

sustainable solutions to SA's waste challenges

-

Food Waste Management with Earthworms

SAFMA Presentation by
Carmen Nottingham
(11 May 2017)

www.fertilis.co.za



Sustainability: The Principle of the **5 R's**:

● RE-THINK

- reduce
- reuse
- recycle

This is the crucial **FIRST STEP BEFORE** any recycling can take place

The 3 R's are mainly used for **SOLID WASTE**
Paper, Plastic, Metal, Glass

● REGENERATE

Recycling **WET** waste leads to a valuable compost for soil rehabilitation - **AND** it can help **SAVE** the Planet!



www.fertilis.co.za



Some facts about Food Waste in SA: (CSIR studies)

13 million people go hungry every day

20% of households are FOOD Insecure

we throw away almost 10 million tons of food per year (more than the UK)

30% of all agricultural production ends up as waste to landfill

The total COST of FOOD waste is estimated at R61.5 Billion per year.

On a global scale - if food waste were its own country it would be the 3rd largest emitter of GreenHouse Gas behind China and the USA.

- we need a RE-THINK
- so that the PROBLEM becomes the SOLUTION



- CITIES, BUSINESSES AND CITIZENS CAN SAVE THE PLANET
- Taken from “Climate of Hope” by Carl Pope.
- The “Climate Crisis” is a symptom of multiple market and political failures, not a single free-standing “problem”.
- Leadership in implementing solutions is already emerging not so much from national governments, but from Cities, Businesses and active Citizens.
- Each “problem” has its own unique source and solution - an enormous short term OPPORTUNITY
- that can make our society healthier and stronger.

- RE-THINK from the bottom up:
- HOW our local actions can have positive and significant impacts on the world



Our Credentials:

We are the ORIGINAL Earthworm Castings producers and suppliers in South Africa (since 1990's)

We have extensive knowledge and expertise in using Earthworms to process waste and create a rich compost



www.fertilis.co.za





The *Eisenia foetida*, a humus earthworm

- can process FOOD WASTE,
- vegetative and garden waste,
- animal waste and even
- toxic wastes.



The waste EARTHWORMS ingest

- is converted into the highest quality,
- pathogen-free,
- micro-organism rich,
- pH balanced
- ORGANIC FERTILISER



www.fertilis.co.za



Managing waste on a large-scale with earthworms is already well-established on all Continents -

SA will benefit from an Earthworm Waste Management Industry skilling local people, using local resources, with minimal infrastructure.....supplying local economy....



- Support from the City and Business:
- to take in farmers/youth for training in earthworm waste management and composting
- to facilitate the establishment of a recycling and waste management INDUSTRY
- Which will create work, impart skills and produce a VALUABLE product to
 - Heal the soil and the Environment
 - Improve urban agricultural production
 - Grow healthy crops

Healthy soil, healthy crops, healthy people,
healthy environment

www.fertilis.co.za



BENEFITS:

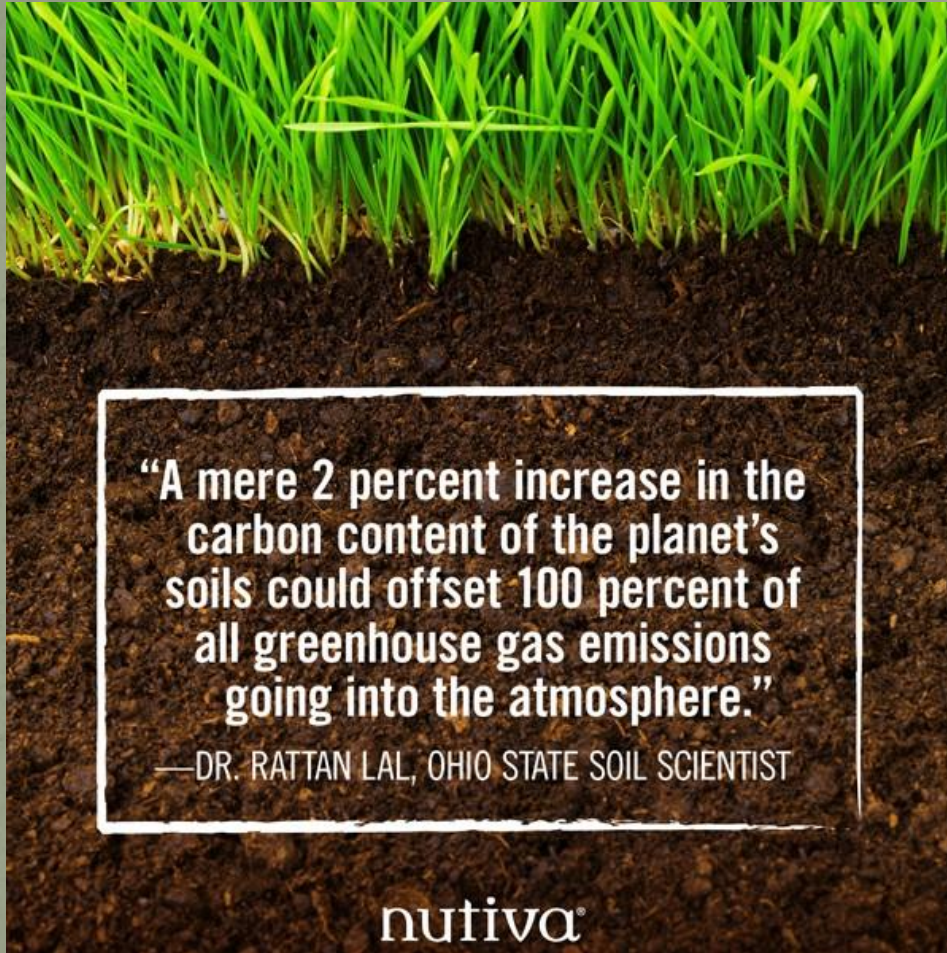
Manage waste AS A safe SOLUTION
Create jobs and farmer-preneurs
Alleviate poverty and hunger
Create a rich soil conditioner
Fulfill the Criteria of

- Heal the soil
- Heal the plants
- Heal the people and Environment

www.fertilis.co.za



Earthworm compost produced from WASTE WILL help REVERSE Global Warming:



www.fertilis.co.za



THANK YOU !

Contact Details

Carmen Nottingham
083 255 5828

120 Lourens Drive
Beaulieu
Kyalami

carmen@fertilis.co.za

www.fertilis.co.za

