

Adoption of Sustainability Change

■ ■ this is where we are now

Incentives

Compliance

Adoption of Sustainability Change

■ ■ this is where we are now

Boss Said So

Peer Challenge









Driving Innovation Change

Project similarities / Challenges

co-mingled projects with different organisational approach

Digital / IOT/C PV /BAPV **Similarities** - lever Thermal Perceived **Challenges** Comfort comfort Don't see a Perceived room Familiarity vs for innovation need for adaptation (single use) change

You cant improve what you cant measure

- Overused and out of context / more is not merrier
- Reflection and understanding what to do with the data is important
- sometimes less is more



We need to inculcate a mind that accepts innovation can be imperfect for perfection to happen

Driving Innovation Change



And



Innovation is not only about a singular product technology it's about the harness of different technologies/sectors coming together that brings the best of it – open innovation





consists of 8 buildings which includes an operations centre which will manage all hitects

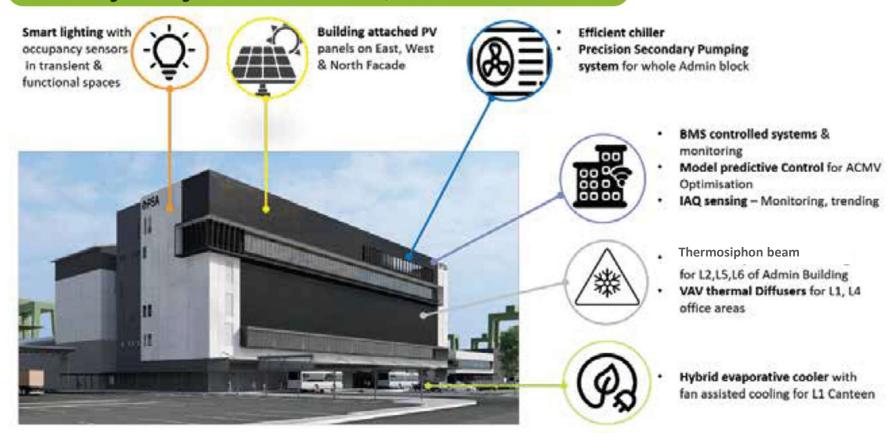


10 different Technologies

Single Innovation Open Innovation

- 1. BAPV
- 2. Thermosiphon beam
- 3. Hybrid evaporative cooler
- 4. IEQ Anyly sence
- 5. Smart Lighting
- 6. Precision Sec Pumping
- 7. Thermal Break
- 8. Al Model Predictive control
- 9. IBMS
- 10. FCU VAV

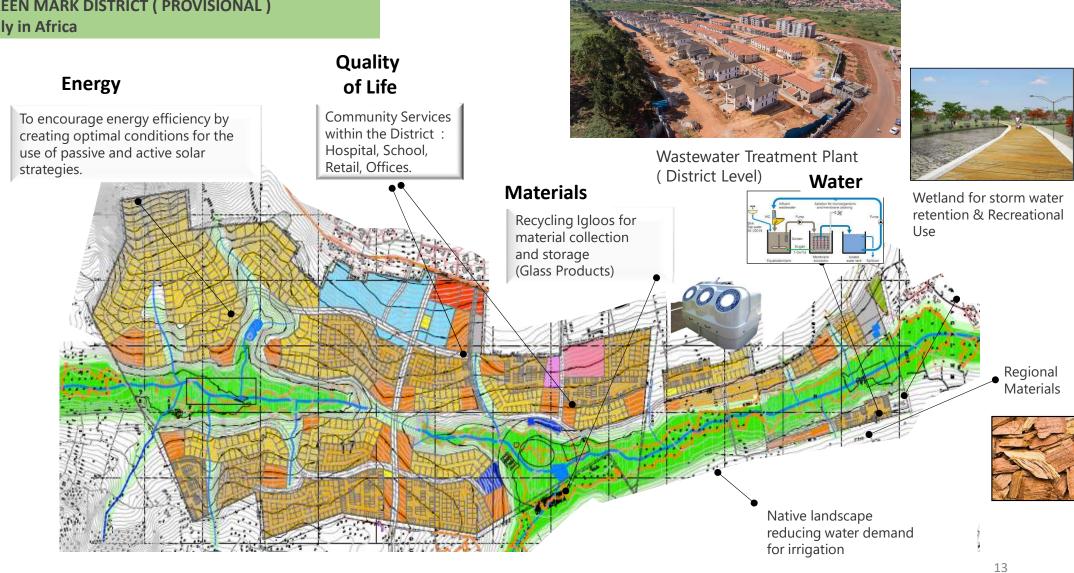
Active Design Strategies - Admin Block - Aircon, Smart Control & Renewables



PSA Maintenance Base – Admin Building



GREEN MARK DISTRICT (PROVISIONAL) Only in Africa



KEY ENVIRONMENTAL STATISTICS

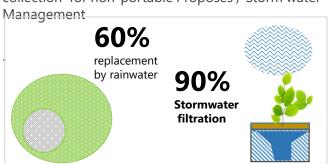
Energy

Energy efficiency for the exterior lighting system & public Infrastructure



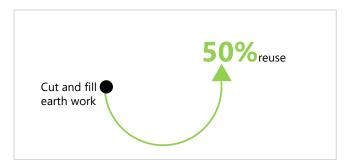
Water

Wastewater Treatment Plant an rainwater collection for non-portable Proposes / Storm water

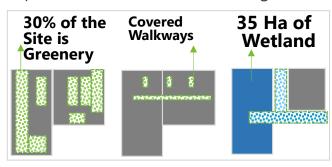


Material and Waste

50% cut and fill soil will be reused.



PlanningGreen and blue spaces for recreation / Optimized solar orientation design



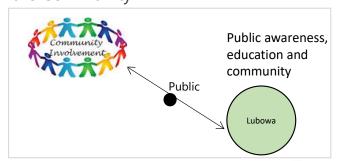
Green Design

Green Urban Design Guidelines & Green Transportation strategies



Community & Innovation

Shared facilities and Public Amenities for the Community

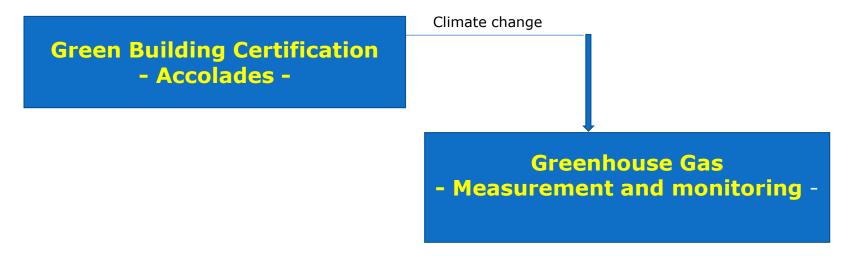




Sustainability in Other countries



The Trend



Everyone comes up with a plan / roadmap /etc but..

If you don't have <u>a realistic</u> plan – you still fail

The Trend

Interesting shift in Project management (sustainability at forefront)

