

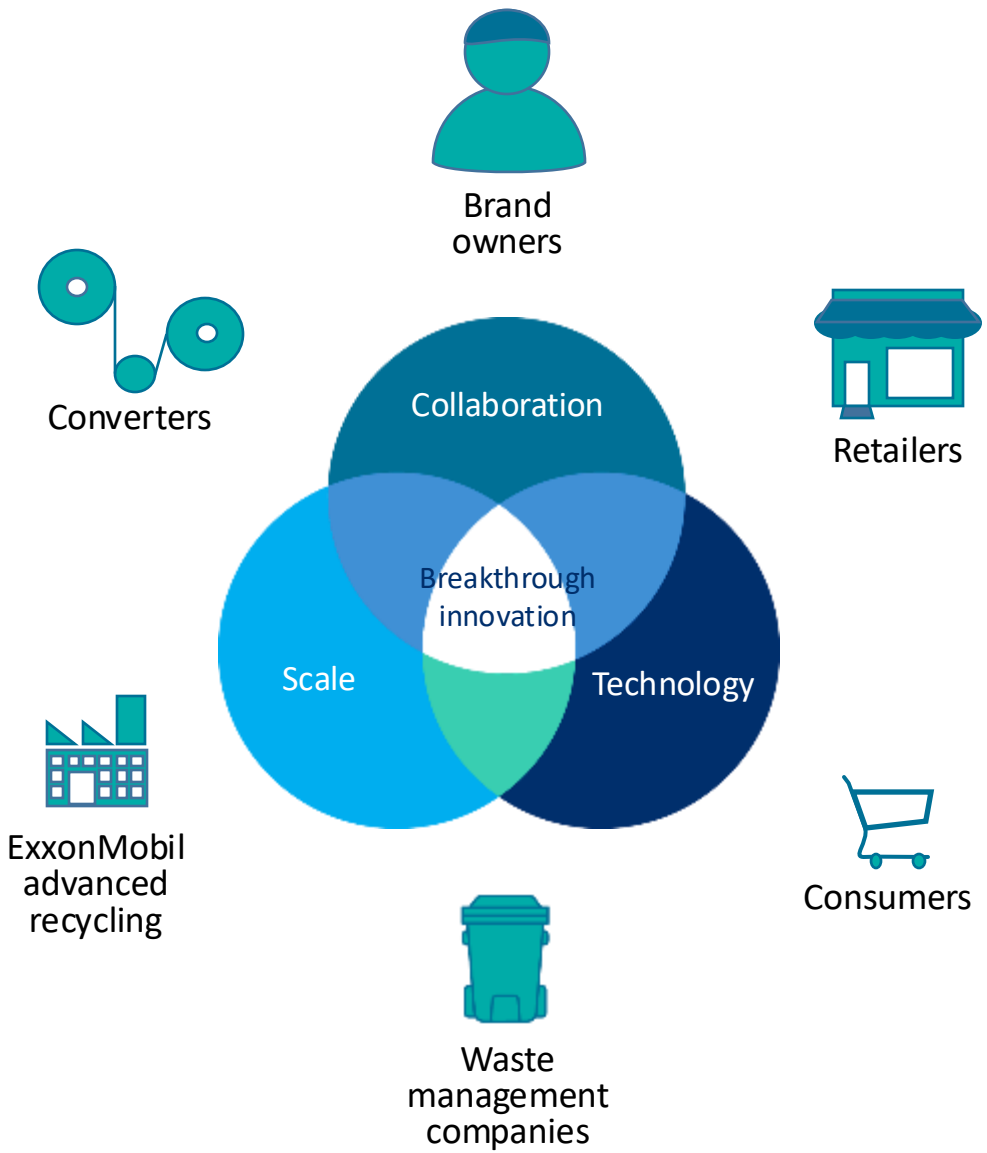
A close-up photograph of a person's hand holding a large, colorful pile of shredded plastic waste. The waste consists of many small, irregular pieces in various colors including blue, red, orange, yellow, and grey. The background is a blurred industrial setting with metal structures and a green light source.

ExxonMobil

Exxtend™ technology for advanced recycling

Recreated to create

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Supporting a circular economy for plastics. Together.

Plastics can play a key role, making modern life possible

Even under the IEA Net Zero Emissions by 2050 scenario, global demand for primary chemicals is projected to be 20% higher than 2022.¹

Plastics help to enable performance and reduce potential environmental impacts across industries, from reducing vehicle weight and medical applications to food packaging (e.g. helping to extend shelf life) and films used to construct greenhouses

**Better fuel economy²
enables lower GHG per mile**



7%

fuel economy improvement possible with a 10% reduction in vehicle weight²

Lower lifecycle GHG^{3,4} than the alternatives / Less solid waste^{5,6}



1/3

of all food produced in the world is being wasted and not eaten by end consumers⁶

Less water use⁵



8-10%

of global greenhouse gas emissions are associated with food that is not consumed⁶

¹ 2023 IEA report "Net Zero Roadmap: A global pathway to keep the 1.5°C Goal in Reach."

² According to the Department of Energy's Office of Energy Efficiency & Renewable Energy.

³ Per April 2018 report of Franklin Associates; U.S. packaging market; Max Decomp.; Figure 4-1; Impacts as defined in Chapter 4.7: Global Warming Potential (GWP) results, and indexed to the alternatives as a group (including steel; aluminum; glass; paper-based packaging; fiber-based textiles; and wood).

⁴ McKinsey & Co, Climate Impact of plastics, 13 of 14 applications analyzed has lower GHG impact than the next best non-plastic alternative, US based in 2020

⁵ Per April 2018 report of Franklin Associates as in reference 3

⁶ According to the United Nations Environment Programme (UNEP) Food Waste Index Report, released in March 2021.

The global waste management challenge

- ~3 billion people worldwide are estimated to lack access to controlled waste disposal facilities¹
- ~12% of the global municipal solid waste stream is plastic²
- Right now, less than 10% of plastic waste is recycled³
- Solutions will require innovation and global collaboration among the plastics value chain, governments, NGOs, and consumers

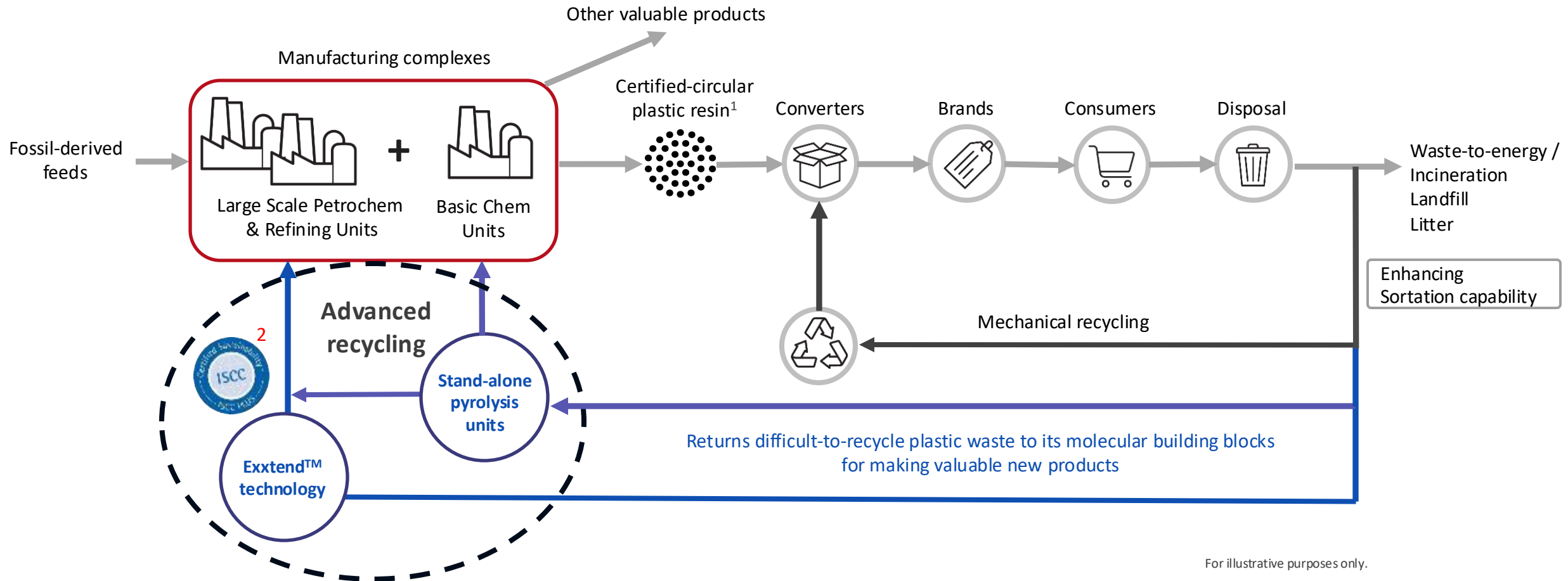
¹ United Nations - <https://unhabitat.org/news/10-feb-2020/un-habitat-partners-with-wwf-to-tackle-global-challenge-of-waste-management-in>

² World Bank. *What a waste 2.0*

³ Source: (National Overview: Facts & Figures on Materials, Wastes and Recycling) [EPA.gov](https://www.epa.gov/materials)



Exxtend™ technology aims to accelerate progress towards a more circular economy

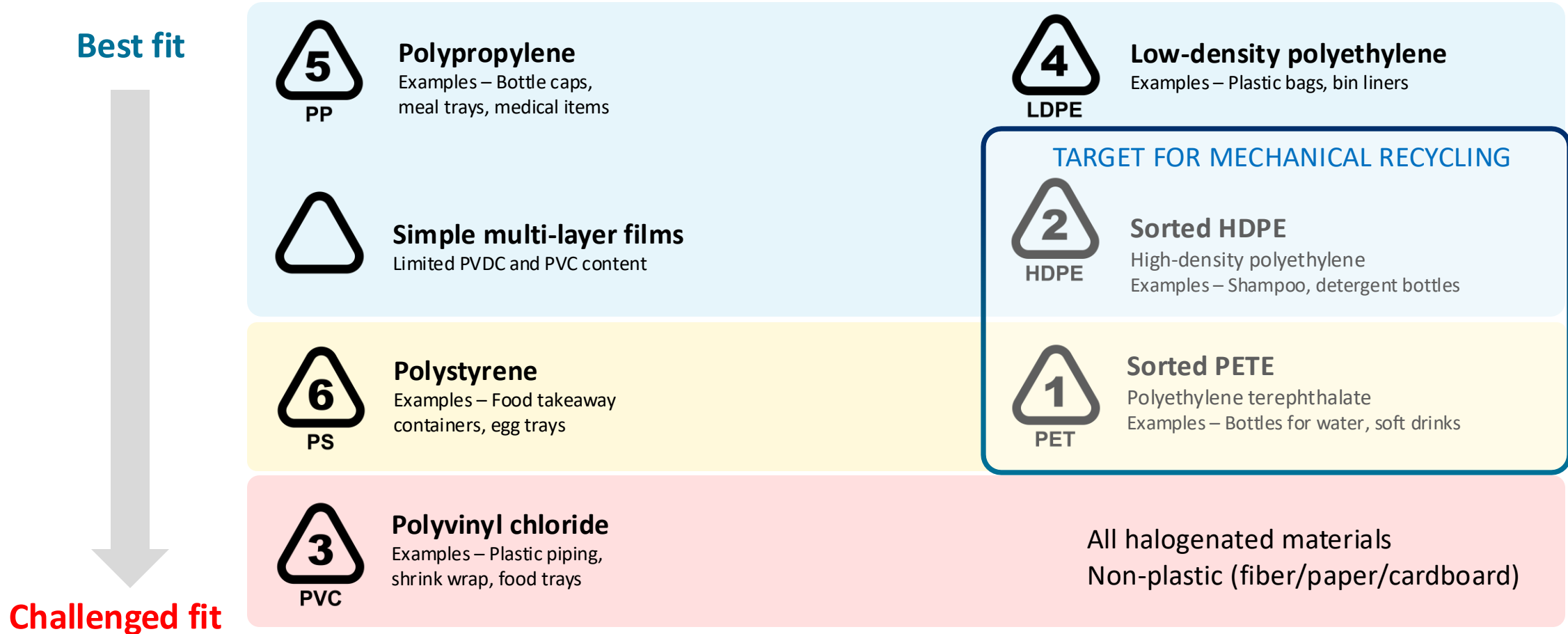


For illustrative purposes only.

1 Certified-circular plastics are virgin quality plastics that are accompanied by an ISCC PLUS "Sustainability Declaration" that matches the mass of virgin quality plastics that we sell to a corresponding amount of plastic waste that we transformed back into usable raw materials through advanced recycling.

2 ISCC PLUS mass balance approach using the "determined by mass" option with "certified free attribution" applied. Does not represent GHG emissions or recycled content.

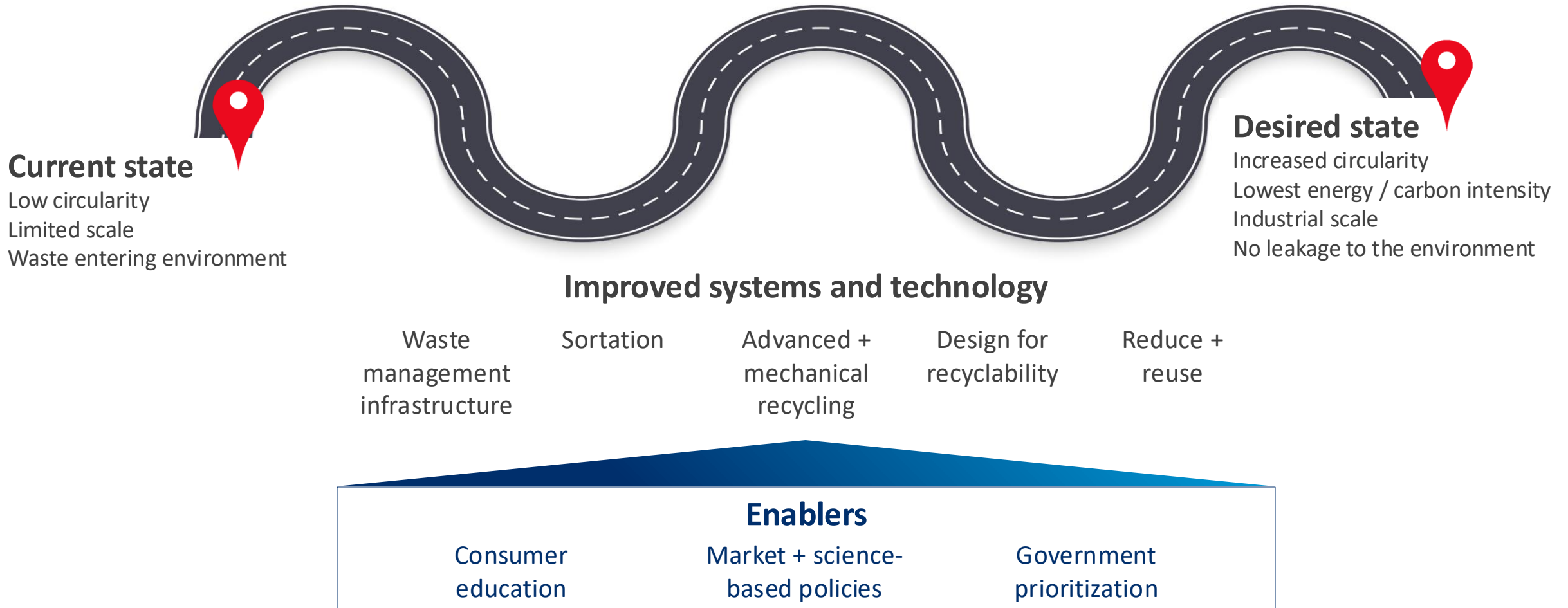
What is desirable feedstock for Exxtend™ technology?



Source: ExxonMobil Data

Many solutions needed to address plastic waste at scale

Advanced recycling is one of them



Overcoming feedstock challenges together

Challenges

- Limited access to recycling programs
- Lack of recycling standards and fragmentation across current programs
- Confusing consumer education
- Films, flexibles, and other mixed-polymer feedstock too often not accepted
- Lack of sorting capacity

Actions needed

- Expand collaborations with cities and value chain
- Support efficient policy
- Harmonize standards for recycling programs
- Educate consumers
- Build new sorting infrastructure



Founding Member



ExxonMobil



Sealed Air, ExxonMobil, and Ahold Delhaize USA Collaborate on Groundbreaking Circularity Initiative

Sealed Air



ExxonMobil approach to scale: collaboration and technology



TENCATE GRASS

Collaborating on collection

ALLIANCE TO END PLASTIC WASTE

cyclyx

HOUSTON RECYCLING COLLABORATION
ExxonMobil lyondellbasell
 cyclyx fcc



Scaling recycling technology

ISCC
 International Sustainability & Carbon Certification



Helping meet demand for circularity

Berry

amcor



ExxonMobil



Sealed Air, ExxonMobil, and Ahold Delhaize USA Collaborate on Groundbreaking Circularity Initiative

Sealed Air



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