

Uganda

Housing, Energy, Carbon *Facts and Local Issues*

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Approach

- ▶ Scoping the SDGs within the ELITH Uganda discussion
- ▶ Reviewing some facts about (low income) housing in Uganda
- ▶ Clarifying the focus on Embodied Energy/Carbon
- ▶ Reflecting on delivery models



Housing, Energy, Carbon

What Is Housing For The Future?



Housing, Energy, Carbon



1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

What Is Housing For The Future?



Housing, Energy, Carbon: Facts and Local Issues

Some Key Questions:

- ▶ What is housing?
- ▶ What is low income (housing)?
- ▶ What is energy? What is carbon?
- ▶ What are some key priorities for future *housing*?



Housing, Energy, Carbon: Facts and Local Issues

Housing can be viewed as:

1. A fundamental human right
2. A sociological construct in class
3. As an economic good in access and affordability



Housing, Energy, Carbon: Facts and Local Issues

...in either case the context of what it means to dwell is specific. The views of Heidegger, Christian Norberg-Schulz, Thomas Thiis- Evensen, Christopher Alexander among other theorists go beyond housing for housing sake, rather: begin to attach meaning (**cultural, place and time specificity**), acknowledge the (built) environment as fragile and how elements of architecture can contribute to accentuating the qualities in a dwelling.

“To dwell, to be set at peace, means to remain at peace within the free” (Heidegger, 1971).



Housing, Energy, Carbon: Facts and Local Issues

(Low income) housing is synonymous with informal housing:

slums, squatter settlements, marginal settlements, spontaneous settlements, transitional settlements, unplanned rural clusters, and other settlement typologies that exist without proper planning permission and outside of the formal construction sector.



Housing, **Energy, Carbon**: *Facts and Local Issues*

How energy/carbon aware are we in and for design - **opportunities?**

- ▶ Relatively mild climatic conditions
- ▶ As a result, little or no heating or cooling energy load is required
- ▶ Indeed, relative poverty of low-income households implies low prevalence of heating, ventilation and air conditioning systems
- ▶ Wood fuel —> fuel for domestic use + production of fired brick (kilns)



Delivery Models → Implementation **Versus** Impact

- ▶ Acknowledge and deal with resource flows + cultural paradigms: local community, NGOs, donor community, CBOs and **local** governments (Andersen, 2009)
- ▶ ...only by giving these people a voice in the decisions being made about their socio-technical futures can truly appropriate delivery models be developed (Brown et al, 2015).



Thank You



What Is Housing For The Future?

What Is Housing For The Future?

Rationalising The Sustainable Development Goals As Key Drivers In A Ugandan Context

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Approach

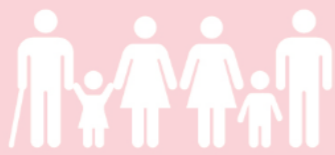
- ▶ The global arena in the SDGs
- ▶ **What** people know, **How** people think, **What** people do: Our shared role as **Educators and Implementors**
- ▶ Identifying some delivery models



The global arena in the SDGs



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What Is Housing For The Future?

What People Know, What People Think, What People Do: ***Our Shared Role As Educators And Implementors***

- ▶ What does it mean to **rationalise** and to **identify** key **drivers** for future housing?

- ▶ There are a lot of issues that need unpacking

Parity Twinomujuni added an informative perspective yesterday, key in my opinion was the issue of the complex finance system and the cost of infrastructure beyond the mere house that escalates the final cost of a project

- ▶ What is low income vs What is affordable?

Saving vs profit on a project | procurement strategies

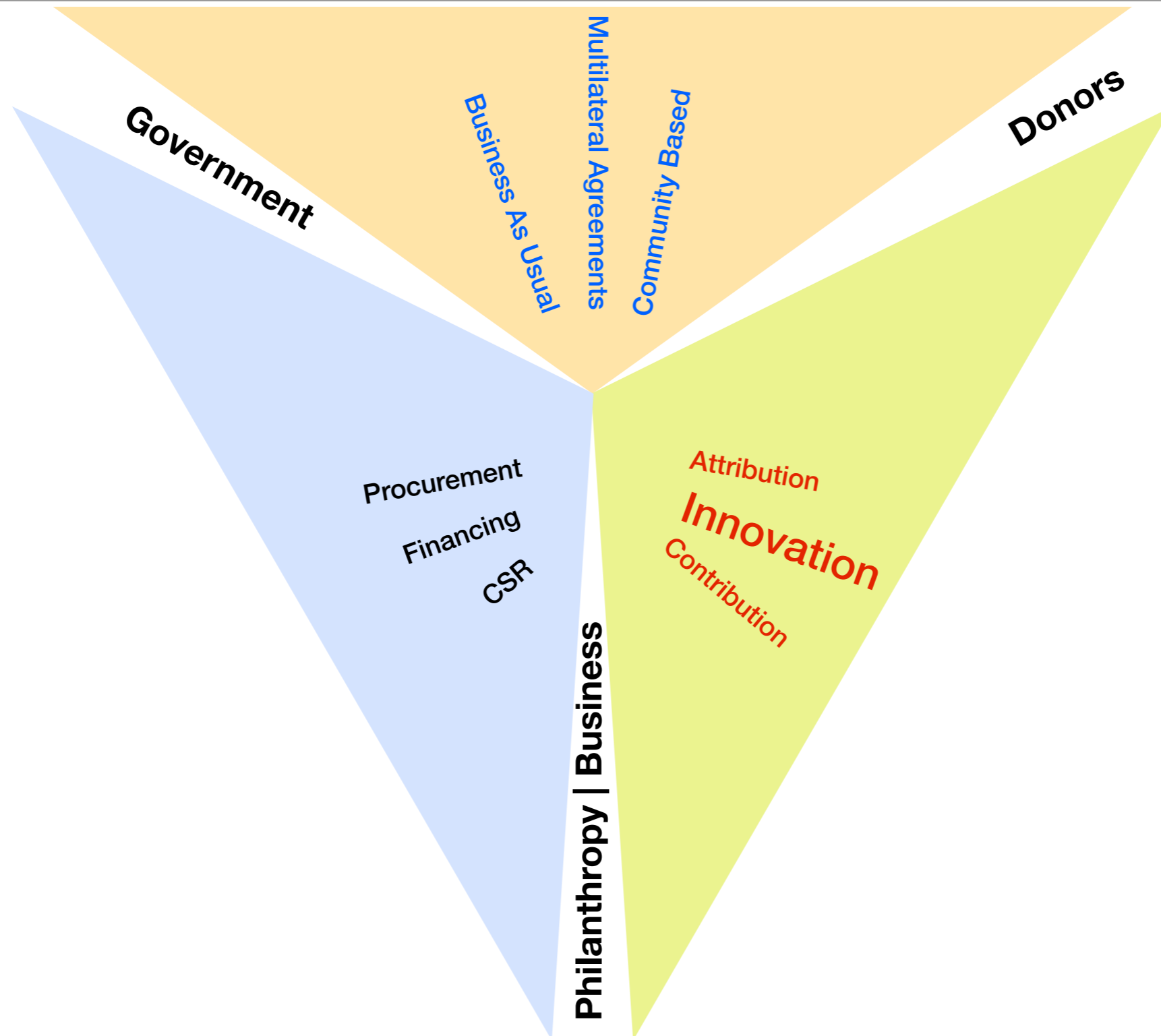
- ▶ Situating BE professions

Mainstream vs avant-garde practitioner

Building research work to publication



Identifying Some Delivery Models



What Is Housing For The Future?



Thank You



What Is Housing For The Future?