

FINAL REPORT ECAP20

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OUTLINE



WORKSHOP OUTCOME

- ZEB Family
- Key Takeways

ISSUES AND CHALLENGES

- Issues / Current Situation
- Challenges and Barrier

PLAN

- Future Plan

WORKSHOP OUTCOME

ZEB Family

PLAN

- Comprehensive policy in place to drive and spur the implementation of the ZEB agenda
- Good promotions strategy



PROJECT

- Important of demonstration project
- Eye opener



EDUCATION

- Intensive training to building designers and engineers on the ZEB concept
- Awareness of the ZEB concept



SUCCESS

- Good support from the Government. Eg financial, development of simulation tools
- A lot of country expert to assist in this initiative



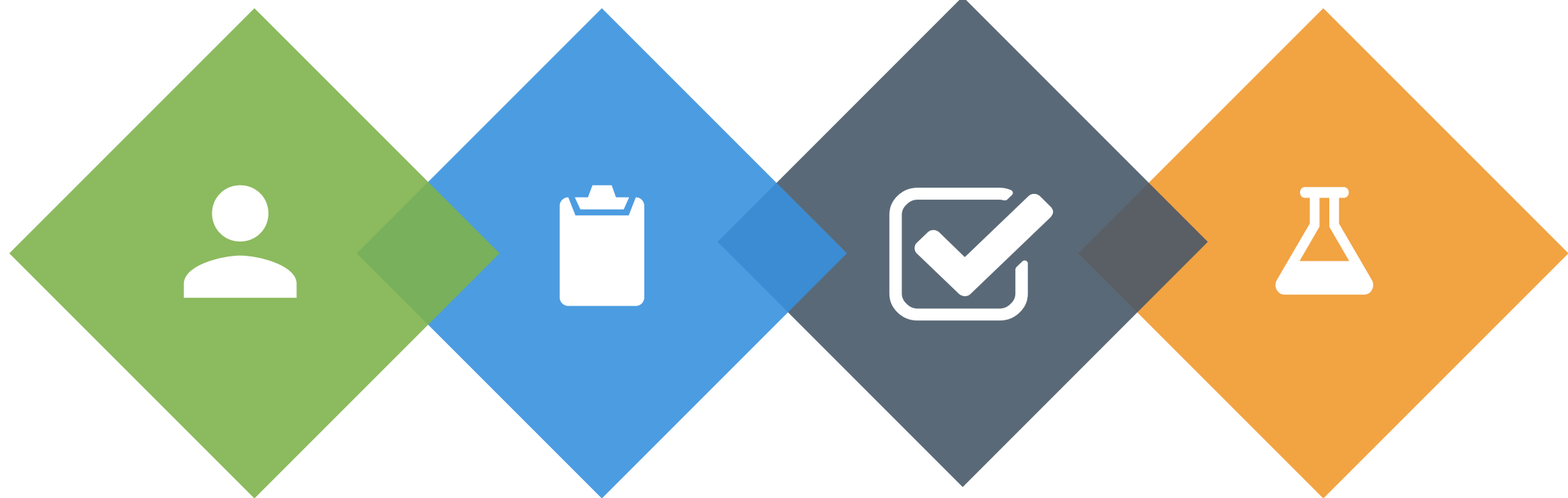
INTRODUCTION

- Definition of ZEB
- Criteria of the ZEB concept
- Understanding of BEC/GBC and building regulation in Japan



WORKSHOP OUTCOME

Key Takeaways



Authority

To have a dedicated agency/ authority to championing ZEB initiative

Data

Data gathering is vital to understand current condition for the building sector

Benchmarking

Data analysis to introduce benchmark system which can be separated to 3 elements eg types, index and level to be aimed

Technology

New technology in place in order to support the achievement of the ZEB initiative

WORKSHOP OUTCOME

Key Takeaways



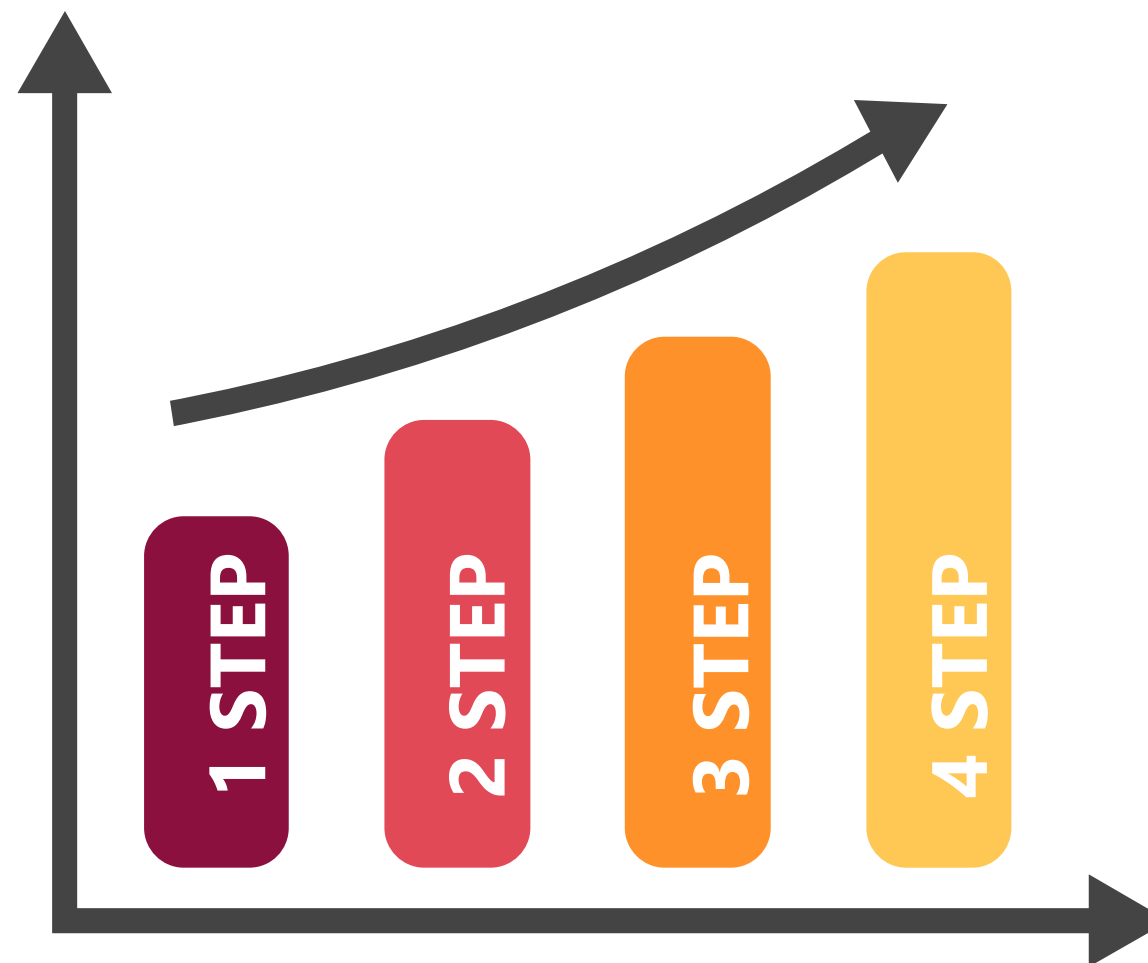
STARTUP

- Focus on energy conservation.
- Enhance the awareness
- Minimize the load. E.g. Enhance the cooling insulation



EQUIPMENT

- Focus on Energy Efficiency
- Introducing high efficiency systems



SOURCE OF ENERGY

- Utilizing renewable energy



RESULT

- Achieve low energy building / ZEB



ISSUES AND CURRENT SITUATION

Information

- Lack of awareness and dissemination of ZEB Family concepts
- Lack of knowledge, definition of ZEB
- Confusing between Green Building and ZEB

1

Coordination

- Lack of coordination among government agencies who involved directly or indirectly to ZEB
- No direction from the government on ZEB

2

Implementation

- Lack of promotion and recognition on ZEB
- Lack of motivation by the developer to implement ZEB
- No incentive in place specifically in ZEB

3



CHALLENGES AND BARRIERS

To increase promotion and awareness to the people and industry

Separate ministry handling different energy sector (MESTECC, MoW, Ministry of housing and Local Gov)

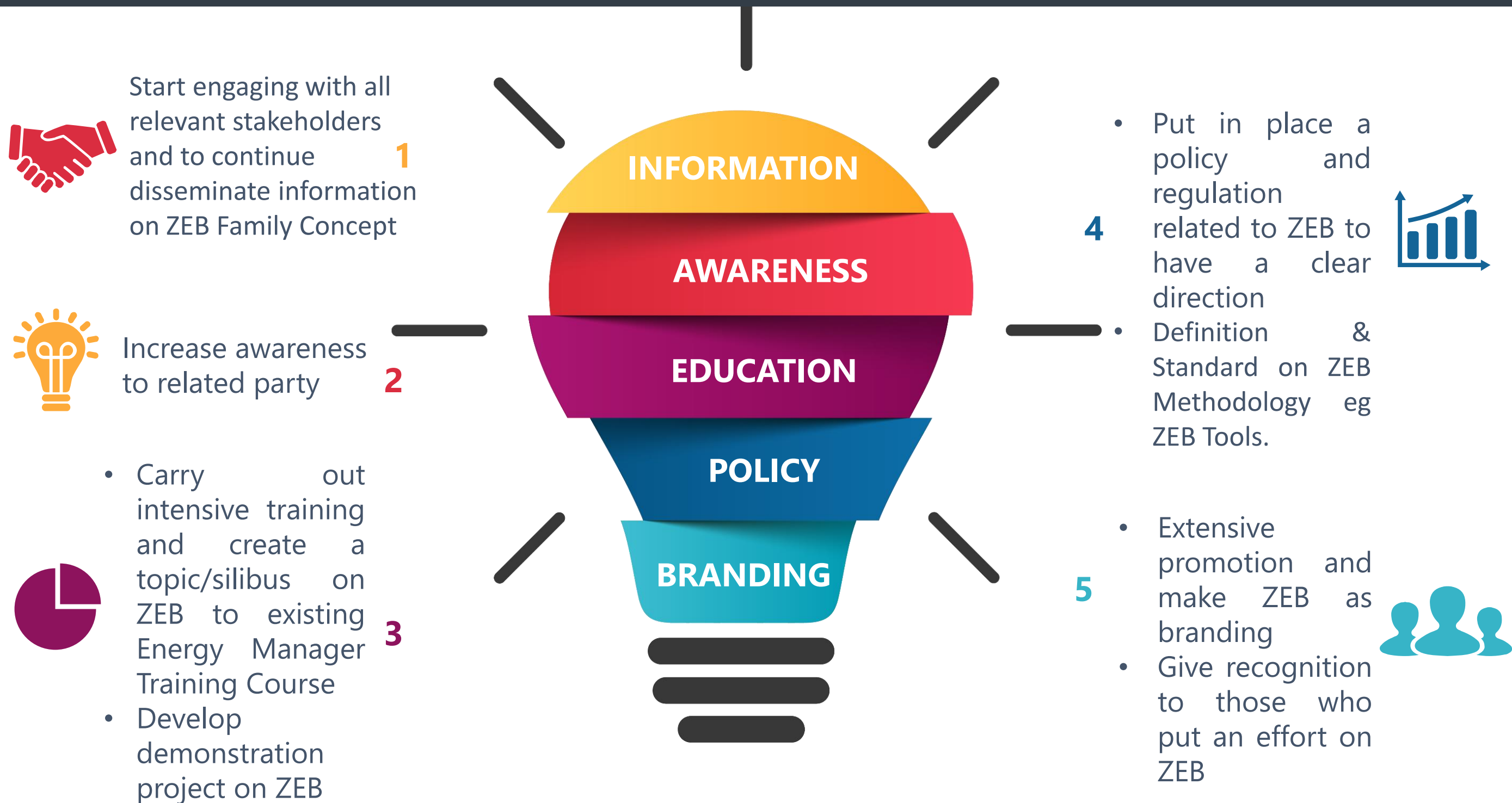
Technology

Lack of technical expert which is specialise in ZEB

High Cost for implementing ZEB

No dedicate Act to govern EE Building in Malaysia

FUTURE PLAN



ACTION PLAN

ISSUES	WHO	TO WHOM	DO WHAT	HOW	BY WHEN / IMPACT	PROGRESS
Awareness & Dissemination	MESTE CC	Agencies: - SEDA, MGTC	Promotion of ZEB	Engagement with relevant gov. agencies & industry	Clear on ZEB concept. - To organise ZEB Seminar in 18 th Oct 2018 in KLCC. Planning: - ZEB Seminar on Feb 2020	- Briefing to Local selected Authorities - DONE.
Definition & Standard on ZEB Methodology	MESTE CC	Department of Standard (DSM), SEDA, MGTC	Explore & possible adoption of ZEB Methodology	Coordinate & create WG Committee	Available ZEB Methodology & Definition for Malaysia. - 2019: Collaboration with ASEAN Centre of Energy.	- Early communication with accredited body (SIRIM) has started in Sept 2018.
To have coordination among agencies	MESTE CC	Government agencies & industry players	Stakeholders engagement	- Focus Group Discussion (FGD). - Strategic workshops	Common understanding and roles. 2019 : 2 nd FGD.	1 ST FGD DONE IN MAC 2018

Disclaimer : This action plan is a preliminary proposal and subject to acceptance by the Government of Malaysia

ACTION PLAN

ISSUES	WHO	TO WHOM	DO WHAT	HOW	BY WHEN / IMPACT	PROGRESS
Need Direction	MESTECC, KKR, KPKT (Ministries)	Relevant government agencies	Propose ZEB Program for consideration. - To have clear policy direction to support low and carbon neutral target	- To use the agencies – ministry discussion platform, presentation to the Minister.	ZEB program will be mainstream in low carbon development 2018: SEDA to present	- Early communications with senior management of Ministry.
Need promotion & recognition	MESTECC	Agencies	Create recognition / award program	- Adoption ZEB assessment under the existing low carbon development program (EE, RE, NEM, LCCF). - Propose new award category under NEA (National) & Asean Energy Award (International).	ZEB Program established & able to motivate building owners. 2019: - NEA - AEA	Progress: - SEDA had started the ICB / ZEB Facilitation Program. - ACE/ECCJ/J ASE-W are currently in progress.
Required tool to assess ZEB	SEDA	Government Agency	Building owners	Adopted the Construction Industry Standard (CIS 20).	Ready tool for assessment.	Progress: DONE:

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