KAPIT-BAHAY 2.0

SELF-BUILD **CONCRETE** HOUSE

1. Columns and floor beams
2. Floor slab
3. Columns
4. Beams and 2nd floor joists
5. CHB walls
6. Columns
7. Beams
8. Walls
9. Exterior moldings
10. GI sheet roofing
11. Downspouts
12. Doors, windows, stairs and finishes

Dimensions: 6.0x6.0m

Area: 36sqm

Maximum no of occupants: 10

Maximum no. of story: 2

KAPIT-BAHAY 2.0

SELF-BUILD **CONCRETE** HOUSE

	Hip	Gable	Torogan Roof
2-Storey Concrete House – Initial			
Final			

KAPIT-BAHAY 2.0

SELF-BUILD **CONCRETE** HOUSE

2-Storey
Mixed C/W
House

Initial

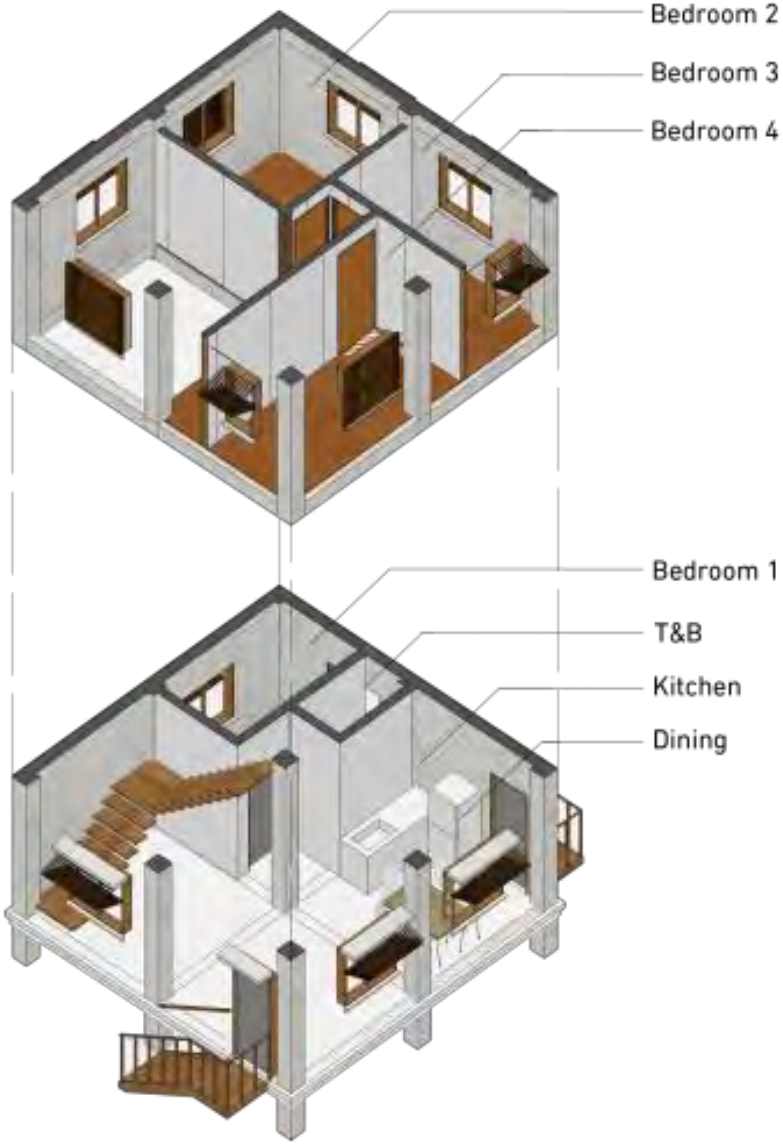
Final

KAPIT-BAHAY 2.0

SELF-BUILD **CONCRETE** HOUSE

KAPIT-BAHAY 2.0

SELF-BUILD **CONCRETE** HOUSE



KAPIT-BAHAY 2.0

SELF-BUILD **CONCRETE** HOUSE

Modernizing the Bahay Kubo

The Evolution of KAPIT-BAHAY

TRADITIONAL

Modernizing the Bahay Kubo

The Evolution of KAPIT-BAHAY

TRADITIONAL

TEMPORARY
(ISIGURO DAAN)

Modernizing the Bahay Kubo

The Evolution of KAPIT-BAHAY

TRADITIONAL

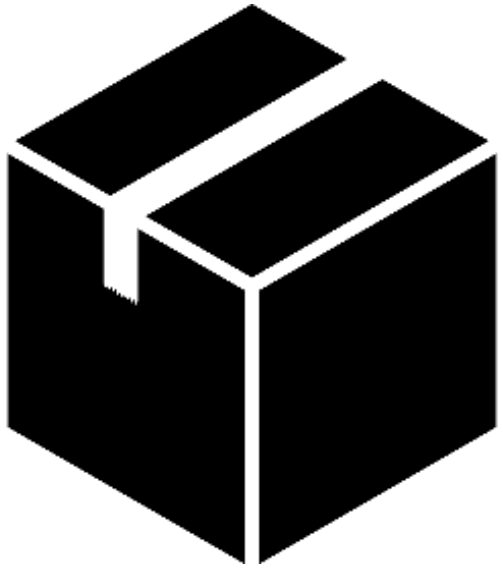
TEMPORARY
(ISIGURO DAAN)

PERMANENT
(KAPIT-BAHAY)

BUILDING BACK BETTER

BUILDING
BACK
BORING

BUILDING BACK TO BASICS




ROBELITO AND SARAH
HOUSE FOREVER

JASTIP W4 Meeting

24 March 2016
10:00-12:00
E-522D, Uji Campus

Mary Ann A. Espina
University of the Philippines

Kazuyoshi Nishijima
DPRI Kyoto University

Keiko Sakoda
World Bank DRM Hub Tokyo

JASTIP W4 Meeting

Topics discussed:

PDCA cycle
for the enhancement of the
resilience of vernacular constructions
in the Philippines.

PDCA = Plan, Do, Check and Act

Main Results or Future Plan

JASTIP W4 Meeting

At present:

· **Plan** in PDCA:

UP Diliman has developed a guideline and design template for resilient vernacular housing construction after the typhoon Yolanda, in collaboration with KU-DPRI.

JASTIP W4 Meeting

Plan 2016-17FY

· **Do** in PDCA:

UPD will build samples/prototypes of abovementioned construction under DOST project. Four samples are anticipated: i.e. constructed by professional and non-professional with proper and substandard construction material.

JASTIP W4 Meeting

Plan 2016-17FY

· **Check** in PDCA:

DPRI-KU investigates the guideline, design and constructions in terms of wind-resistant (and possibly seismic-resistant) performance from science and engineering perspective, using anemometers and wind pressure measurement systems, as well as material strength test device are mobilized.

DPRI-KU also investigates effective ways to implement the guideline into practice through policy making and risk perception perspective.

JASTIP W4 Meeting

Plan 2016-17FY

· **Act** in PDCA:

UPD and DPRI-KU, if necessary, make changes in the guideline and design in accordance with the findings obtained above.

JASTIP W4 Meeting

Plan 2016-17FY

The following activities were agreed to link to two other existing projects:

DOST funded project

and

World Bank Technical Assistance on National Building Code Update

in the following components:

JASTIP W4 Meeting

Component 1 :

S&T
Wind and Seismic Analysis

Component 2 :

Architecture
Improved House Design

Component 3 :

Risk Perception
People's Decision-Making Analysis

Component 4 :

Policy Reflection
Propose Revision to the Building Code

JASTIP W4 Meeting

Maraming salamat po!