

# Smart Procurement

How Sustainable Procurement is a  
tool to implement the green economy

ICLEI- Local Governments for Sustainability -  
Africa Secretariat



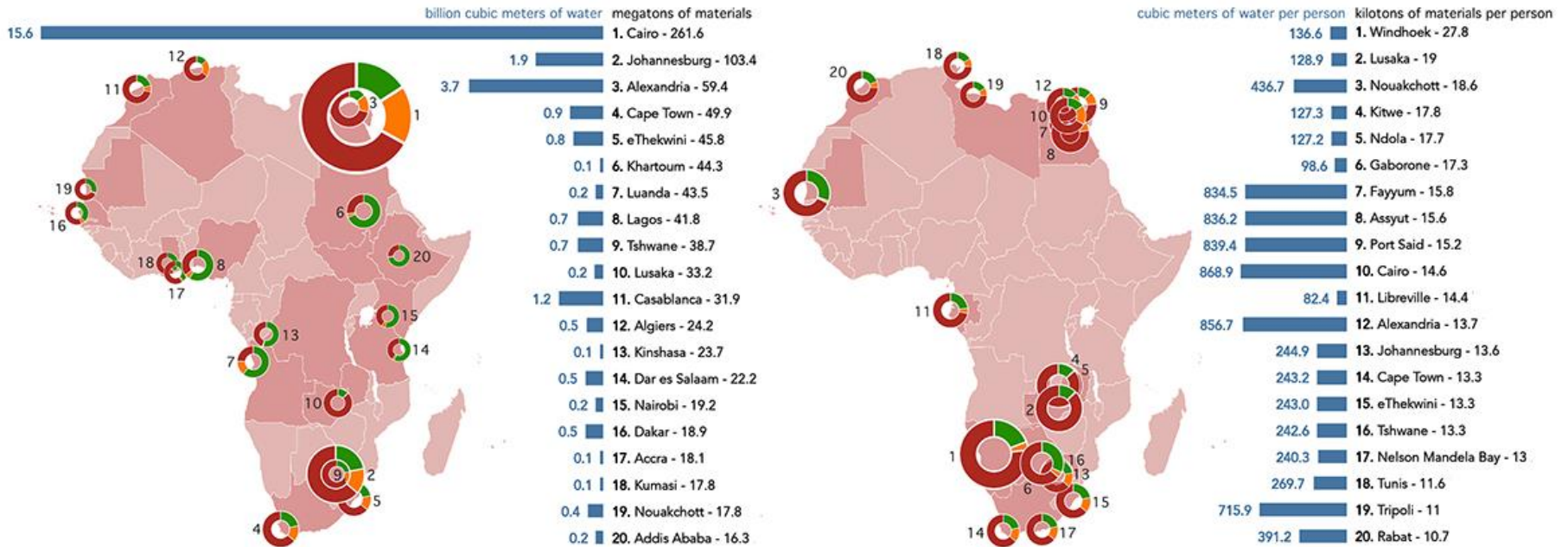
# Introduction

The impact of our decisions

## Resource Impact of African Cities

the 20 most resource intense urban settlements larger than 200,000 people in Africa

Currie, P.K. and J.K. Musango, 2016. African Urbanization: Assimilating Urban Metabolism into Sustainability Discourse and Practice: African Urbanization. Journal of Industrial Ecology. <http://doi.wiley.com/10.1111/jiec.12517>



biomass

fossil fuels

construction & industrial minerals

water

[http://www.umama-africa.com/Vignettes\\_files/20-intense-cities.html](http://www.umama-africa.com/Vignettes_files/20-intense-cities.html)

# Introduction

The impact of our decisions

## Our Broken Materials Economy, a.k.a. "The Story of Stuff"

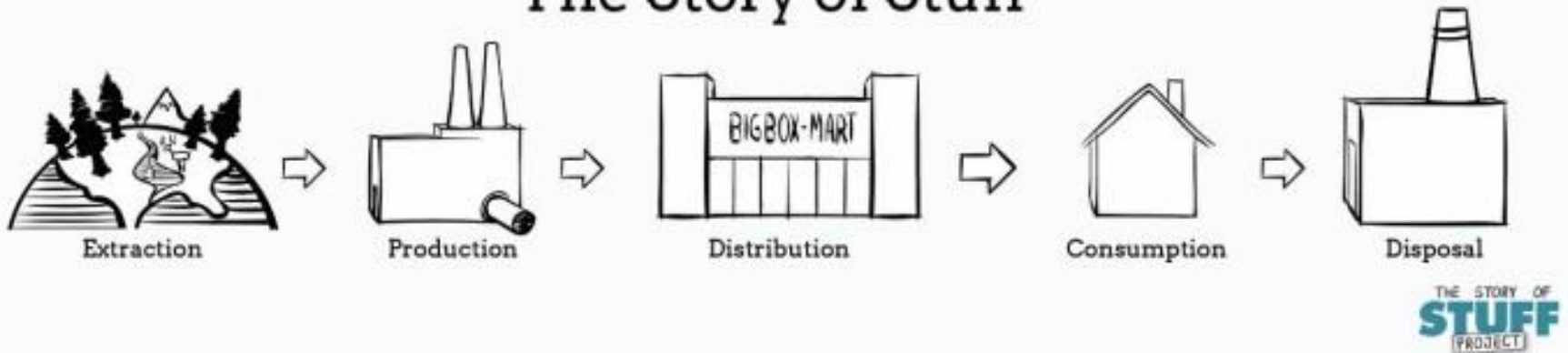
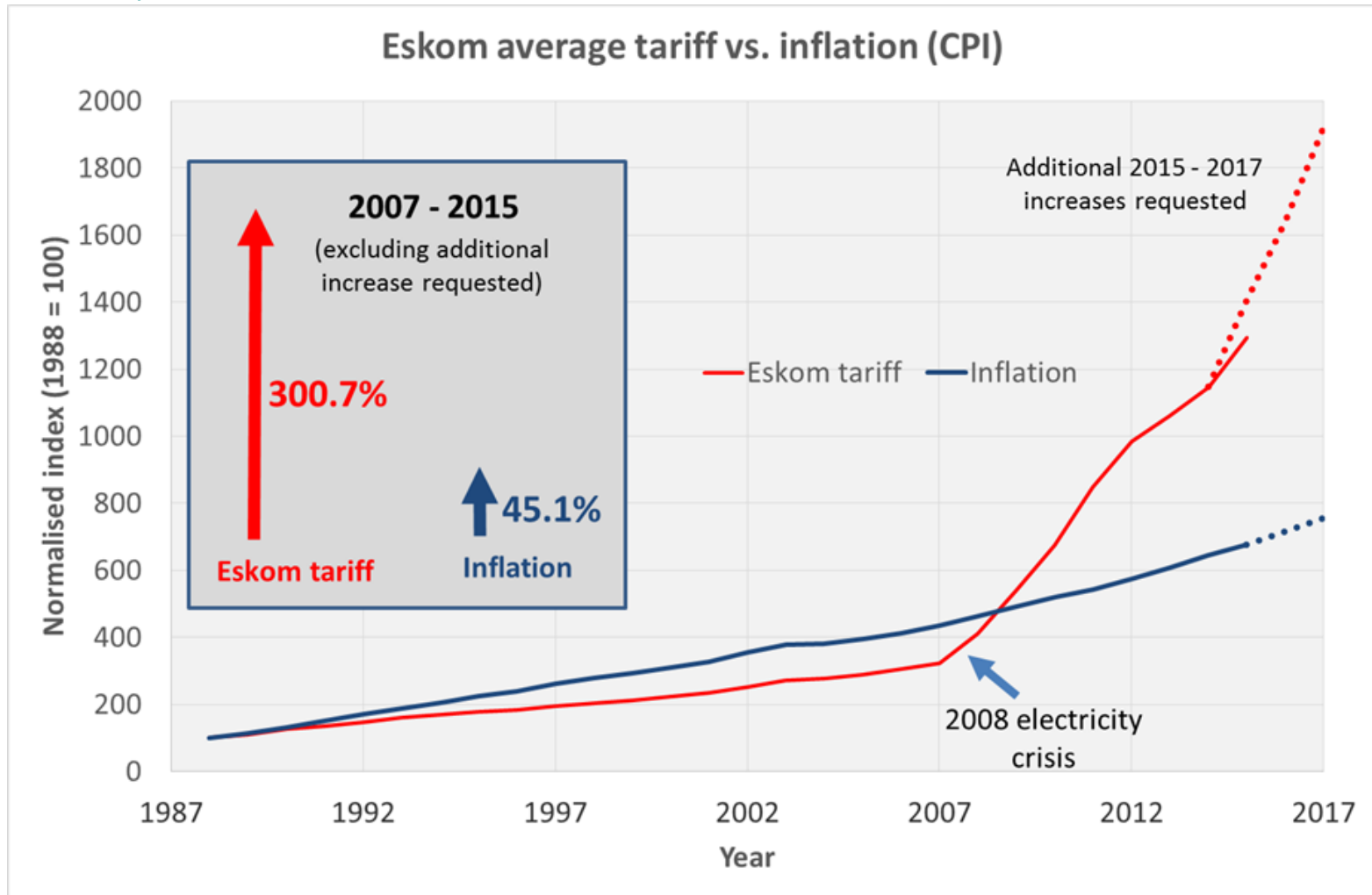


Image credit: Story of Stuff

# Introduction

The impact of our decisions



<http://www.poweroptimal.com/infographic-eskom-tariff-increases-vs-inflation-since-1988-projections-2017/>

# Introduction

## What is Sustainable Public Procurement?



*Fig 1. Sustainable procurement impacts*

# Opportunities

Key focus areas of Sustainable Public Procurement



1. Construction



2. ICT (information and  
communication technology)



3. Cleaning



4. Food and catering



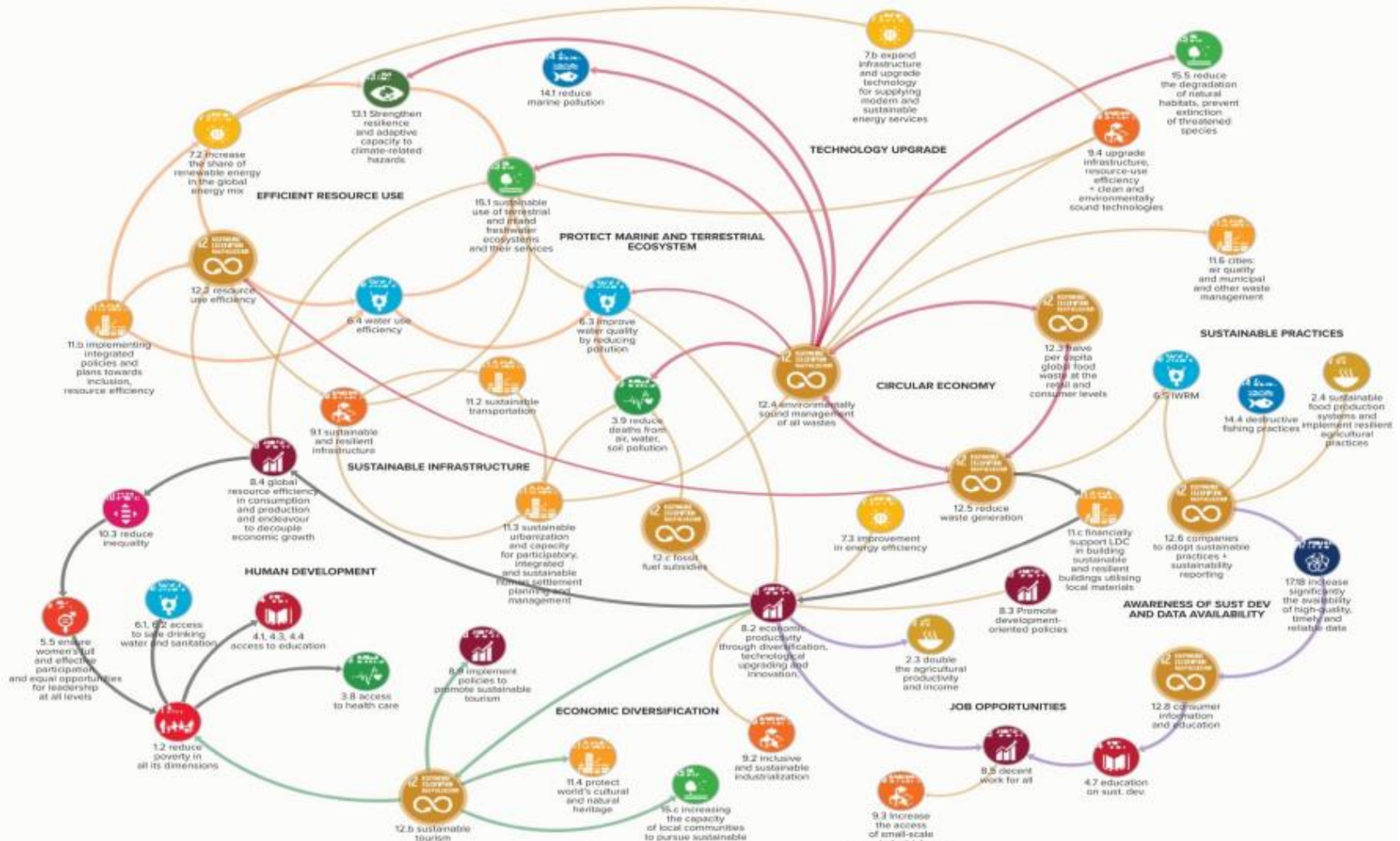
5. Vehicles



6. Electricity

# Sustainable Public Procurement

## Sustainable Development Goals



<https://opendevelopmentmekong.net/topics/sdg12-responsible-consumption-and-production/>

# SmartProcurement Programme

## Aim and Objectives

### Aim

To contribute to the achievement of the Green Economy Strategy by supporting provincial and local governments in the Western Cape to implement sustainable public procurement in policy and action over a three year period, til March 2021.

### Objectives

- Review and build on the case for sustainable public procurement
- Identify and test key product and service groups, and associated relevant criteria, to implement sustainable public procurement in one department in the provincial government and three local governments
- Add to the local and global body of knowledge on sustainable public procurement
- Work with provincial and local governments to develop a toolkit for the implementation of sustainable public procurement in the Western Cape



# SmartProcurement Programme

Work Plan

## REVIEW & RESEARCH PHASE

2018

SPP review

Green Economy Analysis

Prov Dept spend

ID & test key products and service groups

2019

## BUSINESS & CASE STUDIES

Infra & resource efficiency focus

Review single department for SPP implementation

Process review: Proc & TCO

Engage for implementation

2020

## IMPLEMENTATION PHASE

Develop SPP Toolkit

Local government implementation

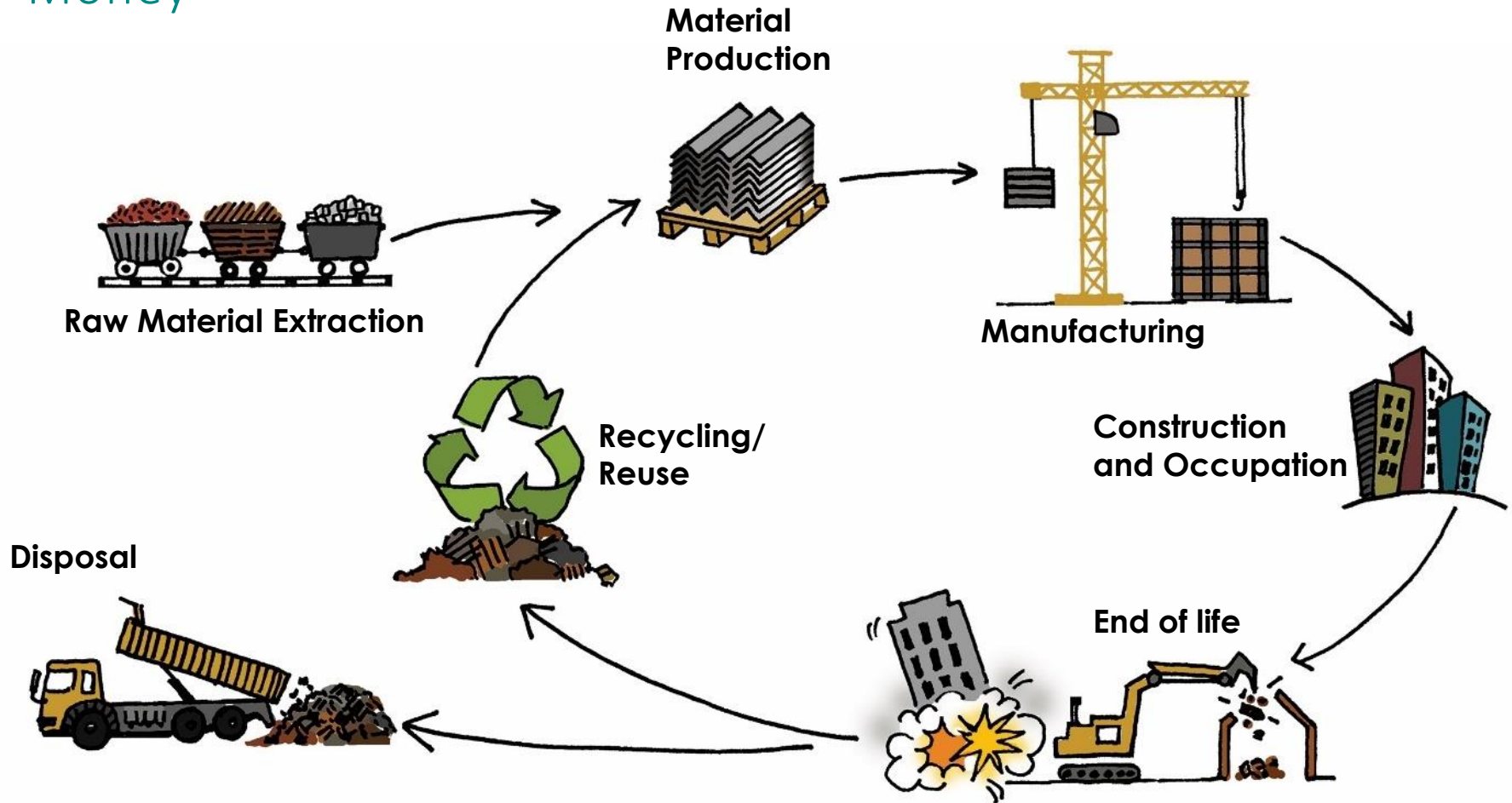
Guideline

2021

## SmartProcurement SPP Programme

# SmartProcurement

Evaluating Total Cost of Ownership for Value for Money



# SmartProcurement

## Evaluating Total Cost of Ownership for Value for Money

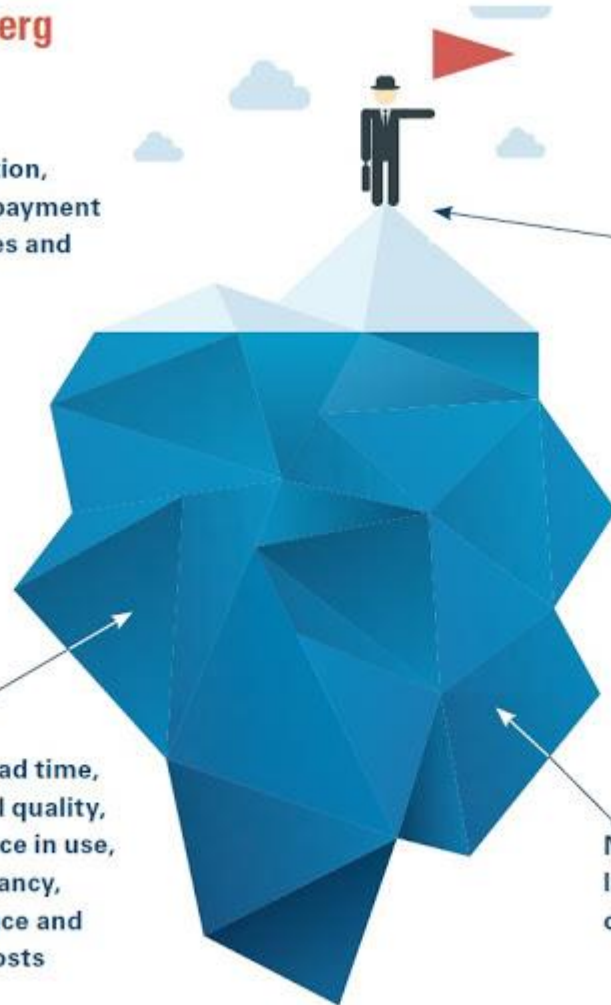
### TCO Iceberg

Transportation,  
discounts, payment  
terms, duties and  
tariffs

Price

Costs of lead time,  
differential quality,  
performance in use,  
life expectancy,  
maintenance and  
disposal costs

Natural disasters,  
labor strikes or  
other disruptions



# SmartProcurement Programme

## Case Studies

	<b>Preekstoel Biofiltration Water Treatment Plant</b>	<b>Energy Services Contract for Provincial Property Portfolio</b>	<b>Worcester Materials recovery Facility</b>
<b>Location</b>	Overstrand Municipality	Western Cape Province	Breede Valley Municipality
<b>Department Responsible</b>	Overstrand Municipality Infrastructure and Planning: Engineering Planning	Western Cape Department of Transport and Public Works (DTPW)	Breede Valley Municipality, Directorate of Technical Services
<b>Description</b>	The Overstrand Municipality, South Africa, is utilising iron and manganese rich ground water reserves in order to supplement surface water resources. The iron and manganese is removed via biological oxidation and filtration in place of conventional chemical precipitation. The biological oxidation process has been demonstrated internationally, but this is the first installation of its kind in South Africa.	An energy services contract (ESCO) has been established by the DTPW to increase resource efficiency in their buildings. Started with only energy efficiency and demand reduction, now moving to water.  An ESCO is a shared savings model where the operational costs saved by installing efficiency measures is shared by the service provider and the DTPW at an agreed percentage.	The project comprised the design and construction of a Material Recovery Facility at the existing Worcester Waste Disposal Facility (Regional Facility). At the proposed recycling centre, the community can recover materials of value from the waste stream before the waste is transported to the licensed Worcester municipal waste disposal facility. The tailings from the material recovery facility will be transported via road to the regional waste disposal facility at Worcester.

# Thank you

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## Get in touch

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