

**RESEARCH
MEETS
INDUSTRY**

**STUMBLING BLOCKS IN THE MOVE TOWARDS ORGANIC FOOD
PRODUCTION IN SOUTH AFRICA WITH SPECIFIC REFERENCE TO
TEMPERATE FRUIT PRODUCTION**

Hein Coetzee

Which one will you buy?



VS



20-70% Price Premium!!



Industry Problem?

Growing Demand for Organic Apples and Pears

Supply available from:



Argentina



New Zealand



Italy



France



Poland



China



NO SUPPLY!! - SA

What is Organic Food/Fruit?



Organic farming is the concept of producing food in a sustainable manner with a balance between agroecological approaches and productivity (Niggli, 2015).

Allen and Alabala (2017) simplistically just defines “Organic” as the way in which agricultural products are grown without the use of pesticides and chemical fertilizers.

The demand for organic food is currently getting considerable traction due to consumer perception that organic foods are safe to consume and environmentally friendly (Darnhofer et al., 2010; Hoefkens et al., 2009).



Organic Demand - Worldwide



WHY?

Food Safety and Health (Aschemann et al., (2007); Kranjac et al. (2017)

Environmental protection and sustainability (Aschemann et al., 2007).

2020 - **€120,6 Billion**

Global Sales (Willer et al. 2022)



South African Demand



Not as large as USA and Europe, but definitely there in Retail

WOOLWORTHS



Pick n Play

Checkers

No or very little supply in South Africa



Global Production of Organic Food



2020
All Food types - Global
 74,9 mill ha
 3,4 mill growers
 4,1% growth from 2019

2020
Temperate fruits - Global
 256 000 ha



Apples -107 776 ha – 42,01%
Pears -21 888 -8,55%
Apricots –33 280ha - 13%
Plums – 20 480ha - 7,8%
 (Willer et al., 2022)

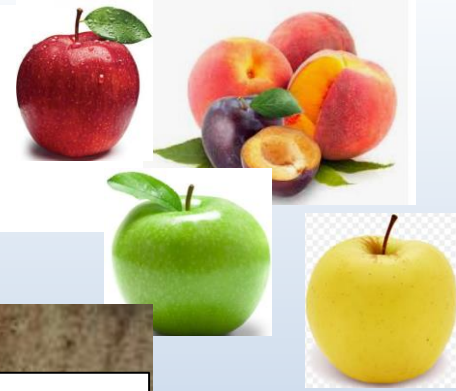
2017
Temperate Fruits – SA
 14ha

ACTUALLY NONE!

China – 51400ha **Spain 5936 ha**
France 16 535 ha **USA 18 130 ha**
Italy 19 304 ha
Check Republic 3449 ha
Turkey – 20 268 ha
Poland – 10 008 ha

(Willer et al., 2022)

Benefits and Challenges of Organic Production



Benefits

- Increased Bio-Diversity
- Increased Soil Fertility
- Increased Water holding capacity
- Higher organic matter content
- Enhance carbon storage
- No use of synthetic pesticides
- Increased demand
- Higher returns

Gomiero et al., (2011); Niggli, (2015)

Challenges

- Increased Pest and Disease risk
- Lower yields
- Cumbersome and expensive certification process

Purpose of Research



Determine the main stumbling blocks in the production of organic food in South Africa

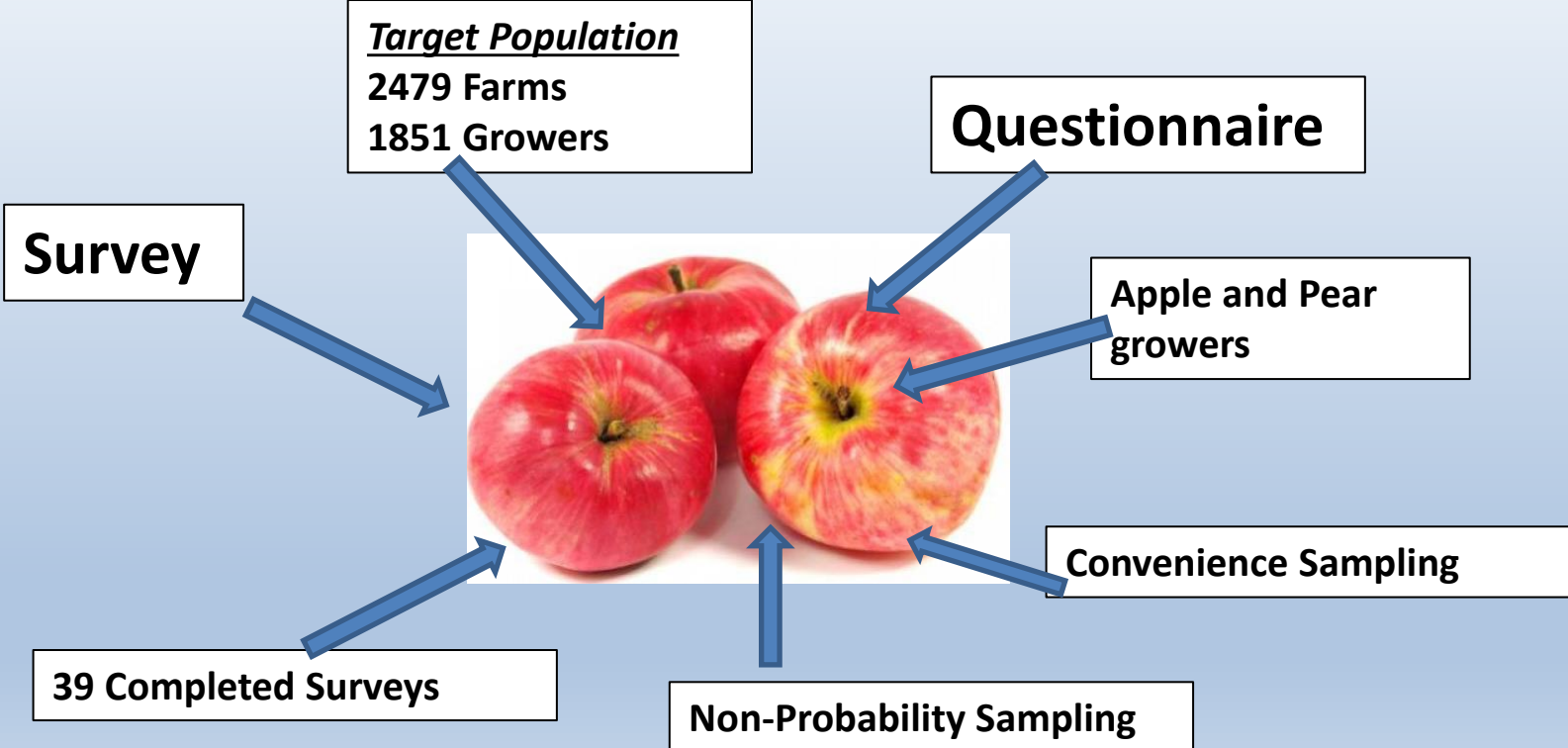
Measure: Willingness of growers to produce organically

Most important Stumbling Blocks

Most important Motivational Factors

? How can Industry get growers to produce fruit Organically?

Research Method



Results and Discussion



Current Status

Answers from growers in questionnaire

0%

Of growers are formally Certified Organic (Currently)

67%

Of growers are of the opinion that they apply some organic techniques

28%

Of the growers are of the opinion that they can apply more environmentally safe farming practices



Results and Discussion



Perception about fruit growing

Growers

Agree

that consumers are becoming more concerned about food safety

Growers

Agree

that consumers are becoming more concerned about HOW food is produced

Growers

Agree

that consumers perceive Organic fruit to be more safe for human consumption



Results and Discussion



6 Most important Stumbling Blocks to convert to Organic

1. Lack of knowledge about organic production and having to learn something new

2. Lack Government support

3. The three year conversion period can cause financial distress

4. The cumbersome and difficult certification process

5. Price premiums cannot be guaranteed

6. Pest and disease risk

Expected to be number 1



Results and Discussion

4 Most important motivational factors in order to convert to Organic production



1. The internal conviction to farm more sustainably and environmentally friendly

2. Financial reward from increased demand – *expected to be nr1*

3. There must be someone to share the risk

4. The need for SUCCESS stories



Results and Discussion

Willingness to convert is low



**Willingness to convert whole farm
to organic**

Or

**Willingness to convert part of farm
to organic**



**Willingness to convert some
practices to organic**

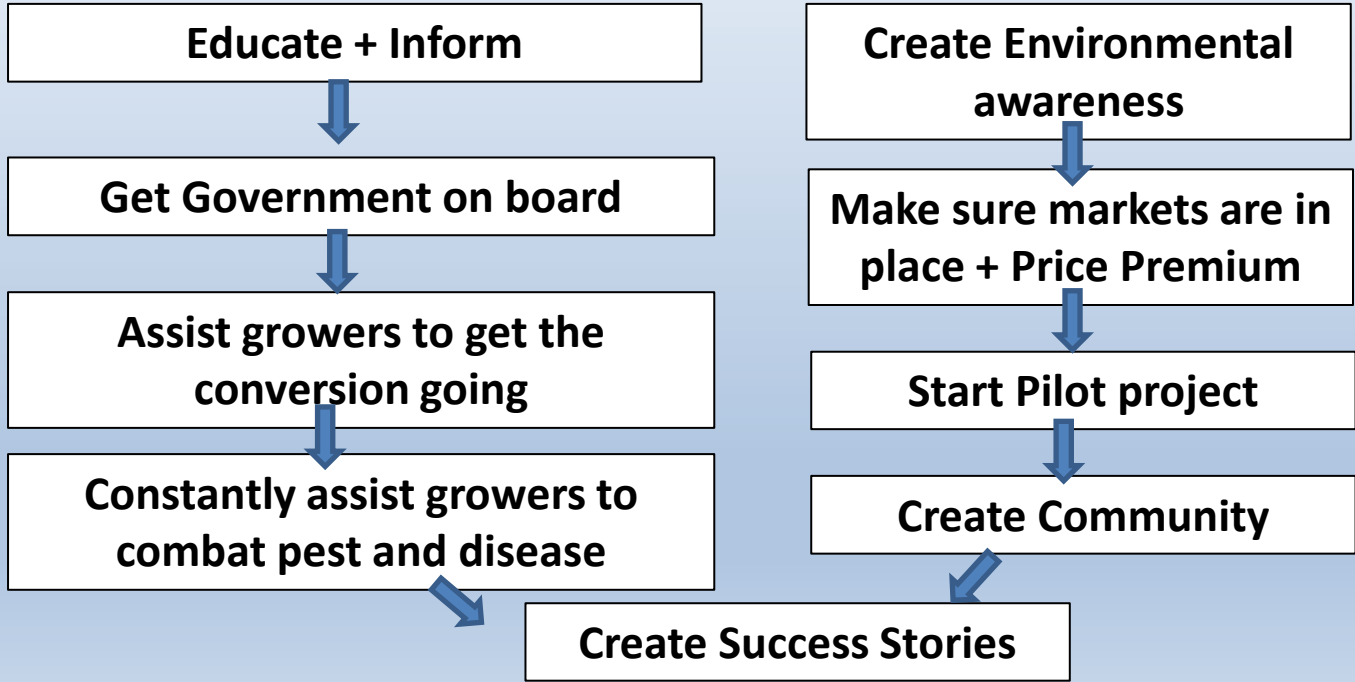
or

**Willingness to convert other
sustainable initiatives**

Contribution to Research and Practice



Suggested Action plan



Summary



In order to start producing Organic Temperate fruit – start with the right **FOUNDATION**

Inform and Educate / Pilot projects

Create an intense awareness about conservation of the planet

Create Success Stories

Starting with \$\$\$\$ will not work!



Special thanks:
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Thank You

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