



11th GPCA Plastics Conference

May 25-26, 2022

Leader in Recycling Technology Solutions



4 Global Locations



Oregon
US



Zurich
Switzerland



Boston
US



Oslo
Norway

Number of Employees



100+

Key Partners

- Toyo
- Exxon
- Braskem
- CP Chem
- Kumho
- Virgin
- AmSty
- Mitsubishi Chemical
- NextChem
- Technip
- Aeon

7 Generations Technology Development

- 17 Patents for Technology
- Leader in Advanced Recycling
- First commercial closed loop plastic to plastic facility

CORPORATE STRUCTURE



The plastic recycling problem



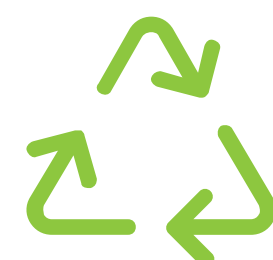
50%

of plastics are designed for single use



1M

plastic bottles purchased every minute globally



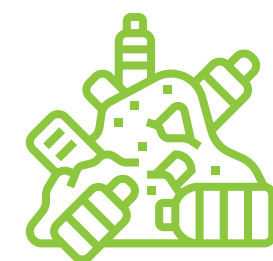
~10%

of the 7B tonnes of plastic waste has been recycled



5T

plastic bags used every year globally



400M

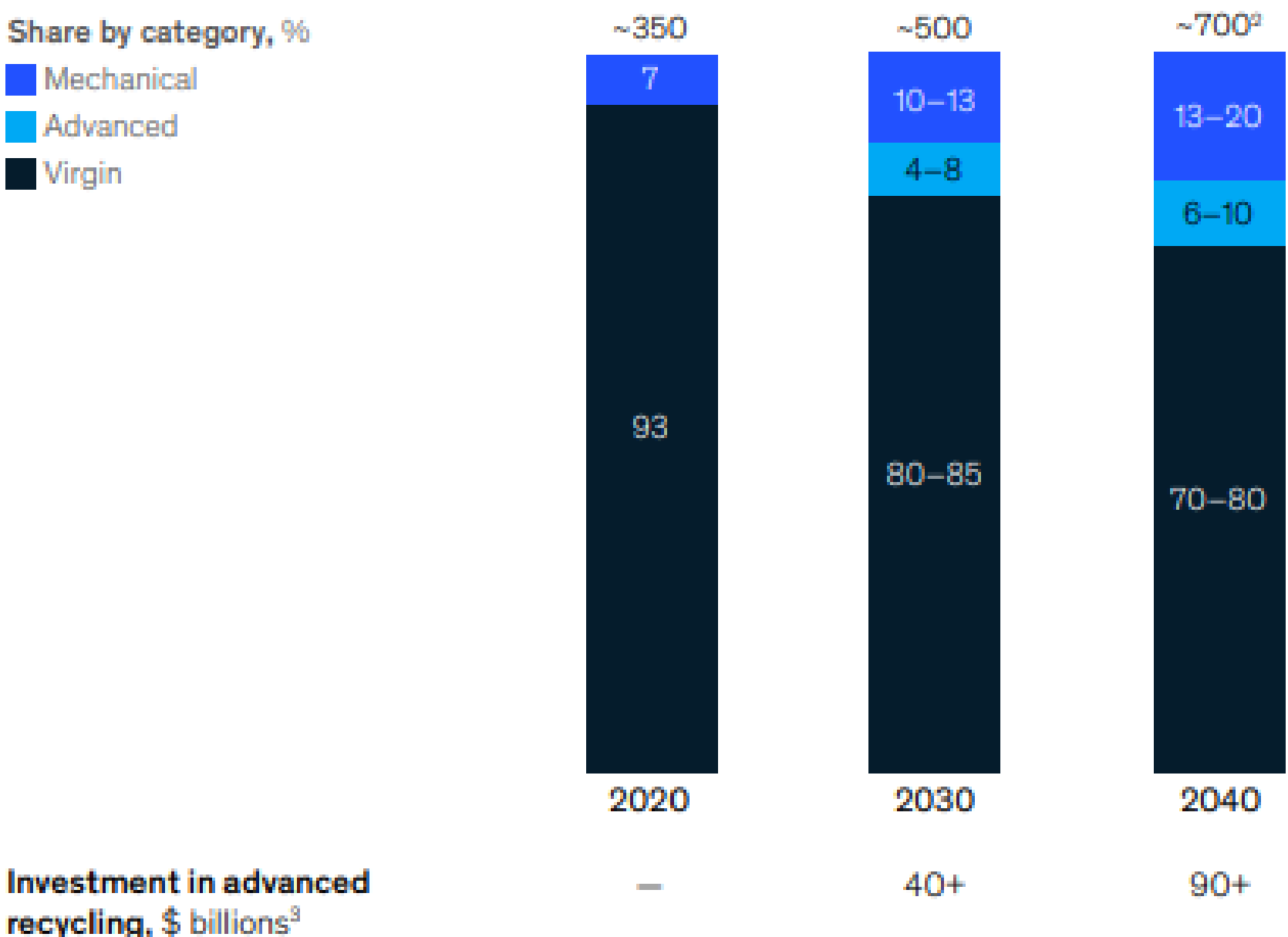
tonnes of plastic waste produced annually

Advanced recycling could grow to 20 to 40 million metric tons, or 4 to 8 percent of the total plastics supply by 2030, requiring more than \$40 billion of total investment.

Global polymer demand 2020–2040,¹ million metric tons per year

Share by category, %

■ Mechanical
■ Advanced
■ Virgin



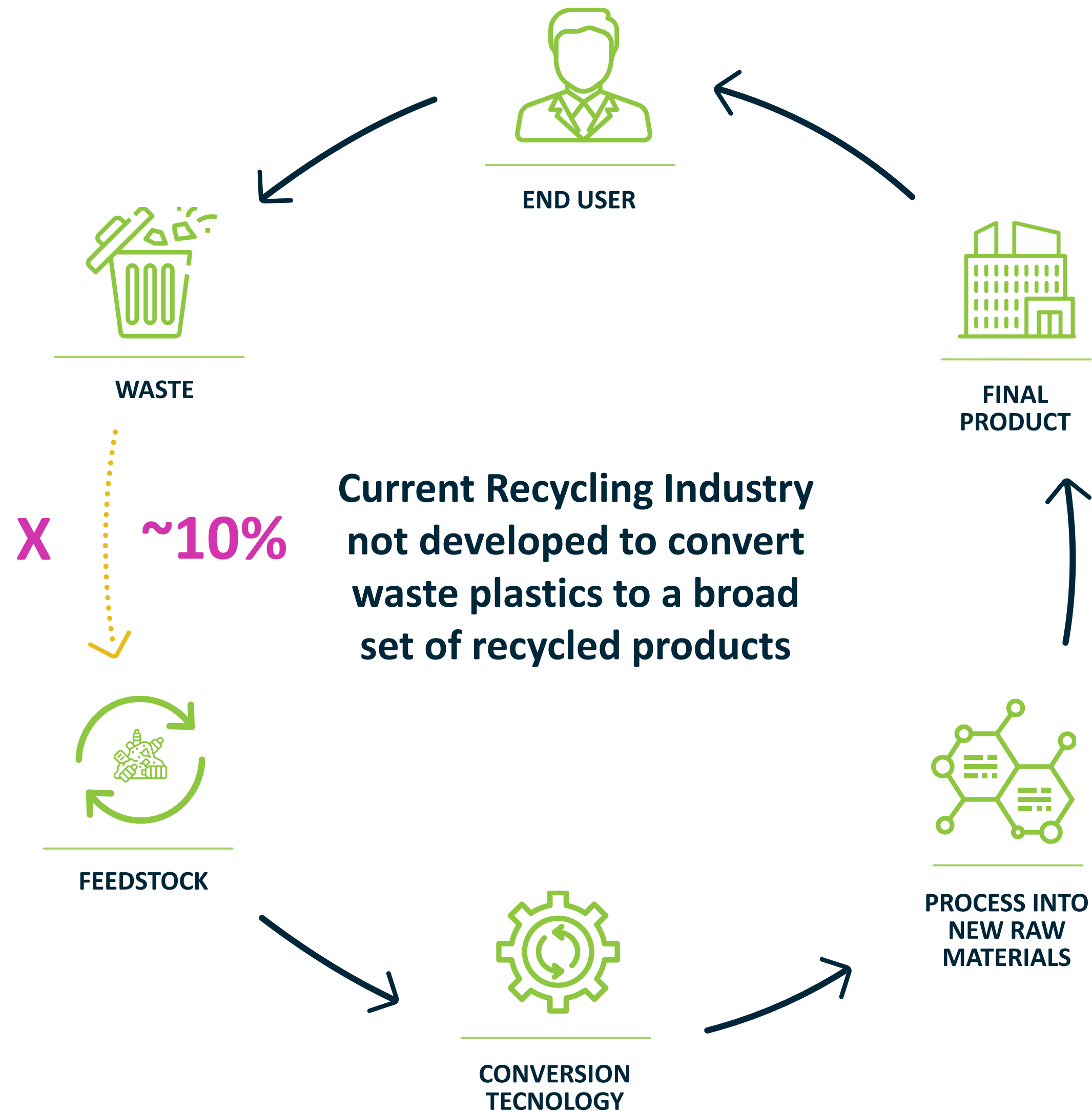
¹ Polymer demand includes fibers (polyesters and polyamide), excludes rubbers and intermediates.

² Figures may not sum to 100%, because of rounding.

³ Assumes capital intensity range of \$1,500 to \$3,000 per ton.
Source: CI Circular; McKinsey analysis

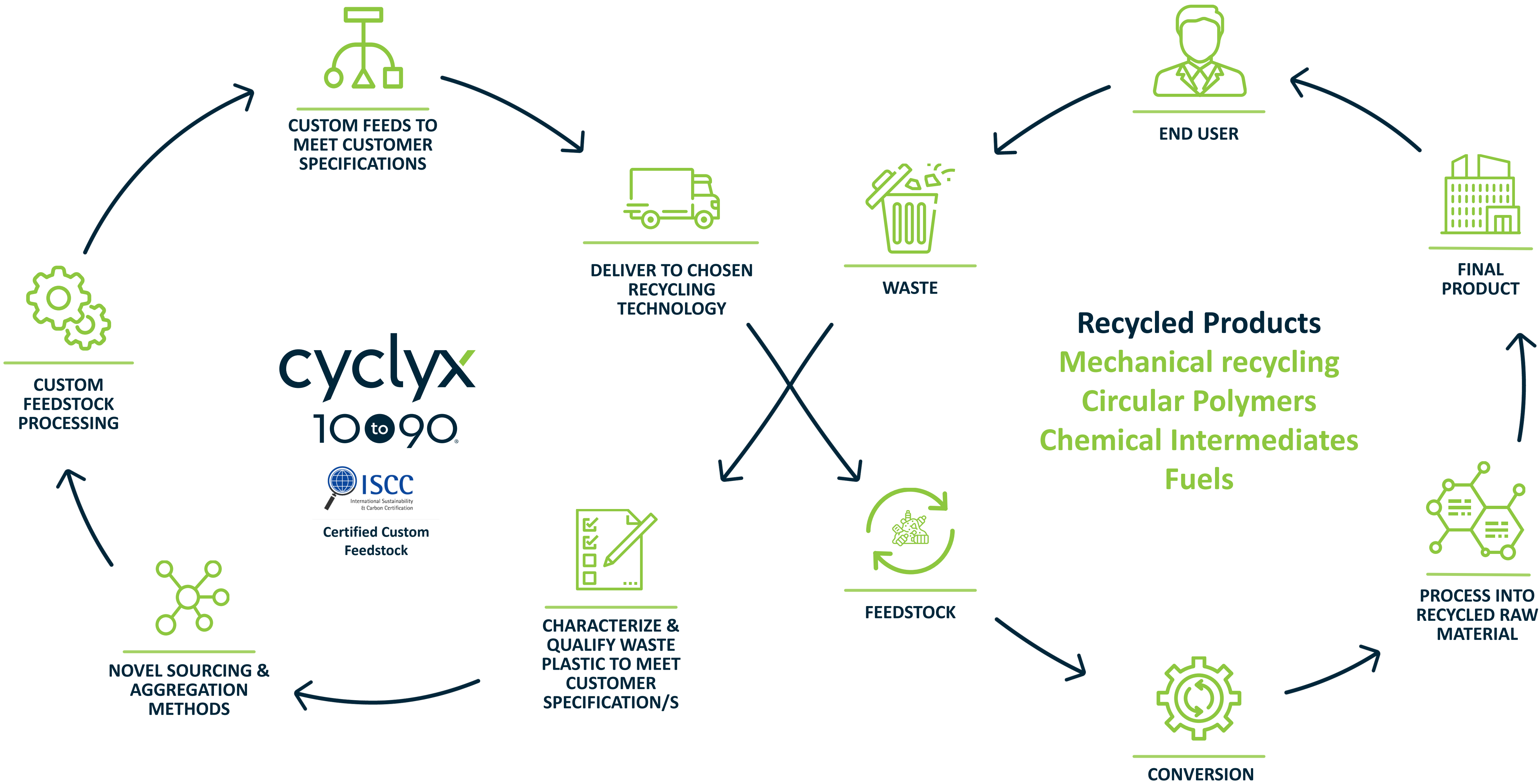
Source: [United Nations Environment Program](#)

Current Challenges with Plastic Recycling at Larger Scales

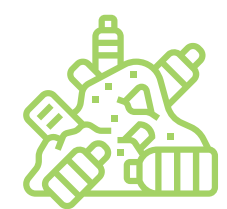
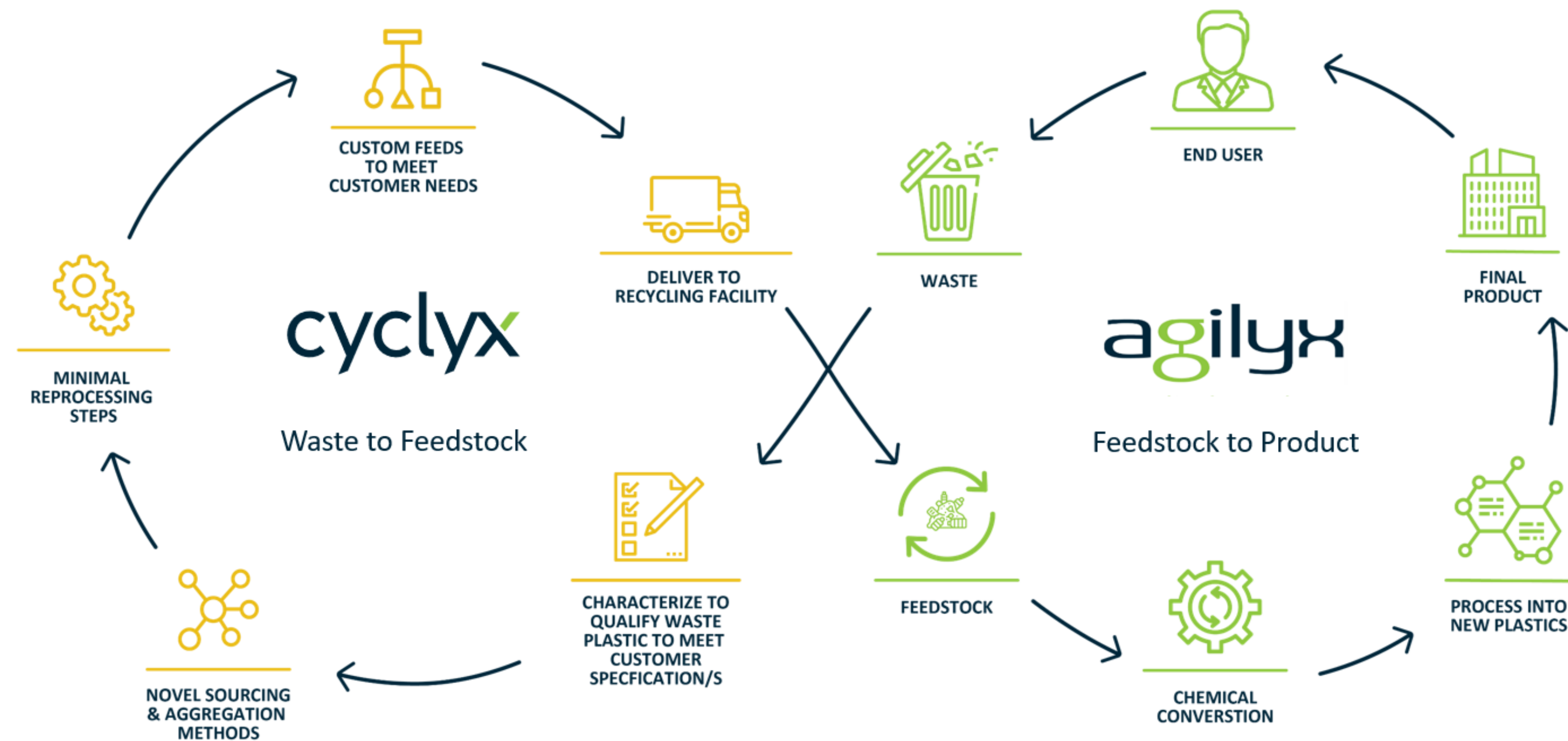


- Chemical complexity of plastic
- Diversity and variability of waste plastics
- Contamination
- Lack of established Supply chains
- Existing infrastructure constraining change
- New demands of advanced recycling

Maximizing Recovery to the highest possible value



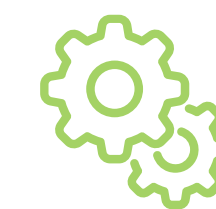
The Integrated Solution



**Only chemical recycler
offering integrated feedstock
technology solution**



**1st commercial-scale plastic-to-
plastic recycling**



**Proven for both Mixed Waste
Plastic and Polystyrene**

Integrated Recycling Solution

cyclyx

WASTE TO FEEDSTOCK



New waste plastic
supply chains



Consortium approach



Custom feedstock
supply for all
conversion



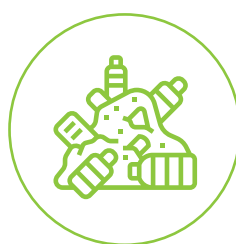
Cyclyx offers an **ISCC+** chain
of custody certification

agilyx

FEEDSTOCK TO PRODUCT



Technology licensing vs.
build, own, operate



**Robust feedstock
capability:** MWP,
PS, PMMA, etc.



Flexible process:
depolymerization &
pyrolysis



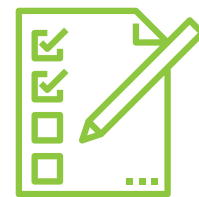
Electrified reactor:
reduced carbon
impact, renewable
energy source



10 to 90[®]



COMMUNITY
ENGAGEMENT



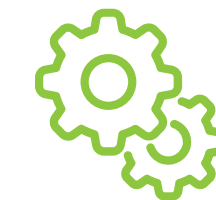
CONSUMER
EDUCATION



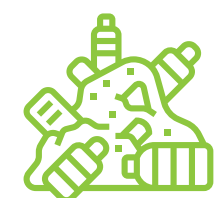
APP-BASED
INCENTIVES



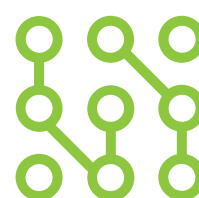
EDUCATION
CENTERS



MUNICIPAL AND
CORPORATE
COOPERATION



ALL PLASTICS
AGGREGATED



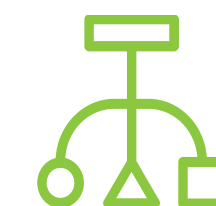
MULTIPLE OPTIONS
FOR RECOVERY



LOCAL, REGIONAL,
NATIONAL



INTERACTIVE
CONSUMER APP



INCENTIVE
PROGRAMS

Providing Solutions for real world issues

