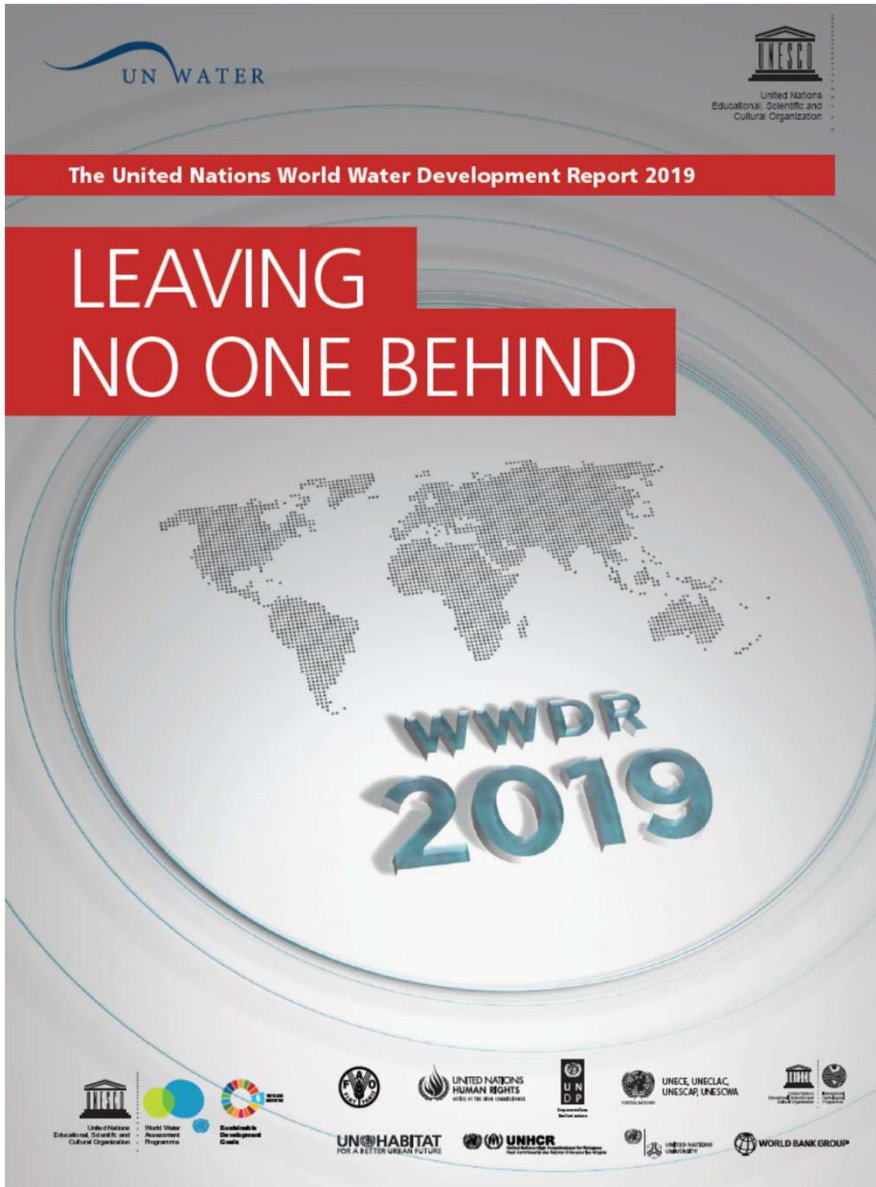


# Water Use efficiency in the Agri-processing Sector in South Africa: Practices, Challenges and Opportunities

25 March 2019

Opening remarks by John Purchase





1. Increasingly stressed resource
2. Access to water supply and sanitation
3. Human rights to water and the 2030 SDG's Agenda
4. Governance of water
5. Economic dimensions
6. Rural poverty and Urban settlement
7. Regional perspectives - Focus also on Africa:
  - global population growth to 2050 will be 2,2 billion, 1,3 billion from Africa
  - Africa's water challenges immense.



**water & sanitation**

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA



# **National Water & Sanitation Master Plan Valuing Water Dignifying Sanitation**

**Presentation to Provincial Consultation Workshop: KZN  
Preparation for the Water and Sanitation  
Operation Phakisa**

**18 March 2019**

**Presented by: Tendani Nditwani  
Project Manager: NW&SMP**

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# Content of NW&SMP

- The National Water and Sanitation Master Plan ( NW&SMP) is a “Call to Action”. It seeks to rally all Water Sector Stakeholders in South Africa to work together to address the challenges confronting the Water and Sanitation Sector
- The Plan enable the achievement of the targets set out in the National Development Plan (NDP) Vision for 2030 and the Sustainable Development Goals (SDG Goal 6 2030), of affordable and reliable access to sufficient and safe water and hygienic sanitation for socio-economic growth and well-being, with due regard to the environment
- The Plan is also geared for the 5 key Strategic Pillars of the Department.
  - Pillar 1 National Water Resources and Services Authority
  - Pillar 2 National Water Resources and Services Regulator
  - Pillar 3 Water Resources and Services Value Chain
  - Pillar 4 Water Resources and Services Master Plan
  - Pillar 5 Institutional Rationalisation and Organisational Alignment





# NW&SMP PHILOSOPHY

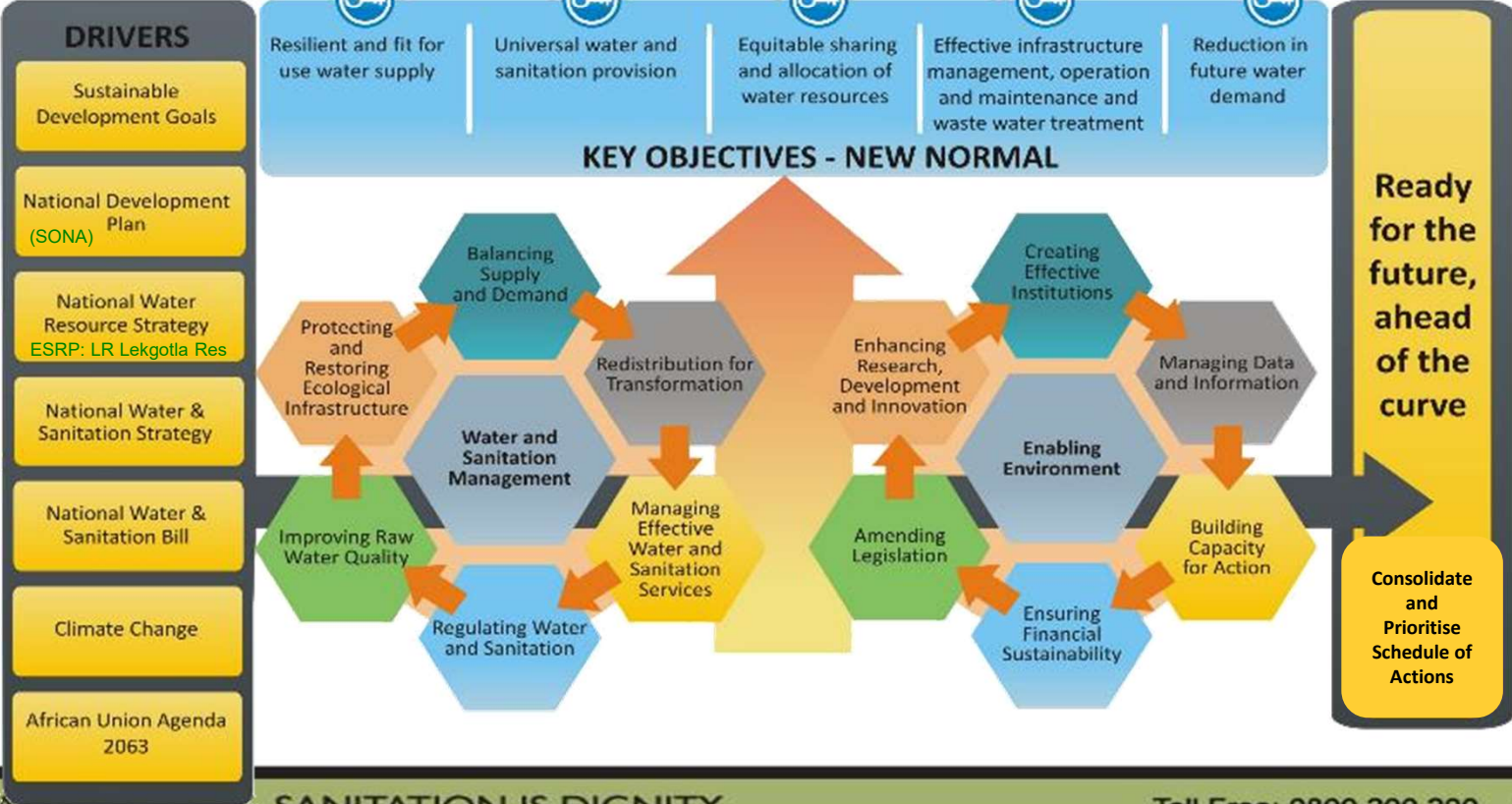
## INSTRUMENTS

- ✓ National Water and Sanitation Bill
- ✓ National Water and Sanitation Master Plan
- ✓ National Water and Sanitation Resources Strategy
- ✓ Water Security Framework



Affordable and reliable access to sufficient and safe water and hygienic sanitation for socio-economic well-being with due regards to the environment

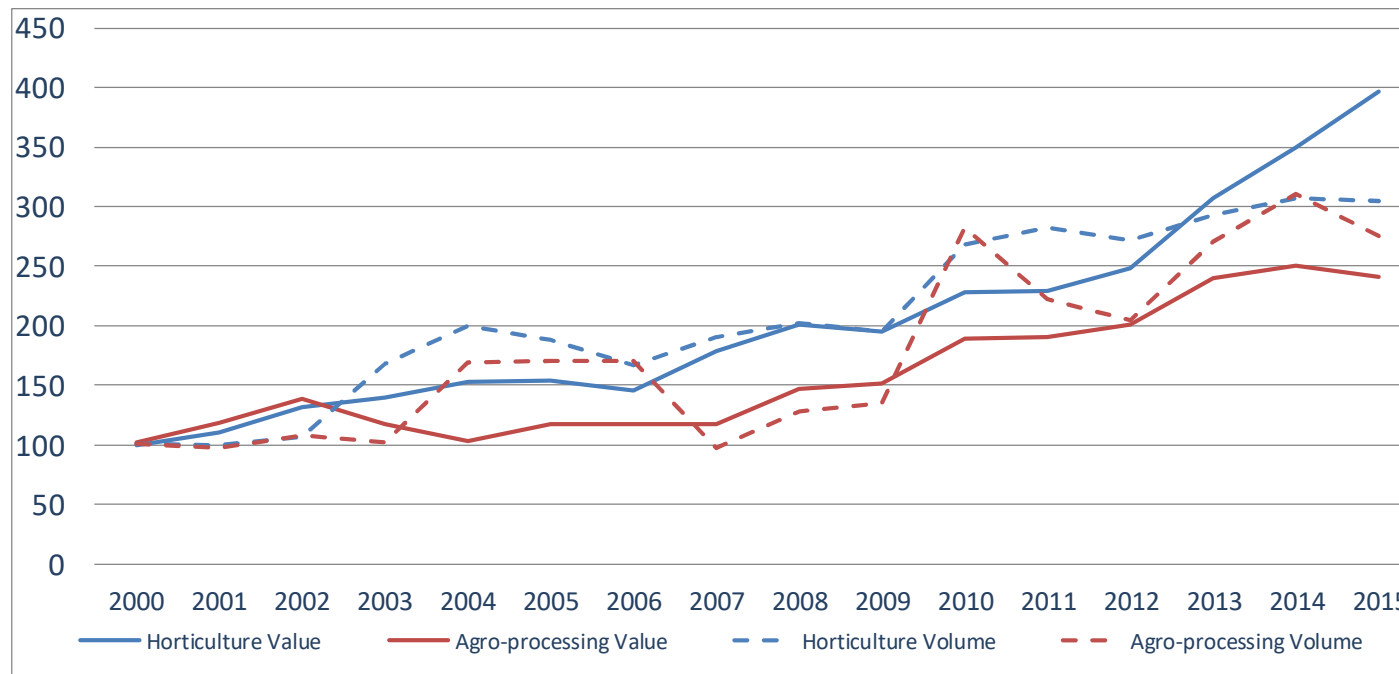
Without sufficient revenue from transfers and tariffs, the sector will be unsustainable



Two markets that pull the Agricultural Value Chain (AVC):

1. High value exports
2. Agro-processing

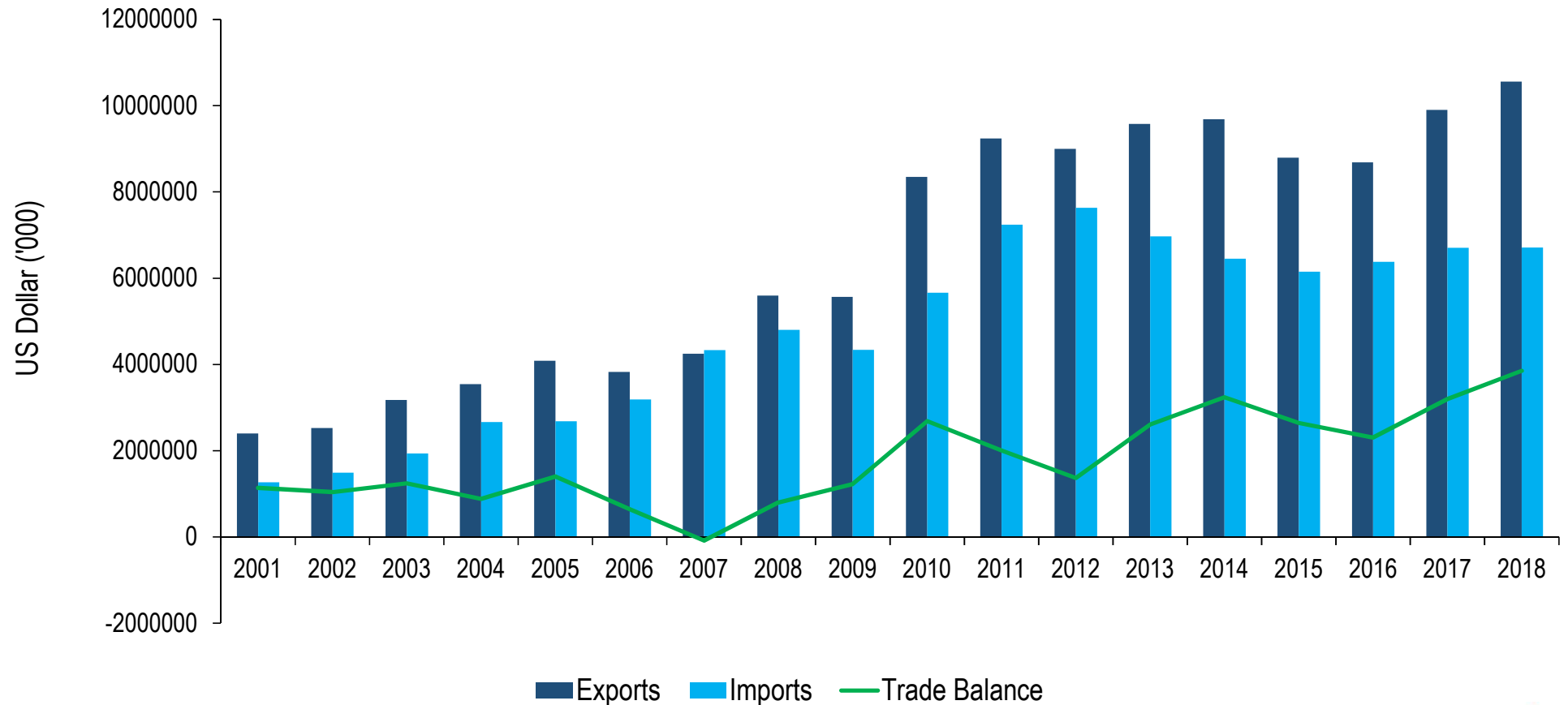
## Rapid Rise in Value of Agriculture Exports (High-value Products)



- **Agriculture exports have outperformed agro-processing. Due to strong focus on agro-processing, industry has convinced government to treat exports of high-value produce also under agro-processing**
- Preference of agro-processing (i.e. manufacturing) over primary agriculture should not exclude the labour-intensive high-value export orientated industries
- Technological sophistication, R&D, packaging, temperature and disease control, computerised logistics, etc. in producing a fresh orange or avocado for foreign market often outstrips that of orange juice or avocado oil (Cramer and Sender, 2015)

Source: Quantec, 2016.

# SA's Agricultural imports, exports & trade balance

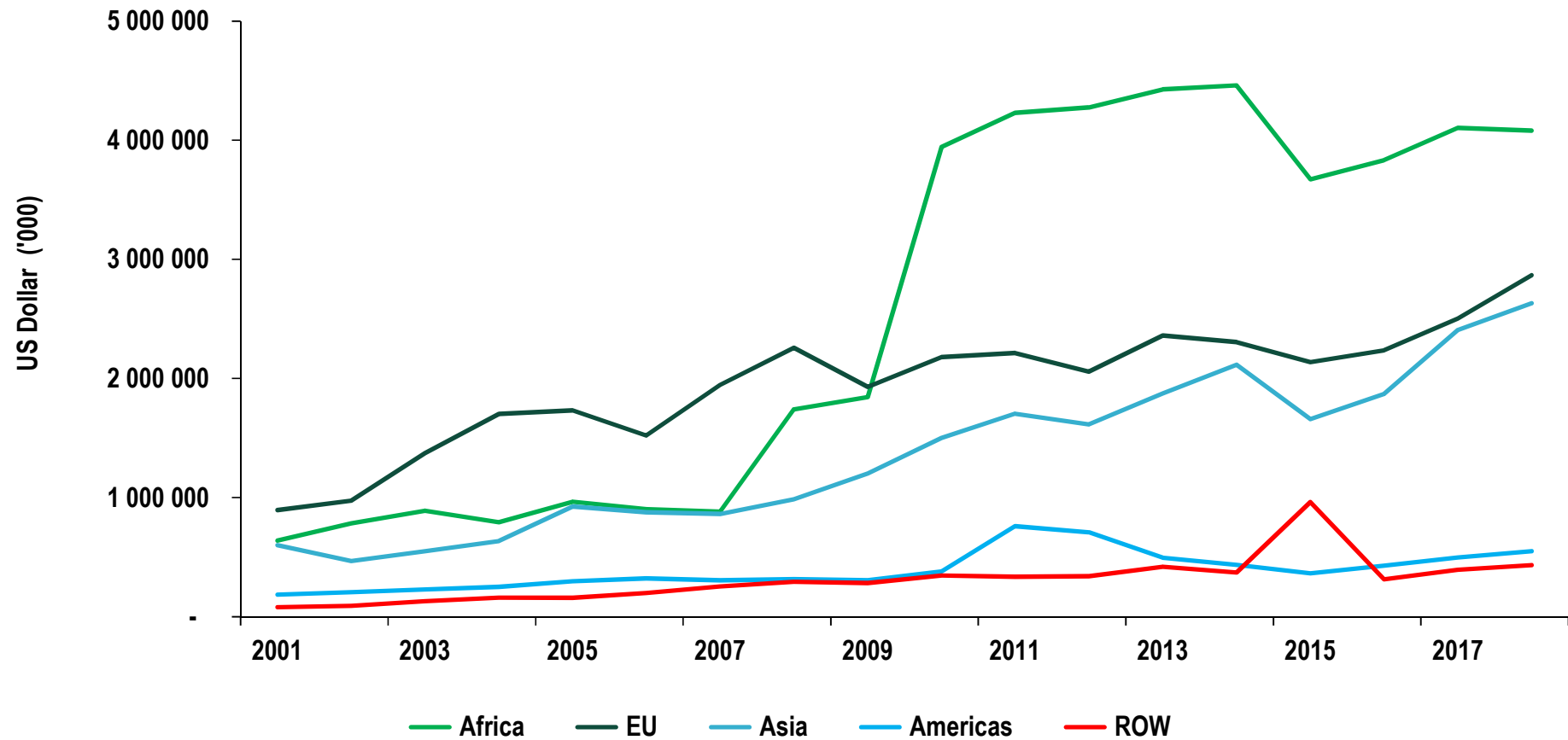


Source: ITC, Agbiz Research





### South Africa's agricultural exports by region



Source: ITC, Agbiz Research  
 ROW represents Rest of the World



**But Water critical to both!**

**Today we focus on water use efficiency in the Agro-processing sector, and why this sector needs to rethink its water strategy and water security.**

**Please participate!**



## Agenda:

9.30-10.00	<i>Welcome coffee</i>	
10.00-10.15	Opening remarks Water use in agribusiness and agri-processing in South Africa: trends and challenges	Dr. John Purchase, Chief Executive, Agbiz

### Session 1: Water efficiency technologies, practices and research

*Moderator: Dr. John Purchase, Agbiz*

10.15-10.45	Assessing and optimizing water use in agri-processing: global experiences, best practices and success stories	Alexander Larionov, Program Lead, IFC Raymond Greig, Resource Efficiency Specialist, IFC
10.45-11.20	Agricultural water management scenarios for South Africa <i>Adoption of best water efficiency practices by the private sector: challenges and opportunities</i>	Prof. Andries Jordaan

13.00-14.00 **Lunch**

11.20-11.40	The water footprint of producing and distributing vegetable crops grown on the Steenkoppies Aquifer in Gauteng, South Africa	Prof. Michael van der Laan, University of Pretoria
11.40-12.00	Water efficiency solutions for the pulp and paper industry	Samantha Choles, PAMSA
12.00-12.20	Water efficiency solutions for the beverage sector	Jacques Rossouw, Group Environmental Sustainability Manager, Distell
12.20-13.00	<i>Panel discussion:</i> <i>Adoption of best water efficiency practices by the private sector: challenges and opportunities</i>	

13.00-14.00 **Lunch**



## Session 2: Water use policy, regulations and public-private dialogue

*Moderator: Aref Adamali, Senior Private Sector specialist, IFC*

14.00-14.30	Regulatory challenges and opportunities in the water space: licensing, standards on reuse and recycling and their impact on agri-processing	Theo Boshoff, Manager, Legal, Agbiz
14.30-14.50	Policy dialogue and public-private coordination for the Western Cape drought response: a case-study from the beverage sector	Jacques Rossouw, Group Environmental Sustainability Manager, Distell
14.50-15.10	A community farming project in Alexandria: collective action towards environmental and social impact	Violet Phala, Molobanyane Cooperative
15.10-16.00	<i>Panel discussion: Improving the regulatory environment for efficient water use at the regional and local level</i>	
16.00-16.15	<i>Wrap-up</i>	Dr. John Purchase, Chief Executive, Agbiz

