



## E-Waste Management Project in the uMgungudlovu District Municipal Area

Conceptualisation of an e-Waste MRF in Cedara and  
a Feasibility Study for the uMgungundlovu District

# E-Waste Management Project

## Goals of the Project



**eWASA**  
e-Waste Association  
of South Africa



*How much e-waste is produced?*



*How can a recycling system be implemented?*



*How can e-waste be disassembled?*

### *E-Waste Management Project in the uMgungundlovu District*

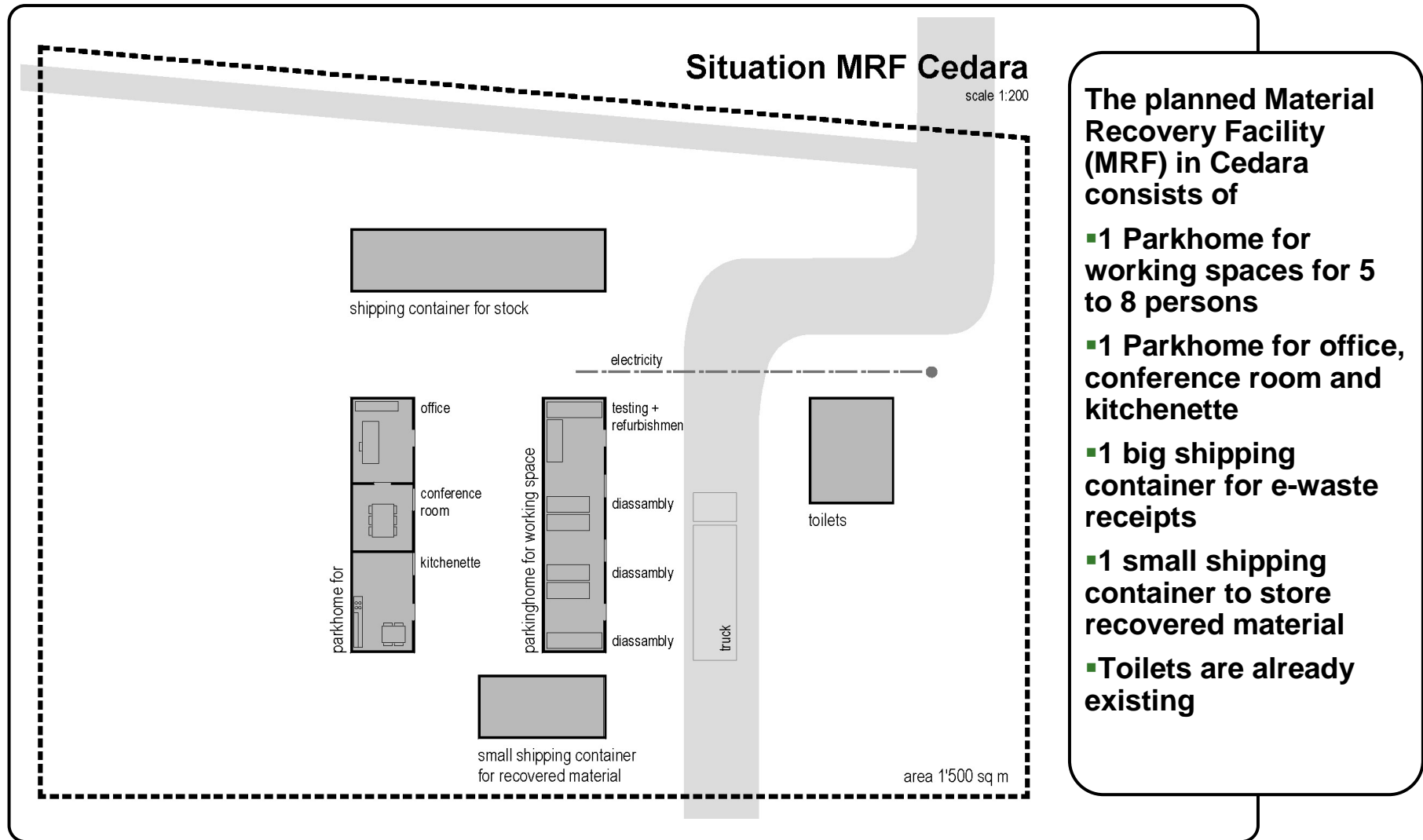
- (1) A Material Recovery Facility (MRF) in Cedara shall provide capacity as well as awareness about e-waste management**
- (2) A feasibility study for the uMgungundlovu District Municipal Area of the local municipalities shall provide a better understanding of the current and future e-waste situation**

# MRF Cedara

## Situation



**eWASA**  
e-Waste Association  
of South Africa



**To ensure an effective working process, an initial manpower of 6 to 9 is needed. According to the experience in the MRF in Maitland, Cape Town, the following setup of personnel is required to run the facility:**

Function	# Persons	Description
Coordinator	1	Coordination and organisation of the incoming and outgoing material, management of processes
Testing and Repair	1 – 2	Recovery of function: testing and repairing of incoming equipment, prepare equipment for second hand use
Disassembly	3 - 4	Stripping of equipment (mostly PCs, printers and monitors) Cleaning monitors Cleaning of the plastic casing recovered Cleaning and mechanical stripping of all wires
Waste to Art	1 – 2	Development of alternative consumer products out of recovered material
Training responsible	2	Two persons of the above mentioned staff are responsible for the working procedures within the training facility

# MRF Cedara

## Equipment



Equipment	Amount	Costs [in ZAR]	Total Costs [in ZAR]	Description
PPE	3 – 4	500	1'500 – 2'000	Overalls, masks, glasses, gloves
Tool kits	5 – 8	250 – 500	1'250 – 4'000	Basic working tools
Special tools	1	1'000	1'000	Blowers to clean up dust, hover, brushes
Work benches	8	1'000	8'000	Robust working tables (timber)
Scale	1	2'500	2'500	Scale to weight incoming and outgoing material
Power installation			3'000 – 5'000	Electricity installation
Office			1'500	Office table, shelf, chairs; computer and phone not included
Conference room			1'500	Table, chairs, Flipchart
Kitchenette			2'500	Microwave, cups, glasses, plates, little table, water boiler, plastic chairs
Other			3'000	Other equipment
<b>Total</b>			<b>25'750 – 31'000</b>	

- **What volumes and types of electronic waste is generated and stored by national provincial and local governments within the uMgungundlovu district municipal area?**
- **What measures are currently in place to reduce the generation of electronic waste by state institutions within uMgungundlovu district municipal area?**
- **What measures are in place to safely dispose of electronic waste generated by the state institutions within the uMgungundlovu district municipal?**
- **What constraints and risks exist with regards to recycling and reusing electronic waste generated by the state institution within uMgungundlovu district municipal area?**
- **What opportunities exist with regards to recycling and reusing electronic waste generated by the state institutions within the uMgungundlovu district municipal area?**

# Feasibility Study

## Survey

