



AGRICULTURAL RESEARCH COUNCIL Portfolio Committee Hearings on Transformation

September 2010



ARC MANDATE PER ACT

Conduct research, development and technology transfer

- Outcomes
 - Contribute to better quality of life
 - Facilitate/ensure natural resource conservation
 - Promote agriculture & industry
 - Contribute towards agriculture development
- Finds expression in the ARC Strategic Plan core programmes
 - **Research and Development**
 - **Technology Transfer**
- Enabled by and aligned to
 - Government Legislation & Policy
 - Medium Term Strategic Framework priorities
 - DAFF Strategic Plan

Focus on Transformation

- Mandate
- SETI Review
- Council recommendations

STRATEGIC OBJECTIVE 5

Technology Transfer

RATIONALE

- Creation of value from Agricultural R&D
- Contribute to poverty reduction objectives
- Contribute to **growth in agricultural sector** through Tech Transfer and adoption programmes
- Contribute to **increase in exports** through the dissemination of technological innovations

Smallholder farmers

R200 000 annual income/5ha

- African Leafy vegetable
- Makondeni Village
Chief Nematikongwe
- 5 ha R200000
income
- Increasing to 14ha



Agro-Processing

Fruit Juice

- Formulate beverage
- Packaging
- Producing 280 per hr
- Requirement to develop markets



**‘Sonet’ early
maturing seedless
mandarin good
internal qualities
Excellent flavour
Easy peeling – thin
rind
Ripens in late March
The cultivar will be
released for
commercial
production**



The new ‘Sonet’ selection

SmartFreshSM technology & Commercialization in South Africa

Control



SmartFresh Treated



ROOF WATER HARVESTING PROJECT

- Supplemental irrigation reduces risk of crop failure and increases yields
- Improved household food security
- Poverty alleviation

BENEFICIARIES:

- 118 households received water harvesting tanks and 1000 farmers were trained in in-field rainwater harvesting and supplemental irrigation techniques
- Community farmers enjoy household food security throughout the year and sell excess produce
- With further funding the project could be expanded to benefit more farmers in other areas



Banana success continues Vemba Now Commercial Farmer



Fruit Garden in Eastern Cape

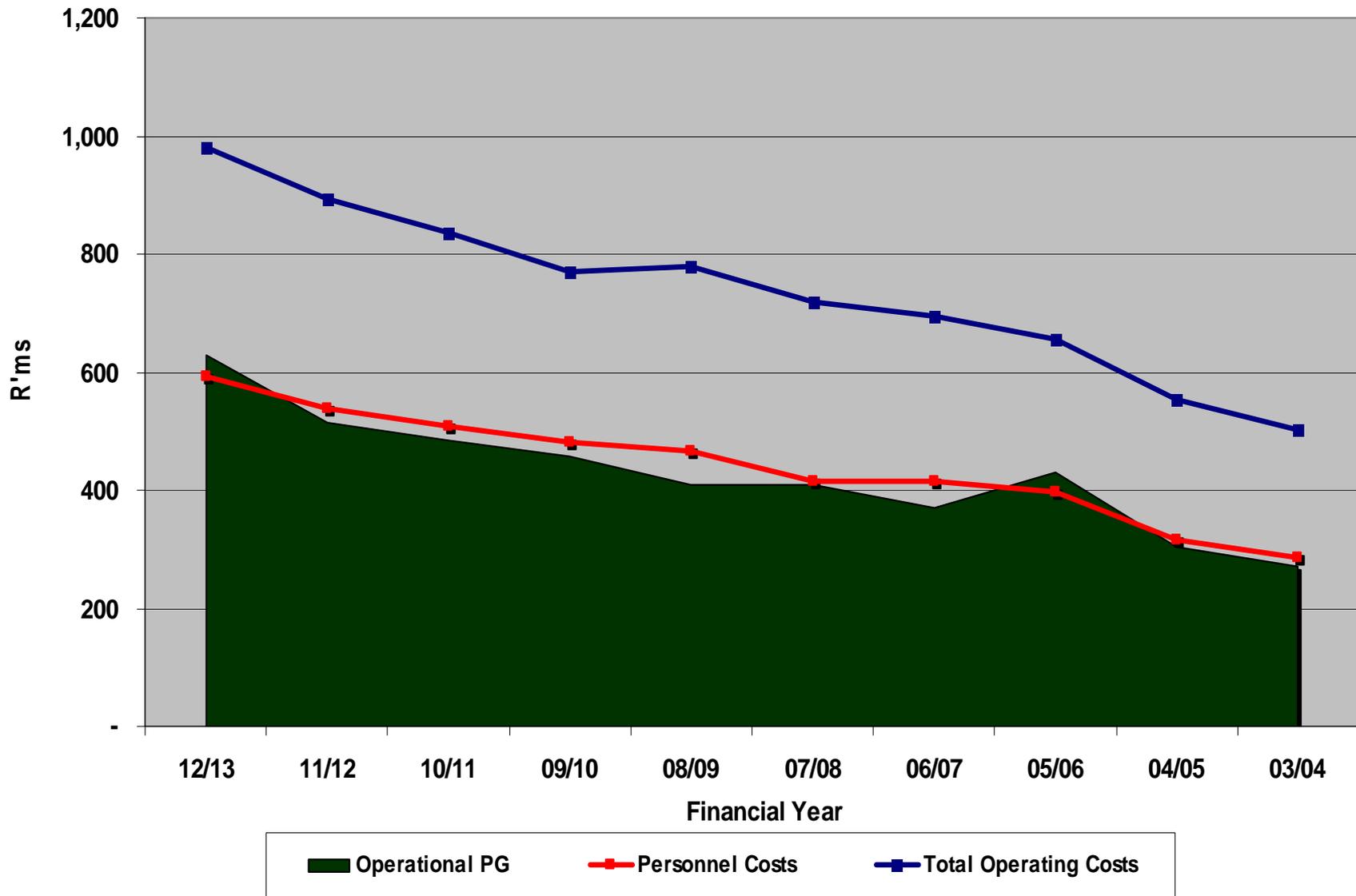
Monthly income of >R500/household

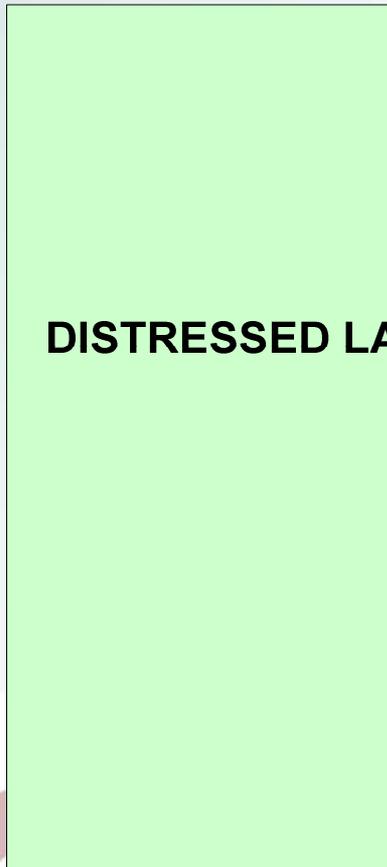
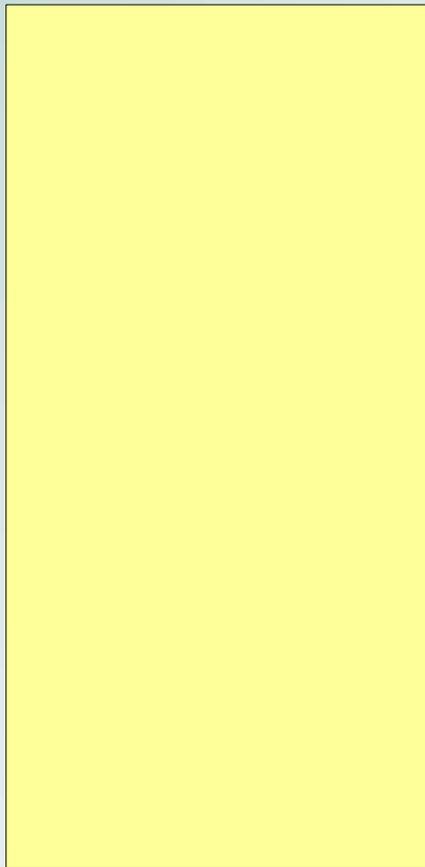
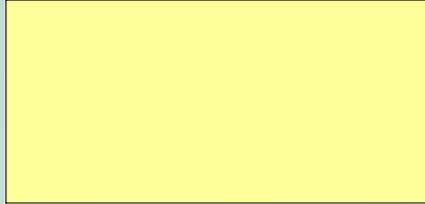


CHALLENGES

- Unavailability of funds to scale up pilot projects
 - Appropriate partnerships e.g. extension
 - Women and youth
- Aging Research Infrastructure
- Ageing scientific capacity (demographics)
- Reduced skills base for recruitment (scientists, engineers & researchers etc)

Baseline Operational Parliamentary Grant Vs Total Operating Costs





OR RURA

DISTRESSED LAND REFORM FARMS

**CO
DEVE**

ARC

**1. Exp
Work**

Technology Transfer and Transformation

- Support to new entrants
 - Dissemination of research results, training, SMME development
 - Information dissemination and advisory services
 - Technical support – extension support programmes
- IP Management
 - Protection & Commercialization
 - Strategic management of IP
- Enabling international Competitiveness
 - Strategies on SPS
 - Technical standards & support
 - Domestic market access

RESEARCH & DEVELOPMENT

Meeting customer/industry needs for competitiveness and sustainable growth through knowledge generation

- Mitigating risks to pests & diseases
 - Quarantine services
 - Climate change research
- Technical support to SPS for market access
- New Cultivars – Breeding/Biotech

Agricultural Production

- New technologies/agricultural practices
- Agronomy (Entomology, Soil Health, Horticulture etc)
- Post – Harvest technologies
 - Harvesting, packaging
 - Transport & storage

CAPACITY BUILDING

- Skills Development & Training Services
 - Scientific, technical and agricultural
- Bursaries
 - Undergraduate
 - Post – graduate to Post Doctoral level
- Experiential learning & mentoring
 - PDP
 - Access to ARC research laboratories and competence

Re a Leboha

Siyabulela

Siyabonga

Siyathokoza

Ha khensa

Ria livhuwa

Baie dankie

THANK YOU