



# UWASP 2019

Progress and plans from GIZ NatuReS



Water security is one  
of the biggest  
economic risks in  
South Africa today

Sustainable economic  
growth depends on  
natural resource  
stewardship



- The Natural Stewardship Resource Programme (NatuRes) is an **international initiative** which combines **global best practices** with **local know-how**
- The programme **facilitates partnerships** between the public sector, the private sector and civil society, promoting collective action to protect and manage **natural resources and the services** they provide to economic centres; securing livelihoods and fostering sustainable development
- NatuReS operates in **five African countries**, including South Africa and is **funded by the BMZ** (the German Federal Ministry for Economic Cooperation and Development) and implemented by Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH ("GIZ")



**21.7%** of South  
Africa's population is  
**unemployed.**

Youth unemployment is  
currently at 54%

South Africa is the **35th**  
**largest economy** and  
has one of **20 biggest**  
**stock exchanges** in the  
world







## NatuReS Strategy



**Cities** are the economic powerhouses of the country but are most heavily impacted by natural resource limitations



**Special Economic Zones** provide favourable investment environments and create jobs but require natural resource security to operate



**Circular Economy** returns waste to the value chain



**Partnerships** are what drive the NatuReS approach

## NatuReS

NATURAL RESOURCES STEWARDSHIP PROGRAMME  
Joint solutions for resilient economic growth

### Natural Resource Stewardship Programme (NatuReS)

The project combines global best practices with local know-how. The programme facilitates partnerships between the public- and private sector and civil society, promoting collective action to protect and manage natural resources and the services they provide to economic centres, while safeguarding livelihoods and fostering sustainable development.





# Our work in uMhlathuze in 2019: an overview

**Non-Revenue Water**  
support, using drone  
technology

**Collective dam  
management**, harnessing  
expert knowledge and a  
digital platform

**Circular economy** and  
industrial symbiosis

**Citizen and youth-based**  
water and waste  
management

**Business and natural  
resource management  
training** for small-scale  
farmers



# Collaborative monitoring and management of dam water releases

- **Harness knowledge and expertise of experienced dam manager:** embed within catchment
- **Simplify the dam release tool** to encourage more widespread use amongst stakeholders and improve collective decision making support
- **Digitise the tool** to enable more effective collaboration and use
- **Present the tool to DWS national dam operators**

**Norman  
Ward**



[www.uwasp.pisilabs.com](http://www.uwasp.pisilabs.com)



# Circular economy within UWASP



Mondi's waste paper fibre



Mondi's waste lime



Saves Mondi on waste disposal costs and improves water efficiency



Provided free to farmers as affordable mulch and fertilizer



# Citizen and youth-based water and waste management

- **An integrated schools programme** that builds on and connects the best of existing schools' initiatives in South Africa
- **A water efficiency programme within partners' properties** (e.g. water audits and responsive actions within schools, universities, government buildings and companies)
- **A socio-technical water/ catchment management programme beyond partners' properties** (e.g. using innovations such as communities and youth support by cell phone applications to report on and address water/ catchment issues)





# Business and natural resource management training for small-scale farmers

- **Business development** to equip farmers with optimal production parameters
- **Natural resources management** and approaches to more efficient farming
- **Water re-use and management** in the agricultural sector
- **Gender:** women in farming



# The way forward in 2020

- **Increase support for CoU** in Non-Revenue Water and WDCM (linked to the active citizenry project and the NW&SMP)
- **Embed the dam management platform** locally and scale it nationally
- Identify and support **Industrial Symbiosis and Circular Economy** initiatives within the catchment (*develoPPP.de possibilities*)
- **Improve resource efficiency within the RBIDZ** through our work with the DTI and the development of SOPs for water stewardship
- Continue support within the **agricultural sector** on natural resource management and jobs/investment safeguarding(TBD)
- Assess the **economic value** of the uMhlathuze catchment