



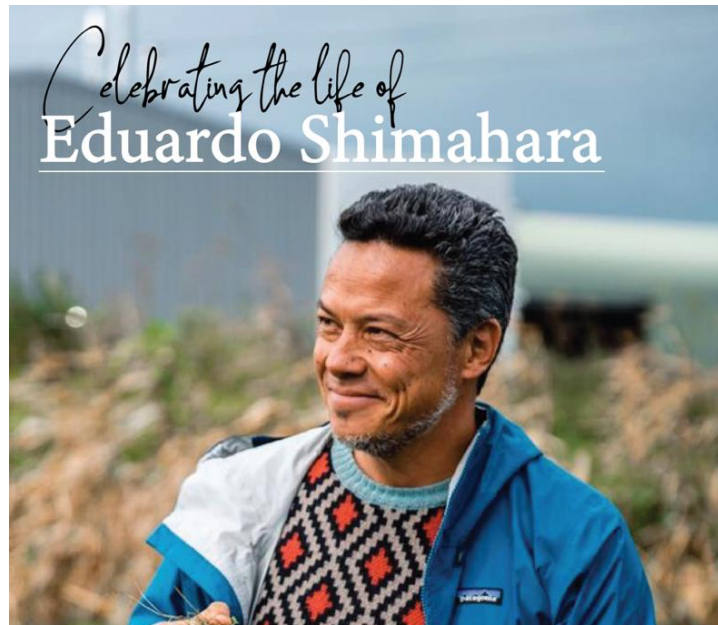
LIRA 2030 — Africa

Bridging Decentralized Energy Planning with Neighbourhood-level Innovations in Cities of Africa:

Kweku Koranteng, Sharne Bloem, Phumlani Nkwanta



The sad reality of a changing world



Celebrating the life of
Eduardo Shimahara

- **In Memory of
Community
participants – South
Africa**



Country Case studies

South Africa

- **Enkanini: iShack**
 - 11 Million Euros
 - PPP mode
 - Solar Home System (SHS)
- **Lynedoch Eco-village (Eskom)**
 - State funded
 - State managed and operated
 - Mini-grid (grid tied)

Ghana

- **Bukom James Town**
 - Donor funded (SDI)
 - Community-Led (Women-led)
 - Solar Lanterns
- **Amui Djor**
 - Donor Funded (SDI)
 - Community-led
 - Mini-grid (Grid tied)

Project Objectives

1. Empower communities with leadership skills to advocate for pro-poor energy policies
2. Provide technical know-how on emerging decentralised energy systems
3. Influence the national energy system with bottom-up neighbourhood level experiment
4. Transnational best practice sharing with other African cities beyond Ghana and South Africa
5. Address knowledge gap by integrating practical insights into SDGs in cities across Africa.



Project Partners

- **Slum Dweller International (SDI)**



SDI.
SHACK/SLUM DWELLERS
INTERNATIONAL

1. Ghana Federation for the Urban Poor (GHAFUP)
2. Peoples Dialogue on Human Settlement

- **Stellenbosch University**



SUSTAINABILITY
INSTITUTE

1. Sustainability Institute
2. innovation Shack (iShack)
3. Center for Complex Systems in Transition



UNIVERSITEIT
STELLENBOSCH
UNIVERSITY



Centre for
Complex
Systems in
Transition



SPL
SCHOOL OF PUBLIC
LEADERSHIP
SCHOOL OF PUBLIC
LEADERSHIP



TRANSFORMATIVE



ENKHANENI CASE STUDY

1 VERY BROAD RESEARCH QUESTION

WHAT CAN WE ACHIEVE IN THE FUTURE?

2 GO FIND OUT HOW

WALKING THE STREETS...



CAN WE HELP?

3 LISTENED TO STORIES & EXPERIENCES

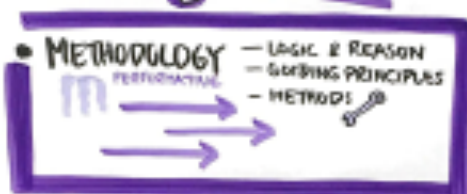
INVITED TO STAY OVER?

INSIGHT



I CAN USE MY LEADERSHIP SKILLS!

Insights:



LOGIC & REASONING

- DEDUCTIVE
- INTEGRATIVE
- ABDUCTIVE ~ intuition (complexity, non-linear)
- TRANSFORMATIVE ~ change world

TRANSDISCIPLINARY RESEARCH (TTDR)

CO-PRODUCTION OF KNOWLEDGE

- SYSTEMS KNOWLEDGE
- TARGET KNOWLEDGE
- TRANSFORMATION KNOWLEDGE



JOHN VAN BRED

TRANSDUCTIVE LOGIC

GUIDING PRINCIPLES

for EMERGING systems

- 1 ALLOWING FOR EMERGENCE
- 2 ABSORBING COMPLEXITY
- 3 PERTURBING the system
- 4 ADAPTATION
- 5 RECURSIVE HIGH-LOOP LEARNING

PHASE 5

MINI-GRID

- self set up
- Business Opportunity



Learning Journey

WORK IN PROGRESS...

METHODS

- Sense maker
- other value than optimized stakeholders
- where to communicate
- ANALYSIS
- creative embodied

WHERE DO WE CONNECT WITH PEOPLE WHERE THEY naturally tell stories...

SOCIAL CHANGE



Key outcomes

South Africa

- Inspired a replication in other settlements in the Western Cape.
- Avoiding 'top-down' municipal-driven delivery, rather establishing consumer acceptance on the ground and then lobbying municipality for support.
- Innovative financing scheme to establish community ownership and interest.
- Develop a 'social process' that leads to establishing a 'social capital'
- Free Basic Electricity

Ghana

- Communities were prepared and willing to own the project
- Community consultation, engagement and awareness paved the way for the effective introduction and subsequent delivery of the solar PV lamps.
- Community ways of knowing, culture and value systems also offered an avenues through which new knowledge was created.
- Renewable Energy Open Forum offered an open platform of engagement with stakeholders at various level of the project.
- Built enterprise capacity within the social process

Key Outputs

- Two papers submitted for Publication
 - Bloem, S., **Koranteng, K.**, and Swilling (2020)* Taking energy democracy to the street: socio-technical learning, institutional, dynamism, and integration in South Africa – Energy Research and Social Science (ERSS)
 - Ambole, A., **Koranteng, K.**, Njoroge and Luhangala, D. L., (2020)* A review of energy communities in sub-Saharan Africa as a transition pathway to energy democracy
- Three outstanding papers (internal reviews)
- Video output of the four country case studies inspired by the virtual synthesis workshop

Key lessons learned

- Society, science and policy workshop revealed the following lesson
 - Energy policies lack a compassionate dimension
 - Communities lack an understanding of policy process
 - Scientific research has limited impact on the two domains (Society and Policy)
- Trust building and patience is critical in the delivery of social intervention in informal communities.
- Understanding the process and allowing communities to organically learn is essential for successful project
- Don't over promise on research deliverable (Manage expectations)*

How you see the future of your project

- Building on the knowledge embedded within the research communities – Follow up grants to generate more outputs
- Strengthen collaboration among cities and community based organisations and colleagues in various countries
- Insights to be shared among development partners to better understand how to fund grassroot initiative and interventions
- Policymakers need to create room for alternative power relationship observed in the energy democracy literature.

Future of the Project



Thank you

- Further question and comments

