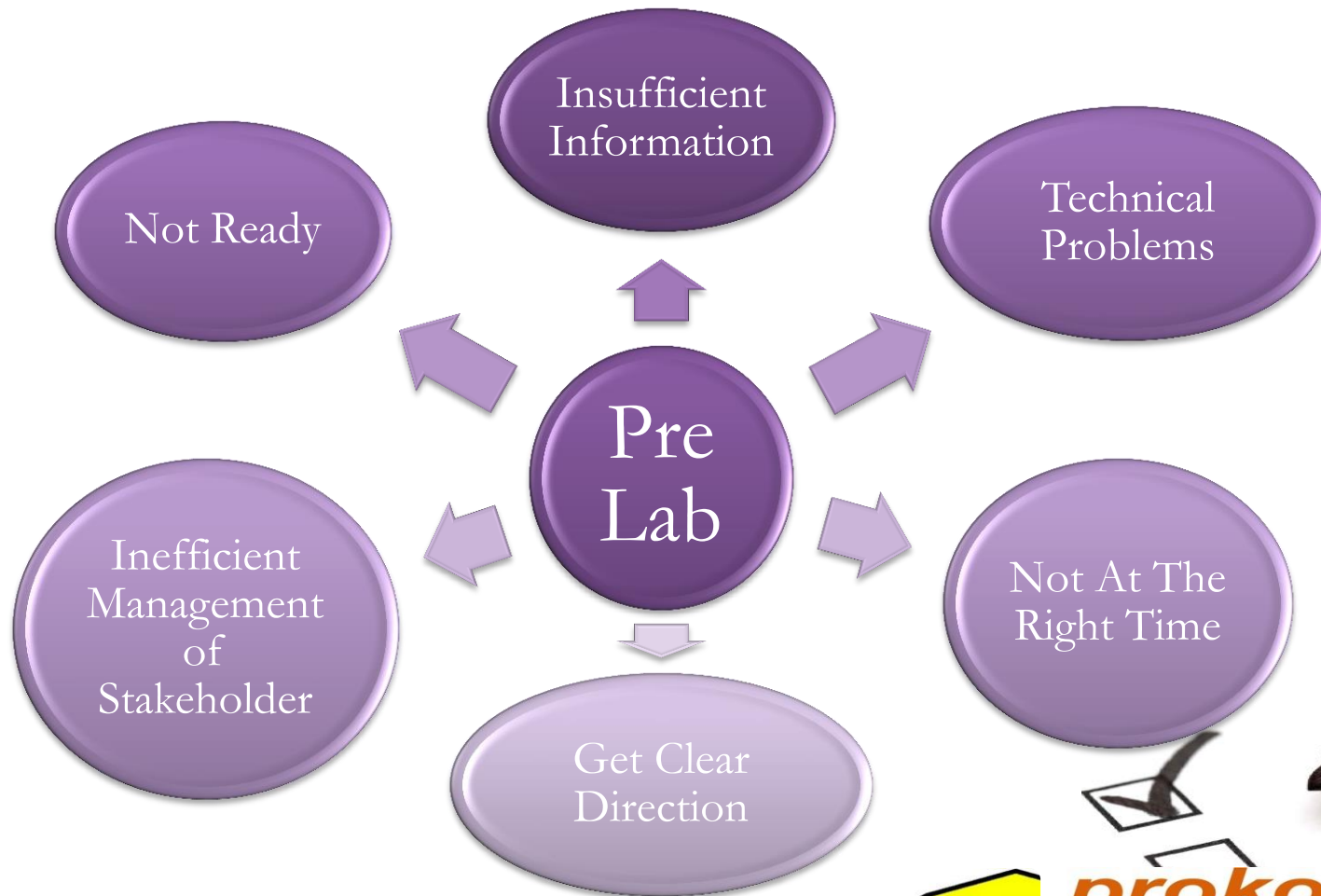
- Pre Lab meeting
- Briefing to facilitators
- Briefing to participants

OUTCOME

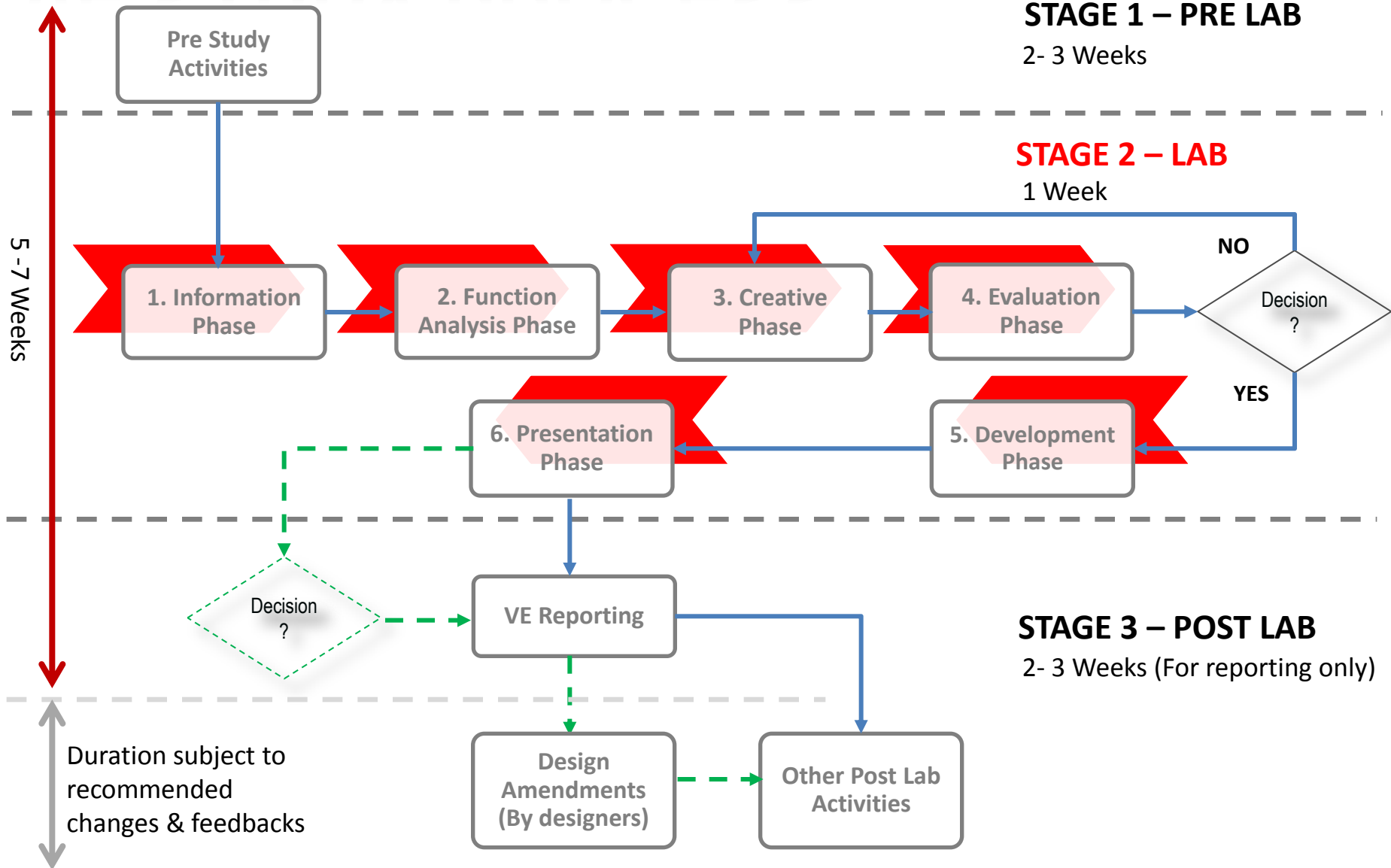
- Clear facilitation roles
- Increase of participants' commitment



Pre Lab Challenges

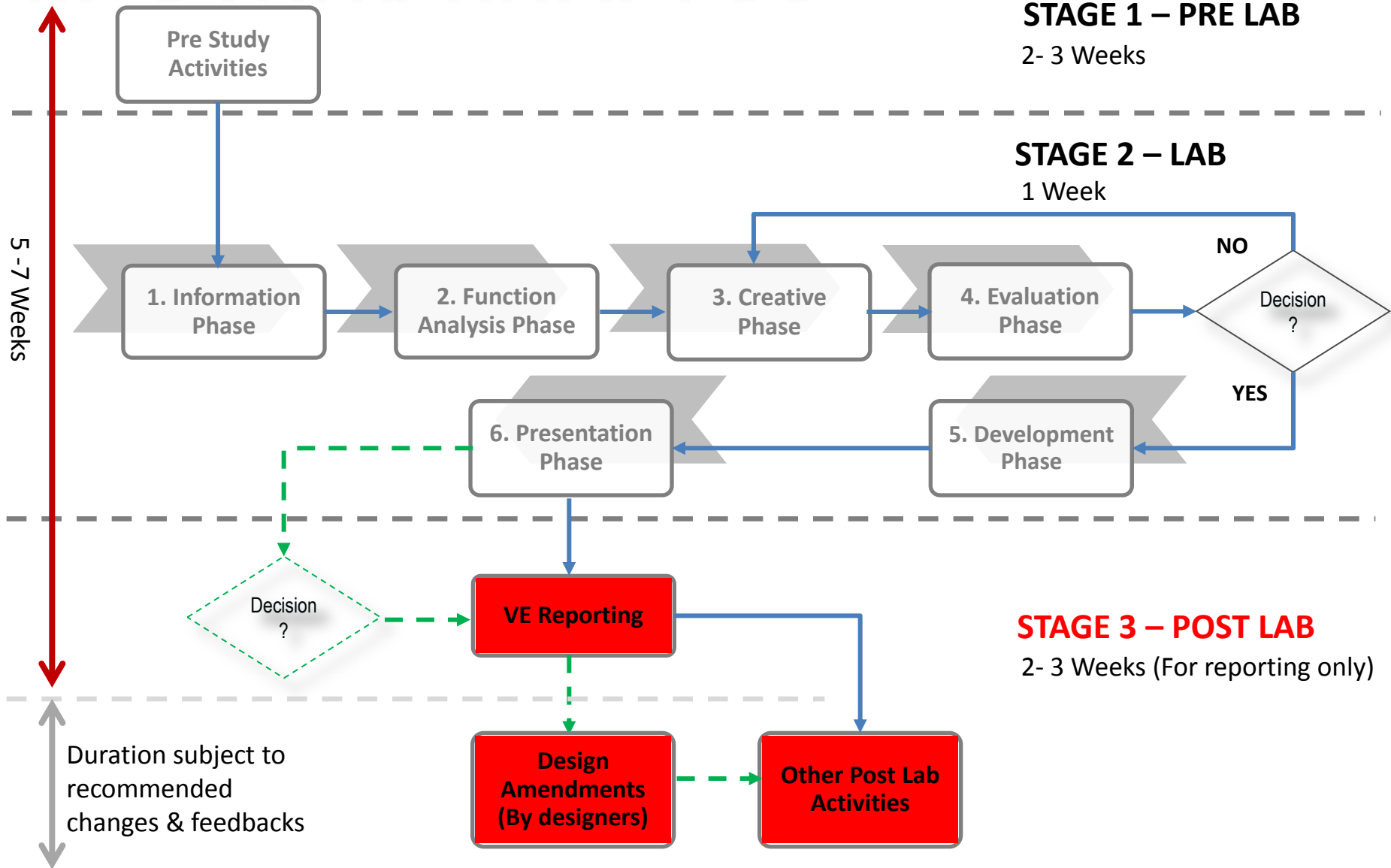


VE STUDY PROCESS



Sumber: VE application Guideline for Public Projects, JKR(2013)

VE STUDY PROCESS



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Post Lab Stage...

Purpose:

- To document, report and disseminate VE Study findings
- To translate VE recommendations into actions or expected value improvements
- To assess VE Study performance (on Action Plan and VE recommendations

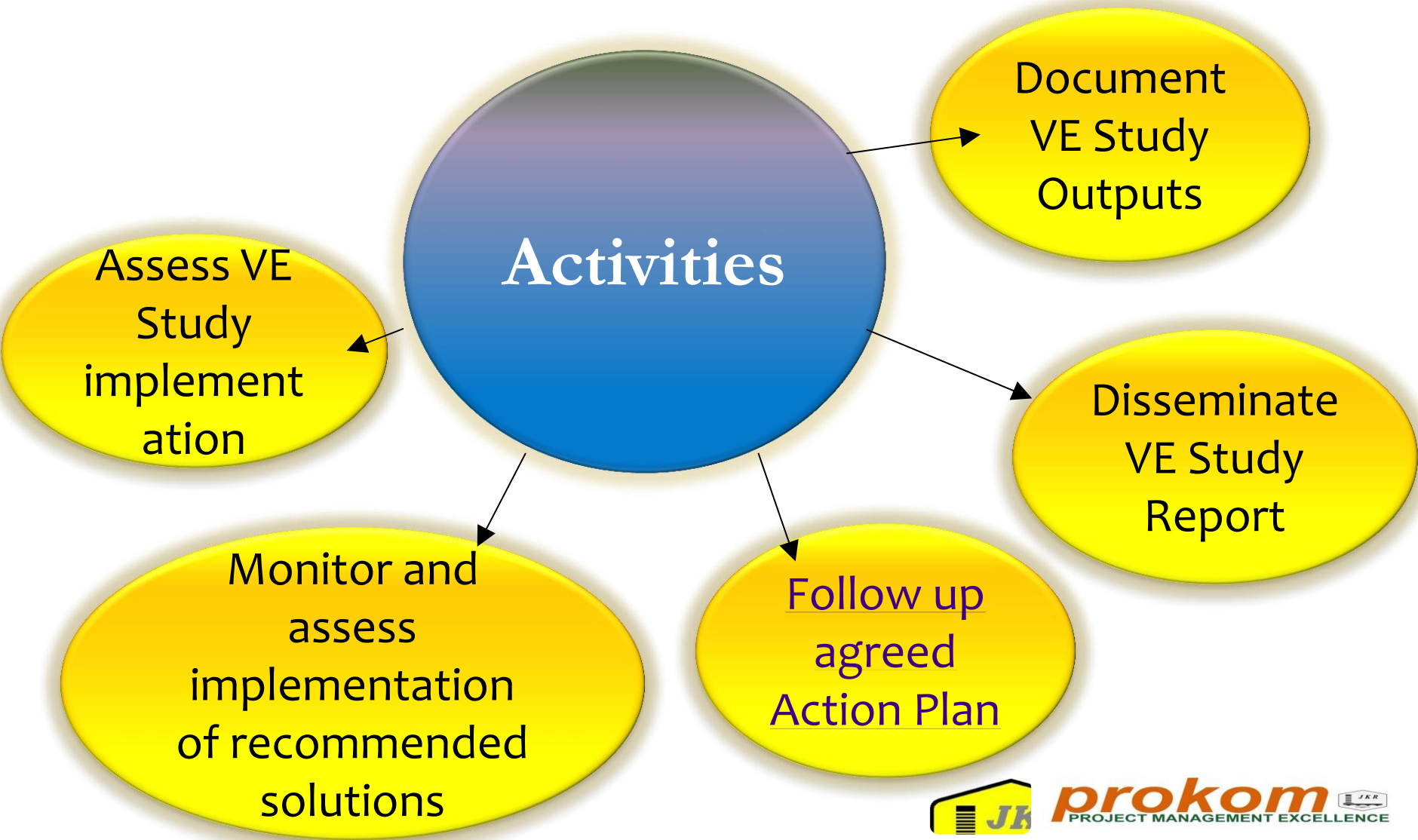


Post Lab Stage...



What are the activities /
task / tools & techniques /
outputs/ outcomes?

(III) Post Lab Stage (VE)



(III) Post Lab Stage (VE)

ACTIVITY

- Document VE Study Outputs

TECHNIQUE

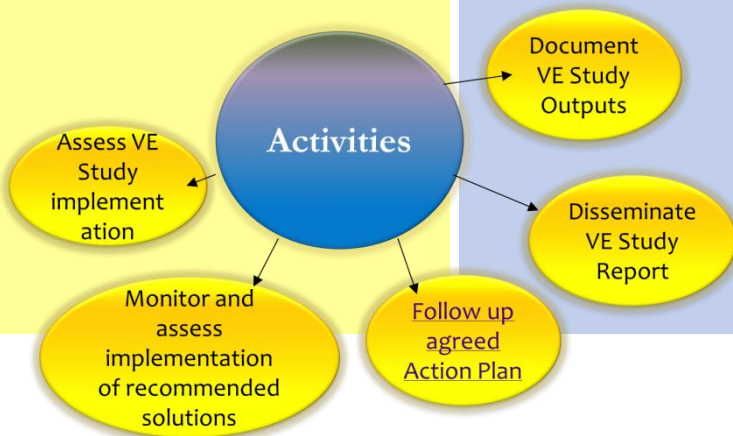
- Reporting
- Presentation
- Sign off

OUTPUT

- VE Study Report

OUTCOME

- Recorded Study findings



(III) Post Lab Stage (VE)

ACTIVITY

- Disseminate VE Study Report

TECHNIQUE

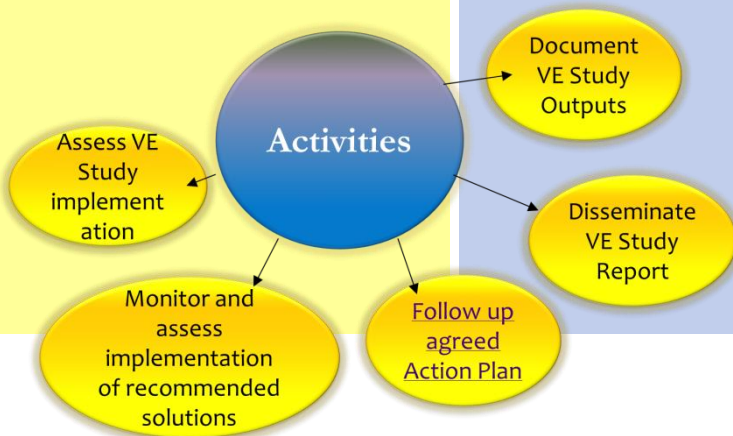
- Distribution

OUTPUT

- Disseminated VE Study Report

OUTCOME

- Study Findings Communicated



(III) Post Lab Stage (VE)

ACTIVITY

- Follow up agreed Action Plan

TECHNIQUE

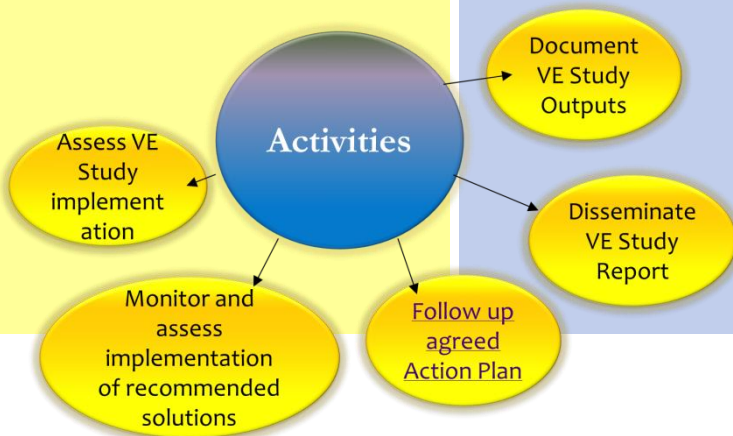
- Follow up status with HOPT and others as agreed in the Action Plan

OUTPUT

- Action Plan status report to client and HOPT

OUTCOME

- Timely and maximum implementation of VE recommendations



(III) Post Lab Stage (VE)

ACTIVITY

- Monitor and assess implementation of recommended solutions

TECHNIQUE

- Develop monitoring plan and monitor implementation

OUTPUT

- Monitoring Report to client and relevant parties

OUTCOME

- Fullfill VE Lab Recommendations



(III) Post Lab Stage (VE)

ACTIVITY

- Assess VE Study implementation

TECHNIQUE

- Assess overall implementation of VE Study and report to client and relevant parties

OUTPUT

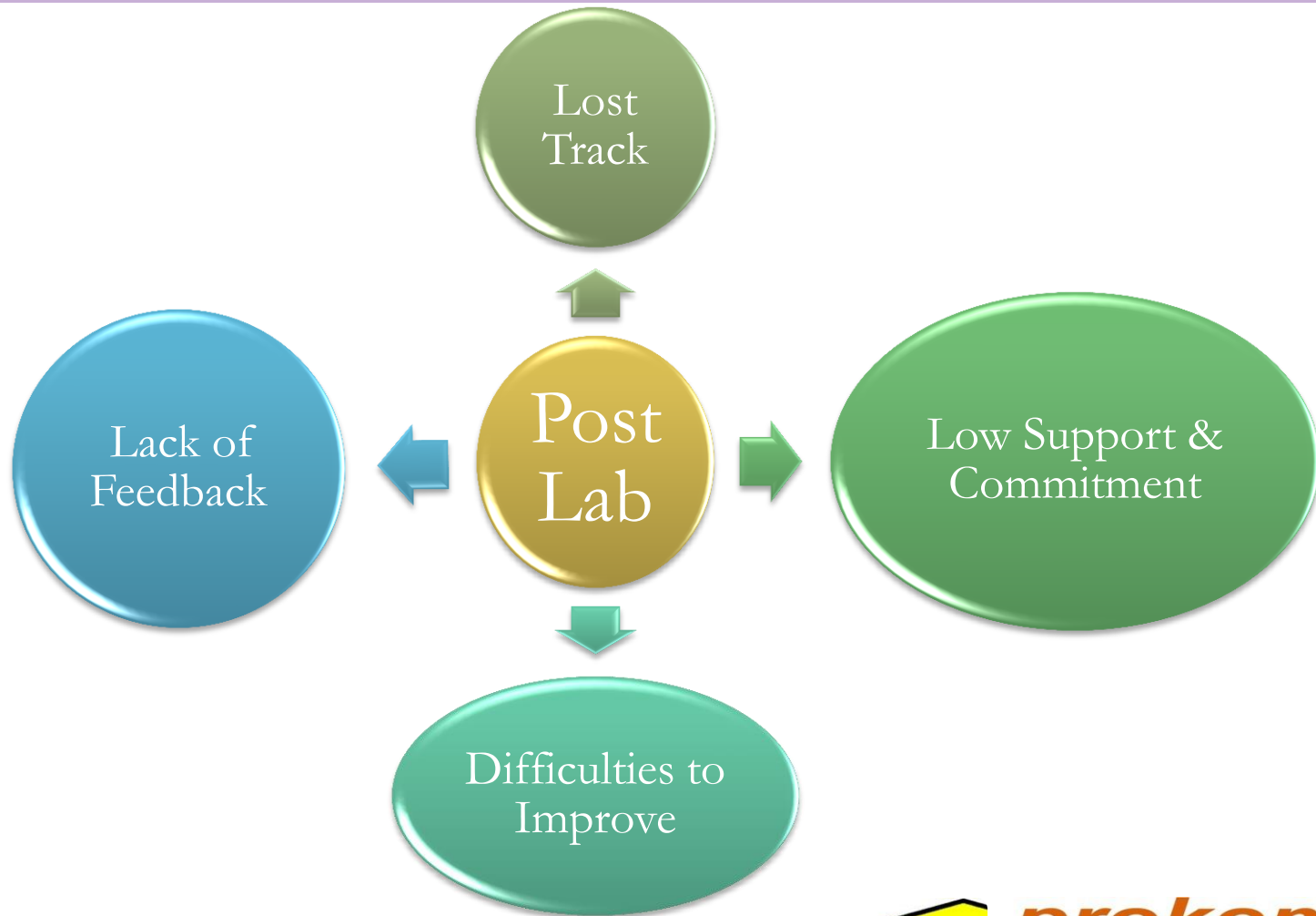
- VE Study implementation (close-out) report

OUTCOME

- Continuous improvement on VM Study implementation



Challenges of Post lab



VM Body of Knowledge



1

**VM Opportunities or
VM Interventions**



2

**VM Study Process
or VM Job Plan**



3

**VM Workshop or
Lab Process**





SAMPLE

LAB AGENDA



AGENDA LAB VA (4 DAYS)

Date	Session	
	Morning	Afternoon
	8.30 am - 1.00 pm	2.30 - 5.30 pm
– April – 2014 (Tuesday)	Registration, Lab Briefing & Information Phase	Information Phase (Group work)
– April – 2014 (Wednesday)	Function Analysis Phase (Group work)	Creative Phase & Evaluation Phase (Group work)
– April – 2014 (Thursday)	Development Phase (Group work)	Development Phase (Group work)
– April – 2014 (Friday)	Development Phase (Consolidation)	Presentation Phase (Summary)

AGENDA (DAY 1)

2014 (TUESDAY)

MORNING

(1) INFORMATION PHASE

- Arrival & Participants Registration (All participants)
- Introduction & Team Building (All participants)
- Confirm VE Study Objectives (Facilitators)
- Review Compliance of VA Lab Report (HOPT/Facilitators)
- Present Project Background Information:
 - Client Brief / Needs (Client / HOPT)
 - Project Work Programme (HOPT)
 - Present Risk Register (HOPT)
- Present Design Proposal (Consultants / HODTs)
- Highlight Authorities Requirements (Authorities)
- Validate Project Objectives (Facilitators)
- Establish Cost Model (HOPT / HODT-QS)
- Validate Client Value System (Facilitators / Client)

AFTERNOON

- VE Study Grouping (Facilitators)
- Determine Project Parameters – Information Phase Template (Groups)
- Presentation (Groups)



AGENDA (DAY 2)

2014 (WEDNESDAY)

MORNING

(2) FUNCTION ANALYSIS PHASE

- Analyze Functions for Spaces/Elements/Components - **Function Analysis Template – Sheet 1** (Groups)
- Analyze Process Flows / Operations & Space Adjacency - **Function Analysis Template – Sheet 2**
- Presentation (Groups)

AFTERNOON

(3) CREATIVITY PHASE

- Generate Ideas – **Creativity Phase Template** (Groups)
- Presentation (Groups)

(4) EVALUATION PHASE

- Categorize generated ideas for shortlisting (“Evaluate Ideas”) – **Evaluation Phase Template** (Groups)
- Presentation & Consensus (Groups)



AGENDA (DAY 3)

2014 (THURSDAY)

MORNING

&

AFTERNOON

(4) DEVELOPMENT PHASE

- Develop Evaluated Ideas - Development Phase Template (Groups)
- Recommend Ideas & Findings (Groups)
- Presentation & Consensus (Groups)



AGENDA (DAY 4)

2014 (FRIDAY)

MORNING

(4) DEVELOPMENT PHASE (Continue)

- Consolidate Lab Templates & Findings (Facilitators)
- Review Programme of Work (HOPT)
- Review Project Risk Register (HOPT)
- Develop Action Plan (Facilitators / Client / HOPT)

AFTERNOON (5) PRESENTATION PHASE

- Present Lab Findings (Facilitators)
- Present Initial Draft Report (Facilitators)



Thank You!



prokom
PROJECT MANAGEMENT EXCELLENCE

