

Hammarsdale Waste Beneficiation Centre

From Industrial Development to Integrated Community Upliftment



Chris Whyte
Managing Director

From Industrial Development to Integrated Community Upliftment





What is the Hammarsdale Waste Beneficiation Centre?

The centre is designed to act as a showcase facility where different waste streams can be beneficiated and recycled and act as a driver for local job creation using incubators and Enterprise Development through community upliftment



History of the Project: Vision

The Hammarsdale centre was first conceived by eThekweni purely as a community collection and recycling facility.



TIMELINE:

- Feb 2011: Waste Buyback Centre Draft Complete
- Aug 2011: Submission to KZN Corridor Development Projects
- Sept 2011: Agreement of Grant KZNCogTA, R4,425M
- Oct 2011: No Available sites – ID new site
- Feb 2012: Planning for new site
- Nov 2012: Funding applications on extended concept

History of the Project: Components

Initially planned as a waste buyback centre only

Buy and sell plastics, glass, paper, cans

Project evolved to collection and processing

Glass, plastic, textiles, organic waste, e-waste

Evolved to beneficiation, training, incubation
and *upcycling*



History of the Project: Finances

The project was initially costed at R4.5 million., which included:

1. Capital Requirements: (R2.4 Million)
2. Awareness and Capacity Building (R810 000)
3. Operations and Management 1 year (R1.2 million)



Revised Project: New Vision

The Hammarsdale waste beneficiation centre is designed to **unlock the full value of recyclable waste in eThekwin**

Paper

E-Waste

Plastic

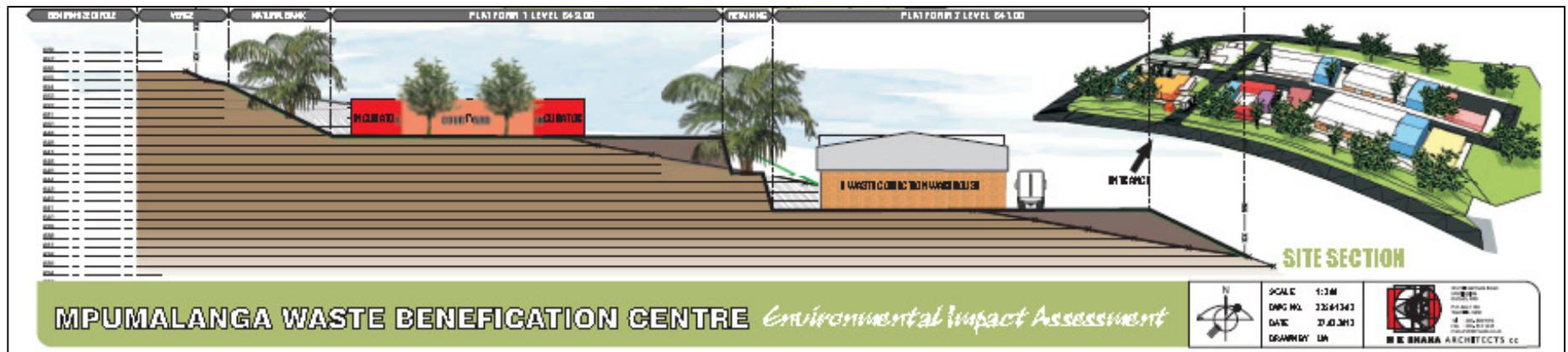


Glass

Organic Waste

Cans

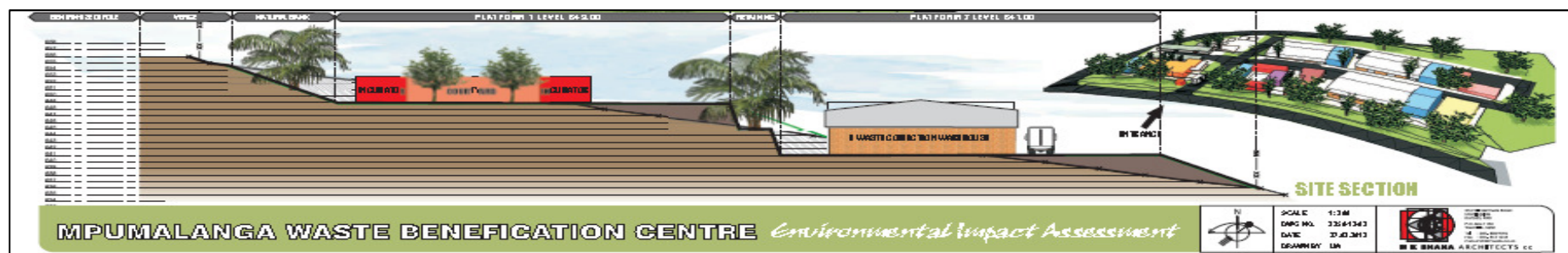
Compressed Earth
Blocks



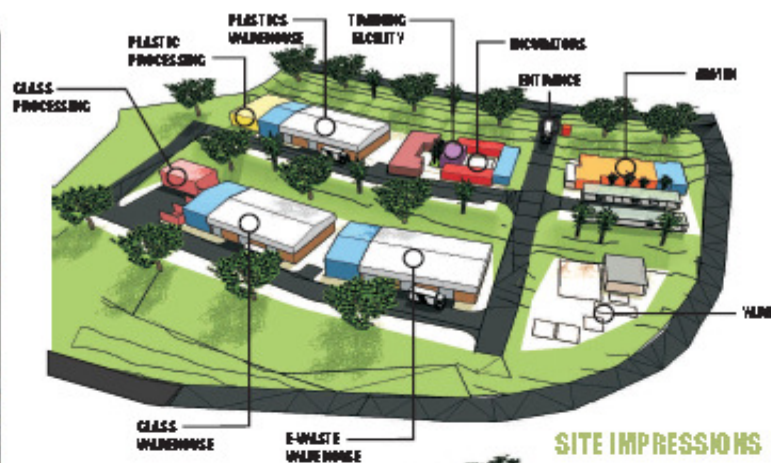
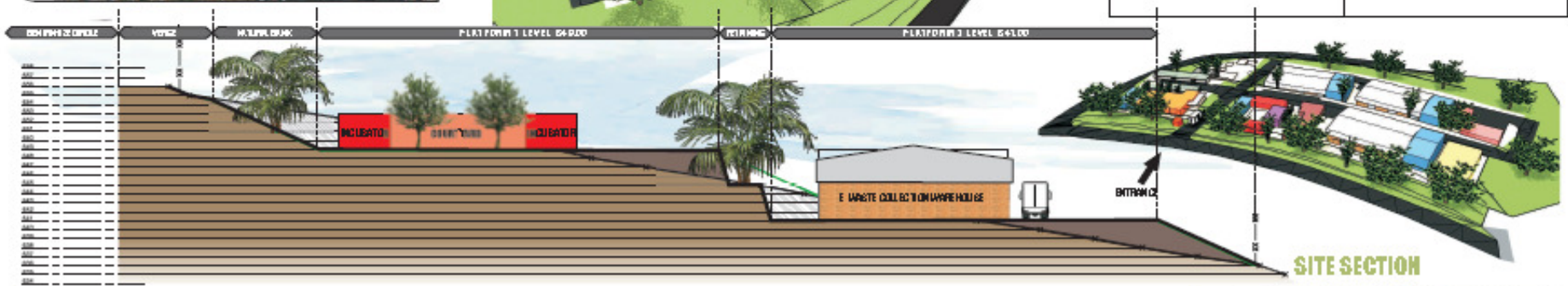
Revised Project: Components

Revised Project Components are shown below:

Initial Project Scope	Revised Project Scope
1.Community Recycling Collection Centre	1.Community Recycling Collection Centre
2.Up-cycling Incubators	2.Up-cycling Incubators
	3. Compressed Earth Block Yard
	4. e-waste Processing Centre
	5. Plastics Collection Warehouse
	6. Glass Collection Warehouse
	7. Training Block



Revised Project: Layout

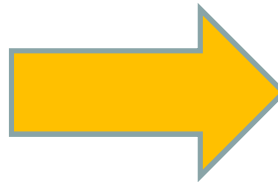
[illegible]MPUMALANGA WASTE BENEFICATION CENTRE *Environmental Impact Assessment*

Revised Project: Finances

The revised project scope resulted in a much larger required budget.:

Was R4.5 million

1. Capital Requirements:
(R2.4 Million)
2. Awareness and Capacity
Building (R810 000)
3. Operations and
Management 1 year (R1.2
million)



Now R29.6 million

1. Site Establishment: R1.3 M
2. Building: 12.8 M
3. Block Yard: R847 000
4. Site-works: R6.5 M
5. Capital Requirements
6. Operation and Management

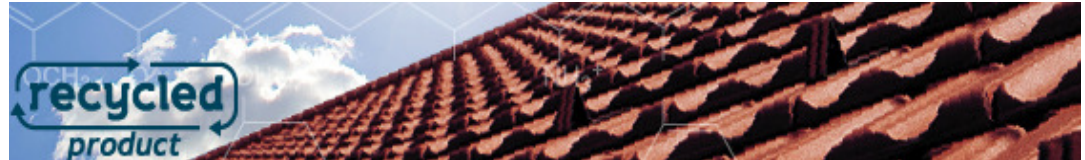


Ground Breaking Concept

First of its kind in the Southern Hemisphere!

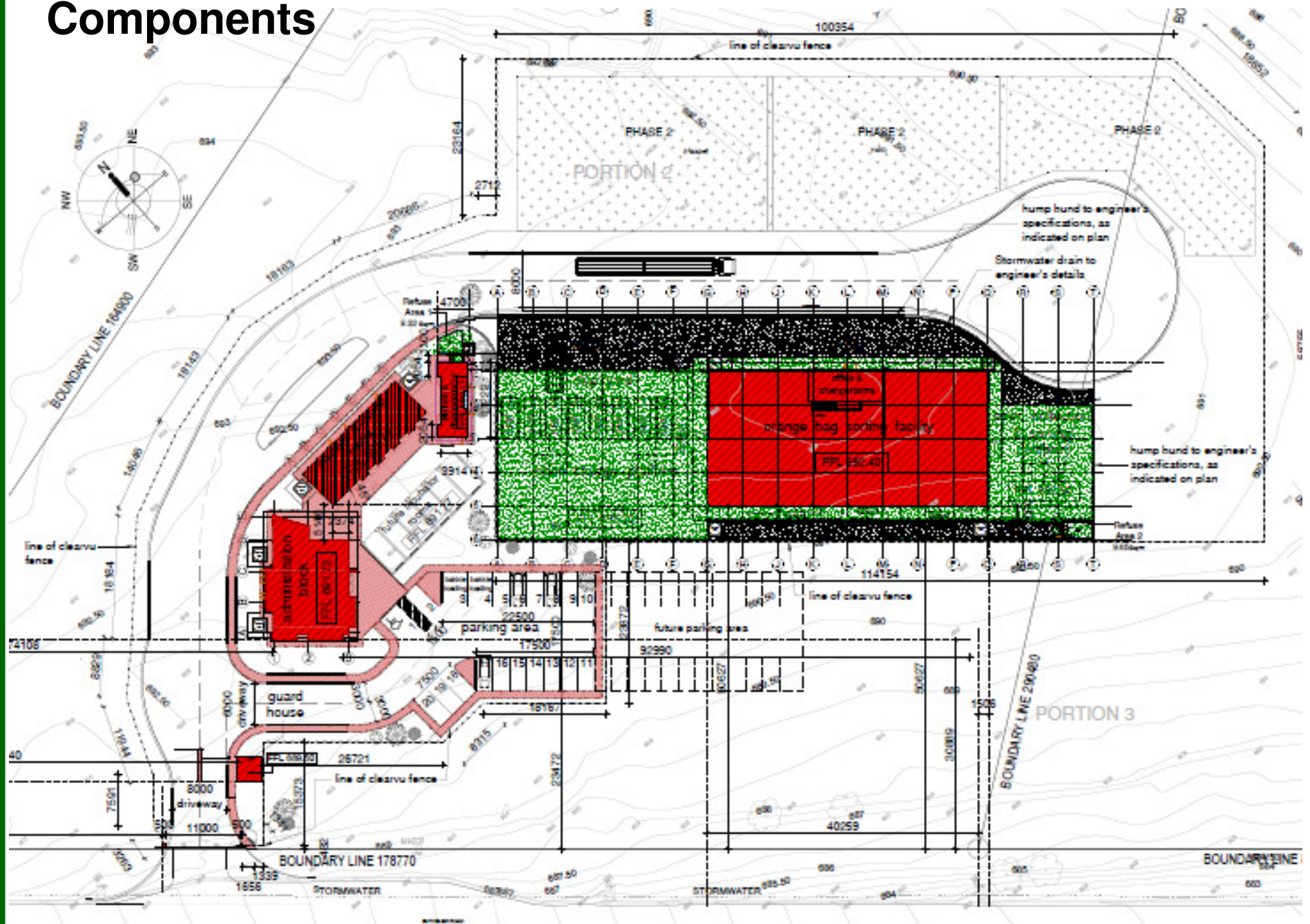
The Waste Beneficiation Centre will incorporate the following:

- Complete Green Building
- Rain water harvesting
- Recycled building materials
- Compressed earth block buildings, fill & gabions
- Solar water heaters and panels
- Engineered wetland for storm-water control - bioswale



Showcase intention of KZN on Sustainable Development

Components



Current Status

Complete 22nd August 2018

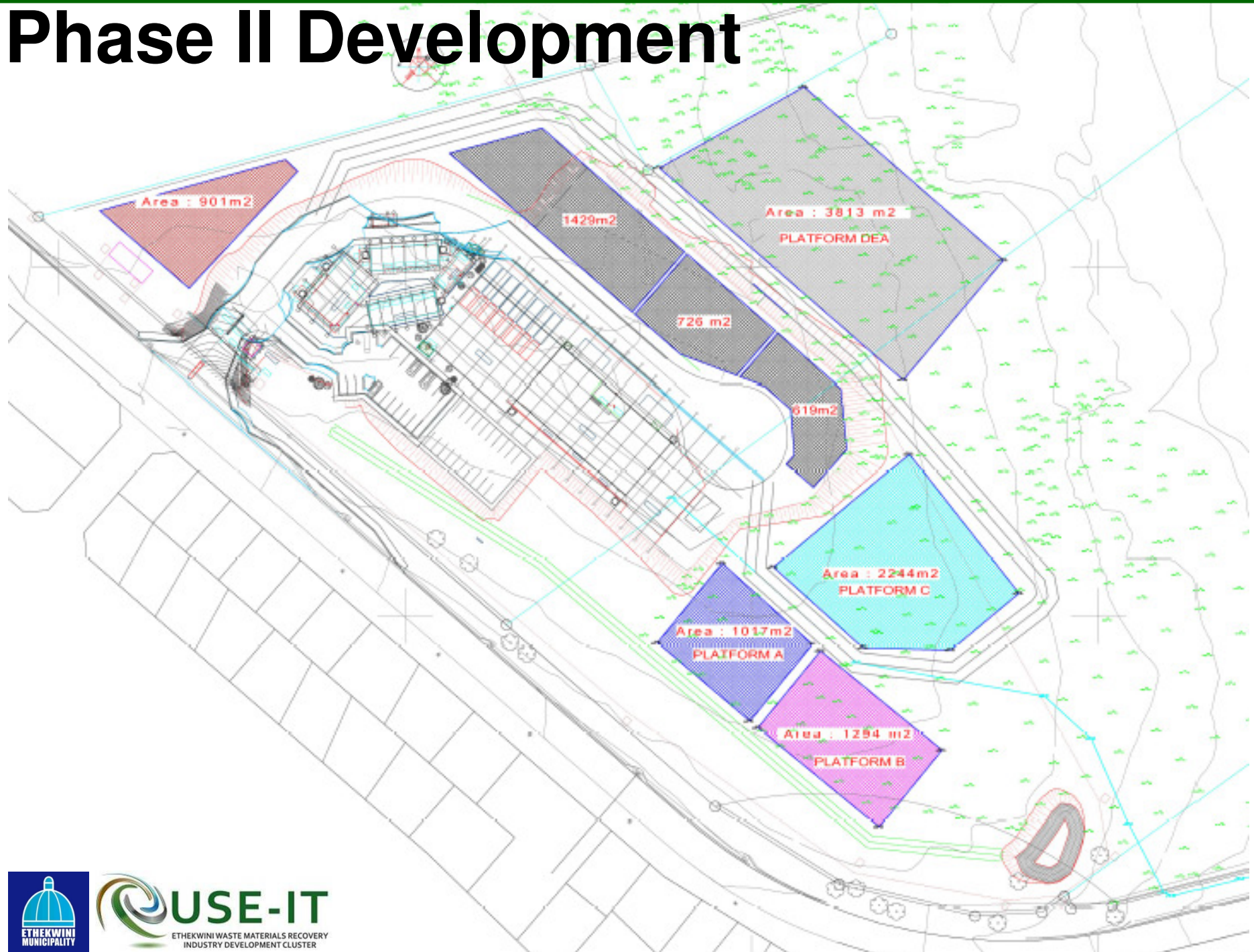


Integrated Community Upliftment

- This is not just another industrial development
- USE-IT provides facilities and compliance – catalytic development of Green Economy
- Met goals of 17% community contracts and 79% local labour in construction
- Key anchor tenants cover major infrastructure costs
- 10 incubators, training centre and visitor's centre
- Engage local industries to divert waste through local Enterprise Development options. Business skills and training to convert wastes to useful products provided in incubators
- Food Security, nutrition and Agri-Processing key deliverables to include community
- Community inclusion in waste project value chain



Phase II Development



Thank you for your attention

Any questions



Chris Whyte
Managing Director
www.use-it.co.za
Info@use-it.co.za
031-7652349