



Wastewater Management Regulations: challenges and opportunities for Africa



Some Numbers



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- 2014 UN Water Report – world population quadrupled and water demand expanded seven times over the last 100 years



An aerial photograph of a city. In the foreground, there is a large, dense informal settlement with many small, makeshift structures made of corrugated metal and other materials. In the background, there are more modern, multi-story buildings and a clear horizon line under a cloudy sky.

Some Numbers

- In Africa:
 - 319 million people lack access to an improved source of water
 - 695 million do not have basic sanitation services
 - No sub-Saharan African country met MDGs for sanitation
 - Africa is the second driest region after Australia with 9% of global renewable water resources for 15% of the world population



Regulations

- Regulations seek to balance the water cycle (quality & quantity)
 - downstream water quality and return flows, while ensuring ecosystem services are well catered for

Regulatory & Reputational Risk

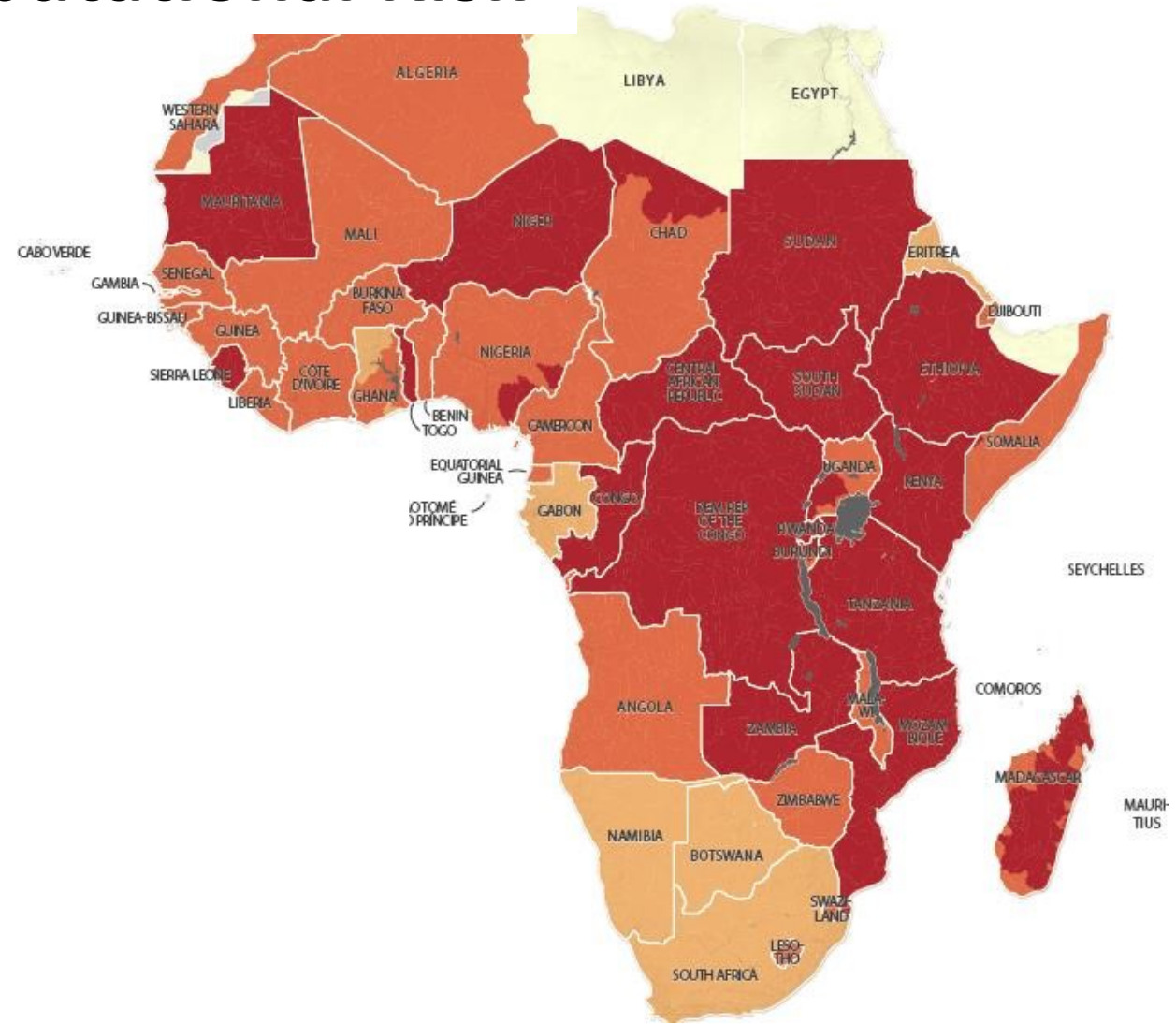
Risk Level

- Low
- Low to Medium
- Medium
- High
- Extremely High
- No Data

Map by Levi Westerveld
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Source: Aqueduct Global Maps 2.1
Indicators: From: <http://www.wri.org>
Accessed on: 02.08.107

* Regulatory and reputational risks identify areas of concern regarding uncertainty in regulatory change, as well as conflicts with the public regarding water issues.



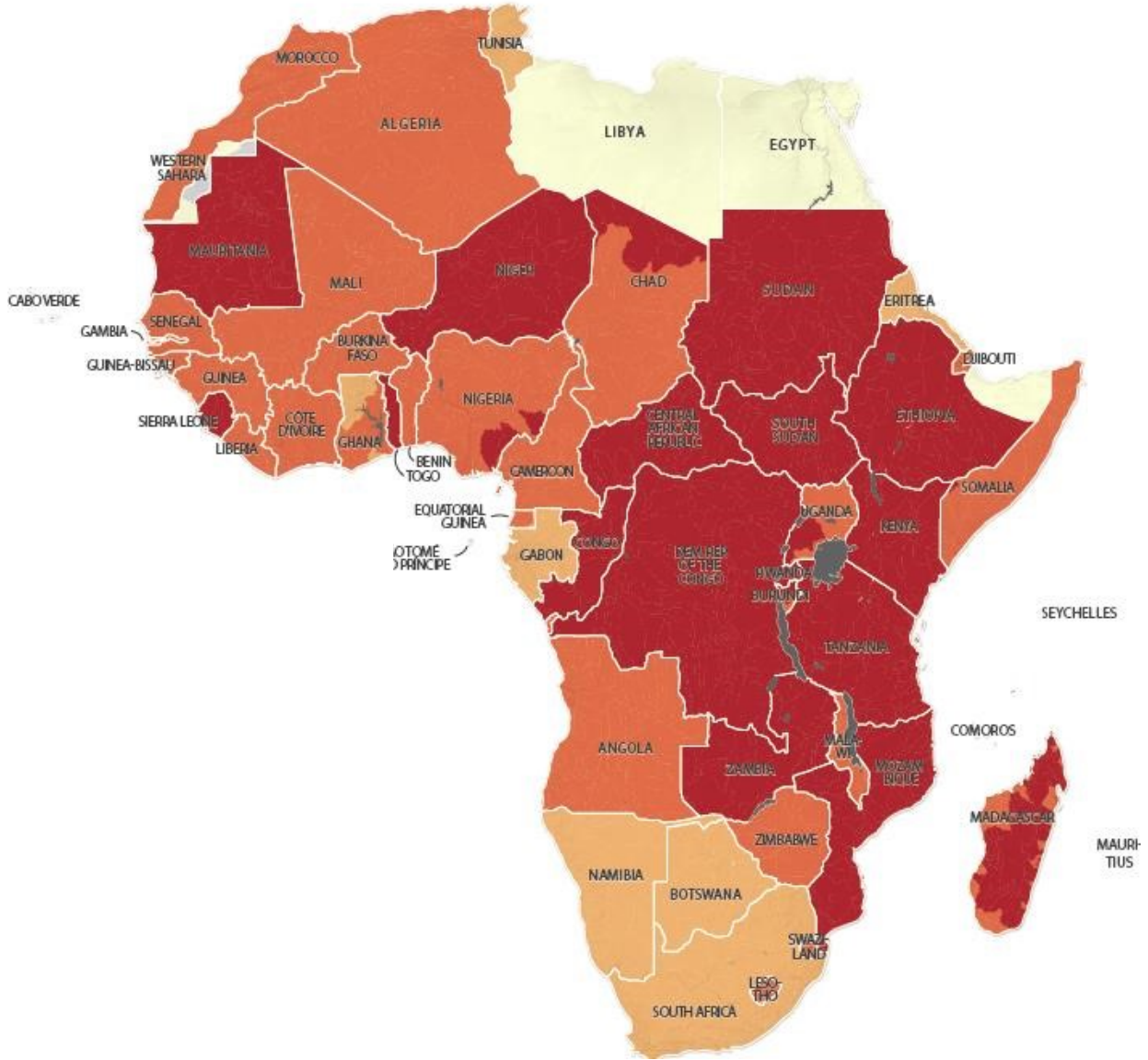
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An aerial photograph of a rural landscape. In the upper right, there are several buildings with corrugated metal roofs. A river flows through the center of the image, surrounded by dense green trees and vegetation. Below the river, there are several rectangular plots of land, some of which appear to be agricultural fields. The overall scene depicts a rural environment with a mix of natural and human-made elements.

Challenges

- Old regulations - wastewater is waste, and an environmental and health hazard!



Challenges

- Lack of sufficient and independent powers
 - regulatory power is concentrated at the national level;
 - unintended consequences of policies – agreements with investors are negotiated at government level, and tend to overlook non-compliance with mandatory regulation