



# AAK Annual Convention | 2019

Building Blocks and  
the Built Environment

14 - 16 August • Sarova Whitesands Beach Resort  
Commonwealth Association of Architects General Assembly

## The African Design Center: Teaching through Design

Zani Gichuki



How can education evolve  
in the built environment to  
promote innovative  
thinking?

**1.2 Billion  
People**



2015



**2.5 Billion  
People**



2050

700,000,000  
Housing  
Units







700,000,000  
Housing  
Units

310,000  
Schools



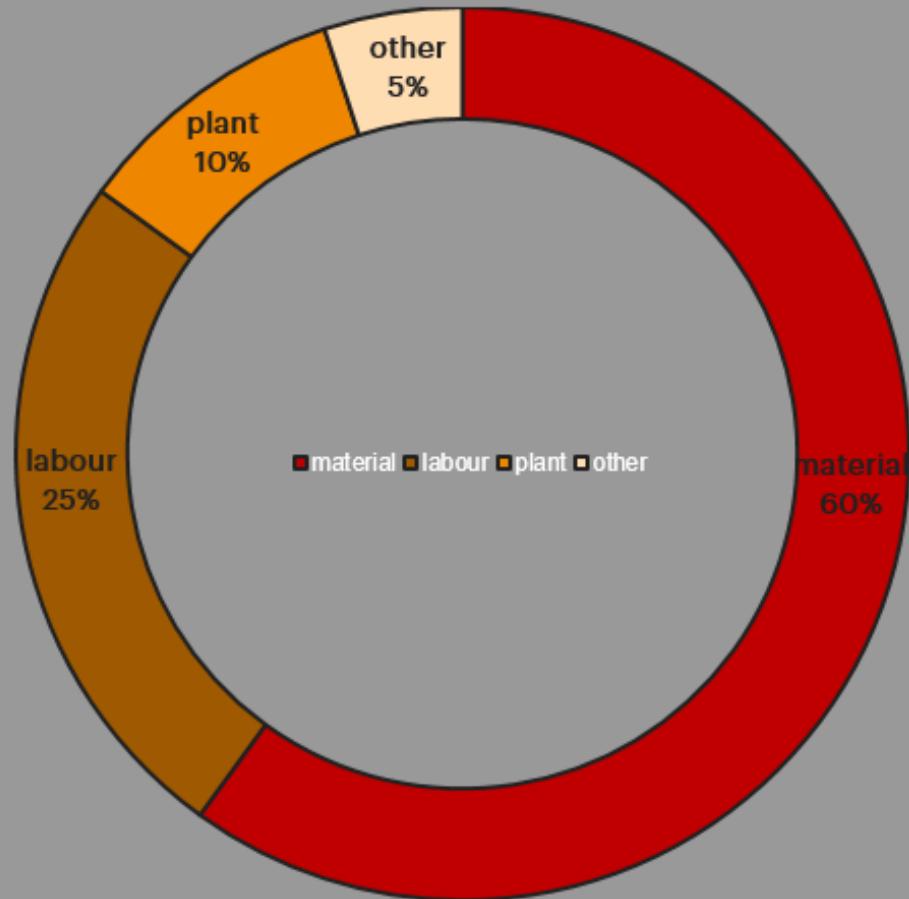


700,000,000  
Housing  
Units

310,000  
Schools

85,000  
Health  
Centers

**1 Billion Youth**



**60% materials**



**12.4 Billion Shillings in 2019**

**What could be the  
alternative?**

# 1. Change ourselves

## 2. Educate young professionals





African  
Design  
Centre

**MASS.**















# THE PROCESS

- Research
- Community Engagement
- Impact-Based Design

# RESEARCH





# RESEARCH





RESEARCH





# Ruhehe Primary School





# COMMUNITY ENGAGEMENT





# COMMUNITY ENGAGEMENT





# COMMUNITY ENGAGEMENT





# COMMUNITY ENGAGEMENT





# COMMUNITY ENGAGEMENT





# COMMUNITY ENGAGEMENT

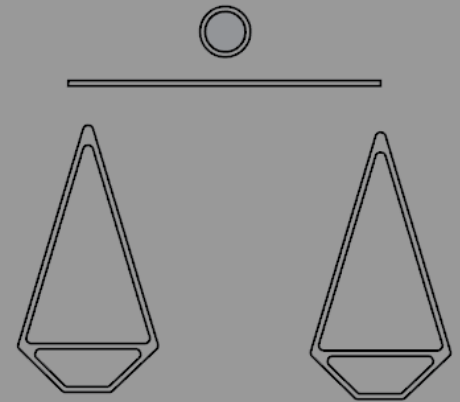
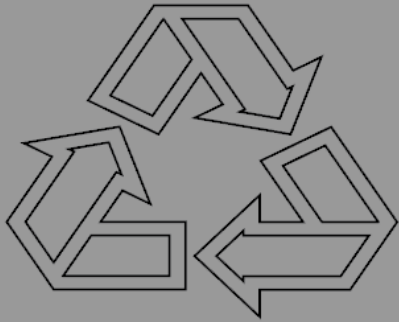


# COMMUNITY ENGAGEMENT



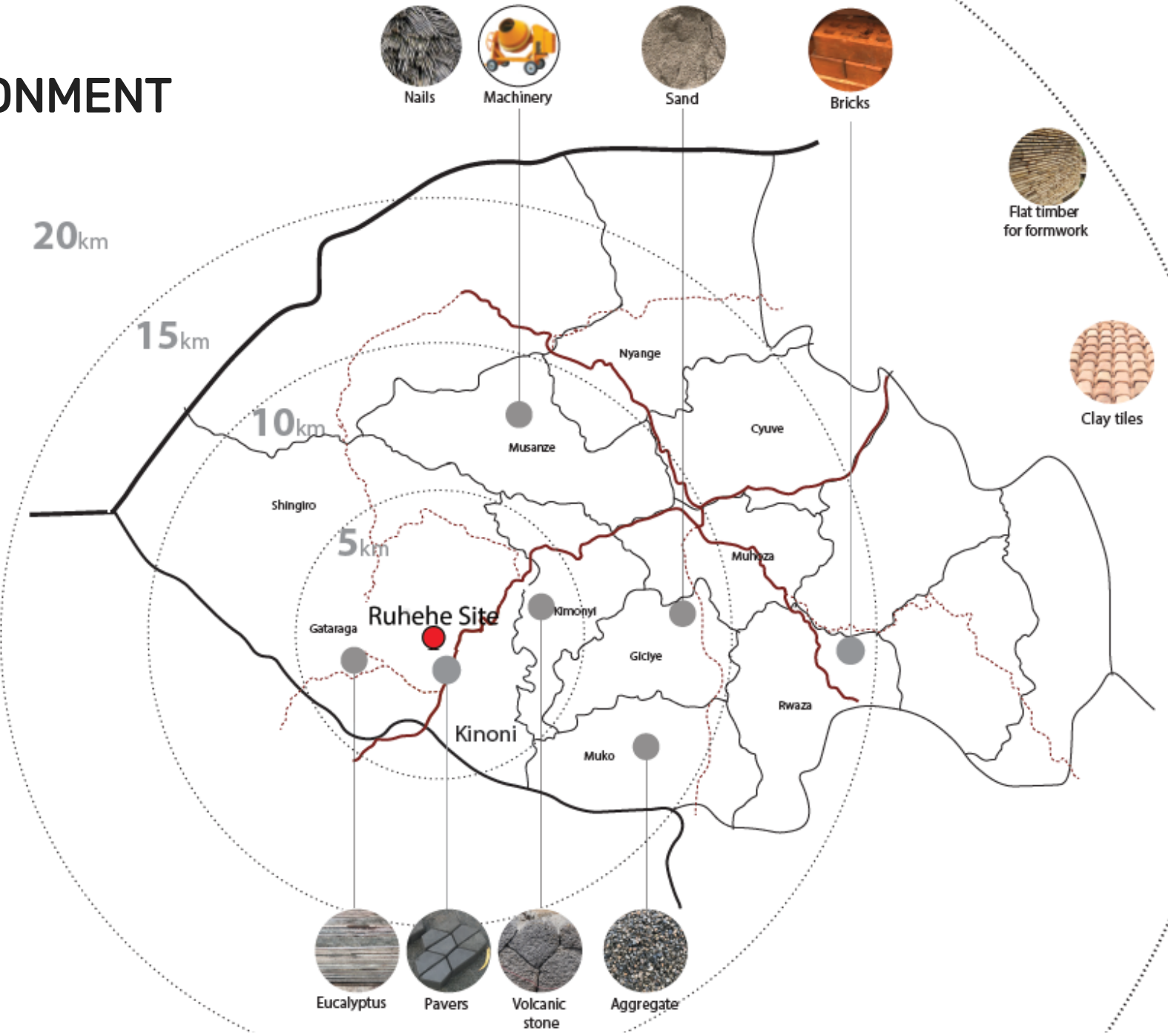


# IMPACT-BASED DESIGN





# ENVIRONMENT





# EDUCATION





# EDUCATION

...er can be  
ined and/or  
imprisoned for  
causing death  
on site

## 2. WORKERS

Everyone should be responsible for the sake of  
themselves and others. It is possible for health  
and safety to be responsible to make sure they  
wear personal protective equipment on site.

### WHAT MIGHT BE CAUSES OF ACCIDENTAL DEATH AND INJURY?

#### Construction site layout

People will fall because of clutter and  
poor site awareness in road works, or  
the workplace itself is not safe.

#### Falling material and collapses.

#### Working on higher heights.

People's movement on different levels and  
change of position between projects, such as  
the 'fall' - this type of work is often done  
in blocks.

#### Trips



#### Manual handling



#### Stone breaking / Metal welding and cutting



#### Lighting/ Electrical



### RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT TO BE WORN ON SITE.

Reflector jackets Hard hats

Gloves Proper site shoes (Boots)

### Loss and damage to material, machinery and properties.

### REPORTED INJURIES / ACCIDENTS ON SITE:

### WHO IS RESPONSIBLE FOR HEALTH AND SAFETY ON SITE?

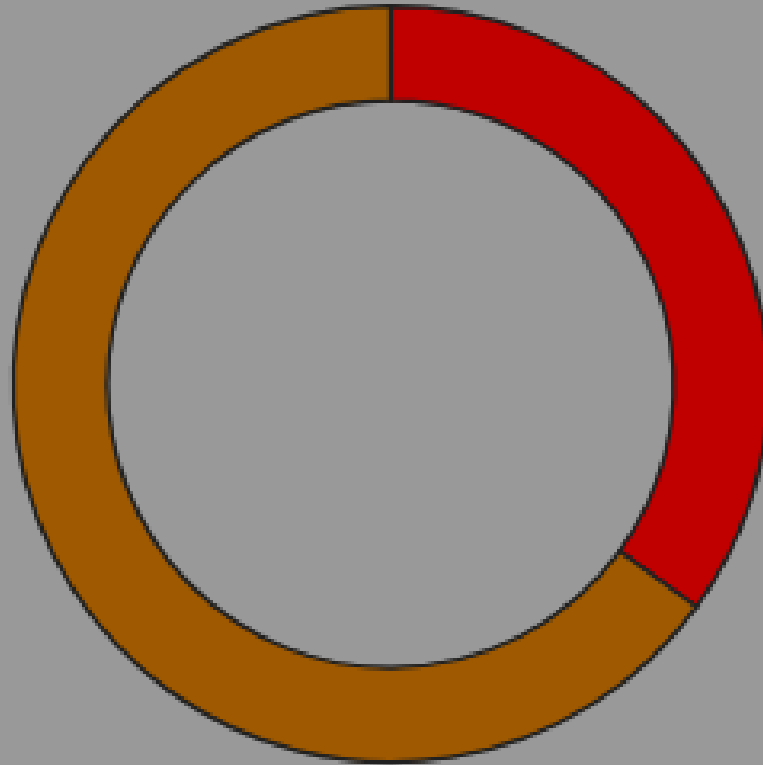
## 1. MASS/ ADC

- To make sure construction site is safe for workers from start to end of project.
- Supply first aid equipment
- ADC follows on site will help for applying first aid on reported injuries on site.





EQUITY



**35% women**

EQUITY



# KEY TAKEAWAYS

- Opportunity



# KEY TAKEAWAYS

- Opportunity
- Collaboration

# KEY TAKEAWAYS

- Opportunity
- Collaboration
- Challenge status quo



How do we actually  
challenge the status quo?

# 1. What decisions are you making in design?





## 2. How are you building your teams?





# 3. How are you engaging with young professionals?





**“If you believe that  
training is expensive, it is  
because you do not know  
what ignorance costs”**

**- Michael Leboeuf, The great principle of  
management**