



CROPNUTS
grow more, with less

Role of laboratory testing on food safety

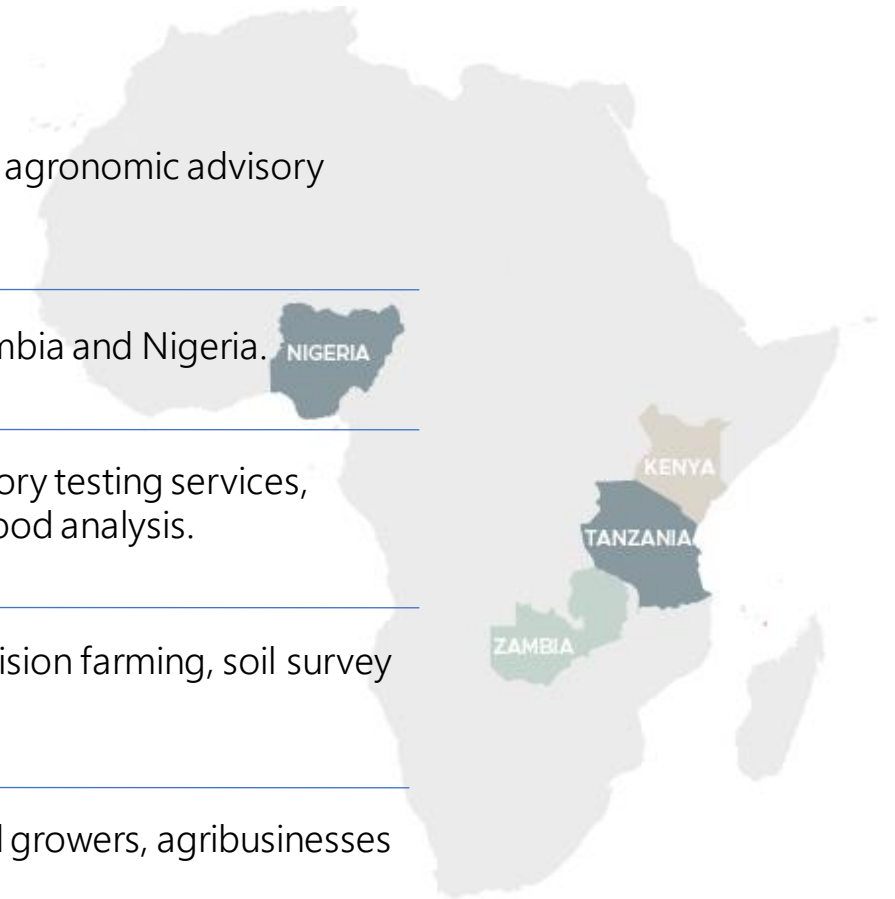
Rose Nyakundi - CROPNUTS



Who is Cropnuts?



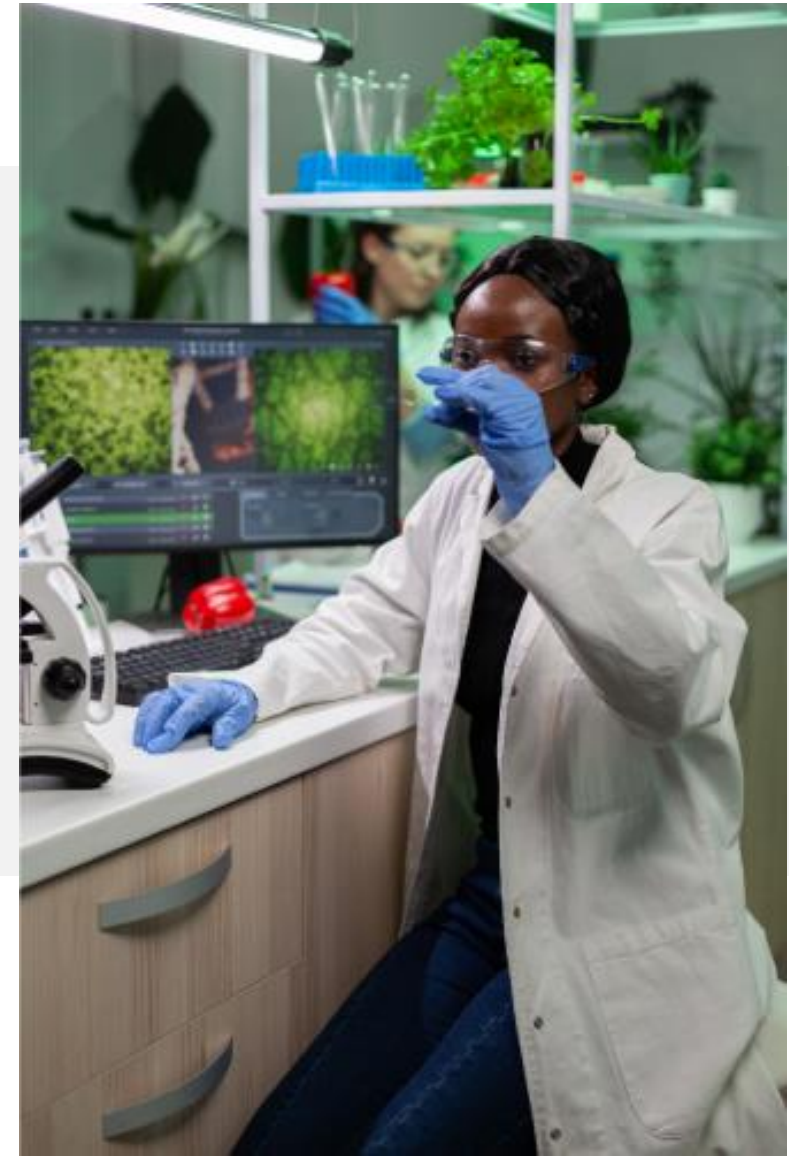
- 1** **Cropnuts** is an independent agricultural testing and agronomic advisory business operating across Africa for past 22 years.
- 2** **Cropnuts** has local presence in Kenya, Tanzania, Zambia and Nigeria.
- 3** Offers a wide range of **ISO 17025** accredited laboratory testing services, including soil, water, plant, fertilizer, animal feed & food analysis.
- 4** Also offers agronomy advisory services such as precision farming, soil survey mapping, and agronomic field support services.
- 5** **Cropnuts'** services are targeted towards commercial growers, agribusinesses as well as small-scale farmers.



Introduction

Objectives of the lab

- 1 Avoid guess work in fertilization, pesticide application
- 2 To satisfy compliance standards
- 3 Monitoring food systems and safety



Implications of laboratory testing



- 1 Informed decision making

- 2 Adaptation and mitigation of climate change

- 3 Economic feasibility and validation

Our core services for vs food safety

Soil Nutrition Analysis

- 1 Checking for Macro and Micro elements
- 2 pH and EC, C.E.C , Total nitrogen, C/N ratio and organic matter.
- 3 Presence of heavy metals



Fertilizers

- 1 Confirm the composition as specified by the manufacture
- 2 Check for heavy metals



Manure compost



- 1 Checking for Macro and Micro elements
- 2 pH and EC, C.E.C , Total nitrogen, C/N ratio and dry matter.
- 3 Presence of heavy metals

Pesticide residue levels

- 1 Crop injury caused by > 50,000 pathogens, 900 insect and mite pests and 800 weeds
- 2 Pesticides indispensable but if not used responsibly detrimental
- 3 Done in partnership with **Groen Agro control Lab**
- 4 Check both the pesticide active ingredients and their metabolites

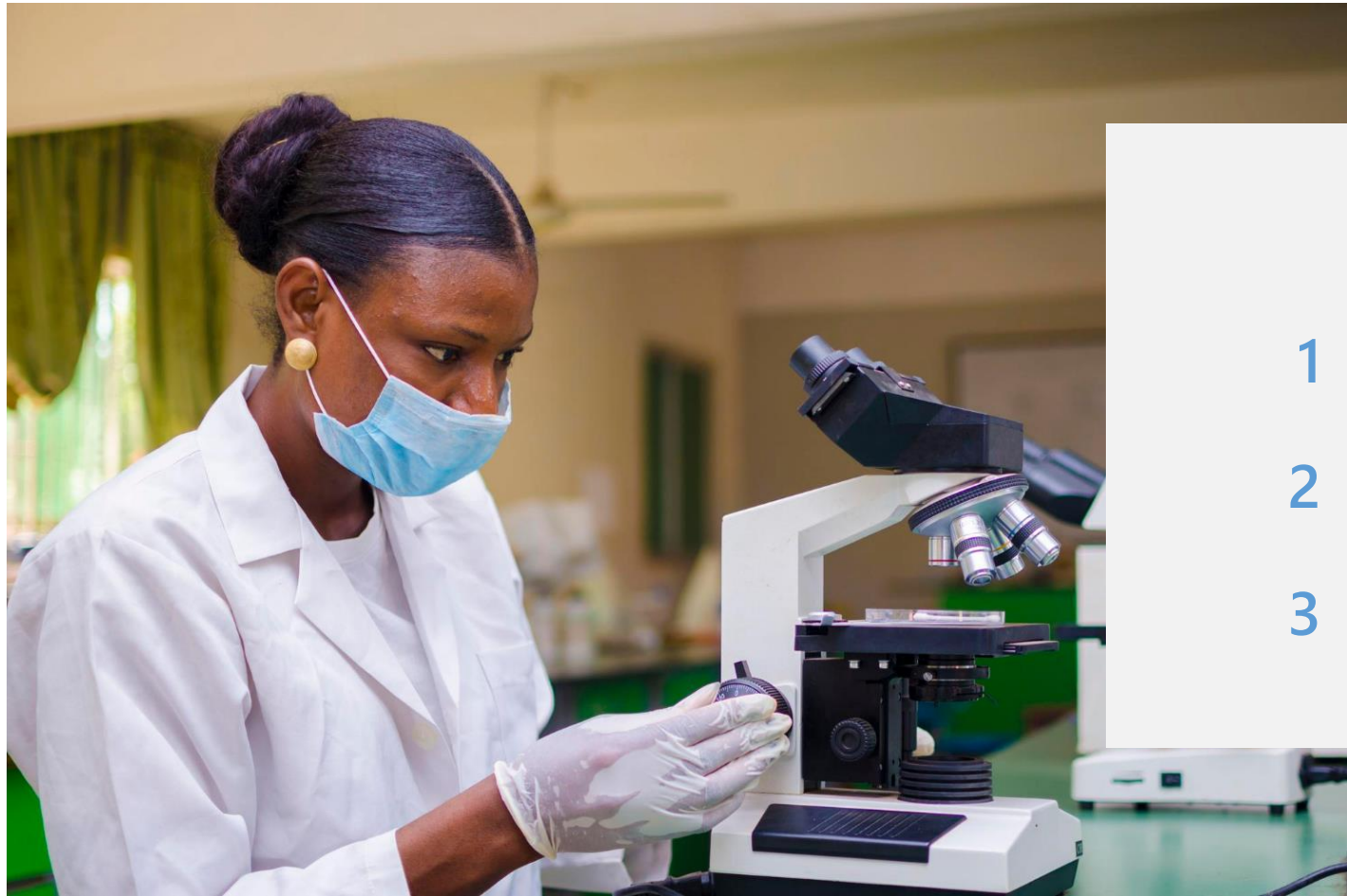


Groen Agro Control
LABORATORIUM ONDERZOEK & ADVIES



MRL Menace?

Entomology and pathology services are offered at **CROPNUTS**



Benefits

- 1 Customized recommendations
- 2 Customized spray program
- 3 Technical support

NEMA

This is done for compliance to the NEMA regulations on effluent water management.

Heavy metal analysis done among other parameters.

Microbial analysis done

Important that water released to the environment is safe.

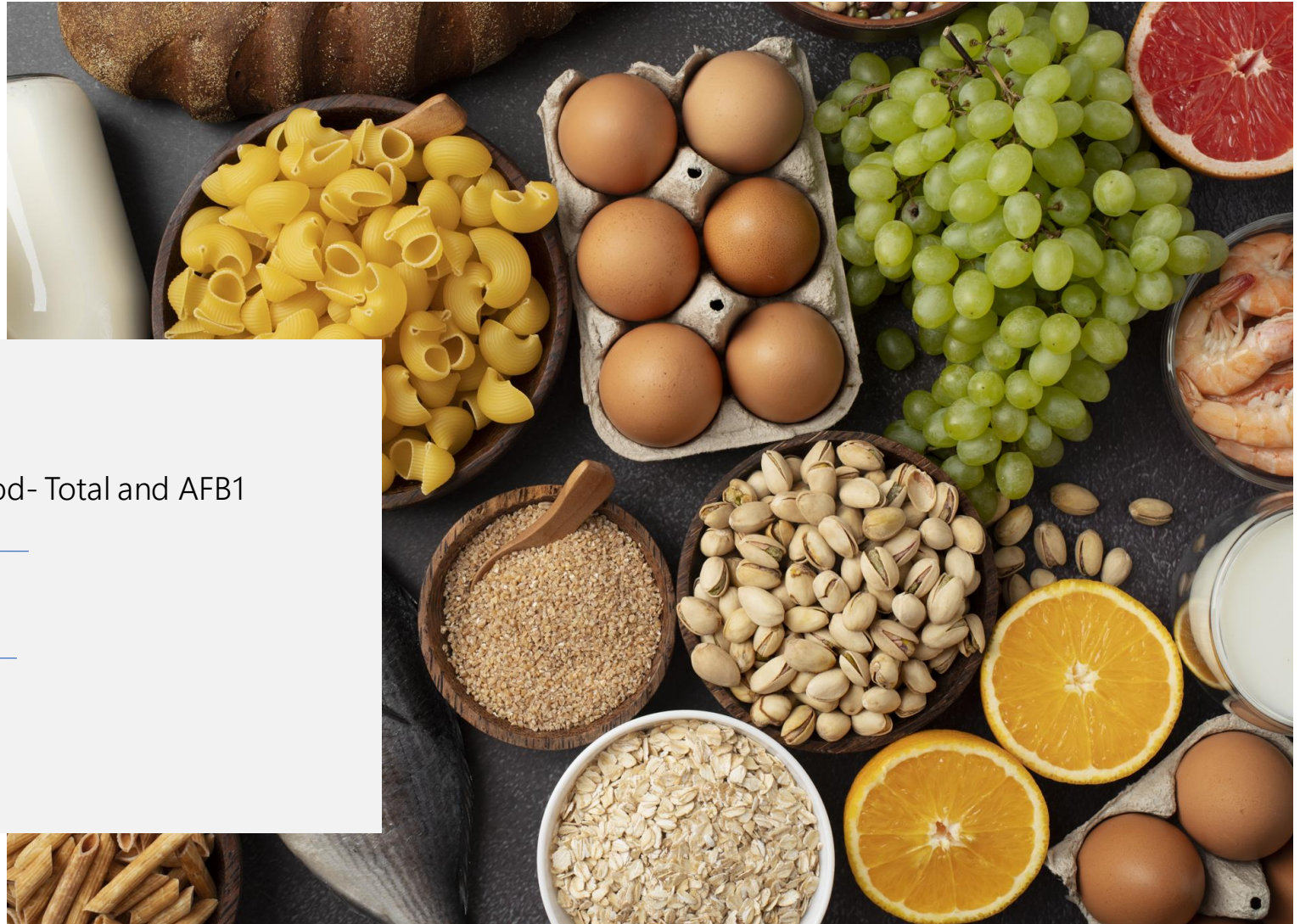


Food safety

- 1 Aflatoxin testing in feed/ food- Total and AFB1

- 2 Microbial analysis

- 3 Heavy metals in food



Opportunity



Have a policy frame work for MRL testing for both
export and local market



Remember



Laboratory analysis is crucial in
food safety management



Acknowledgement



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The Digital Marketing Manager **Cropnuts**





Thank you for your attention



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