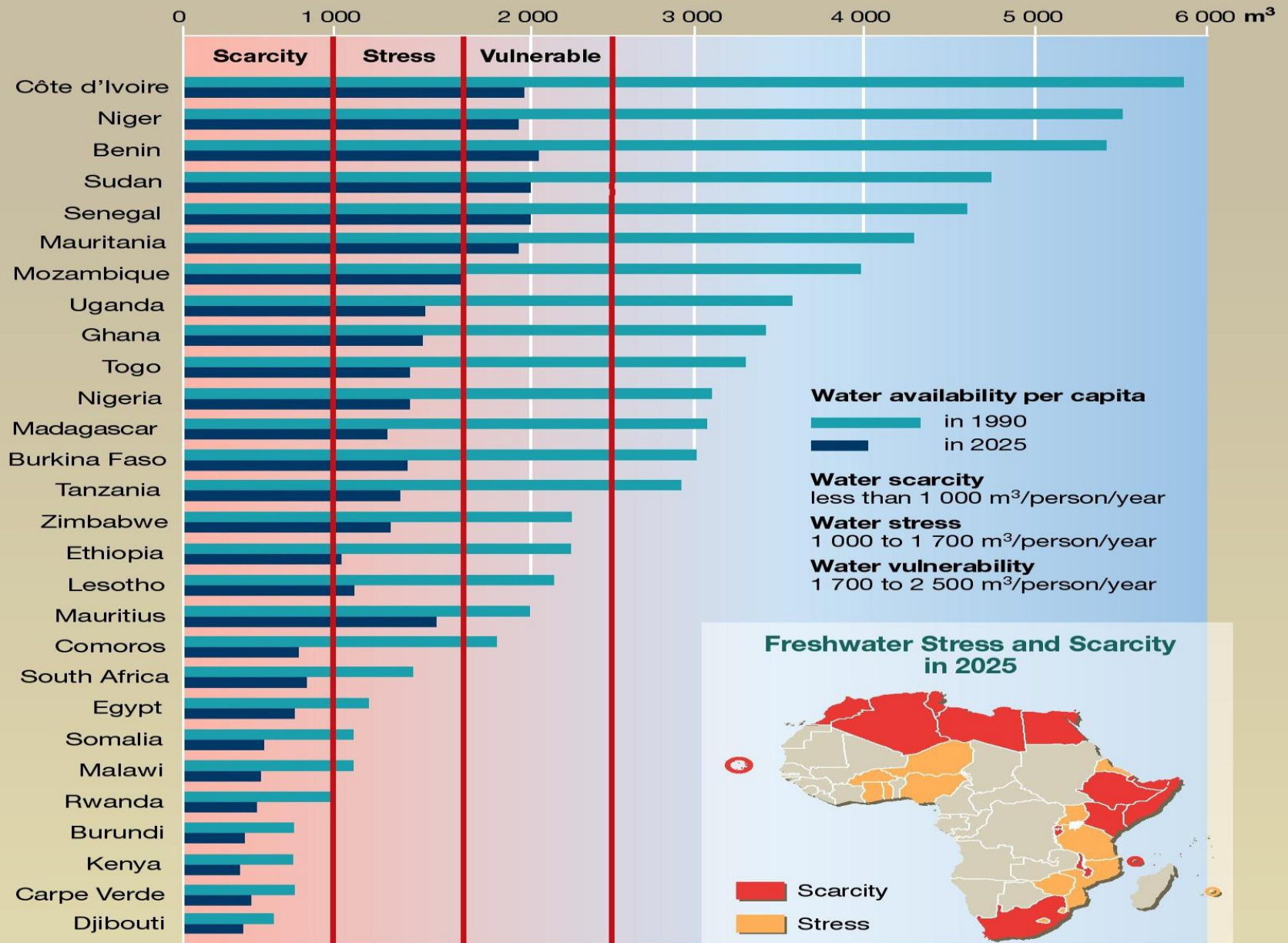


A Water Secure Africa by 2050

Dhesigen Naidoo

Africa Unity for Renaissance
May 2017





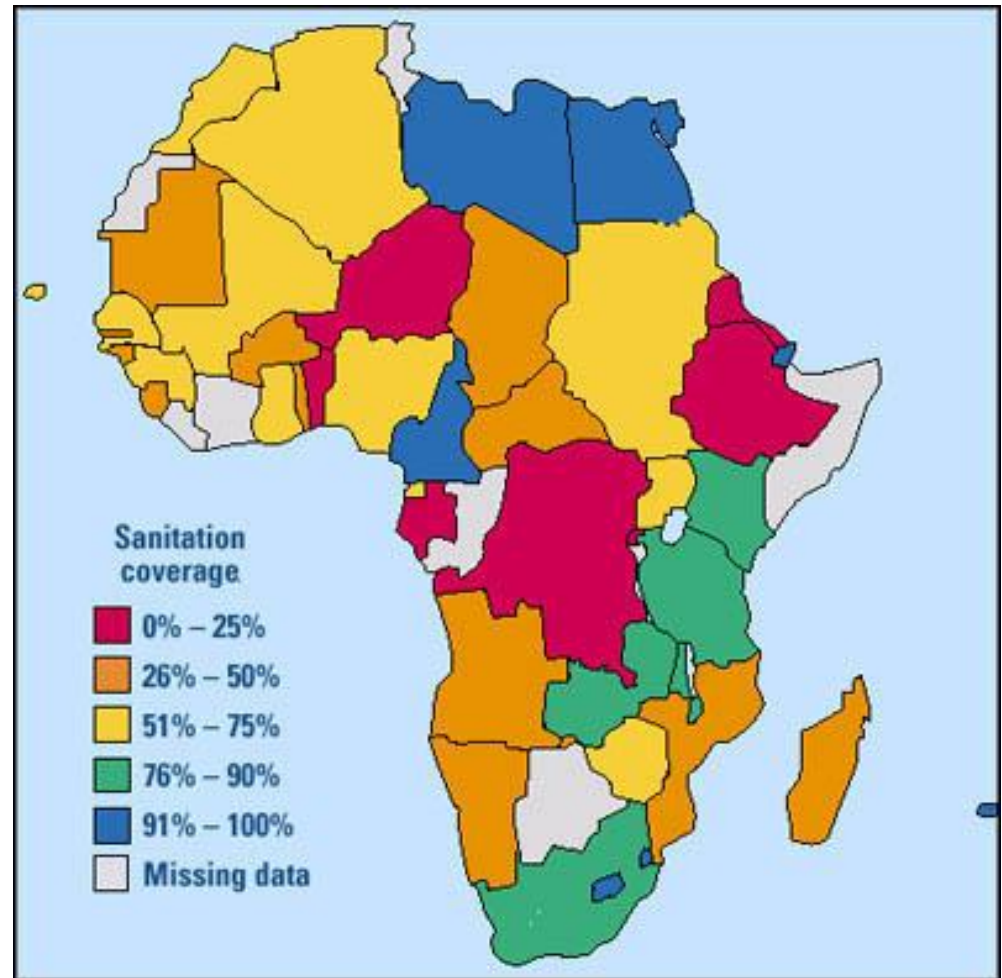
Source: United Nations Economic Commission for Africa (UNECA), Addis Abeba; Global Environment Outlook 2000 (GEO), UNEP, Earthscan, London, 1999.

PHILIPPE REKACEWICZ
MAY 2002

WRC-2017

State of African sanitation

Unicef-WSSCC-WHO
Global water supply
And Sanitation
Assessment 2000



Extreme weather
 Natural disasters
 Water crisis
 Climate change

Figure 3: The Global Risks Landscape 2017



World Economic Forum Global Risk Register

2016

2015

The Global Risks Landscape 2015

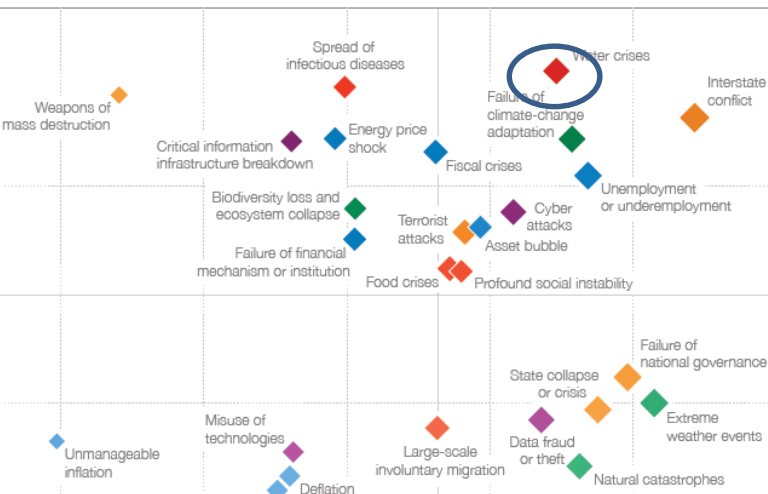
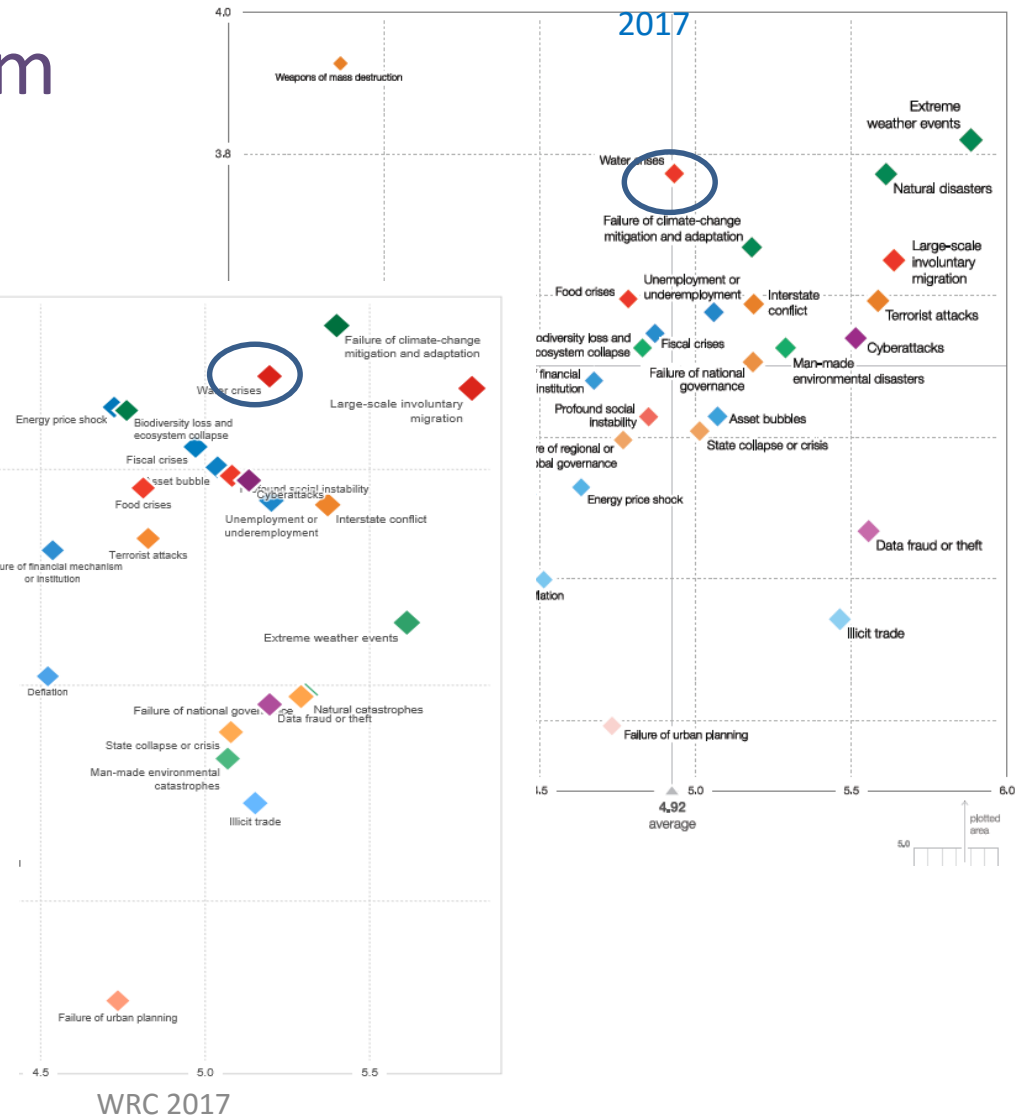


Figure 3: The Global Risks Landscape 2017



Exploring the Wedge of Threats



BIEBER FEVER: During his last visit to Cape Town, Justin Bieber had these fans in a fit. Tonight, the Canadian-born pop idol will once again perform in the Mother City after arriving yesterday. See Page 3

WE CAN EXPECT A LOT LESS RAIN

Water shortage: 'It's a very grim picture'

Lisa Isaacs
Staff Writer



SOUTH AFRICA's leading climate experts have warned that the Western Cape can expect even less rain in the foreseeable future.

winter season in the province may be drier than normal or relatively normal – neither of which would alleviate the current low reservoir levels.

The experts agreed that the extremely low reservoir levels were at least partly a result of an accumulated two to three years of relatively low winter rainfall. And

Table of Level 4 restrictions on Page 5

than it is today," he said. "Towards the end of the century the loss of

was at best marginal, Engelbrecht said.

Alliance for Collaboration on Climate and Earth Systems Science (Access) director Dr Neville Sweijd said: "The current drought is a combination of a decrease in previous winters' replenishment as well as an increased demand for water. The climate models might

use to 100 litres or less per person per day."

Filling or topping up of pools is prohibited.

The proposed fines to accompany Level 4 restrictions are subject to council and the Chief Magistrate's approval. They range between R1 000 and R5 000. Most of the fines have been increased

Witne
voice

Nicola Dani

A NEIGHBOUR the Van Bred Estate in 2015, ary 26, 2015, a loud male v from the Van State with was called t Henri van I dering his i Martin and He is attempted who has s retrograde Op't Ho ing a home family She Court that for safety "My h wanted to

More bid co
Sovereign

gn Foods may incur
ts in fending off a
by rival and
country Bird
second bid
will fall



In order to address our current challenges we need to both do different things as well as do the things we currently do differently

R Mershalkar, former DG CSIR India







Adobe Acrobat - [Dr. B Manian.pdf]

File Edit Document Tools View Window Help

The image shows a car crash scene at a harbor. A car is overturned into the water, with a person visible near the wreckage. A red boat is docked nearby, and several people are gathered on the pier. The background shows a body of water and a building.

133% 4 of 10 10 x 7.5 in





Adobe Acrobat - [Dr. B Manian.pdf]

File Edit Document Tools View Window Help



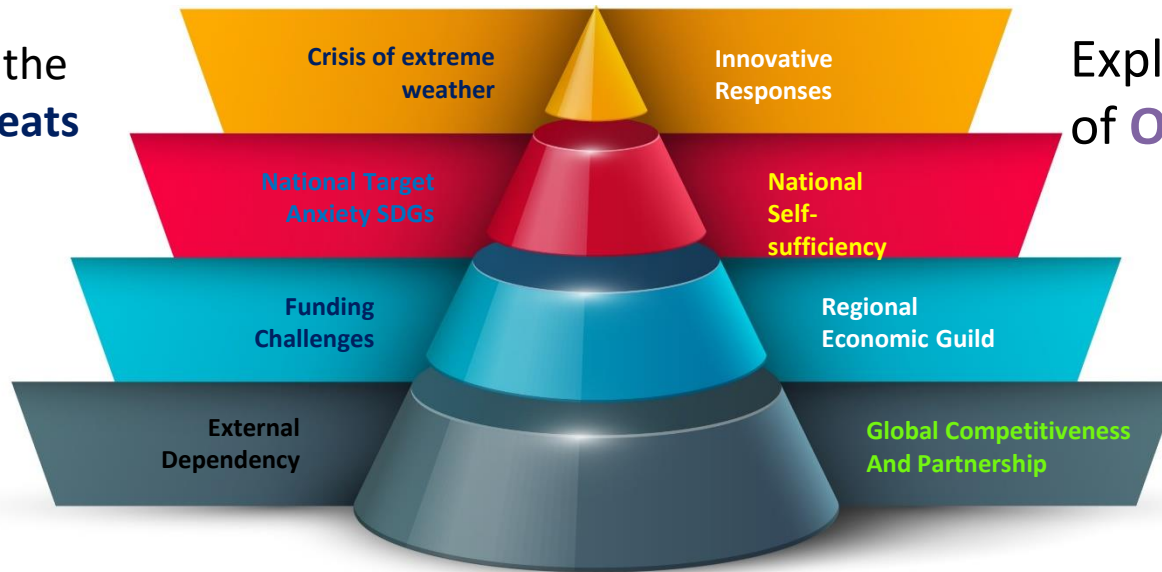
133% 10 of 10 10 x 7.5 in

The screenshot shows the Adobe Acrobat interface with a video player. The video depicts a green truck being hoisted by a crane in a harbor. The crane's arm is red and black, and the truck is tilted. In the background, there are several boats, including a prominent red one, and a white building with a dark roof. The water is calm, and the sky is overcast. The interface includes a top menu bar, a toolbar with various icons, and a bottom status bar with navigation and zoom controls.

Exploring the Wedge of Threats



Exploring the
Wedge of **Threats**



Exploring the Cone
of **Opportunity**

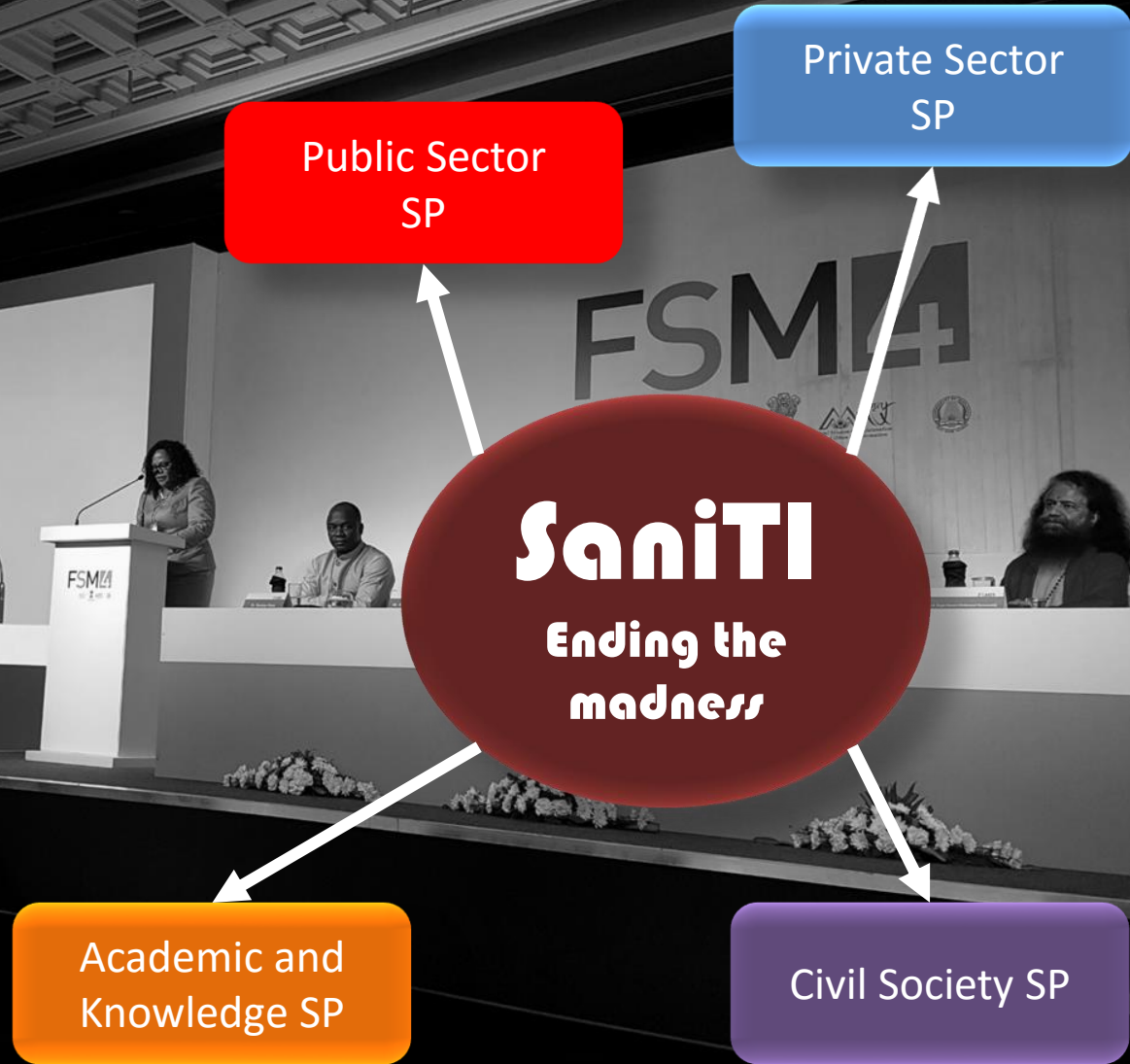
Exploring the
Wedge of **Threats**



Exploring the Cone
of **Opportunity**

These Opportunities can be realised
through
The development of solid partnerships
both Intra-African and Global

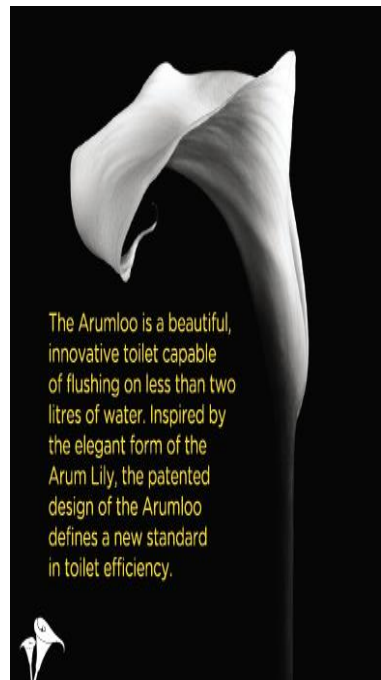
**Sanitation
Transformation
Initiative**





Sanitation solutions must have an ecosystem approach.

The Pour Flush system example of New Sanitation dramatically reduces the catchment water burden from **both a water quantity and quality perspective**



WATER SAVINGS

LOCATION	NO. OF PEOPLE	FLUSHES PER DAY	LITRES PER DAY	LITRES PER YEAR
Household	5	5	100	36,500
Office	20	3	240	60,000
School	50	2	400	82,000





STAKEHOLDER
R E P
2 0

INDUSTRIAL POLICY ACTION PLAN 2017/18 - 2019/20

Economic sectors, employment and
infrastructure development cluster

PART 1: A BRIEF OVERVIEW

IPAP Achievement Highlights 2016-17
Leading challenges, focus areas and action themes 2017-20
Driving innovation and technology / preparing for the 4th Industrial Revolution
Economic transformation: the core issues
Inclusive growth, empowerment, diversification, localisation
Manufacture, export & labour-intensive economic sectors



Industrial policy in a turbulent world

DAY 3 Wednesday, 2 August
'Made in Africa' Day

07:00 - 08:30	REGISTRATION
	Programme Director: Nigel Gwynne-Evans, Chief Director Africa Industrialisation, the dti (SA)
08:30 - 09:00	WELCOME REMARKS
	Dr Eve Gadzikwa, President of the Regional Standardization Organization
09:00 - 09:30	KEYNOTE
	Repositioning the SADC Region via Global Value Chains
09:30 - 11:00	SUCCESSFUL MODELS
	Supporting local manufacturers, entrepreneurs in regional trade
	Moderator: Lesley Wentworth
	Case Studies: Payments in SADC - Maxine Hlaba, Head of the SADC Trade Association
	Case Studies: Implications for SADC - Siphemiso Mtanga, TIPS (SADC Trade Group)
	Case Studies: Overcome barriers to entry, SADC Industrialization

1

Water Industrialisation
Development Plan

2

Innovative
desalination and water
manufacturing
programme

3

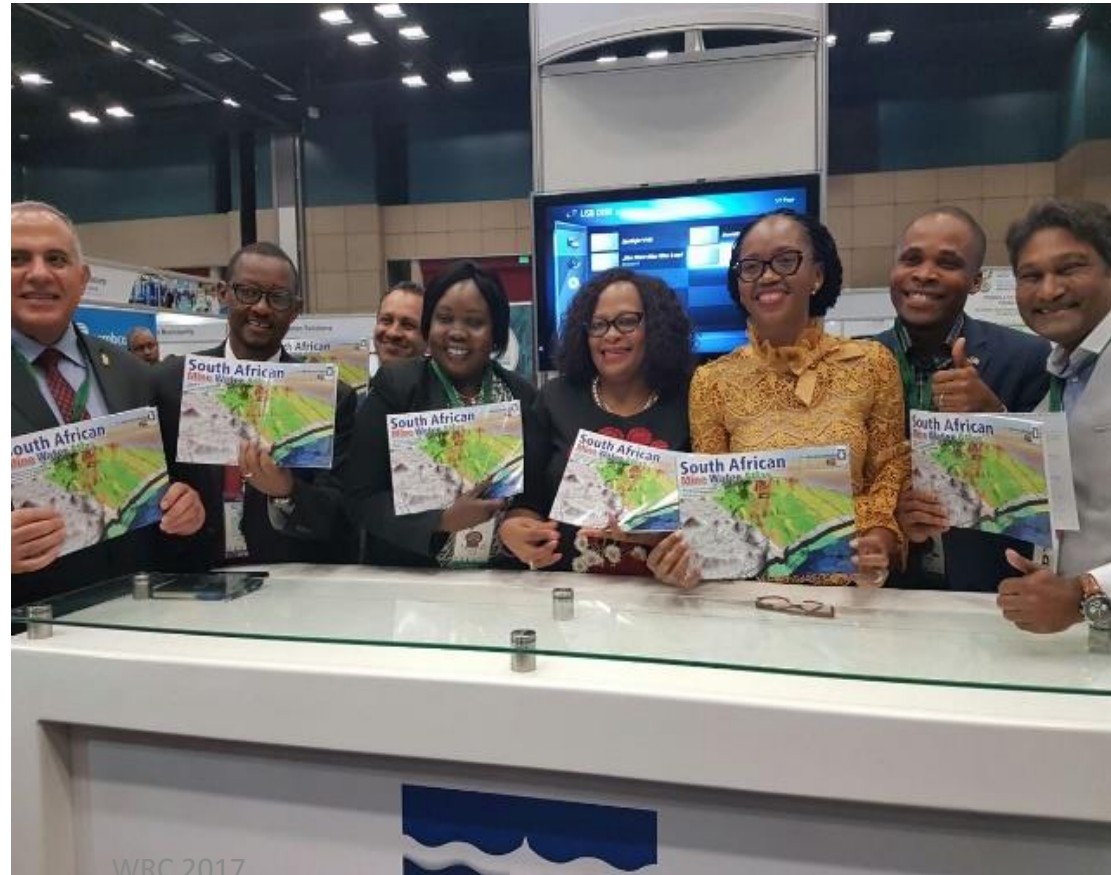
Next generation
Sanitation Cluster
Development
Programme

4

Modular and
Advanced Wastewater
Capability Build
Programme

Water and Sanitation Outlook

Achieving in the full innovation value chain in and African Partnership e.g. Acid Minewater

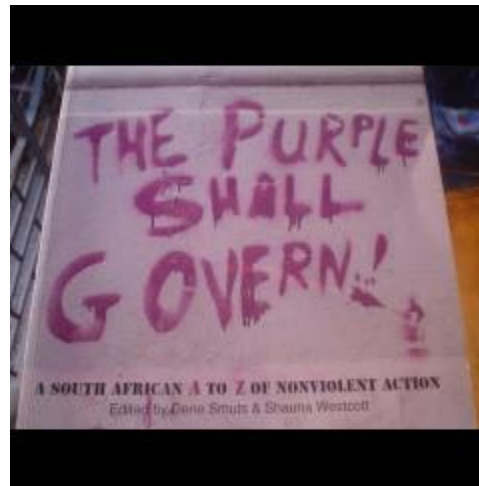


Wastewater

- **Wastewater Treatment and Recycling** with alternative energy sources, low energy with significant energy repatriation, and special applications like Acid Mine Water.



Purple revolution of the 1980s

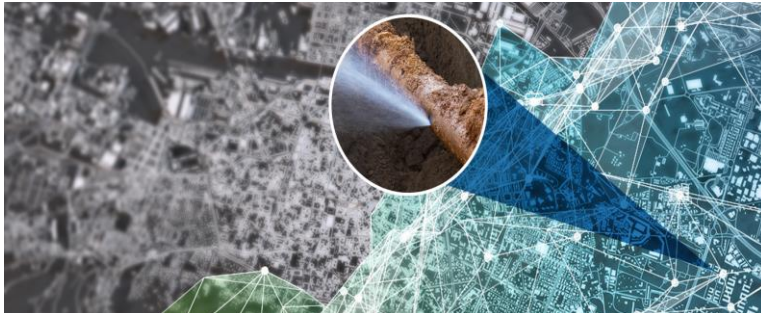
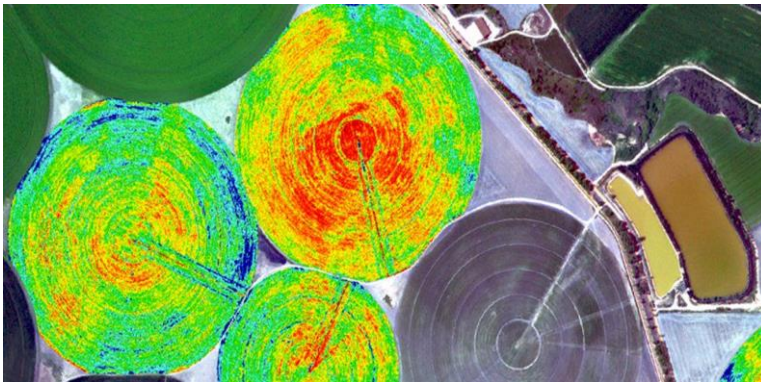


WRC 2017



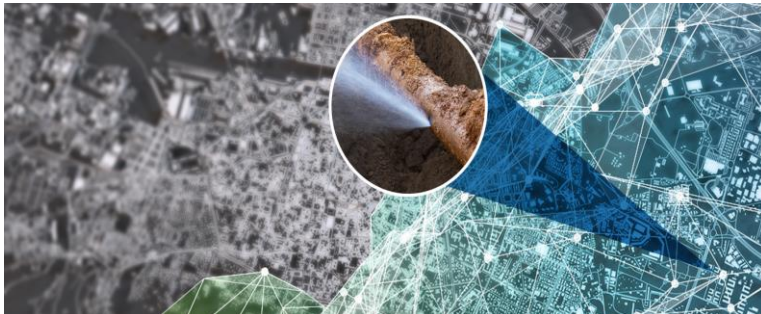
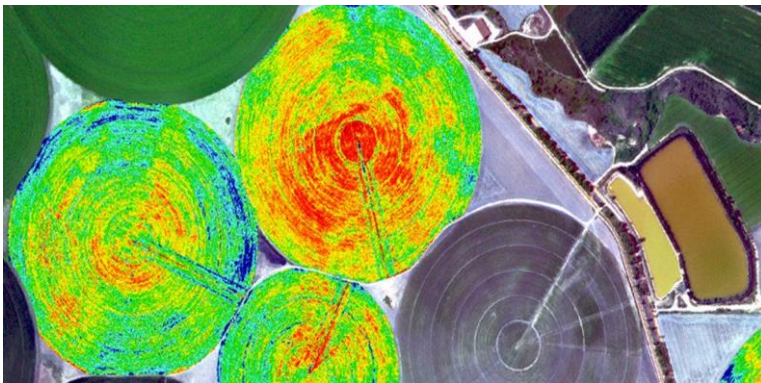
Leading the 2100s

ICT Toolbox -better Water Management



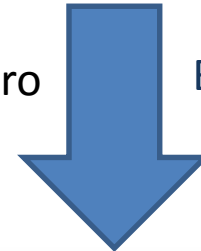
4th Industrial Revolution

ICT Toolbox -better Water Management

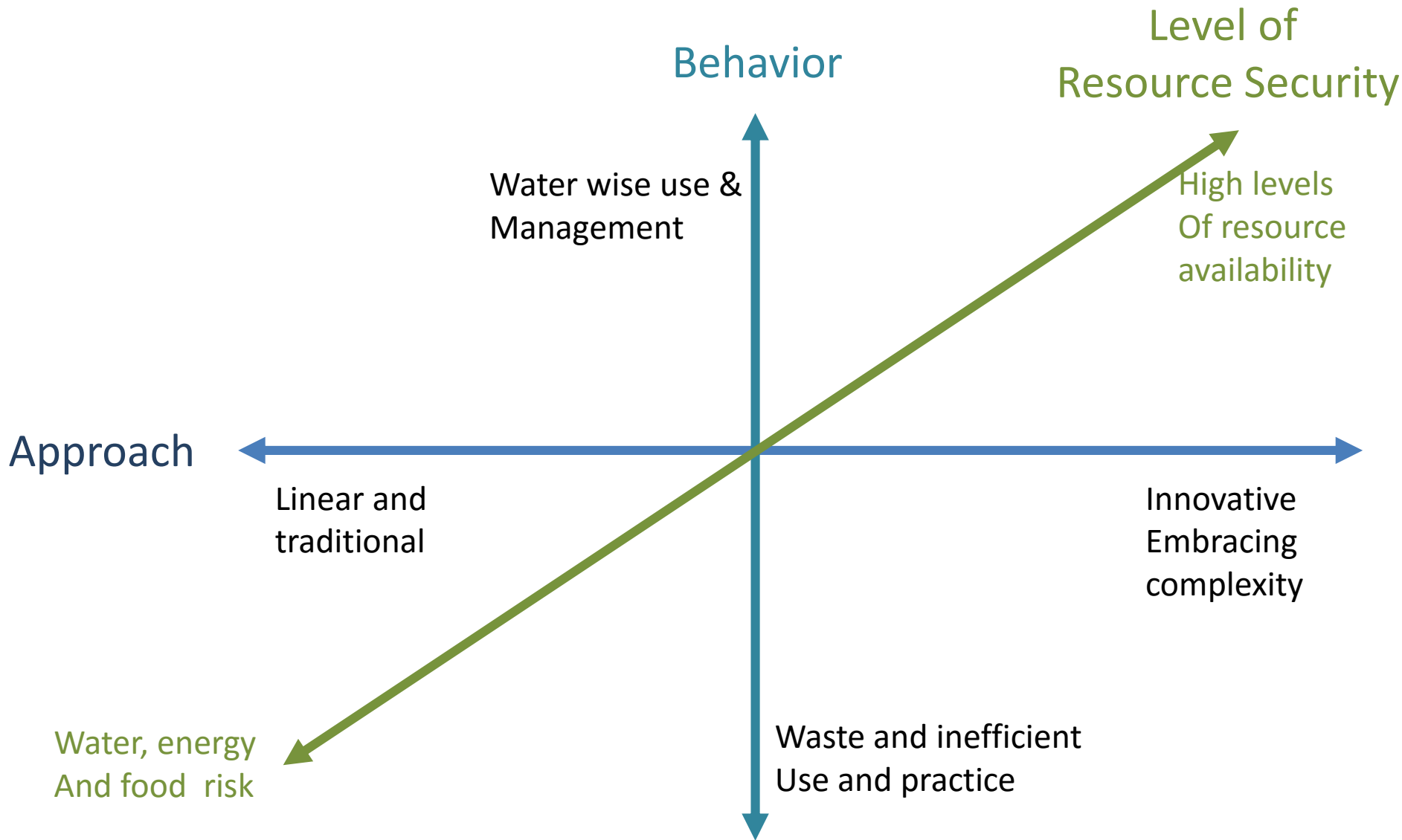


Empowered thro

Big Data

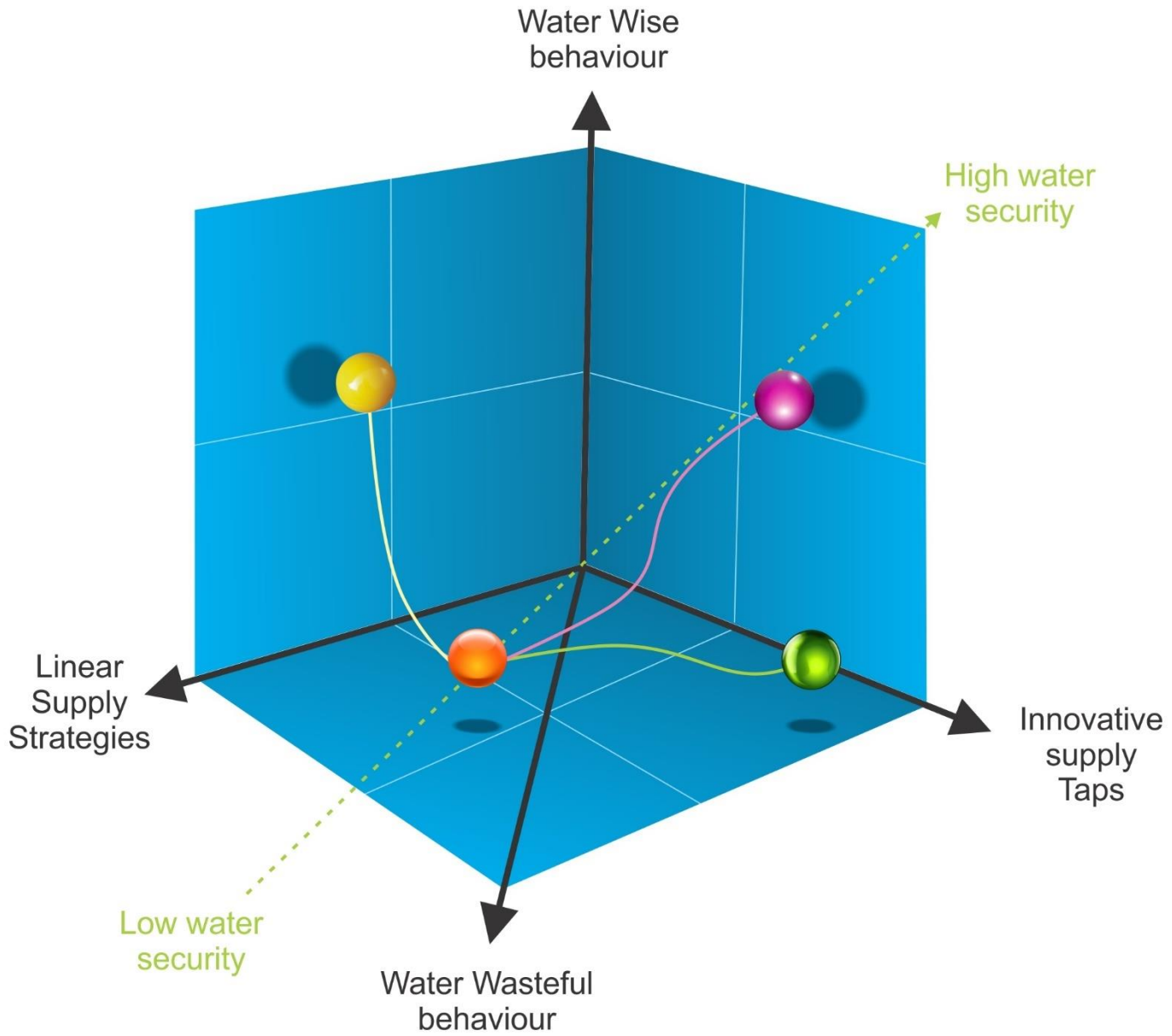


Looking to the future

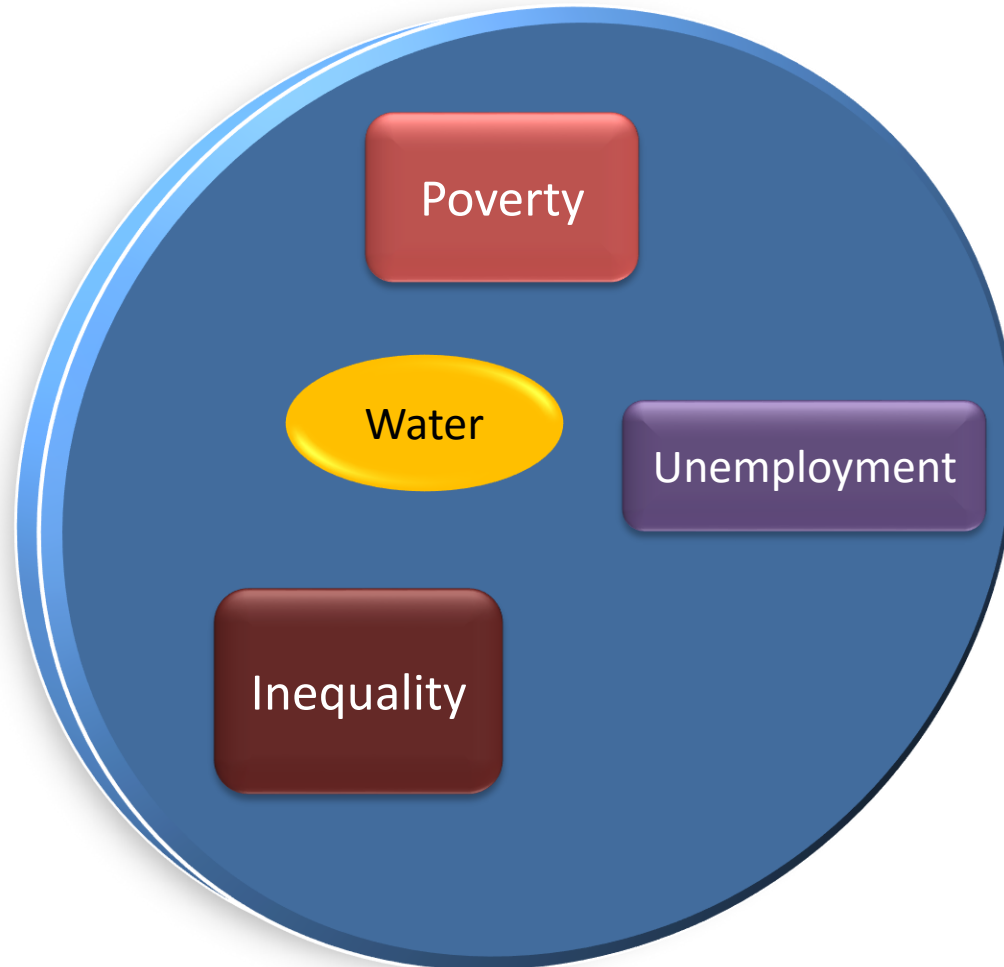


What Africa does in the next 15
years.....

Will intimately shape the
fortunes of the world for the
rest of the 21st century



Water and Sanitation and the Cubed Global Challenge



Layers of discrimination

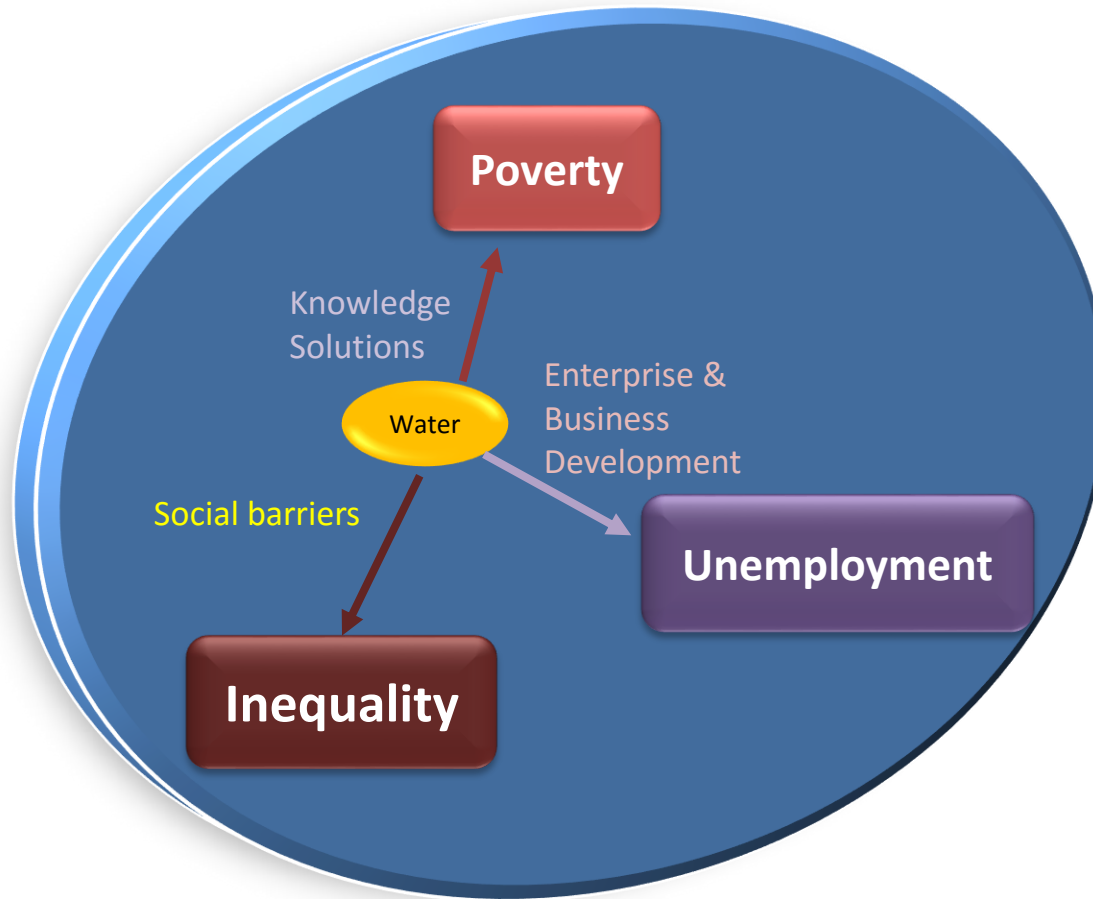
Economic status

Urban/rural

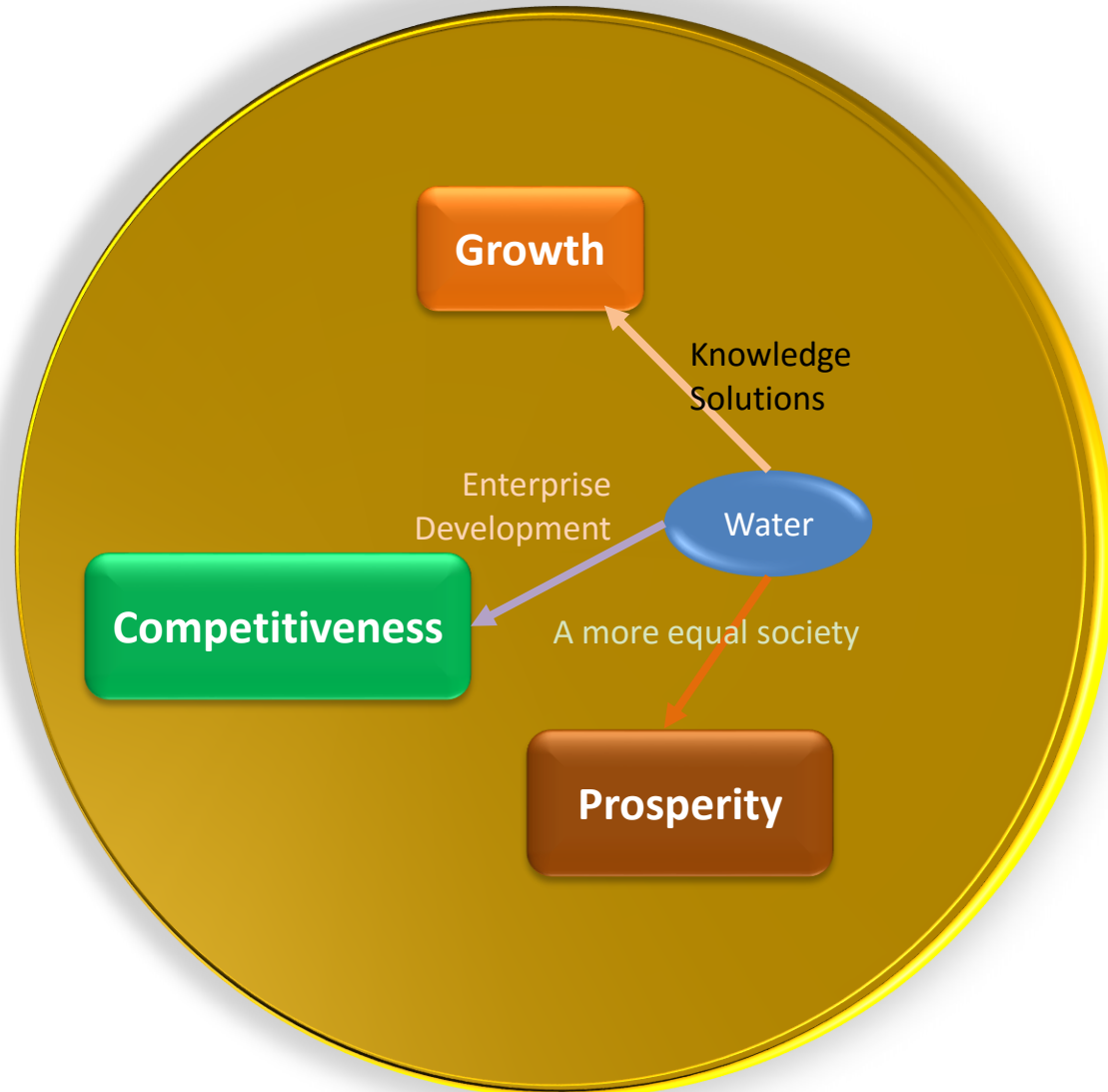
Skin
Hue



Water and the Cubed Global Challenge



The other side of the coin





**A warm hands
AfDB president
and Prime Min**

a record year in 2016 with more than \$11bn in investment programmes.

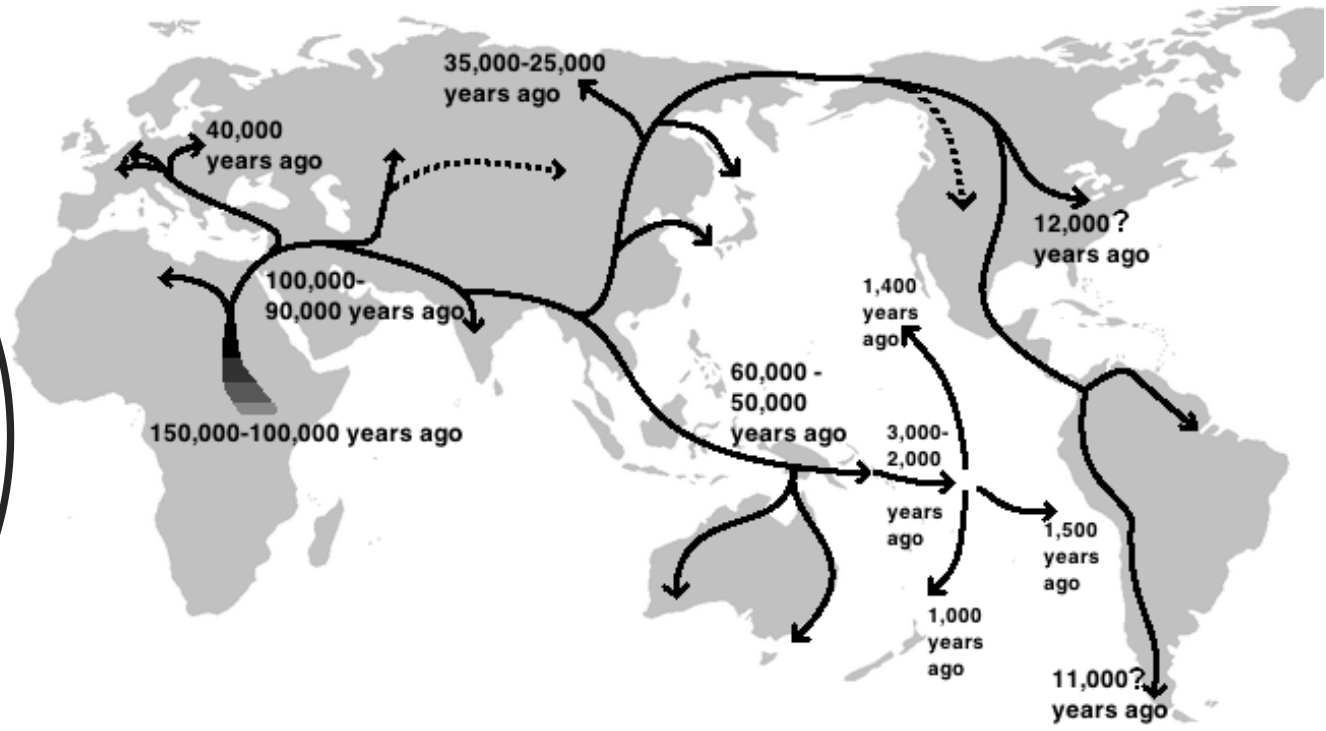
Taking the AfDB to a record year in 2016 with more than \$11bn in investment programmes. India was no idle spectator at this year's meetings with AfDB President Adebisi Adesina in Busan, South Korea. Modi's clear pivot to Asia is a strategic thinking, which perhaps explains why the annual meetings were held in Shanghai. India's Prime Minister Modi was keen to emphasise the cultural and historical ties between his country and the continent: from the many Indian families who set up on the eastern seaboard to a common heritage of British colonialism and to Gandhi's...

AfDB

There's gold in that dirt

The AfDB took to India in May to raise funds for a long-overdue agricultural sector into a...

Africa is the Cradle of Humankind



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N° 92 • JULY-AUGUST 2017

- **Nigeria** A season of all the dangers
- **Kenya** Fight of a lifetime
- **Google** The next billion are African



Diaspora dynamo

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No matter how hot
the water from
your well, it will
not cook the rice



Amílcar Cabral

It will take concentrated effort,
investment and the creation of the
African team

No matter how hot
the water from
your well, it will
not cook the rice



The power
of knowledge
to the people

