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> UNLOCKING INVESTMENTS FOR CIRCULAR GROWTH: HOW ASIA CAN LEAD THE NEXT PHASE OF DEVELOPMENT

**Rob Kaplan** June 2025





### THE PROBLEM: THE GLOBAL WASTE CRISIS IS WORSENING, IMPACTING PEOPLE, CLIMATE AND NATURE

**Plastic consumption has** 

#### **INCREASED 4X**

in last 30 years, much faster than recycling capacity.
9% is recycled while 69% is incinerated or landfilled and 22% is mismanaged. Plastic waste is expected to

**GROW 3X BY 2060** 

with the fastest growth in Asia, linked to population growth, rising living standards, and slower developing waste management systems. If nothing changes, by 2040,

20%

of the global carbon budget will be attributed to GHG emissions from the plastic lifecycle.

#### 40,000,000

informal waste workers are responsible for 58% of plastics collected for recycling globally. The majority are women.

Circulate Capital I Private & Confidential | Sources: OECD (2022), Global Plastics Outlook: Economic Drivers, Environmental Impacts and Policy Options; WWF (2023), Plastics: The cost to society, the environment and the economy; UN Habitat (2022), Leaving no one behind: 2024, Ed Cook et al

### THE \$100B INVESTMENT AND IMPACT OPPORTUNITY



#### GENERATE COMPETITIVE FINANCIAL RETURNS

**\$100bn opportunity** by 2030.<sup>1</sup>

**Driven by:** policy, consumer demand, supply chains transparency.

**60+ MTPA** of new recycling capacity needed<sup>2</sup>



# FIGHT POLLUTION AND CLIMATE CHANGE

Recycling mismanaged waste in SSEA = **229M tons CO** <sub>2</sub>**e avoided** (61 coal plants).<sup>5</sup>

Asia E-waste: ~50% of world's (30B kg), yet <12% was formally recycled, losing ~US\$91 billion in critical metals annually.



#### IMPROVE LIVELIHOODS

**40M informal waste workers** globally <sup>6</sup> (majority women)

Circular economy could create **7M+ new jobs** by 2030.<sup>7</sup>

1 McKinsey (2023), Scaling plastics circularity

- 2 McKinsey (2023), <u>Addressing the</u> <u>challenges of plastic waste: Circularity and</u> leakage
- 3 EIB (2023), <u>Cutting plastics pollution:</u> Financial measures for a more circular value chain
- 4 Lebreton et al, Nature
- 5 The Circulate Initiative (2023), PLACES
- 6 2024, <u>Ed Cook et al</u>
- 7 ILO (2019), Skills for a greener future

# ASIA AT THE EPICENTER OF BOTH CHALLENGE AND OPPORTUNITY



**50%** of global plastic production



**46%** of global plastic waste

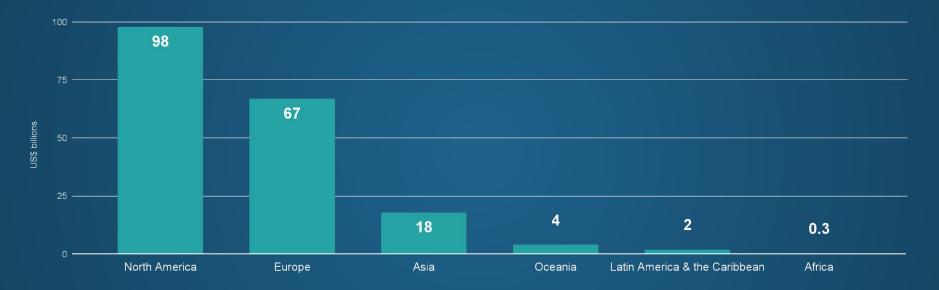


~70% of ocean plastic leakage via rivers

THE SYSTEM HASN'T KEPT PACE. BUT THE SOLUTIONS AND THE PEOPLE BUILDING THEM ARE ALREADY HERE.



## FINANCING IS INCREASING, BUT MISALIGNED



#### US\$190 BILLION IN PRIVATE INVESTMENTS IN PLASTICS CIRCULARITY GLOBALLY BETWEEN JANUARY 2018 AND JUNE 2023

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## WHAT UNLOCKS CAPITAL

# SUPPORTIVE POLICIES

Demand certainty through Extended Producer Responsibility (EPR)

Recycled content mandates

Stable regulatory frameworks



Bankable business models Scale and replication Secured offtake RISK-SHARING FINANCING STRUCTURES

Capital pooling platforms (e.g. Circulate Capital)

Guarantees

Public-private lending partnerships

**Technical assistance** 

### CIRCULATE CAPITAL'S STRATEGIC APPROACH:

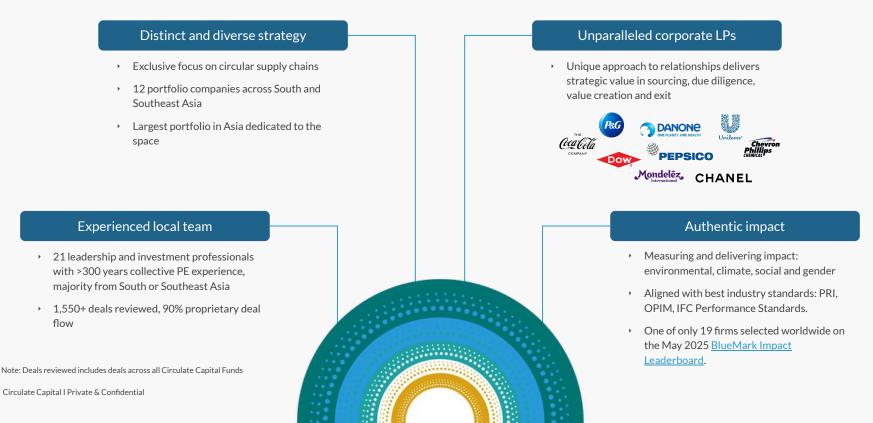
Catalyze capital by proving the returns in Asia's high-growth / high-impact markets



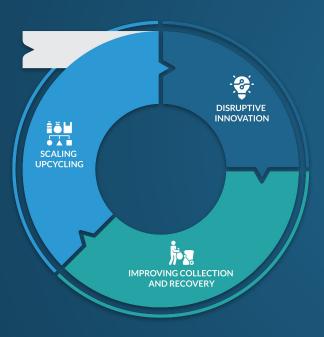
We invest in **solutions that catalyze systems change** across high growth markets. Our financing transforms circular plastic supply chains at scale, delivering **competitive financial returns** and **positive impact**.

#### CIRCULATE CAPITAL IS A LEADING GROWTH EQUITY INVESTOR IN ASIA BUILDING CIRCULAR RECYCLING SUPPLY CHAINS

#### A distinctive approach



## **HOW WE DEPLOY CAPITAL:**



#### **INVESTMENT STRATEGY FRAMEWORK**

- We invest across the system
- Investing in SMEs and growing businesses – for many, we are the first outside investment coming in
- Our capital: Growth equity or convertible debt
- Terms: Taking a minority stake
- Provide value add services such as:
  - Technical assistance
  - Off-take
  - Strategic partnerships
  - Product development
  - Leadership development

#### **RESULTS TO DATE**

#### **\$265M** AUM

#### 1,550+ deals reviewed

#### **21** portfolio companies

**US\$ 300M** co-investment or catalyzed

#### STRATEGIES AND PORTFOLIO OVERVIEW

#### Our portfolio

#### Scaling upcycling and adding value to recycled plastics



Scaling recycling of post-consumer plastics for food-contact grade applications in India INDIA



Transforming hard-to-recycle multi-layered plastics into valuable products INDIA



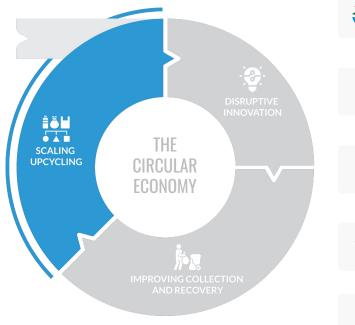
Fully integrated recycling of difficult-to-manage flexible plastic packaging INDIA



Converting low-value plastic waste to quality durable materials INDIA



Recycling PET bottles into rPET flakes in Indonesia INDONESIA | EXITED





Trailblazing bottle-to-bottle recycling in India with best-in-class technology INDIA



Consolidated platform leading bottle-to-bottle PET market BRAZIL

Polyrec

Scaling the flexible plastic LDPE, PP, and BOPP recycling with high set industry standards **COLOMBIA** 



U Upcycling rPET with a differentiated collection model COLOMBIA



Converting long-term LDPE & LLDPE waste access into high-quality PCR MEXICO

Circulate Capital: Executive Summary | circulatecapital.com









Last week, **ADB joined leading DFIs to mobilize €6B** for ocean-positive investments by 2030

We look forward to exploring collaboration across SSEA with ADB and other commitment members.





# IT DOESN'T **STOP** AT PLASTIC WASTE

**E-Waste** 

Textiles

Paper, Metal, Glass Packaging

# THE WINDOW IS NOW

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