



Overview of

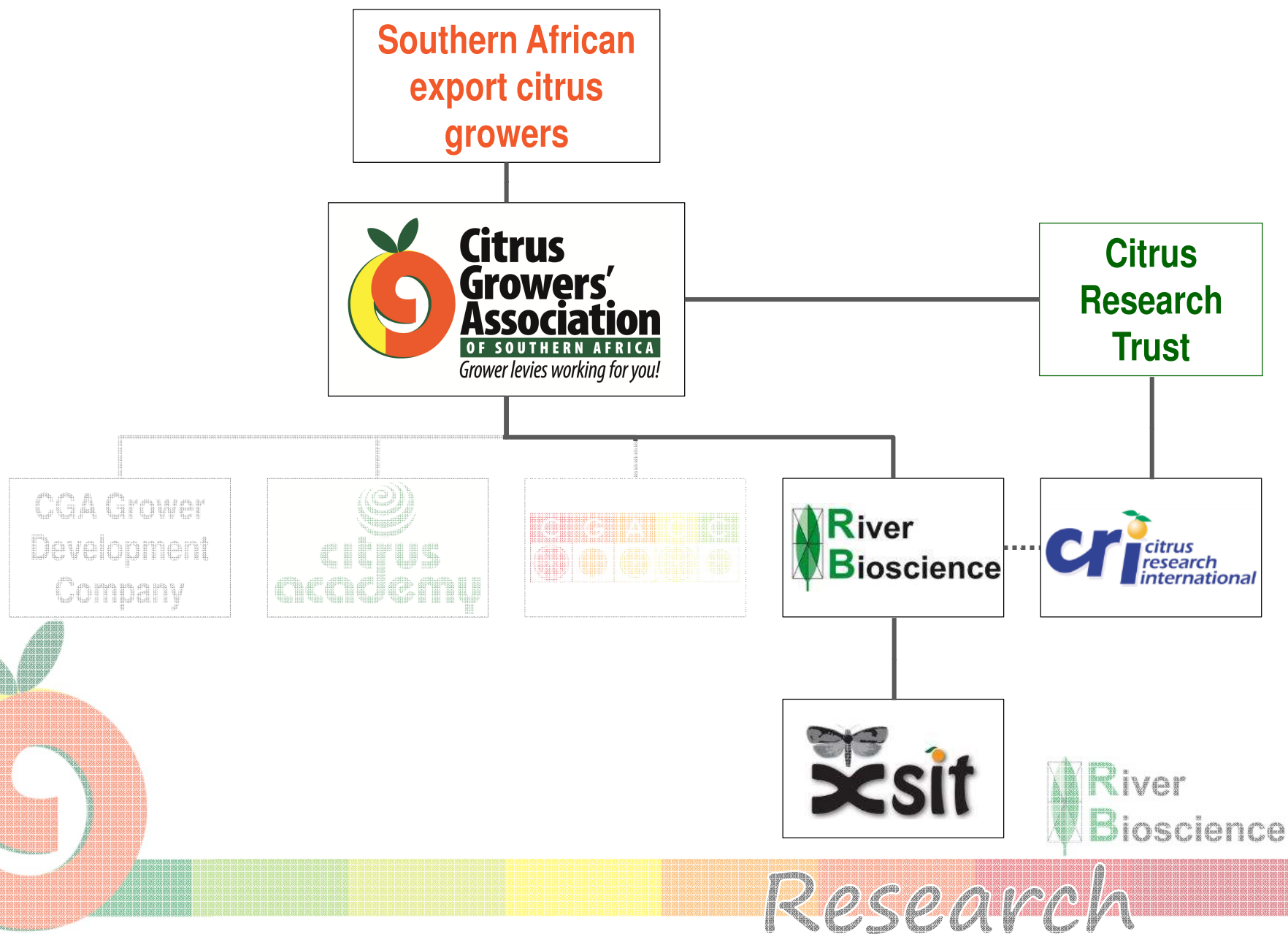


Keith Danckwerts
General manager



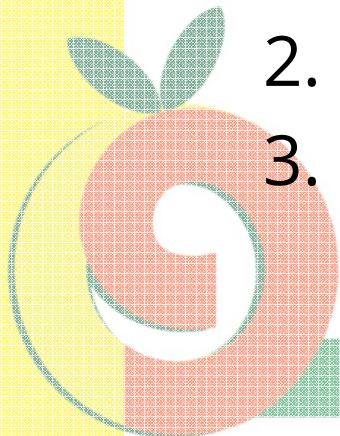
CGA CITRUS SUMMIT
Research

Group Structure



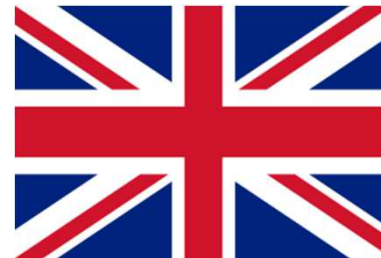
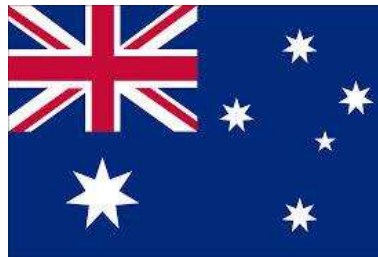
Main Objectives

- Manufacture and market biological controls which keep the South African citrus industry competitive in the world market.
- Generate income for the citrus industry
- Use Income for:
 1. New Technologies
 2. New Research and Development
 3. Sustainable levies

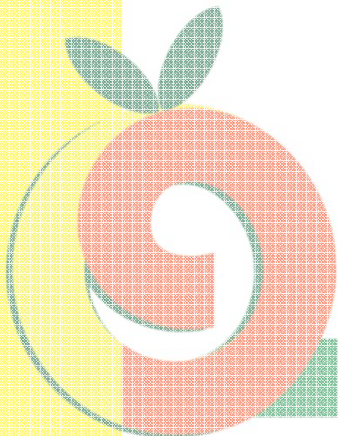


Vision

- Africa's leading biological control company
- World's first 100% biological insect control citrus industry
 - No residues
- International sales partnerships



Research



Main Products

Fruit Fly

M3 VRUGTEVLIEG LOKSTASIE™

Veilige, maklike en doeltreffende
beheer van vrugtevlieë



Bollworm

HELICOVIR™

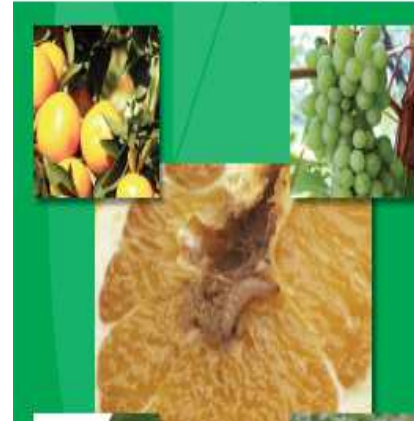
Biological control of the
bollworm larvae



FCM

CRYPTOGRAN™

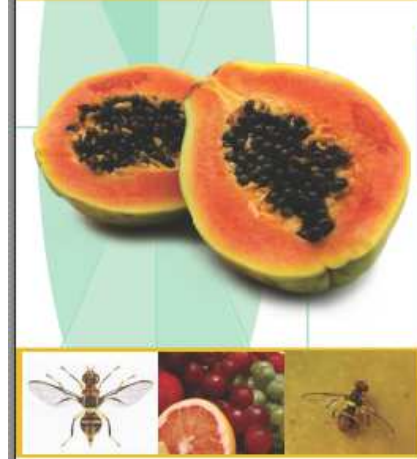
Biologiese beheer van die
valskodlingmot



Batrocera flies

INVADER-b-LOK™

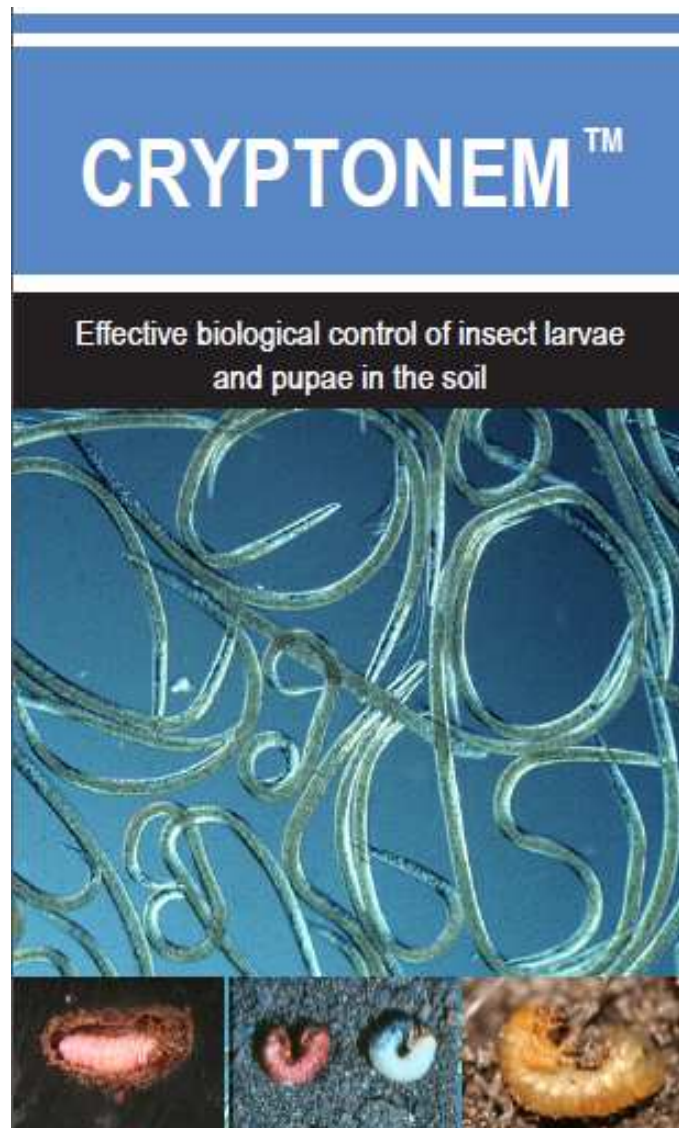
Effective control of
African invasive fruit fly



River
Bioscience

Research

New Products



False Codling Moth

Weevils

White Grubs



Research

2014 Successes

HELICOVIR

Bollworm



- Registration extended to **66 crops**, including:
 - Apples
 - Vegetables
 - Maize
 - Cereals



Fig. 2. A scanning electron micrograph of the *Helicoverpa armigera* nucleopolyhedrovirus (HearNPV).

2014 Successes

CRYPTOGRAN

False Codling Moth

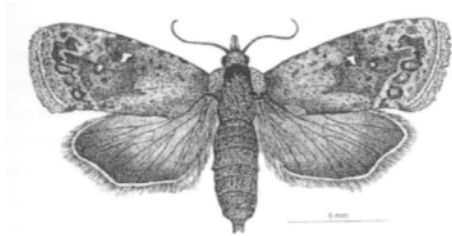
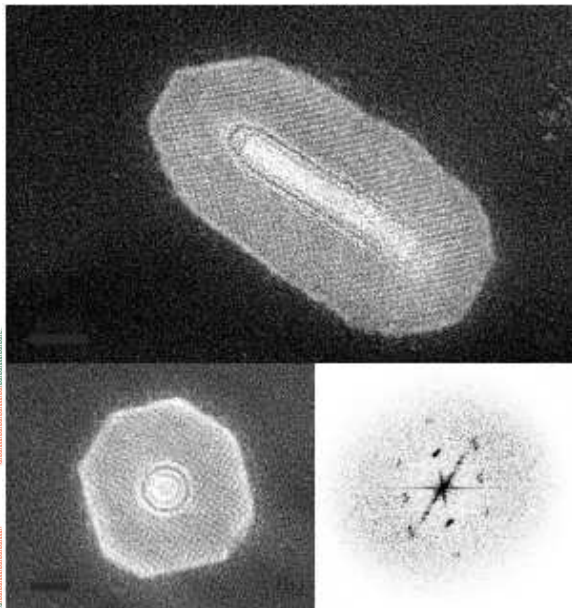


Fig 1.1. *Thaumatotibia leucotreta* moth (Pinhey, 1975).



- Registration extended to **12 crops**, including:
 - Table grapes
 - Macadamias
 - Stone fruit
 - Peppers
- Allows more opportunity to generate income from outside the citrus industry



Research

2014 Successes

CRYPTONEM

False Codling Moth, Weevils, White Grubs



- Further expansion of market in citrus and other industries

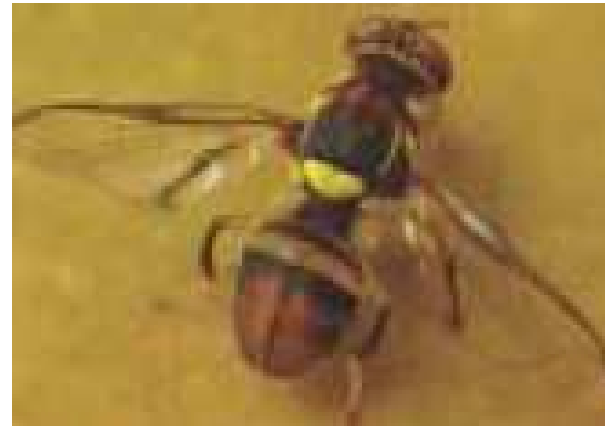
Photos: Dr. Jeanne De Waal

River
Bioscience

Research

2014 Successes

Invader-*b*-lok a.k.a. ME Block MAT Block



- Distribution agreements in Africa

2014 Successes

M3



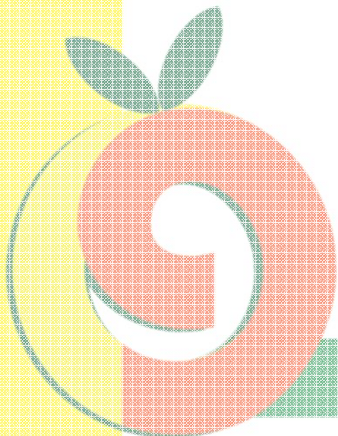
Distribution in South Africa



Noordchem



Research





Thank you



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