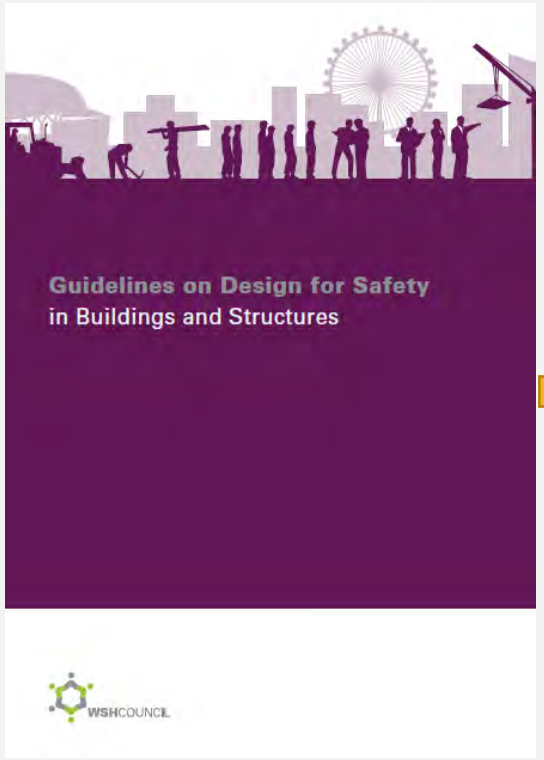
HDB DFS SEMINAR - 15 AUG 2017

DFS EXPERIENCE & CHALLENGES OF DFSP

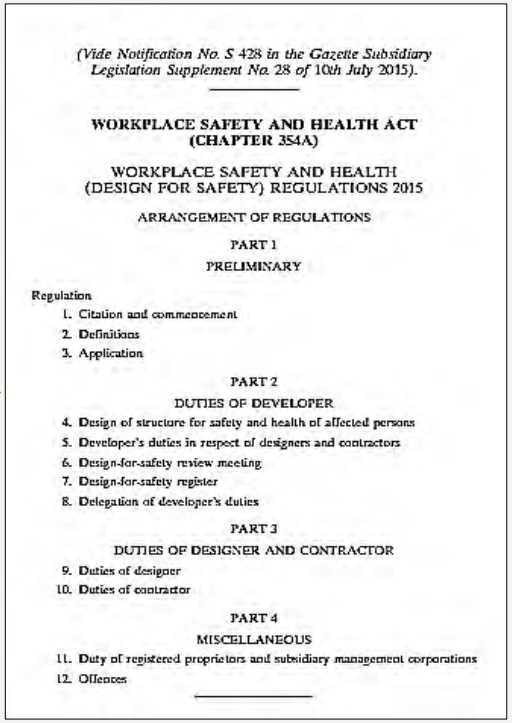
ER. NG LEE CHIAN

In 2008/2011…



DfS Guidelines

In 2015…



(Vide Notification No. S 428 in the Gazette Subsidiary Legislation Supplement No. 28 of 10th July 2015).

WORKPLACE SAFETY AND HEALTH ACT (CHAPTER 354A)

WORKPLACE SAFETY AND HEALTH (DESIGN FOR SAFETY) REGULATIONS 2015

ARRANGEMENT OF REGULATIONS

PART 1

PRELIMINARY

Regulation

1. Citation and commencement
2. Definitions
3. Application

PART 2

DUTIES OF DEVELOPER

4. Design of structure for safety and health of affected persons
5. Developer's duties in respect of designers and contractors
6. Design-for-safety review meeting
7. Design-for-safety register
8. Delegation of developer's duties

PART 3

DUTIES OF DESIGNER AND CONTRACTOR

9. Duties of designer
10. Duties of contractor

PART 4

MISCELLANEOUS

11. Duty of registered proprietors and subsidiary management corporations
12. Offences

WSH (DfS) Regulations

In 2016…



WSH (DfS) Guidelines

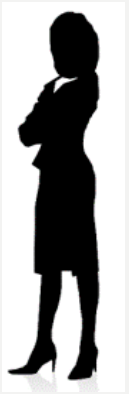
WHAT IS DESIGN FOR SAFETY?

It means reducing safety and health risks through good design.

- ✓Earliest opportunity to incorporate SAFETY
- ✓Greatest impact for SAFETY
- ✓Collective & conscious decisions by stakeholders about design, construction, operation, maintenance and materials used to enhance SAFETY

All key Stakeholders have important roles to play in the Design Review process.

Developer



DfSP

Designers

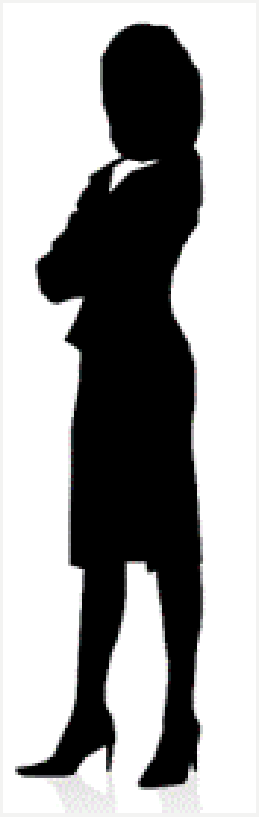


DfS Review Meeting

Contractors

Safety Coordinator

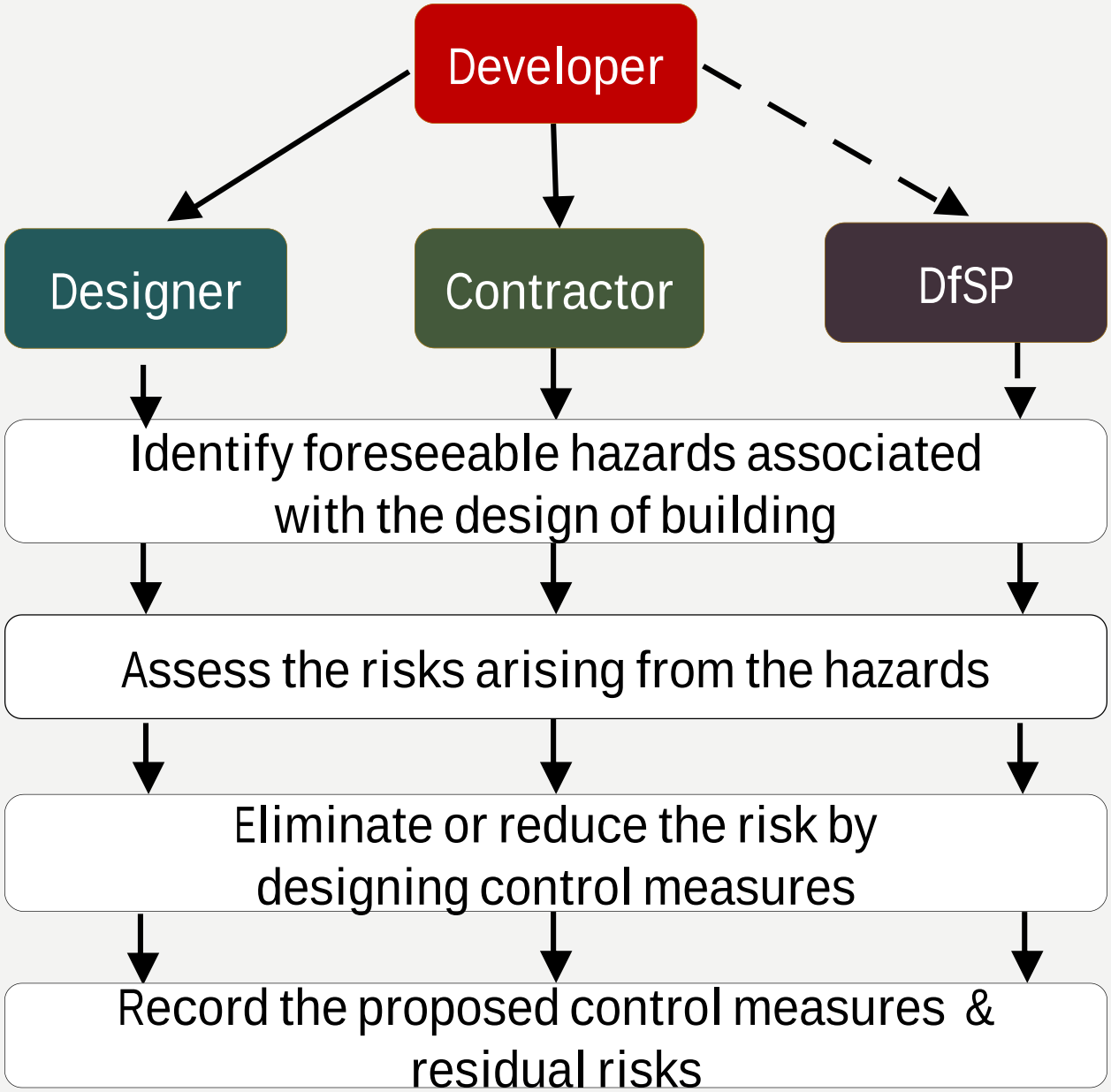
Safety Auditor



CRA Reviewer

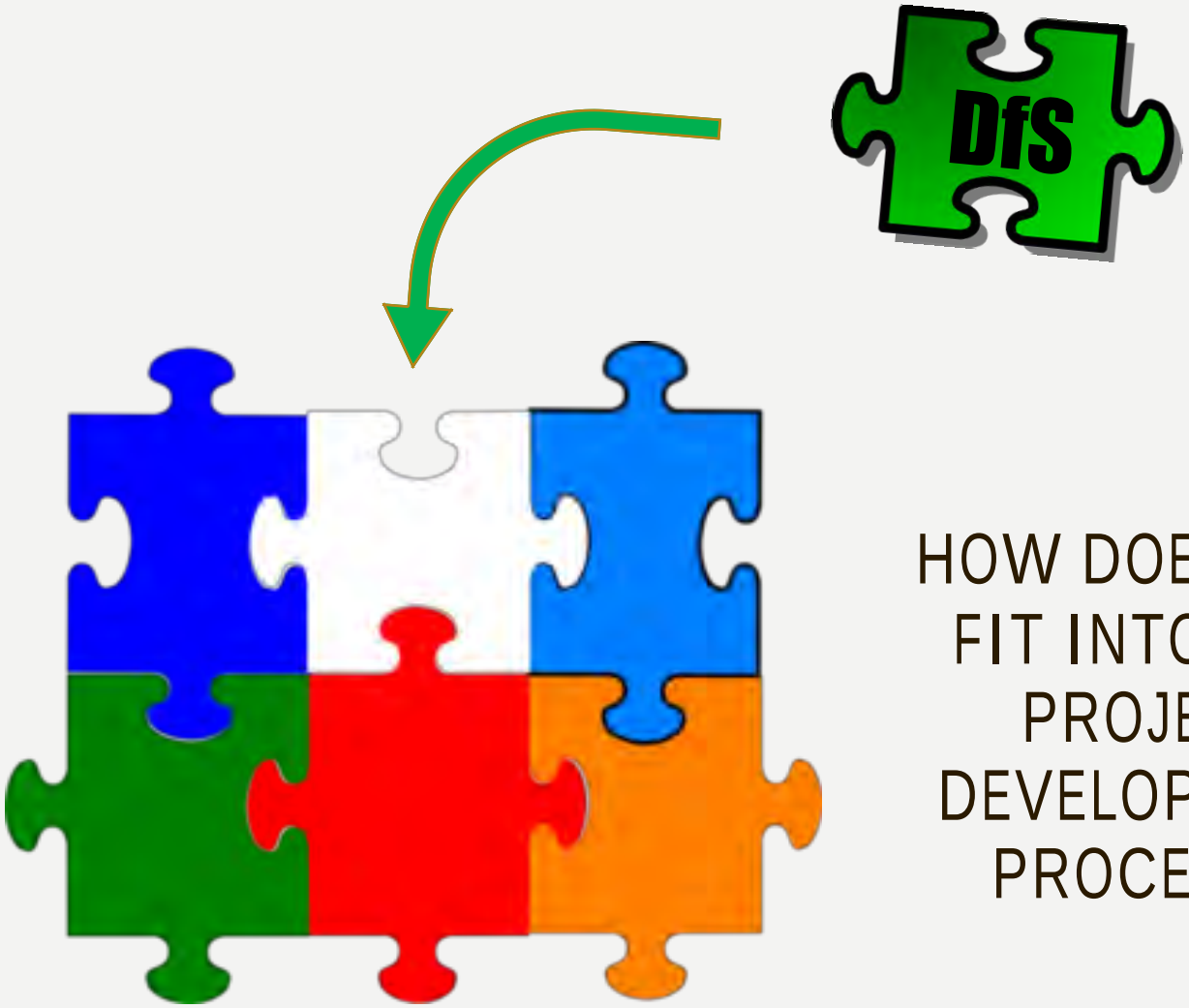
"Master Designer"

DfSP ?


Developer
Designer
Contractor
DfSP
Identify foreseeable hazards associated with the design of building
Assess the risks arising from the hazards
Eliminate or reduce the risk by designing control measures
Record the proposed control measures & residual risks

WHAT ARE THE CHALLENGES AS A **DFSP**?



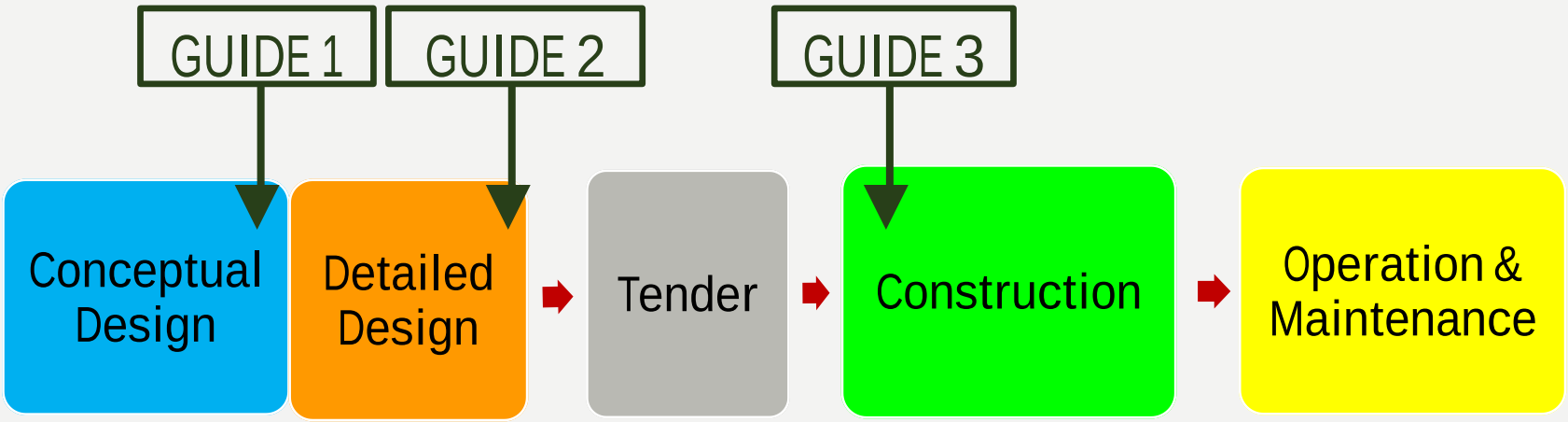


HOW DOES **DFS** FIT INTO OUR PROJECT DEVELOPMENT PROCESS?

CHALLENGES…

1) Implementing DfS Reviews

✓Inserting the GUIDE Process into the project schedule

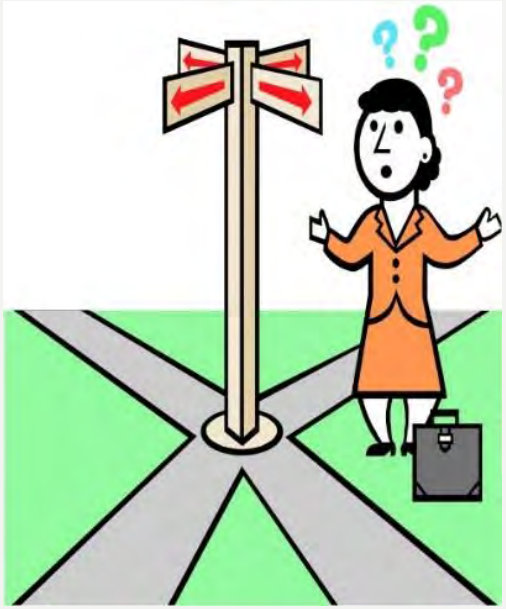


GUIDE PROCESS - RECOMMENDED IN WSH (DFS) GUIDELINES

CHALLENGES…

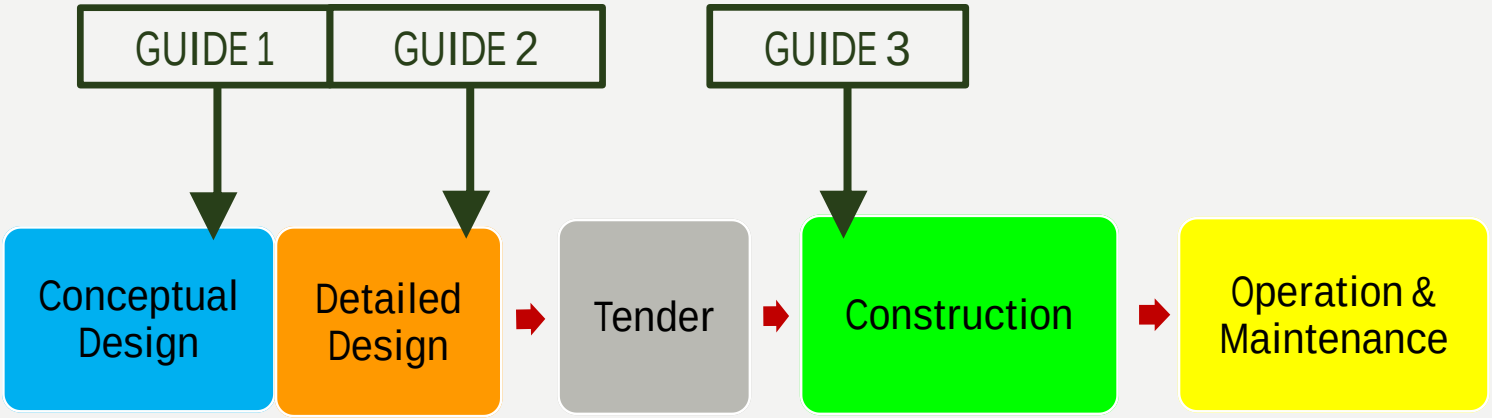
1) Implementing DfS Reviews

✓Team members unclear of what is Design for Safety (DfS) and their roles & responsibilities



CHALLENGES…

2) Scoping the GUIDE sessions



Contractual arrangement



Design progress

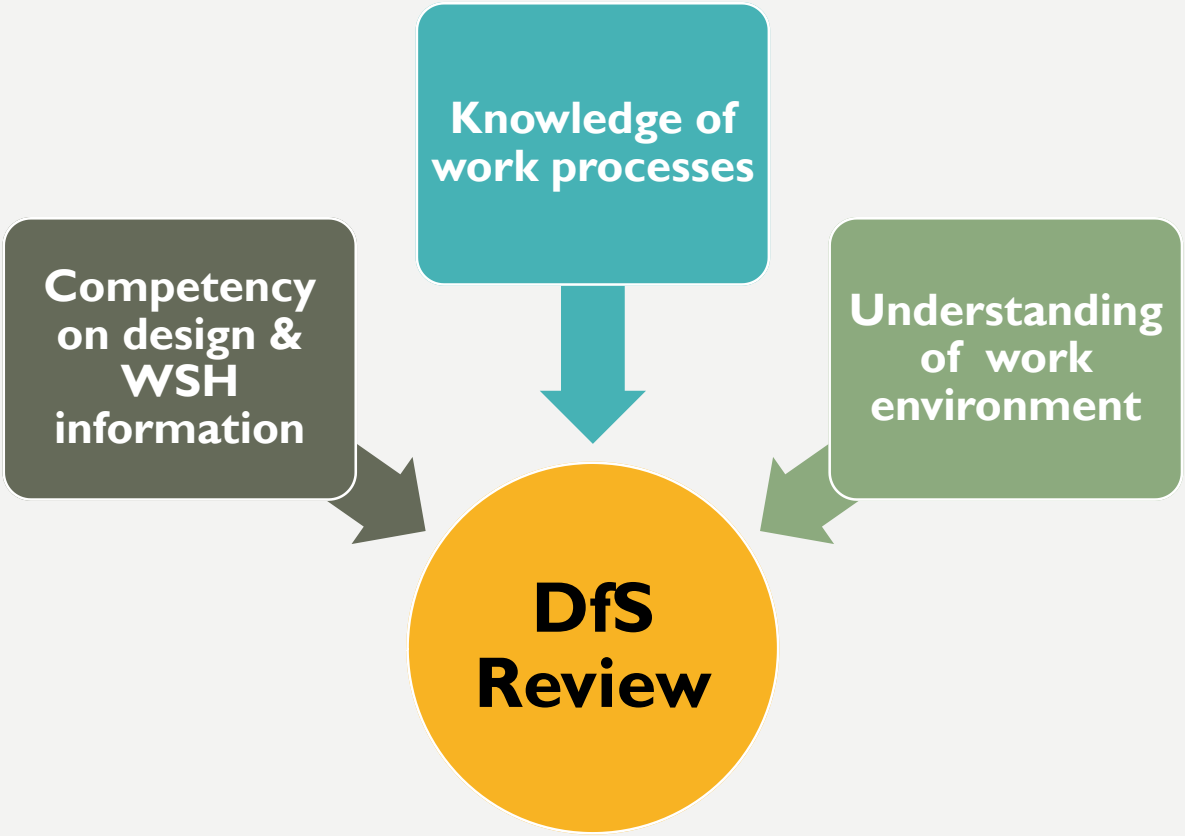


CHALLENGES…



3) Facilitating the GUIDE sessions

✓Getting the right people involved



CHALLENGES…

3) Facilitating the GUIDE sessions

✓Setting the direction

Developer goals & Objectives

Project Budget & Timeline

Site Characteristics

Standard Design Practices



Construction Practices

Building Codes

Regulatory Requirements

CHALLENGES…

3) Facilitating the GUIDE sessions

✓Motivating Stakeholders to contribute proactively & constructively



DESIGN FOR SAFETY IS NOT JUST **ABOUT…**

- Appointing a DfSP
- **Going through** ‘DfS **Review’ meetings**
- **Recording** ‘DfS **Review’ meetings**

TAKE AWAY…

- DfS is an integral part of any projects and it can flow seamlessly along with the whole project development process if managed effectively.

- Design processes are complex and intertwine and design hazards should be reviewed holistically for higher productivity.

- DfS is effective when Developer, Designers and Contractors are proactive and serious in identifying and addressing the hazards in the design


THANK
YOU!