

# African Utility Week

## Creating & Monitoring Strategic Water Reserves for Drought & Flood Risk Cities

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smart  
waters



Afrisoul  
∞  
Life Systems

15 - 17 May 2018

CTICC, Cape Town, South Africa

[www.african-utility-week.com](http://www.african-utility-week.com)

# SA Management Team

- \* **Thomas Murphy - Founder & CEO of Global Life Systems & Afrisoul Life Systems**  
Systems & Business Development  
Cape Town, South Africa & Milwaukee, USA
- \* **Jamie Gordy - Founder & CEO of Smart Waters, Strategy Advisor**  
IOT & Water Systems Development  
35 Years Of Experience In Creating Wealth Through Innovation  
In Infrastructure, Industrial, Commercial Construction Industries  
Vancouver, Canada & Milwaukee, USA

# Creating & Monitoring Strategic Reserves for Drought & Flood Risk Cities Utilizing IOT Connected Sensor Technology



# Global Trends Show That Drought Is The New Normal

**"For example, the worst drought in its recorded history struck the Amazon basin in 2005, reversing this long-term carbon sink into a carbon source [Phillips et al., 2009]. In 2010, an even stronger drought hit the Amazon basin, which had not fully recovered from the impacts of the earlier event, and 2015 saw yet another recurrence [Lewis et al., 2011; Saatchi et al., 2013; Jiménez-Muñoz et al., 2016]."**

*From the Water Resources Research journal 10 April 2017 "The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources"*



# Barcelona, Purpose Built Rain Retention 33 Under Ground Tanks 1168900 Cubic Meters Capacity



# Our Solution: Decentralized Micro Rain/Grey/Waste/Source Water Treatment Scalable On Site...On & Off the Grid... IOT Connected

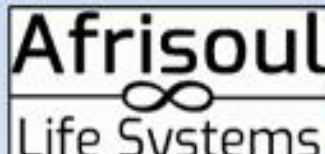


# Our Solution: Scalable Strategic Rain Water Reserves - IOT Connected - Low Tech Construction Method





# Build It And They Will Come... Maybe ! We Have the IOT For That



INTERACTIVE INFO GRAPHIC  
Click on the '+' icons for more Sustainable Lifestyle systems information.



## DroughtScore.com

What's Your Drought Risk?

Brush fires, water shortages, dying trees and animals...  
*How dry is your town?*

GLOBAL WATER CENTER

Afrisoul is a member of The Global Water Center - a consortium of international industry, academia, and government expertise and resources – provider of cutting-edge technology and solutions.

THE SUSTAINABLE LIFESTYLE MOVEMENT

afre



# Economics Of Scale

## VRS

### Scale Of Economics

- \* Market Driven Construction Determines Scale
- \* Construction Of Strategic Reserves Fits Within Existing Yearly Capital Maintenance & Repair Budgets
- \* Reallocating Of Resources Based On Predicted Future Needs
- \* As City Populations Grow, Simultaneous Demand for Connected Water Infrastructure Will Grow
- \* Scalable Off The Grid Systems Facilitate Growth

# Moving Forward With Solutions

- \* Our Need... Global water and sanitation law exemptions and changes to accommodate sustainable living systems
- \* Integrate IOT Connectivity In New & Existing Rain, Waste & Other Source Water Facilities
  - Create A Connected Network Of Strategic Reserves
  - Deploy Emergency Waste Water Treatment Systems
- \* **Market Ready NOW**

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