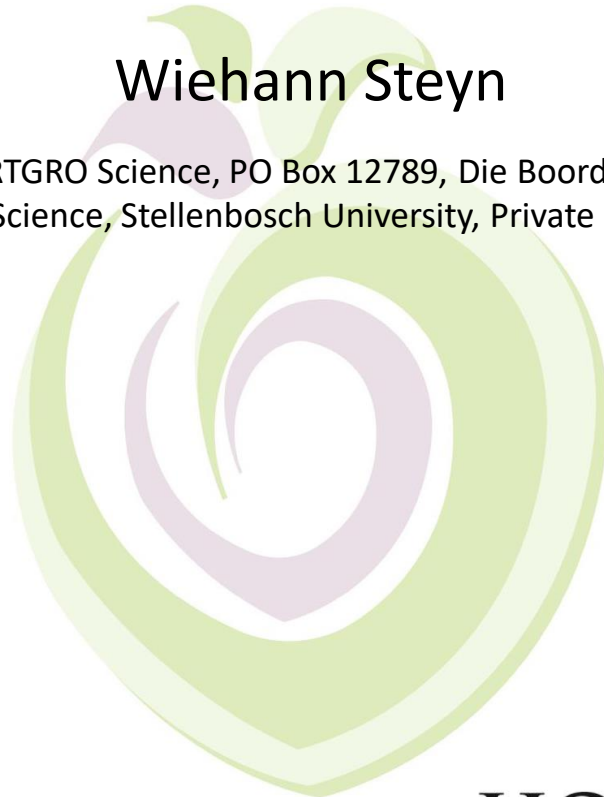


# HORTGRO Postharvest Pome Fruit Research

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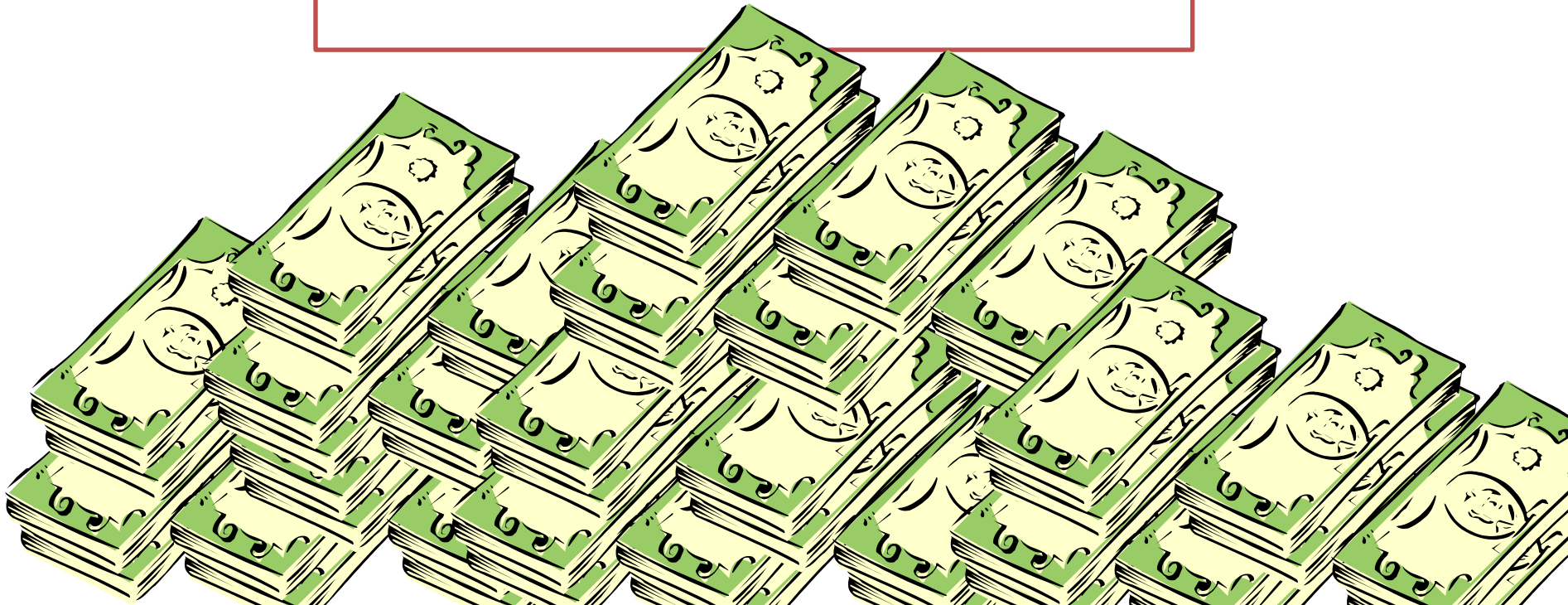
# CONTENT

- HORTGRO background.
- Postharvest research objectives.
- Postharvest research needs.

# OVERALL OBJECTIVE




Staying competitive

Staying in business



# RESEARCH

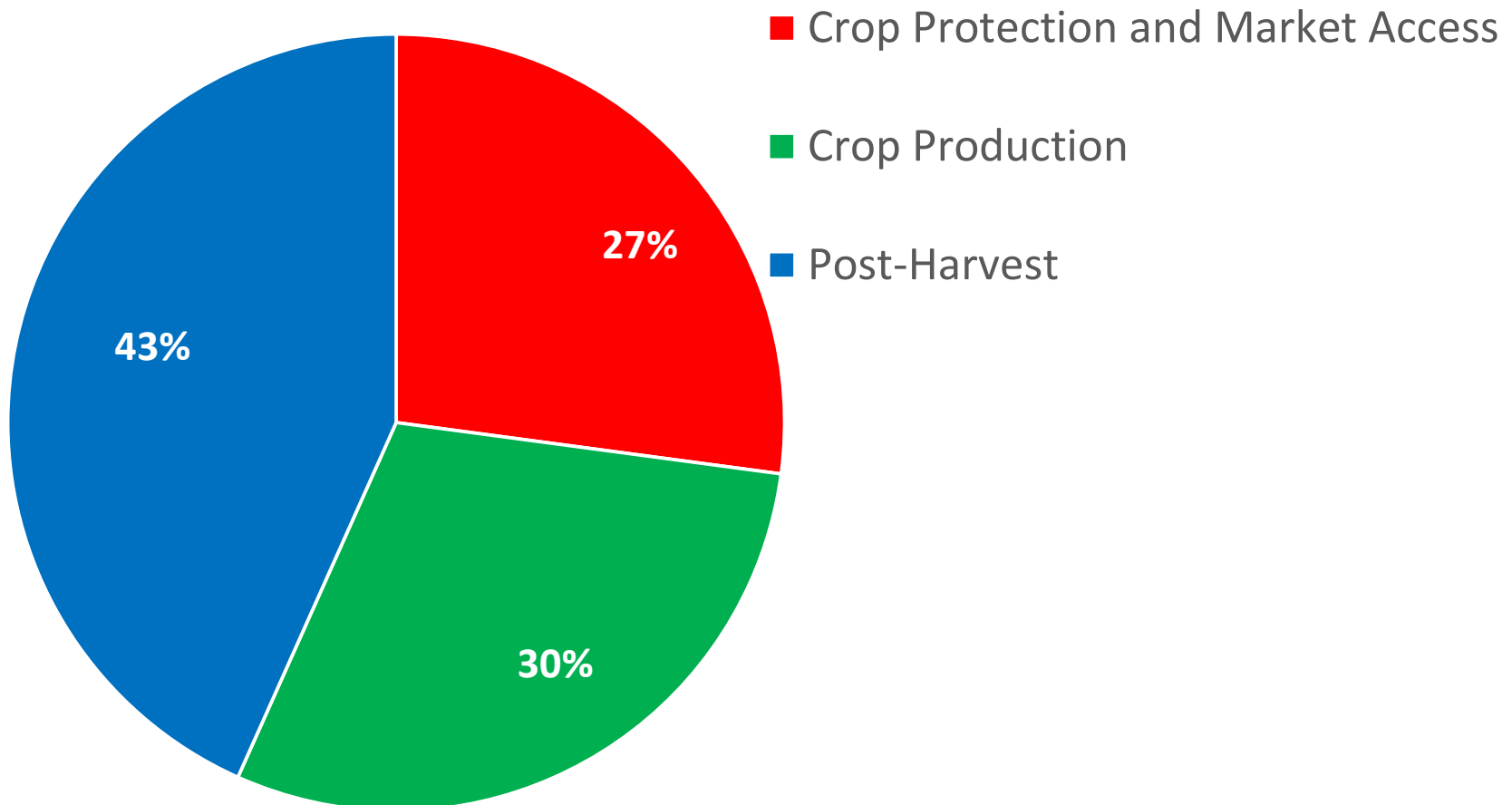
Addressing present & future challenges by:

-  Providing a constant stream of well-trained **people**.
-  Developing **technology**.
-  Creating **knowledge**

# POSTHARVEST RESEARCH OBJECTIVES

- Provide a safe product of reliable, good quality
- Reduce wastage and losses from defects and pathogens
- Increase efficiencies throughout the postharvest value chain
- Increase sustainability of postharvest practices
- Reduce risk within the postharvest value chain

# FUNDING ALLOCATION – 2018/19



# RELEVANT RESEARCH

AHAJOKES.COM



*"Up and Left!"*

# CURRENT POSTHARVEST RESEARCH

## QUALITY MANAGEMENT

- Moisture loss and shrivel (incl. edible coatings)
- FEMA
- Water deficit impact on quality and storability
- Ethylene management
- Maintenance of green colour
- CO<sub>2</sub> sensitivity
- Storage/ripening protocols



# CURRENT POSTHARVEST RESEARCH

## PHYSIOLOGICAL DEFECTS

- Internal browning
- Superficial scald
- Lenticel disorders
- Textural disorders such as mealiness
- Internal heat damage
- Effect of environment on various disorders

# CURRENT POSTHARVEST RESEARCH

## PACKAGING and LOGISTICS

- Packaging systems in High Cube containers
- Temperature/humidity regulation in containers
- Plastic alternatives/reduction
- AI – quality monitoring

# CURRENT POSTHARVEST RESEARCH

## STORAGE TECHNIQUES

- Performance evaluation of different storage equipment/techniques
- Determine optimum storage protocol/best practice guidelines
- Evaluation of non-chemical sanitation techniques
- Evaluation of cooling regimes

# CA-SPECIFIC RESEARCH NEEDS?

- .....
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