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# (FOR) Overview

*“30% cheaper chemicals, 140x less CO<sub>2</sub> emissions”*

Drinking water treatment

Resource recovery of treatment chemicals

Selective recovery

Recover **90%** of chemicals with **95%** purity

# The Problem

Legislative changes

Dumping at landfill & evaporation ponds

Environmental

Hazardous waste & high CO<sub>2</sub> emissions

Economically prohibitive

Cost of land & oligopoly with chemical manufacturers

Trade

Ores imported. Limited circular economy

# The Solution

## (FOR) Links sustainability to financial returns

Circular economy



Reduces reliance on imported raw material

Reduces Costs



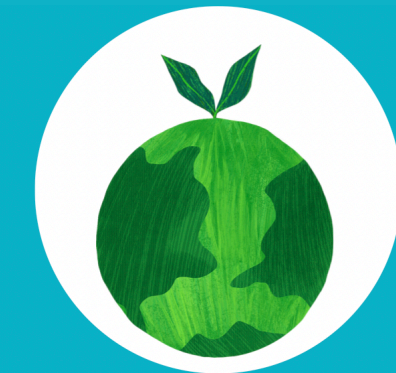
Up to **\*30%** saving on opex

Improves environmental impacts



Reduce chemical waste by up to **\*15%**

Supports global sustainability



Reduce up to **140x** CO2 emissions

# Sustainability Impact

## 11 SUSTAINABLE CITIES AND COMMUNITIES



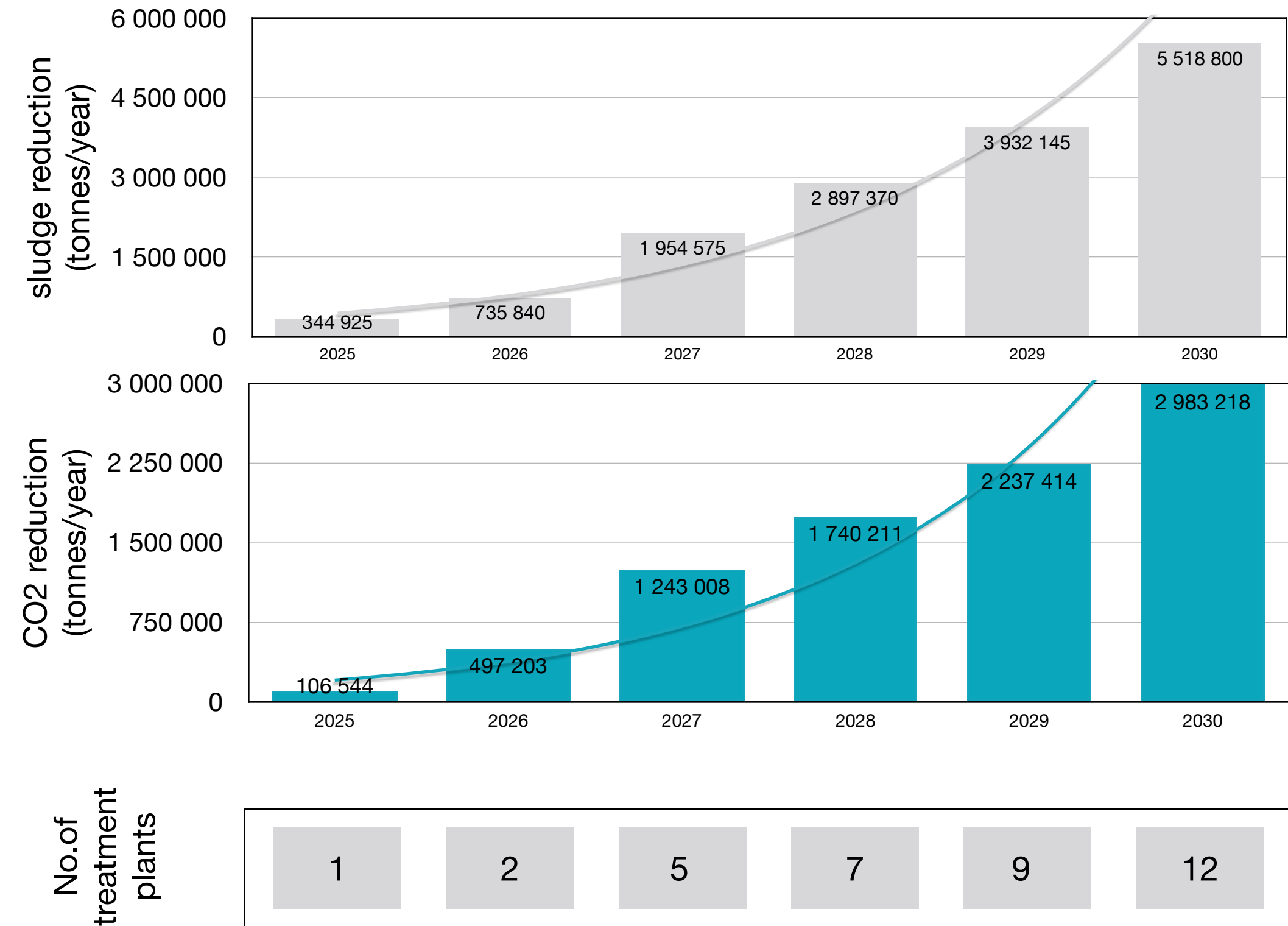
100kg/day of waste removed per US\$ invested

## 13 CLIMATE ACTION



32kg/day of CO2 removed per US\$ invested

Waste and CO2 emission reduction



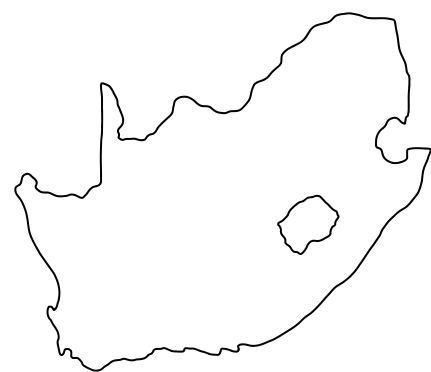
# Market size & Go-to-market

## Primary Market - England



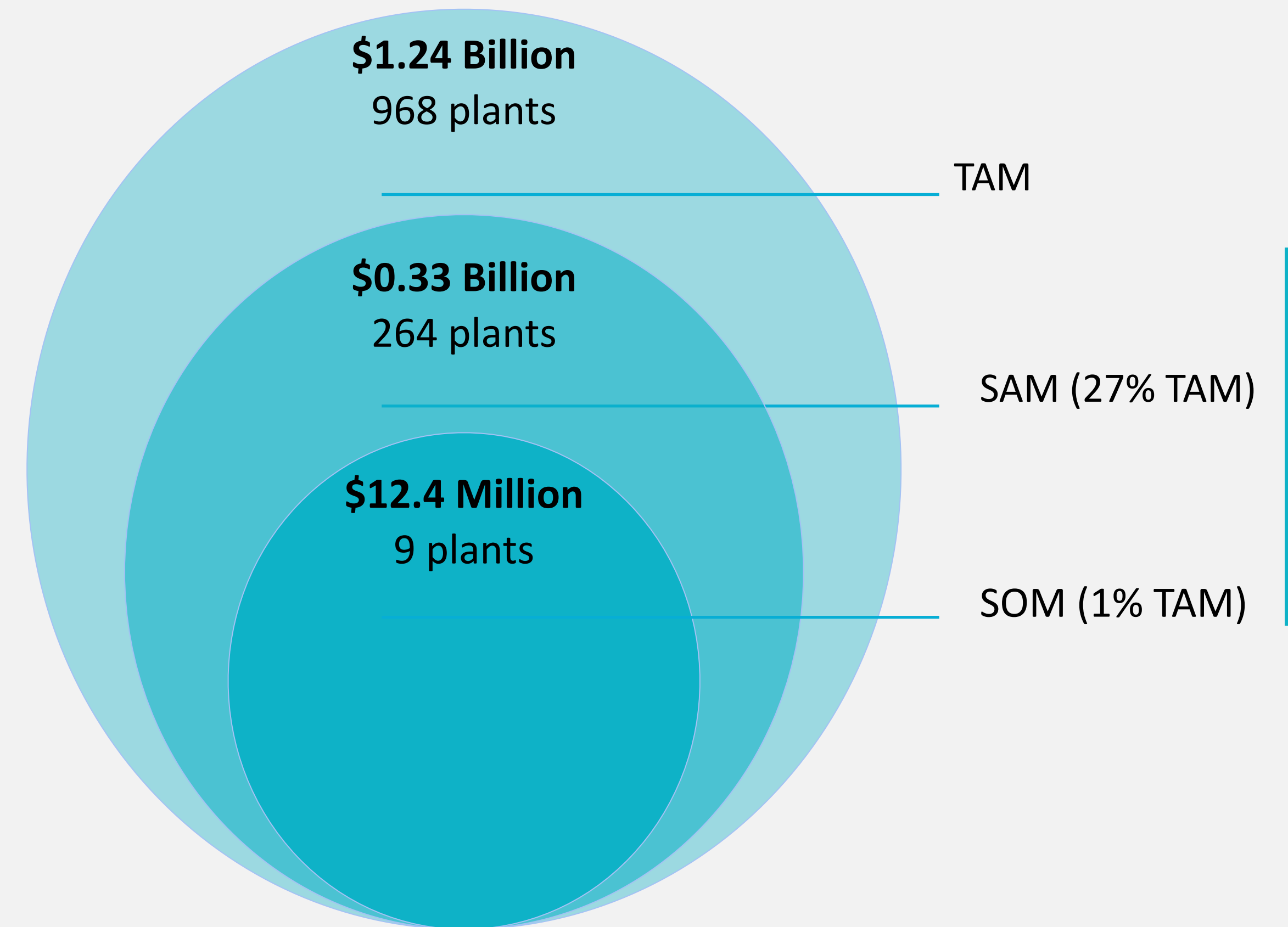
- Privately owned - 11 water utilities
- Strong investment appetite VCs
- R&D sites opportunity for mass uptake

## Adjacent Market - South Africa



- 9 water boards
- Similar treatment to primary market

## Primary Market Composition



# Validation

Validated over 7 years

## 3 water treatment plants (lab scale)

- Recover up to 90% chemicals
- 95% Purity

## Study for global mine

- Valorise copper from wastewater
- Additional US\$800 000 revenue

## Water Research Commission

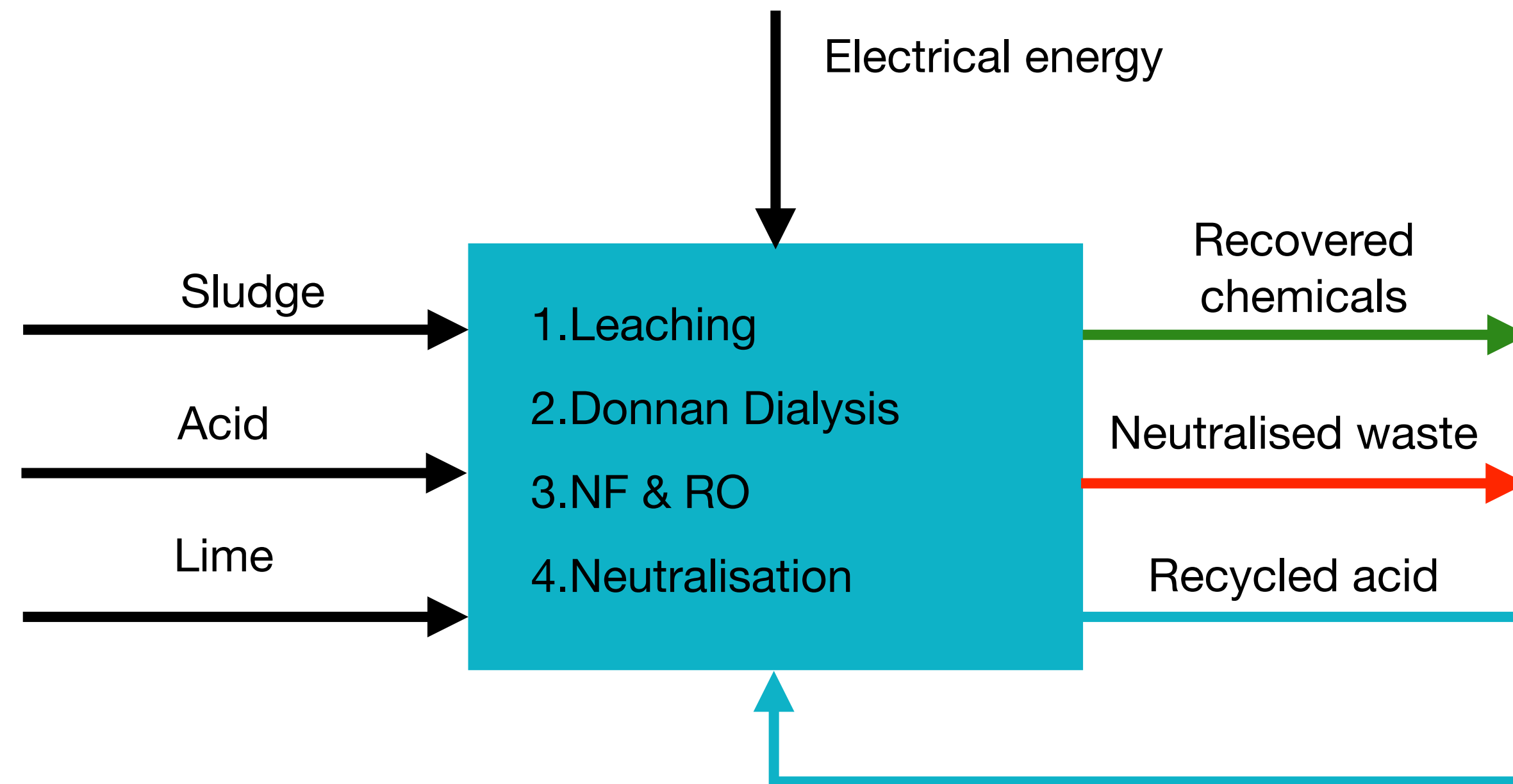
- Published reports
- Industry experts evaluation

## International Features

- Global water summit
- Smart Water magazine
- Water Action Platform

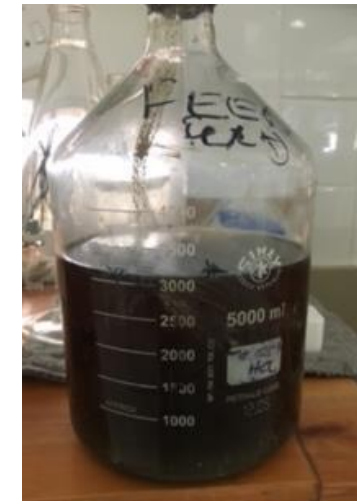
# Product and Technology

## Summarised (FOR) Treatment Process

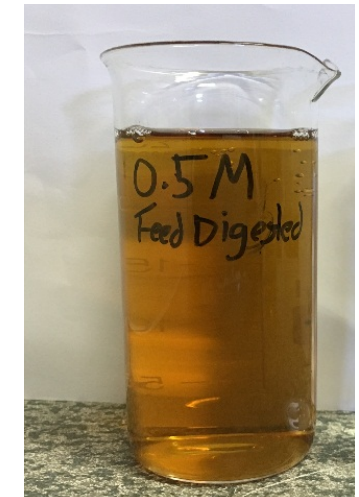


## Laboratory Results

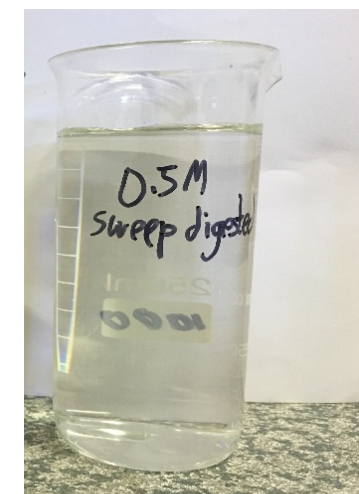
**1** Raw (sludge) Water Treatment Residuals



**2** Leached (sludge) Water Treatment Residuals



**3** Final Alum Recovered





# Founders & Advisors

Founder & CEO

Moletsane



- Masters Chemical Engineering
- Engineering Council SA
- Water Research publications

Co-founder

Rethabile



- Honours Actuarial Science
- FASSA
- Passed CFA Level 1

Market Entry

Stuart



- Experience in UK clean technology
- Emerging technology expert
- Deal advisor

Business Strategy

Christoph



- Seasoned entrepreneur
- 5 Ventures, 2 exist, 2 in pipeline
- Stanford LEAD, OUBS MBA

Legal

Kuena



- Seasoned commercial Lawyer
- Co-Founder of Federation of Woman Lawyers
- Former Chairman of NUL Council

# Value Network

## Water Innovation Living Labs



- University of Brescia
- Cohort participants
- Technical experts

## African Impact Challenge



- Universities of Cape Town & Toronto
- Clayton Christensen Institute
- MasterCard Foundation

## Isle Utilities



- Investor outreach
- Client outreach
- Technical industrial experts

## United Nations Industrial Development Organisation



- Global CleanTech Innovation Programme
- Technology Innovation Agency

# Next Steps (Piloting)

## Target Outcomes

- ✓ Secure US\$500 000 to construct pilot plant
- ✓ Move from lab scale to pilot scale
- ✓ Strategic Investors and Strategic Clients

Planned Milestones	Months																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	...	
Pilot stage																				
Raise US\$500 000 1. Government grants 2. Accelerator funding 3. Strategic partners																				
Ordering of equipment																				
Construction & testing																				
Demonstrations to potential clients																				
Build team for commercialisation (phased)																				

# Thank you



## CONTACT US

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