



An Embedded Researcher Approach to integrate climate information into decision-making in southern African cities: lessons from FRACTAL

29 August, 2019

The webinar will commence shortly



WELCOME

For more information:

- Future Climate for Africa
 - Website: www.futureclimateafrica.org
 - Email: info@futureclimateafrica.org
 - Twitter: @future_climate
- Future Resilience for African Cities And Lands
 - Website: www.fractal.org.za
 - Twitter: @FRACTALproject



Webinar Proceedings

29 August, 15:00 SAST

- 15:00-15:05 – Welcome, housekeeping and introductions (Beth Mackay)
- 15:05-15:55 – Presentations
 - Dr Anna Taylor – *conceptual underpinnings, rationale and overview of Embedded Researcher approach.*
 - Dr Lulu van Rooyen – *benefits and inhibitors to the Embedded Researcher approach*
 - Hecralito Constantino Mucavele, Kornelia Ndapewa lipinge, Brenda Mwalukanga, Rudo Mamombe – *key lessons learnt*
- 15:55-16:10 – Q&A (facilitated by Dr Anna Taylor)
- 16:10-16:30 – Closing Remarks and Wrap-up

AN EMBEDDED RESEARCHER APPROACH TO INTEGRATE CLIMATE INFORMATION INTO DECISION MAKING IN SOUTHERN AFRICAN CITIES:

LESSONS FROM



FRACTAL

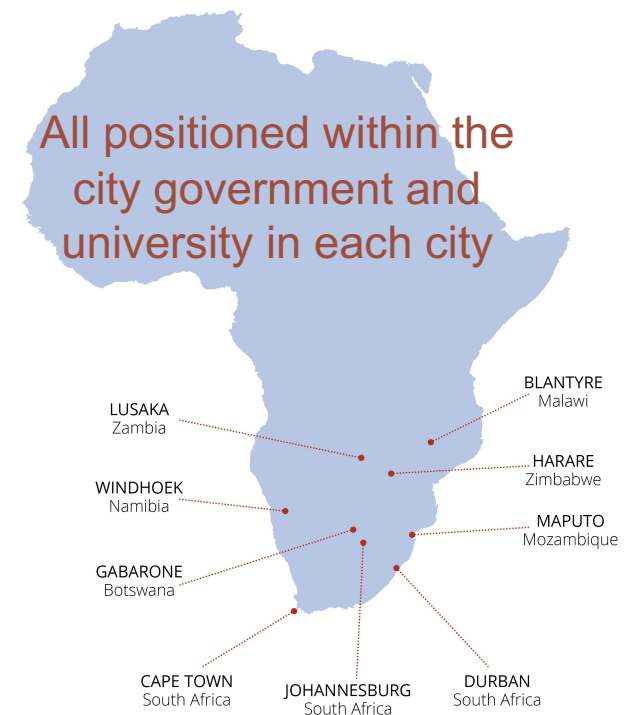
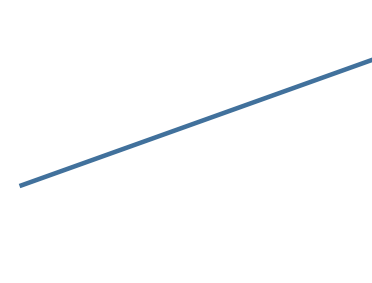
FUTURE RESILIENCE FOR AFRICAN CITIES AND LANDS





WHO WILL YOU BE HEARING FROM

- Dr Anna Taylor – FRACTAL embedded research coordinator
- Dr Lulu Pretorius – Durban ER
- Kornelia Ipinge – Windhoek ER
- Brenda Mwalukanga – Lusaka ER
- Hecrálito Mucavele – Maputo ER
- Rudo Mamombe – Harare ER





WHAT WILL YOU BE HEARING ABOUT

1. Conceptual underpinnings and rationale of the ER approach;
2. How the ER approach was operationalized in FRACTAL through a coordinated city partnerships approach;
3. The benefits of and inhibitors to the ER approach;
4. The lessons learned that may be transferable to other contexts.
5. Hopefully lots of time for questions & discussion!

WHAT IS EMBEDDED RESEARCH

- employed by research institution, in partnership with host organisation to identify & implement a **collaborative, mutually beneficial** research agenda
- spend intensive period **enmeshed** in the culture & operations of other work communities
- opportunities to build personal **relationships**, facilitate the spread of new ideas, and **learn** the constraints and initiatives of BOTH organizations
- knowledge brokers / co-producers and **boundary spanners**



WHERE DOES THE ER IDEA / APPROACH COME FROM?

- Relatively recent innovation (2000s)
- Roots in action research, social learning, ethnography and transdisciplinarity [but poorly articulated]
- Mainly experimented with in health and education
- Applied to urban sustainability in Cape Town (Mistra UF 2012-2015)
- Aims to improve research impact on policy and practice, through shaping the research agenda based on knowledge needs within the policy and practitioner communities

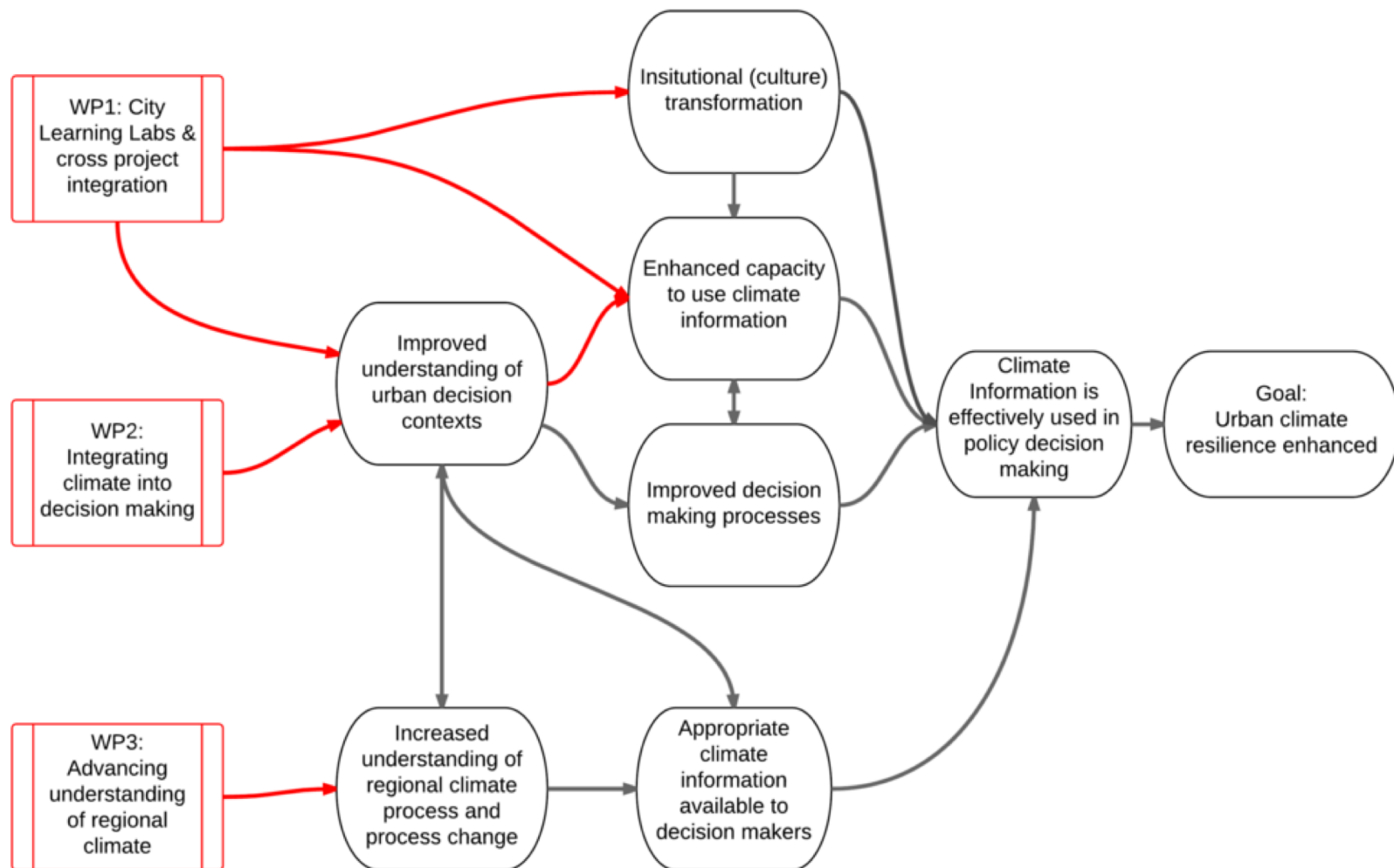


WHY DID WE USE ER IN FRACTAL?

- To make cities more climate resilient, climate sensitive decisions (and actions) need to be based on best available understanding of current and future climate
- To develop climate information for use in making decisions, scientists and decision-makers need to work together more effectively
- One way to do that is to have someone acting as a go-between, a colleague on both sides, to build understanding and networks through exposure, familiarity and trust



FRACTAL THEORY OF CHANGE



HOW DID WE OPERATIONALIZE ER IN FRACTAL?

- Full-time ER post for 3+ years in Tier 1 cities = Lusaka, Windhoek, Maputo
- Full-time in self-funded city (Durban) and short-term in Tier 2 city (Harare) and self-funded city (Cape Town)
- Negotiated between city government and local university, coordinated by UCT (project lead)
- Each ER supervised by an academic and a city official (various depts & levels)
- ER work guided by ER coordinator, city task teams, thematic clusters (esp. city learning cluster), FRACTAL coordinator



CORE ROLES OF FRACTAL ERs

- Identify / create entry points for integrating climate information
- Organize Learning **Labs** (logistics, invites, agenda, reporting), city **exchange visits**, training events and workshops
- Governance and decision-making **interviews**
- **Proposals** for additional grants
- Prepare City Digests and blogs
- **Reporting**, reporting, reporting (monthly & annual, verbal & written)
- Present at conferences, participate in training and (co)write





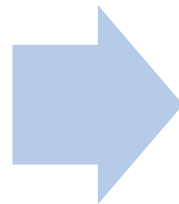
CONCEPTUAL DEVELOPMENTS

Co-exploration to
find entry points



Co-production to
create entry points

Integrating climate
information into
decisions



Evidence-informed
decision making



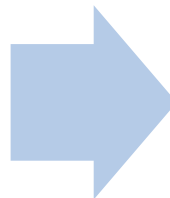
CONCEPTUAL DEVELOPMENTS

Temporal evolution of
integrating knowledge
[together & into
decisions]



Relational agency to
intentionally entangle
knowledge and
decisions

Knowledge is the key to
changing decisions

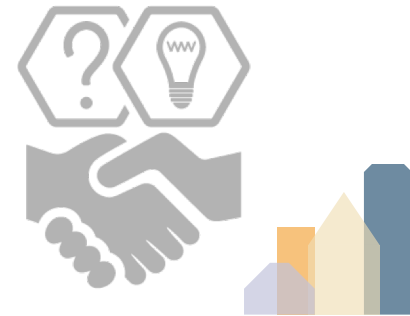


People are key to
changing decisions

BENEFITS AND VALUE OF THE ER APPROACH

For project partners:

- Exchange and learning visits (within and between cities)
- Access to funding
- Facilitating interactions btw senior academics & high-level decision-makers
- Facilitating flow of existing- and new information
- Having an intermediary mediate expectations and mandate differences
- Exposure to international platforms
- Build relationships
- Reframe and re-formulate research questions



BENEFITS AND VALUE OF THE ER APPROACH

For embedded researchers:

- Networking and capacity building
- Skills development - presentation and workshop facilitation, negotiation, teamwork, transdisciplinary research skills
- Increased knowledge of various subject fields and knowledge types, and application thereof
- Satisfaction from being part of a team with a shared goal of building the resilience of African cities in the face of climate change



VALUE WITHIN THE WIDER CITY CONTEXTS

Lusaka

- Improved inclusion of climate info in the city plans
- Policy briefs
- Uptake of the ER approach by the Lusaka Water Security Initiative

Windhoek

- Development of the CoW Integrated Climate Change Strategy and Action Plan
- Convening stakeholders, training, strengthening knowledge of and leadership on climate issues, facilitating an iterative and evidence-based approach to policy development



VALUE WITHIN THE WIDER CITY CONTEXTS

Maputo

- Early warning tool for climate-induced vector- and water-borne diseases
- More coordinated response to early warnings, through Dialogues & Learning Labs

Harare

- Mind-set change about collaboration and co-production; invitation for input and engagement, and sharing outputs
- Improved awareness among officials on incorp climate change in city planning

Durban

- Co-development of climate & biodiversity info for Biodiversity Theme of DCCS



CHALLENGES FACING ERs

- Being an anomaly & a hybrid
- Competing logics and demands
- Working beyond one's discipline or profession
- Securing & sustaining relationships with staff
- High turnover rate in city governments
- Dynamic and constrained organizational environments



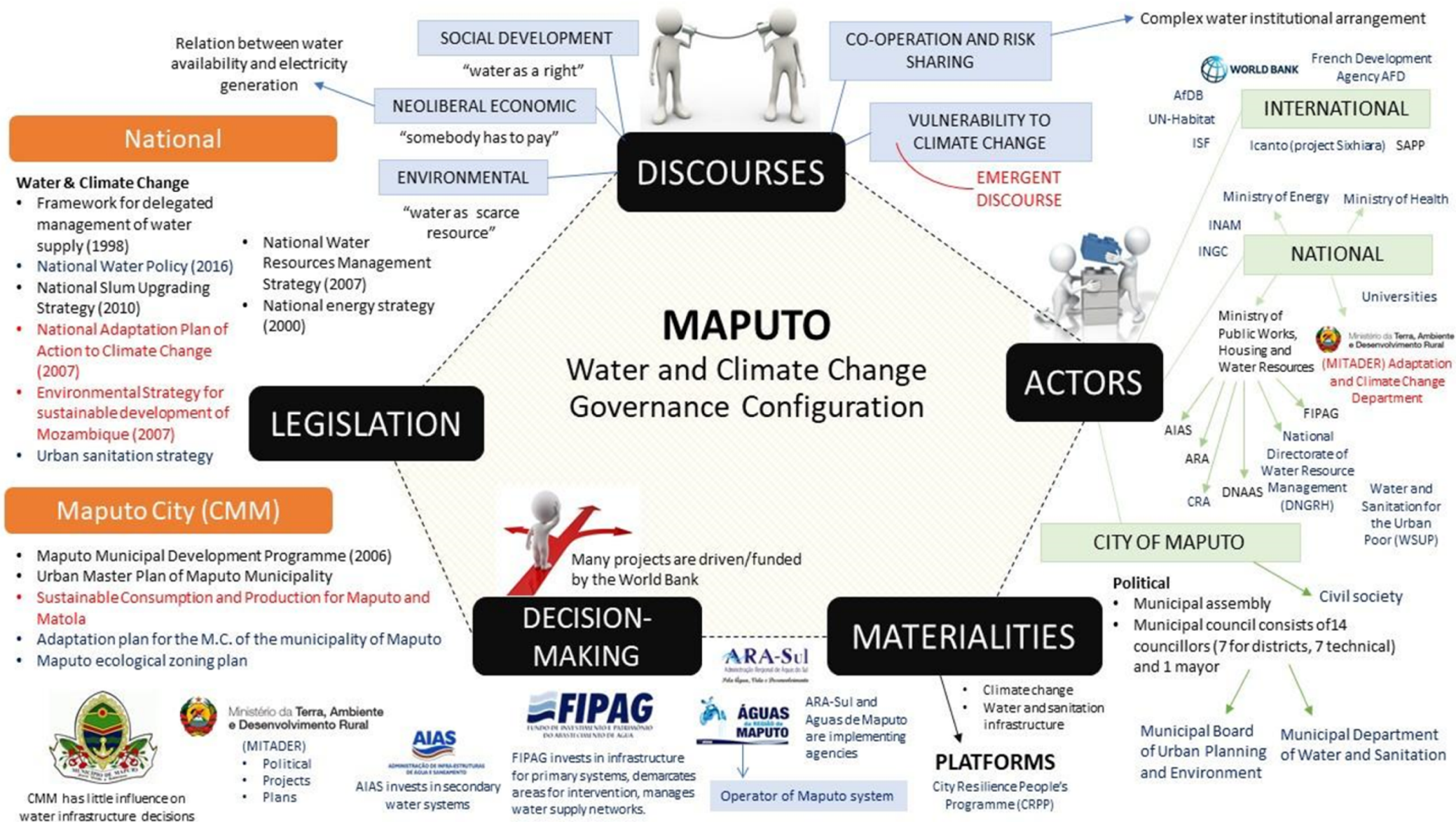
LESSONS LEARNED

1. To be a link between the academy & the public authorities to increase the understanding and use of climate information, ERs need to be available, dedicated, humble & not afraid to make mistakes!



Example
from Maputo





LESSONS LEARNED

2. It takes time for the different partners to adapt the ER approach as the relationships take time to develop. Following both institutions rules and regulations may be conflicting at times. Thus patience is needed.



Example
from
Windhoek



LESSONS LEARNED

3. Co-developing learning & outputs is vital and must focus on the prioritized needs of the city. This requires us to move from our comfort space into unfamiliar terrain to deliver relevant products with & for the city.



Example
from Lusaka



LESSONS LEARNED

4. The ER approach provides one way to understand the contextual needs for climate information that is timely and relevant. Success of the ER approach requires commitment, building trust and taking risks from both parties.



Example
from Harare





FOR MORE DETAILS

FRACTAL Working Paper

Go to fractal.org.za > Resources > Working Papers

<http://www.fractal.org.za/wp-content/uploads/2019/07/Pretorius-L-et-al-Embedded-Researcher-approach.pdf>

THANKS FOR LISTENING, QUESTIONS PLEASE

Thank you

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