



# AAK ANNUAL CONVENTION 2024 + HFHK NATIONAL HOUSING FORUM SOCIAL HABITAT FOR THE REGION

14 - 16 AUGUST | SAROVA WHITESANDS BEACH RESORT & SPA | MOMBASA

## BREAKOUT SESSION 02: PECHA KUCHA PRESENTATIONS.

### Rapporteur – Ms. Olivanta Mwenda.

Report of the Pecha Kucha Presentation for AAK Annual Convention 2024 & HFHK National Housing Symposium held on 15<sup>th</sup> August 2024 themed **Integrating Disaster Risk Management and Climate Resilience in Healthy Homes.**

### **Introduction**

The PechaKucha Presentation began with Arch. Rosemary Litunya, the session moderator, introducing the event. She welcomed Arch. George Arabbu, the Vice President of AAK, who then opened the session. Arch. Arabbu provided an overview of the session, explained the concept of PechaKucha, and outlined what typically occurs during such presentations.

### **Opening Remarks and Agenda Setting by Architect George Arabbu.**

He welcomed the audience to the breakout session and proceeded to explain the PechaKucha format. He described PechaKucha as a presentation style that originated in Japan, characterized by its simplicity and efficiency. The format involves 20 slides, each shown for exactly 20 seconds, resulting in a total presentation time of 6 minutes and 40 seconds. Additionally, he introduced other AAK initiatives, including the Integrated and Inclusive Infrastructure Framework (3IF) and the Healthy Homes and Guidelines Checklist.

### **Introduction of the Key Speakers.**

Arch. Rosemary Litunya introduced the Pecha Kucha speakers;

- i. **Arch. Wycliffe Waburiri** - a tutorial fellow at Jomo Kenyatta University of Agriculture and Technology (JKUAT), chairperson of the AAK Architects Chapter and President of the East Africa Institute of Architects (EAIA).
- ii. **Arch. Marylyn Musyimi** - an Architect and Green Building Expert with close to 15 years' experience.





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- iii. **Mr. Yassin Munyanya** - a multi-faceted Graduate Architect from the University of Nairobi, committed to social impact through innovative design and accountable leadership.
- iv. **Eng. Muguru Wairimu**- a professional engineer with an undergraduate degree in BSc. Civil Engineering from the University of Nairobi, currently enrolled in Edinburgh Napier University pursuing an MSc in Transportation Planning and Engineering.
- v. **Plan. Christine Muchiri**- a lecturer at the Technical University of Kenya in the Department of Spatial Planning and Design, CEO and Founder at MaCa Plan Consulting, and current Vice-Chairperson at the AAK Town Planners Chapter.
- vi. **Arch. Evans Makan**- an artist and a lecturer at JKUAT.

## 1. Presentation by Arch. Wycliffe Waburiri.

### Topic: Integrating Nature-Based Solutions in Home Design.

His presentation focused on a project he participated in, titled Zamani Business Park, located in Karen, Nairobi, Kenya.

### **Key Points Discussed.**

They utilized a biophilic design approach, which integrates natural elements into built environments to enhance the connection with nature. The design is characterized by the following features;

- Inclusion of plants
- Use of natural materials such as wood and stone
- Maximizing natural light
- Use of earthy colour palettes
- Water features
- Creating views of nature
- Design for multi-sensory experiences





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## Case Studies.

- Court Square Garden Boston.
- Charlotte Garden Copenhagen, Denmark.
- 151 East Jaques Avenue Bondi, Australia.

## Advantages.

- Enhanced well-being and mental health.
- Increased productivity and creativity.
- Stress reduction and improved cognitive function.
- Physical health benefits.

## Challenges.

- Natural elements can become unsightly or even hazardous.
- Allergies.
- Space limitations.

## 2. Presentation by Arch. Marylyn Musyimi.

**Topic: Green Housing Designs for Climate Change Adaptation.**

### Key Points Discussed.

Green Building is based on 3 principles;

- Energy Efficiency
- Water Efficiency
- Material Efficiency

The above can be achieved by;

- Proper building orientation
- Use of sustainable materials
- Using locally available materials and familiar technologies





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- Incorporating greenery within our housing (i.e. the house and its environment)
- Involving the community

How to implement the green housing designs;

- Through policies.
- Through training.
- Creating awareness.

### 3. Presentation by Mr. Yassin Munyanya.

**Topic: Incentivizing the Use of Green and Healthy Housing Standards.**

#### **Key Points Discussed.**

- Paragraph 161 of the National Building Code 2024 does not address sustainable building design strategies, indicating a neglect of green building practices.
- Caption of the presentation, "*We did not inherit this land from our forefathers, we have borrowed it from our children*".

#### **Case Studies.**

- Dubai Marina, Artificial Water Canal City.
- Sheikh Zayed Road.

#### **How to achieve Green and Healthy Housing standards.**

- Formulating comprehensive and inclusive building codes.
- Strengthening the existing legal frameworks.

### 4. Presentation by Eng. Muguru Wairimu.

**Topic: Integrated and Inclusive Infrastructure for Healthy Housing.**

#### **Key Points Discussed.**

Integrated and inclusive infrastructure for healthy housing includes the following characteristics:

- Designing with people in mind
- Providing complete networks for walking and cycling along the shortest routes
- Incorporating landscaping into developments
- Building effective infrastructure





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- Orienting developments to face rivers and water bodies

## 5. Presentation by Plan. Christine Muchiri.

### Topic: Transition to Risk-Sensitive and Transformative Urban Development.

#### Key Points Discussed.

Risk-Sensitive Urban Development is a planning approach that aims to transform cities into spaces which can face the uncertainties that arise from climate-induced disaster risks (Roslan *et. al*, 2021).

In urban risk governance we need;

- Collaboration between government and non-governmental actors
- Joint implementation
- Reporting, Monitoring and Evaluation

#### Case Studies

- Korogocho People's Park.
- Kibera Public Space Project by KDI.
- Nakuru KMC Settlement U-Code Knowledge Campaign.
- Lala Galu, Diani.
- Sandbag Houses in Cape town.

#### The Role of Data in Risk-Sensitive Urban Development

- Evidence-based decision-making.
- Facilitating collaboration & Data sharing.
- Supporting Community-Led Innovation.
- Enhanced early warning systems.

#### Challenges

- The gap between the production of risk-related information and its application in decision-making.
- The use of inappropriate methods for presenting complex datasets, which hinders stakeholder engagement.
- Incomplete baseline information on factors related to disasters and climate change.





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- Working in isolation, which limits data sharing.

## Solutions

- Tailor Information to Decision-Making Needs through User-Centric Reporting and Scenario Analysis.
- Use of Digital maps to represent hazards, vulnerability, coping capacities and risks for enhanced communication and active participation.
- Create Data Repositories where data from various sources can be stored, integrated, and accessed by stakeholders.
- Establish data sharing portals.

## 6. Presentation by Arch. Evans Makan.

**Topic: Future Proofing Homes: Designing Homes to withstand Disasters and Climate Variability.**

### Key Points Discussed.

Future-proofing homes involves designing them to adapt and meet your family's evolving needs over time.

### Considerations for Resilient homes

- Site studies
- Building Envelope
- Structural Design

### Design Solutions to challenges in the Tropics

- Wind Resistance Designs
- Flood Resistance Designs
- Sustainable Designs

## Closing Remarks by Arch. George Arabbu

Arch. George Arabbu concluded the session by offering a vote of thanks to both the presenters and participants, after which a group photo was taken.

