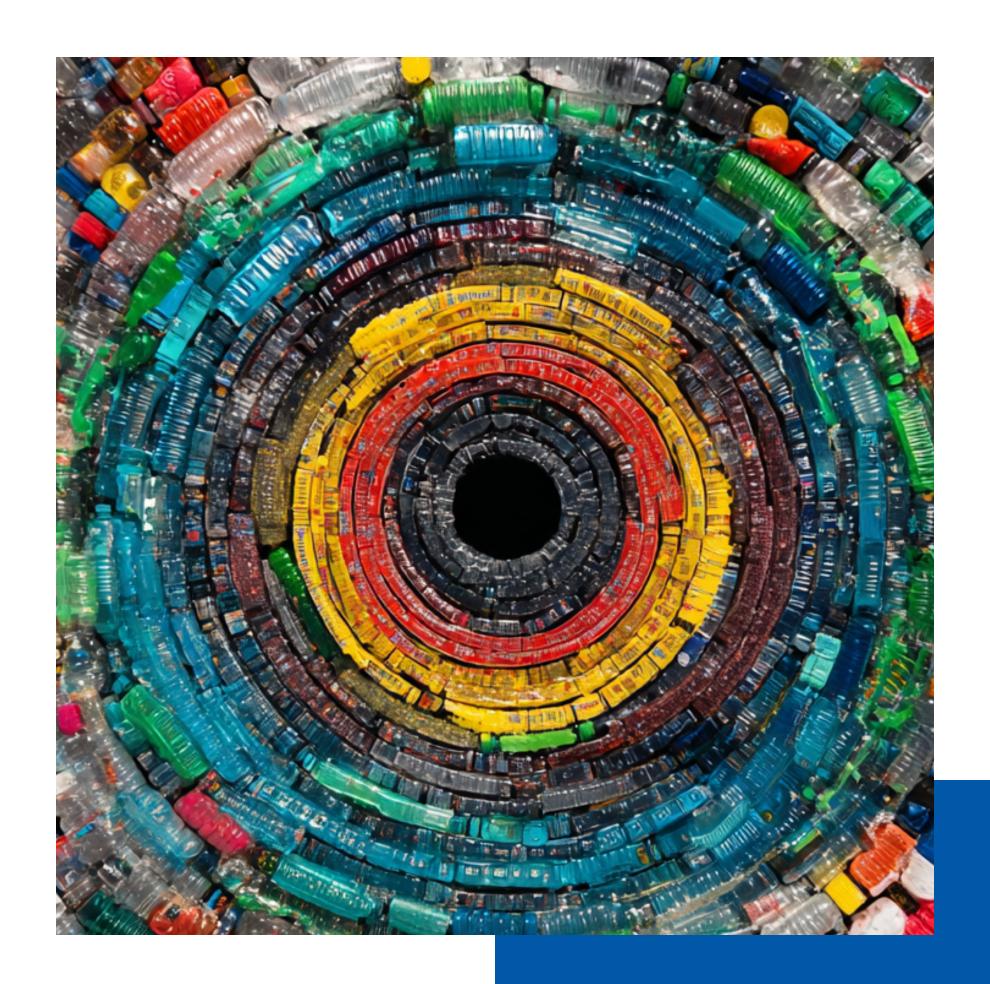
Plastics SA

Circular City Labs Textbook

A digital guide to building a sustainable circular economy through reusable plastics, innovation, and inclusive collaboration in South Africa.



Circular City Labs
Testing Reusable Packaging Systems in Cities

Implemented by









Introduction

This digital textbook contains consolidated training materials, based on the Accelerator programme training sessions that formed part of the *Circular City Labs:* 'Testing Reusable Packaging Systems' project.

The purpose of this textbook is to capture and consolidate lessons learned through the project's implementation to reach a wider audience along the circular economy value chain.







Project Background

The Circular City Labs: 'Testing Reusable Packaging Systems' project was commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ) and funded through the BMZ Initiative for Climate and Environmental Protection (IKU).

The project aimed to reduce greenhouse gas emissions through waste prevention, test reusable packaging systems, and strengthen women's participation in local circular economies.

Implemented by *GIZ* in partnership with *Plastics SA*, the project selected *Gcwalisa* as its pilot partner. In addition, three other businesses from the proposal pool were invited to join an accelerator programme designed to build their capacity in circular economy practices, reuse systems, and gender inclusion.



Piloting Partner

Gcwalisa, a grocery outlet in Alexandra township, Johannesburg, operates on a weigh-and-pay model that enables customers to buy only what they need, helping to reduce the 'poverty tax' often faced by low-income households unable to buy in bulk.

During the pilot phase, *Gcwalisa* introduced reusable plastic packaging fitted with QR barcodes to track return cycles, replacing single-use packaging and promoting circular economy practices. The initiative also created jobs for 4 women through reuse ambassadors who engaged customers and raised awareness; two of the women were retained after the pilot.

With an average return rate of 35%, the project demonstrated strong community participation and delivered both environmental and socio-economic benefits, successfully meeting its intended objectives.

www.gcwalisa.com





Accelerator Programme

The *ACEN* study on scaling packaging reuse models in South Africa highlighted key challenges faced by reuse initiatives, including limited access to financing, difficulties in adapting supply chains for reuse, and the absence of clear health and safety standards.

Recommended interventions included collaborative learning, innovative funding mechanisms, stronger supply chain partnerships, and the development of operating standards for reuse models.

In response, the accelerator programme, implemented by *GIZ* and *Plastics SA*, was designed to address these barriers by providing targeted training and mentorship to selected businesses such as *Gcwalisa*, *Shix Mineral Ice*, *Reusify*, and *Smartfill*, strengthening their capacity to implement and scale circular packaging solutions across South Africa.

Read more about the ACEN study.



Chapter 2 Circular economy & reuse systems in South Africa



Introduction

Bianca Robinson

ALPAL is a company whose vision is to transform supply chains for circular efficiency. They specialize in the reusable, bulk packaging - the first of its kind.

As Chief Innovation Officer, Bianca is responsible for driving both Business Innovation and Sustainability at ALPAL. She ensures that the organization holds true to its vision of providing customer value that is transformative by nature and circular by design. To this end, she is pioneering ALPAL's digital strategy and steering the organization's sustainability agenda.





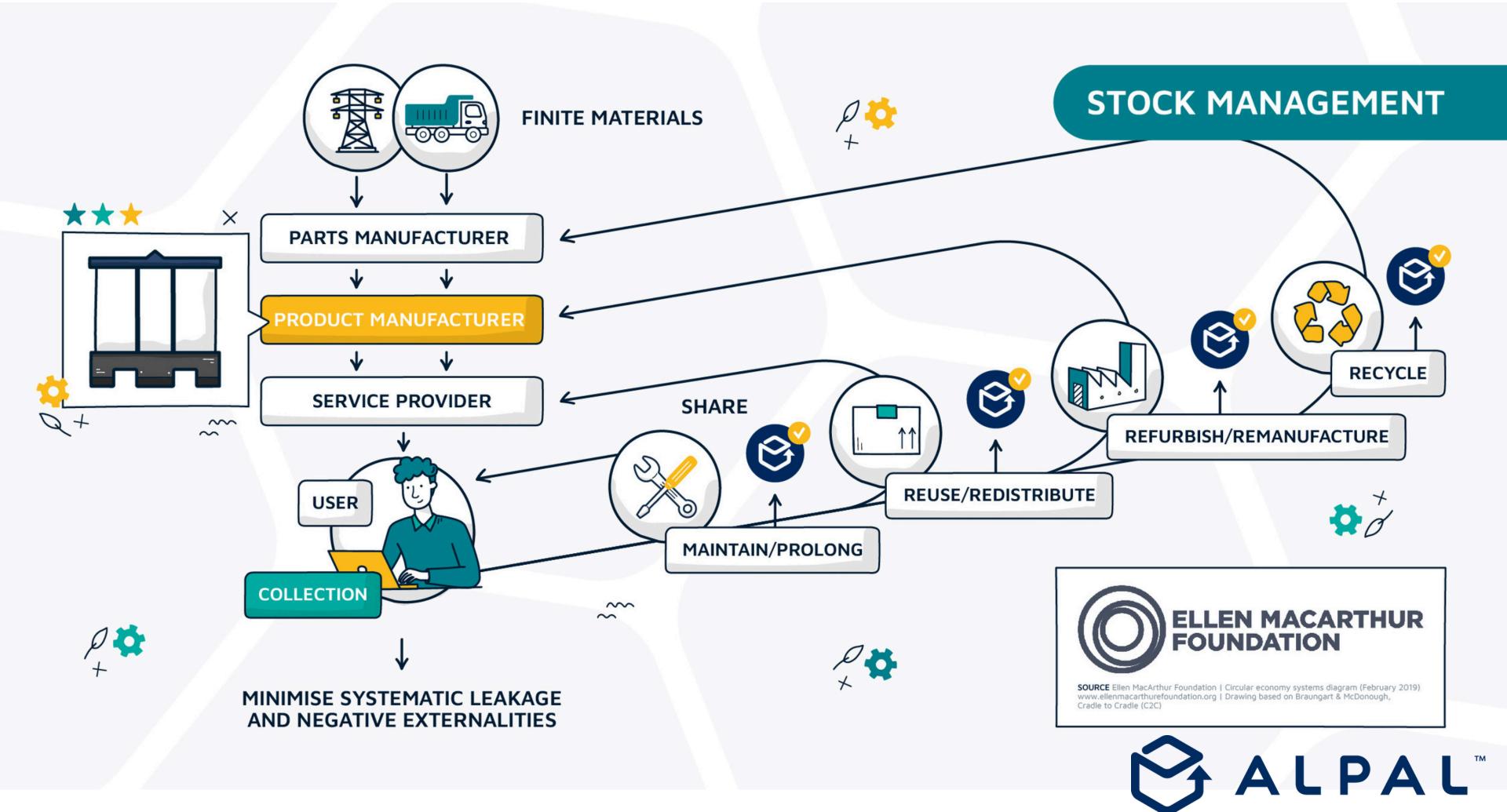
CIRCULAR ECONOMY & REUSE SYSTEMS IN SOUTH AFRICA

WHAT IS ALPAL?

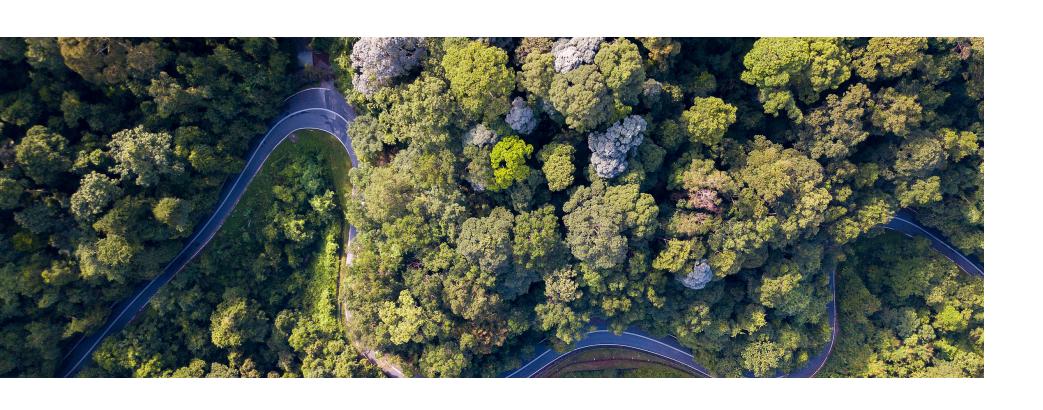


OR CLICK HERE TO WATCH THE VIDEO





OVERVIEW



- CONTEXT IS KING
- 02 SUSTAINABILITY TIMELINE
- SOUTH AFRICA CURRENT POSITION
- WHAT ARE THE DRIVERS
- EPR
- SA CHALLENGE & OPPORTUNITY
- WHAT TO EXPECT IN THE FUTURE
- 08 WHAT BUSINESS/SA SHOULD BE AWARE OF

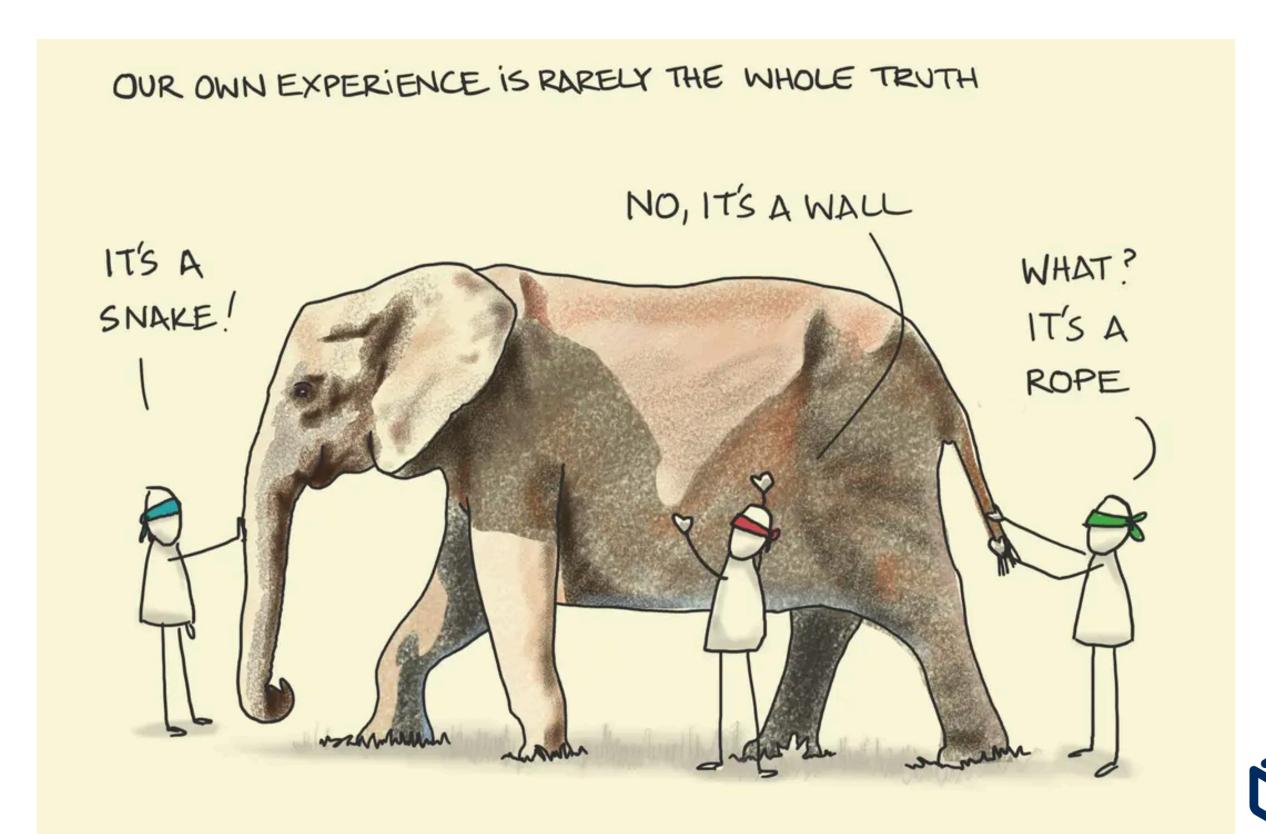






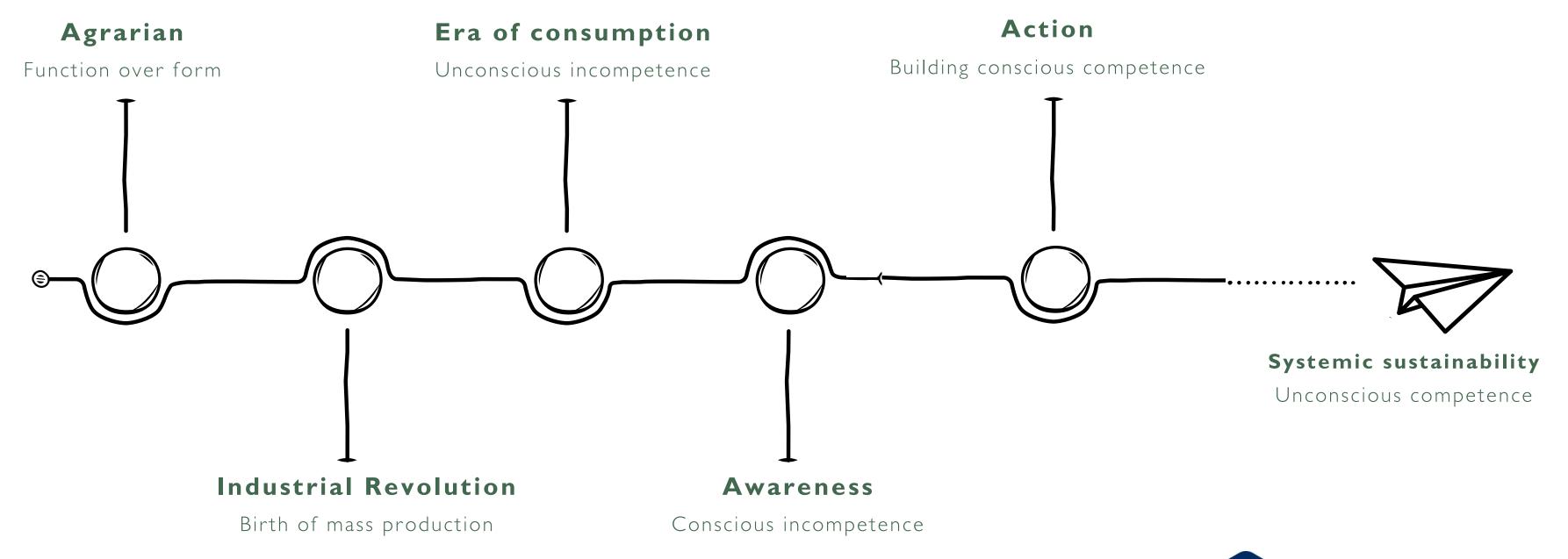


CONTEXT PROVIDES THE WHOLE PICTURE



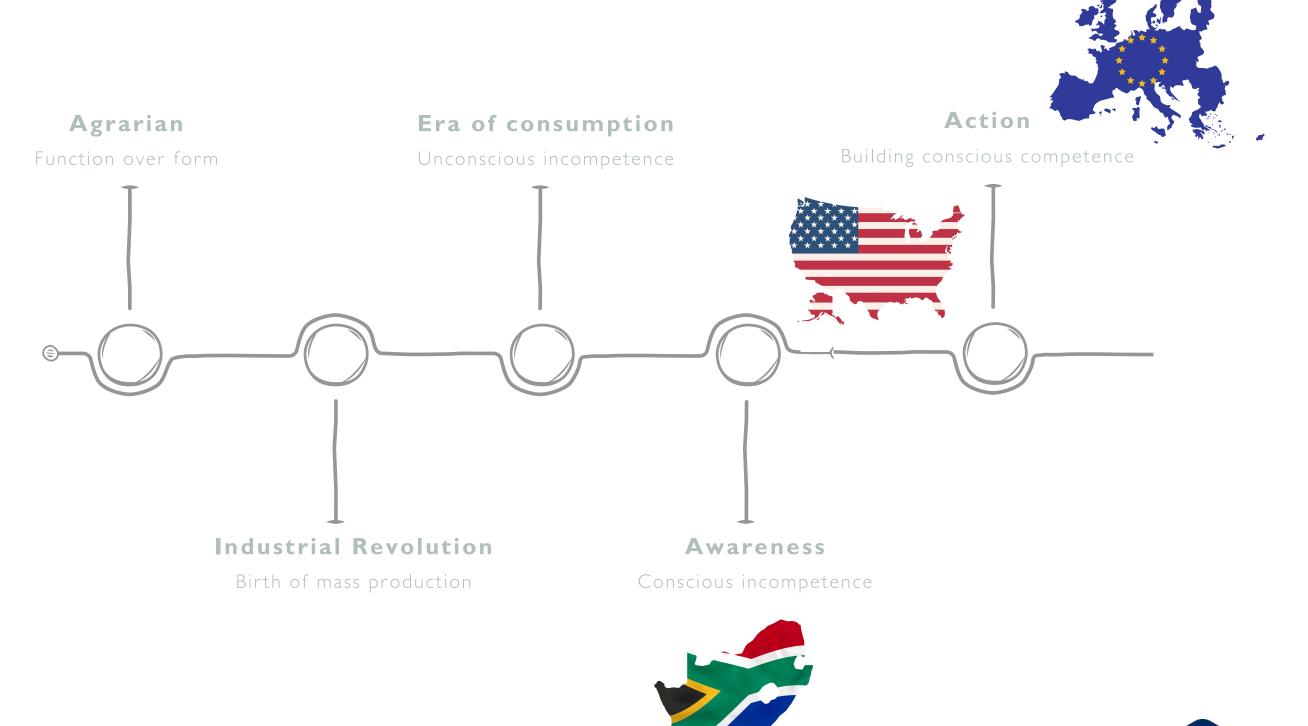


SUSTAINABILITY TIMELINE



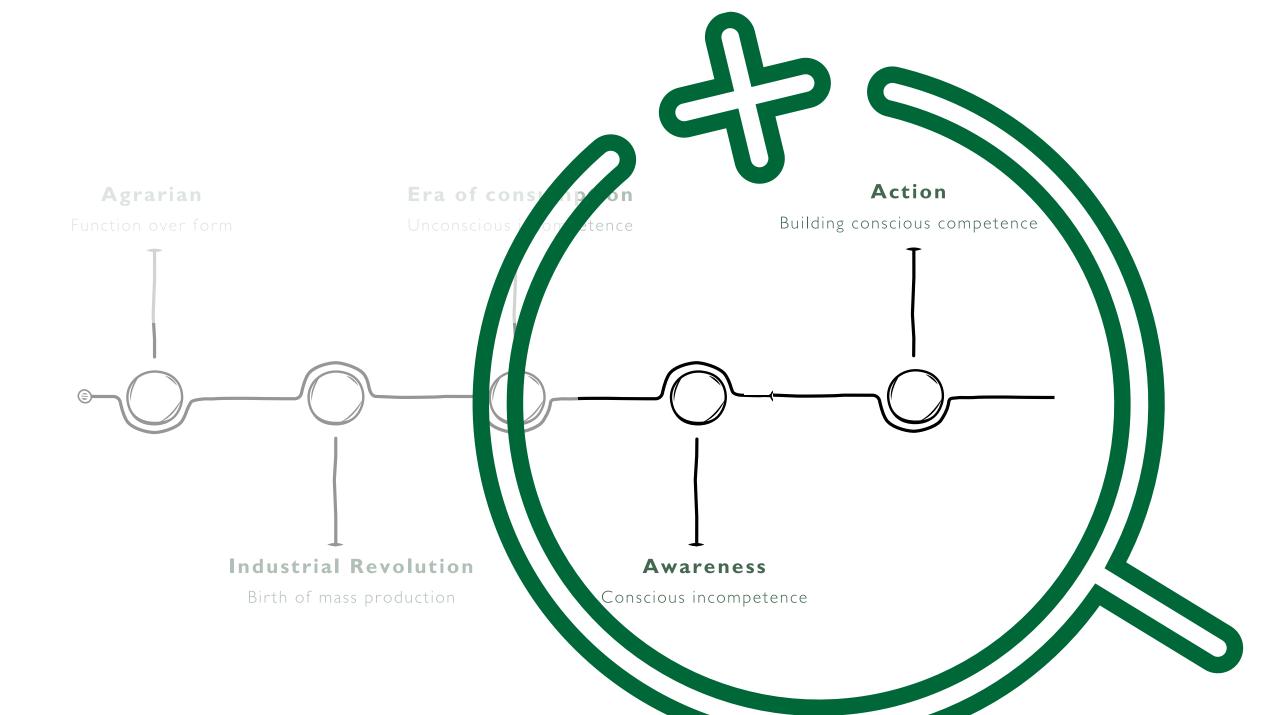


SUSTAINABILITY TIMELINE





SUSTAINABILITY TIMELINE







- 48% -

Reuse

Recycling

Municipal waste recycling³

Recycling is not the solution





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- 10% -



- 32% -

References:

I.ICLEI Africa- <u>Circular Economy in South Africa Report</u>

Awareness

Limited action

2. US EPA- National Overview: Facts and Figures on Materials, Wastes and Recycling

3. Eurostat- Municipal Waste Statistics (EU Official Website)

"What's driving the sustainability status?"



URGENT-IMPORTANT

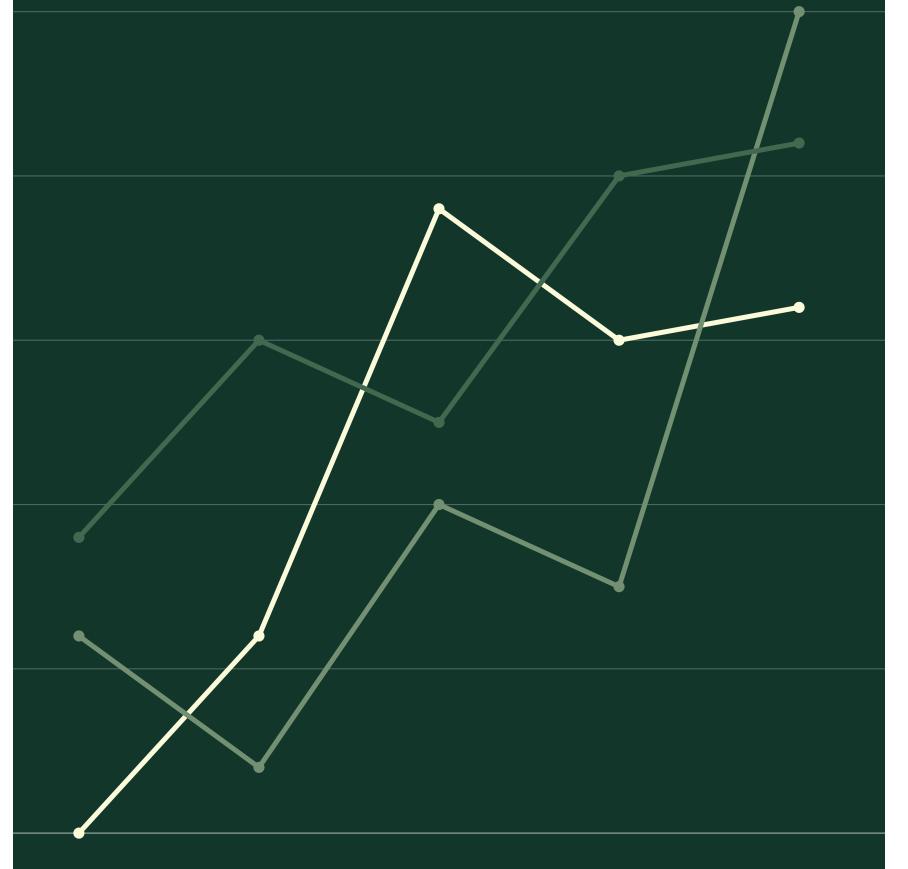
	URGENT	NOT URGENT
IMPORTANT	Do it Things with clear deadlines and consequences for not taking immediate action.	Schedule it Activities that bring you closer to a set deadline that bring you closer to your goals. Easy to procrastinate on.
NOT IMPORTANT	Delegate it Things that need to be done but don't require your specific skills. Busy work.	Delete it Tasks that distract you from your goals.



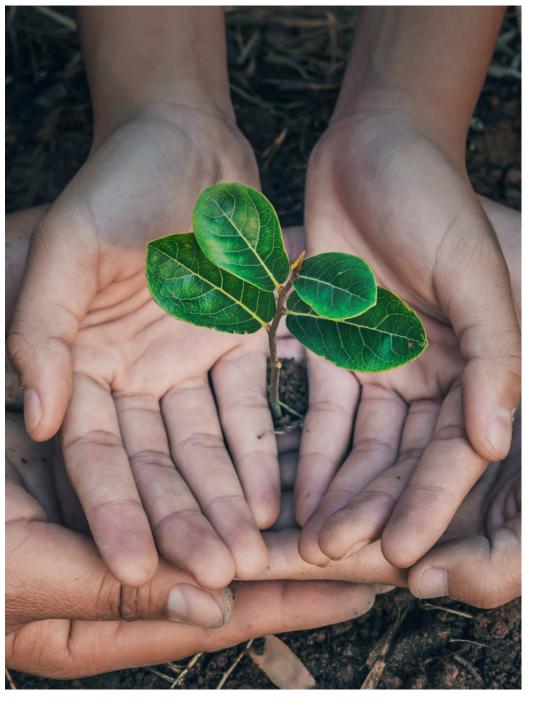




Dynamic interplay of elements



EVER-EVOLVING MARKET





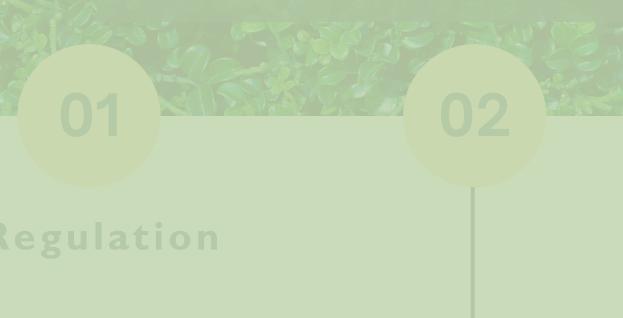


SUSTAINABLE TRANSFORMATION

A global imperative





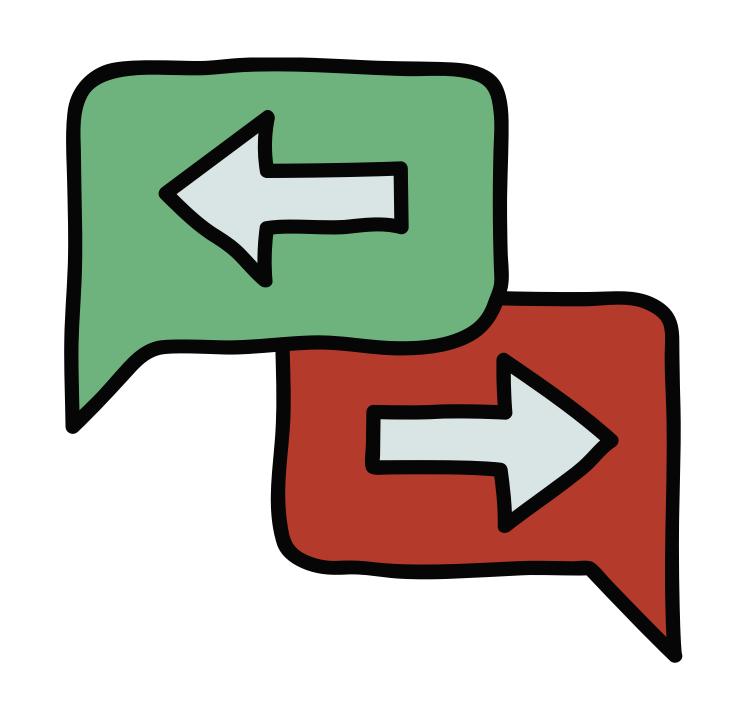


Reporting





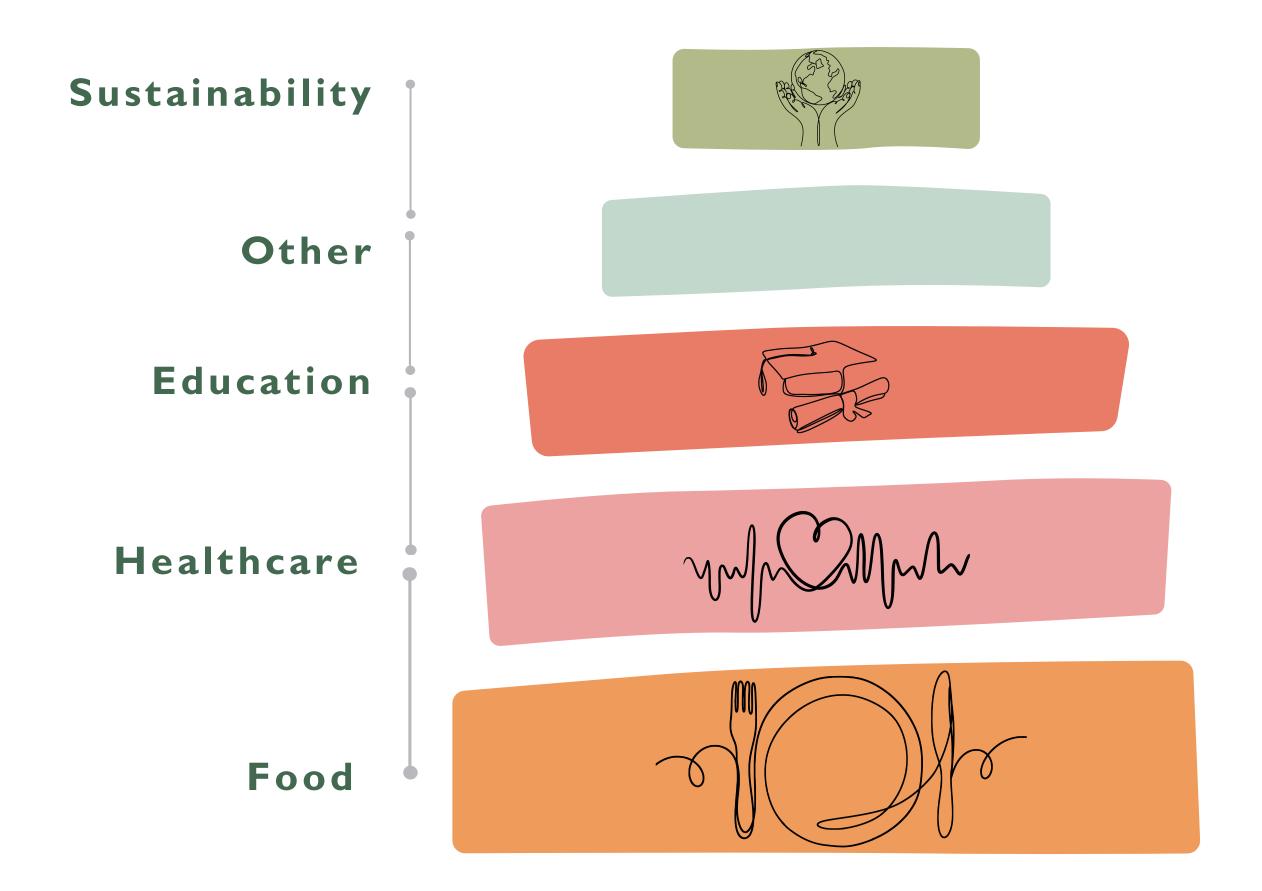
SA CONSUMER HAS A FUNDAMENTALLY DIFFERENT CONTEXT







HIERARCHY OF NEEDS



MATTER OF PRIORITIES





GENERALLY IN DEVELOPED CONTEXTS...



Consumer facing sustainability transformation





GENERALLY IN DEVELOPED CONTEXTS...

Little focus on the primary end of the supply chain







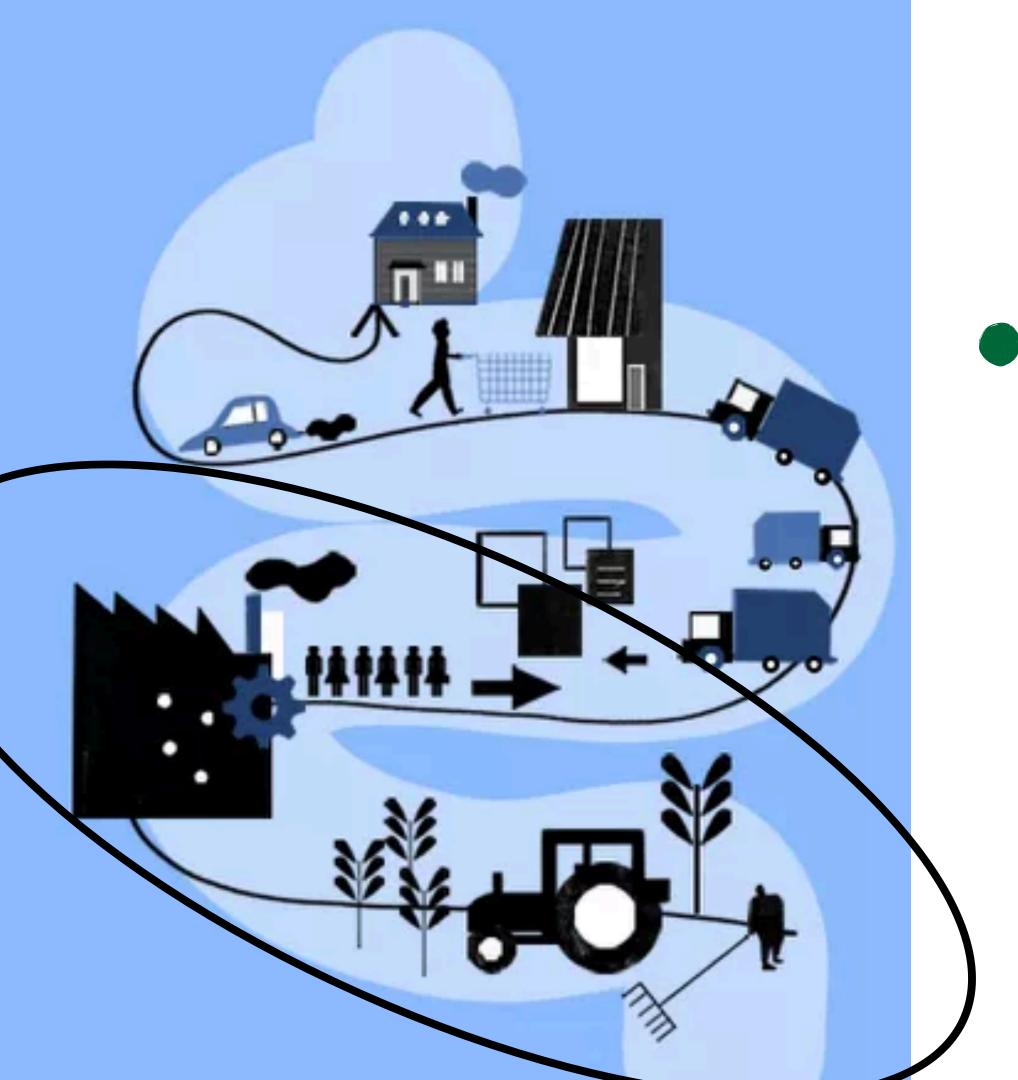
IN SOUTH AFRICA

- Pressure not coming from consumer
- Difficult to drive sustainability transformation from consumer angle



Primary end of the supply chain





SOUTH AFRICA & EPR

Focus on Extended Producer

Responsibility (EPR) makes sense

"An environmental policy approach in which a producer's responsibility for a product is extended to the post-consumer stage of the product's life cycle."

Section 18; National Environmental Management: Waste Act

EPR only really formalized framework



SA ARE AMONGST THE LEADERS IN EPR

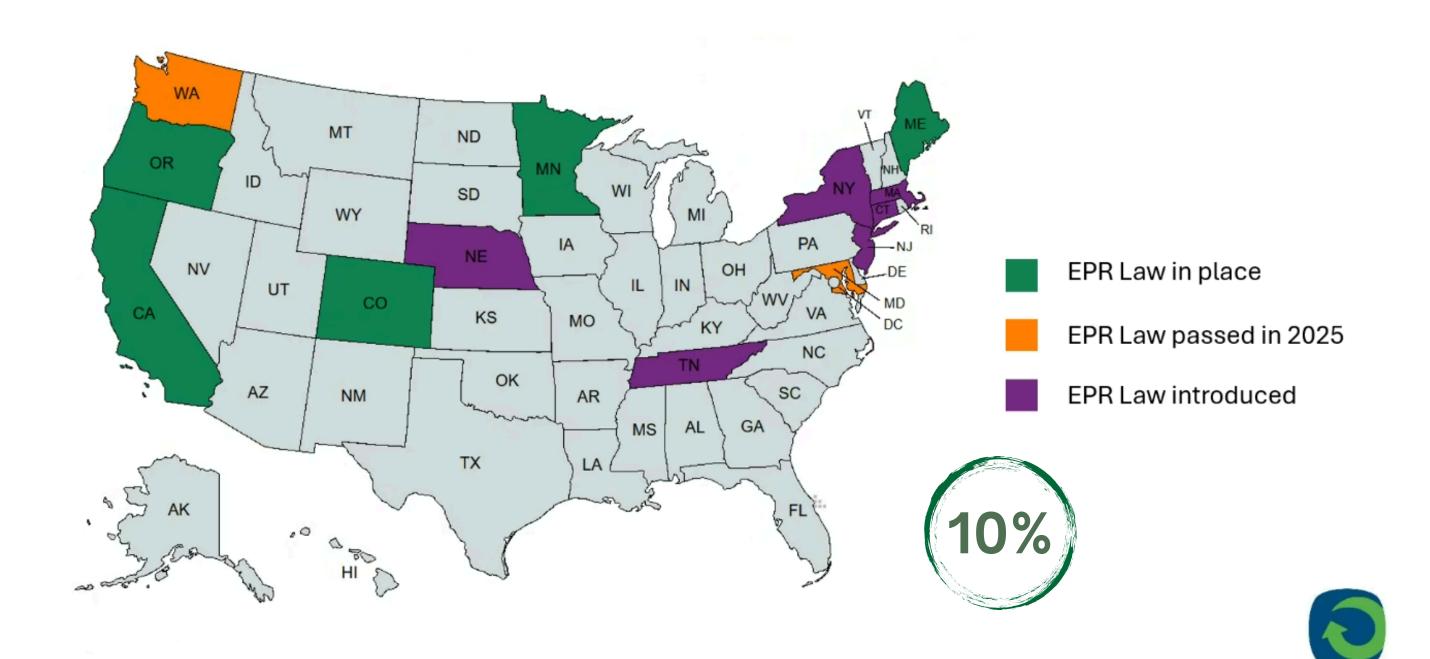






SOUTH AFRICA ARE AMONGST THE LEADERS IN EPR

US State EPR Policies





THE CHALLENGE...

South Africa has both a waste crisis and a waste focus

"The National Waste Management Strategy (NWMS) aims to transition to a circular economy by diverting waste from landfills.

Extended Producer Responsibility (EPR) play a significant role in this transition."

- Circular Economies in South Africa Report, ICLEI Africa





THE OPPORTUNITY...

TRANSFORM





Focus on waste issues



Focus on consumption issues

Reactively managing waste



Proactively preventing waste





WHAT CAN SOUTH AFRICA EXPECT IN THE FUTURE?

Circular Economy & Reuse Systems



WELIVE IN A GLOBAL ECONOMY





NO COUNTRY IS AN ISLAND

South Africa is hugely dependent on exports and imports for its economic growth and development

Exports accounted for **32.75%** of SA **GDP** in 2023 (over a third)

Can't ignore what's happening globally.

Context is king.



LOOK TO THE LEADERS



We are impacted by the standards they set

Don't reinvent the wheel

Unique opportunity to leverage the learnings and wars scars of the early adopters/pioneers



US GRANT FUNDING FOR A RESEARCH PROJECT



Meeting EU Packaging Requirements for a Circular Economy for U.S. Food Exports











WHERE ARE THE LEADERS AT?



PACKAGING **LEGISLATION**

Waste Framework Directive

Packaging & **P**ackaging Waste Regulation

Plastic **P**ackaging Tax

> Green Claims

Green Deal

EU

Directive

Global **Plastics** Treaty

Extended Producer Responsibility

The Paris Agreement

REUSE Act

Waste Shipment Regulation Sustainable **F**inance **D**isclosure Regulation

EU Taxonomy

Corporate **S**ustainability Reporting **D**irective

Carbon Border Adjustment Mechanism

OTHER





PPWR



Reuse targets

As high as 100% in certain applications



Recyclable packaging

Banned from EU market is <70% recyclable by Jan 2030



Min recycled content in plastic packaging

Non CSP- 35% 2030; 65% 2040





Amazon to Require Key Suppliers to Provide Decarbonization Plans

Amazon announced that it has set climate-related expectations for key suppliers, including providing decarbonization plans, and that it will prioritize working with suppliers committed to reaching net zero, as par...

SUSTAINABILITY CREDENTIALS ARE HERE



"Sustainability for the sake of sustainability is not sustainable"



ALPAL OVERVIEW







WHAT SHOULD BUSINESS & SOUTH AFRICA BE AWARE OF?

No country, no business, no man is an island

Consider the trends that might impact/ benefit us

Solve for a problem and create value using reuse/circularity as an enabler

"Transforming supply chains for circular efficiencies"

Context is king



URGENT-IMPORTANT

	URGENT	NOT URGENT
IMPORTANT	Do it Things with clear deadlines and consequences for not taking immediate action.	Schedule it Activities that bring you closer to a set deadline that bring you closer to your goals. Easy to procrastinate on.
NOTIMPORTANT	Delegate it Things that need to be done but don't require your specific skills. Busy work.	Delete it Tasks that distract you from your goals.
н		







Be progressive



Avoid the "urgency trap"



Build conscious competence



SOUTH AFRICA

HAS THE OPPORTUNITY TO PRIORITISE

THE IMPORTANT
BUT NOT URGENT







www.alpalbulkpackaging.com

Plastics SA

www.plasticsinfo.co.za