



# Regulatory pressure

- EU setting up product level sustainability requirements
- European Green Deal roadmap for becoming climate-neutral by 2050



# Brand owners' commitments

 Continues to build up through sustainability pledges of industry players such as Ikea, Henkel and Cofresco

#### Ikea

"People and Planet Positive to end our dependence on virgin fossil materials and fuels"

### Henkel

"100% recyclable, reusable or compostable packaging by 2035"

### **Cofresco**

**"100% renewable**, or recycled plastics in the long-term"



# Public/consumer awareness

 Increases with high media attention and campaigns





# Turning plastic waste into a valuable resource

Waste plastics sourcing and sorting

Liquefaction

Pretreatment, upgrading and refining

Cracking and polymerization

Brand owners

ABILITY TO UPGRADE LOW-QUALITY WASTE



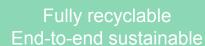
EFFICIENT LOGISTICS OF SMALL MATERIAL STREAMS



DROP-IN OFFERING OF RECYCLED FEEDSTOCKS



SUSTAINABILITY AND TRANSPARENCY IN VALUE CHAIN





## **Neste's Development Journey**

Landscape **Evaluation Proof of concept** work 2020-21

**Detailed Development Engineering studies** 

2021-2022

LCA results Investment decision 2022-2023

> **GHG** savings communicated

Upgrading asset, design capacity 150ktpa

Neste's concept confirmed

Pre-treatment and upgrading research

Carbon neutrality enabled by handprint: Circular economy sustainability

PlastPyro: \_iquefaction

> Circular plastic pipe systems: Construction waste feedstock

MASCOT: Materials

**Liquefaction Licensing** First asset start-up 2024-2025

> **UrbanFactory**: Liquefaction & purification





#### **Feedstock**

- Broad waste plastic feedstock pool studied
- Substantial, complementary to Mechanical Recycling, volume available for Chemical Recycling

### Technology

- Own upgrading and pre-treatment technologies developed
- Actively licensing liquefaction technology in Europe

### **Investment Project**

 Pioneering the future of sustainable materials, H2/2025 marks the start up of the world's most significant upgrading facility with Neste's proprietary technology

#### **Markets**

- Growing voluntary market for chemically recycled plastics
- Mandated EU market for packaging created from 2030.
  Mandates for other application areas emerging



