

SPIRIT

Sustainable Plastics Industry Transformation

Solutions for carbon circularity

Borealis strategy implementation by SPIRIT

Keep plastics, change the way of producing

- Plastics are irreplaceable materials of modern society which enable growth and help us save resources



- To create a more sustainable future, we have to solve the current three key challenges of plastics industry



It starts with A / B / C ...

Carbon circularity
will end reliance on
fossil-based
carbon.



Atmosphere
...direct carbon
capture

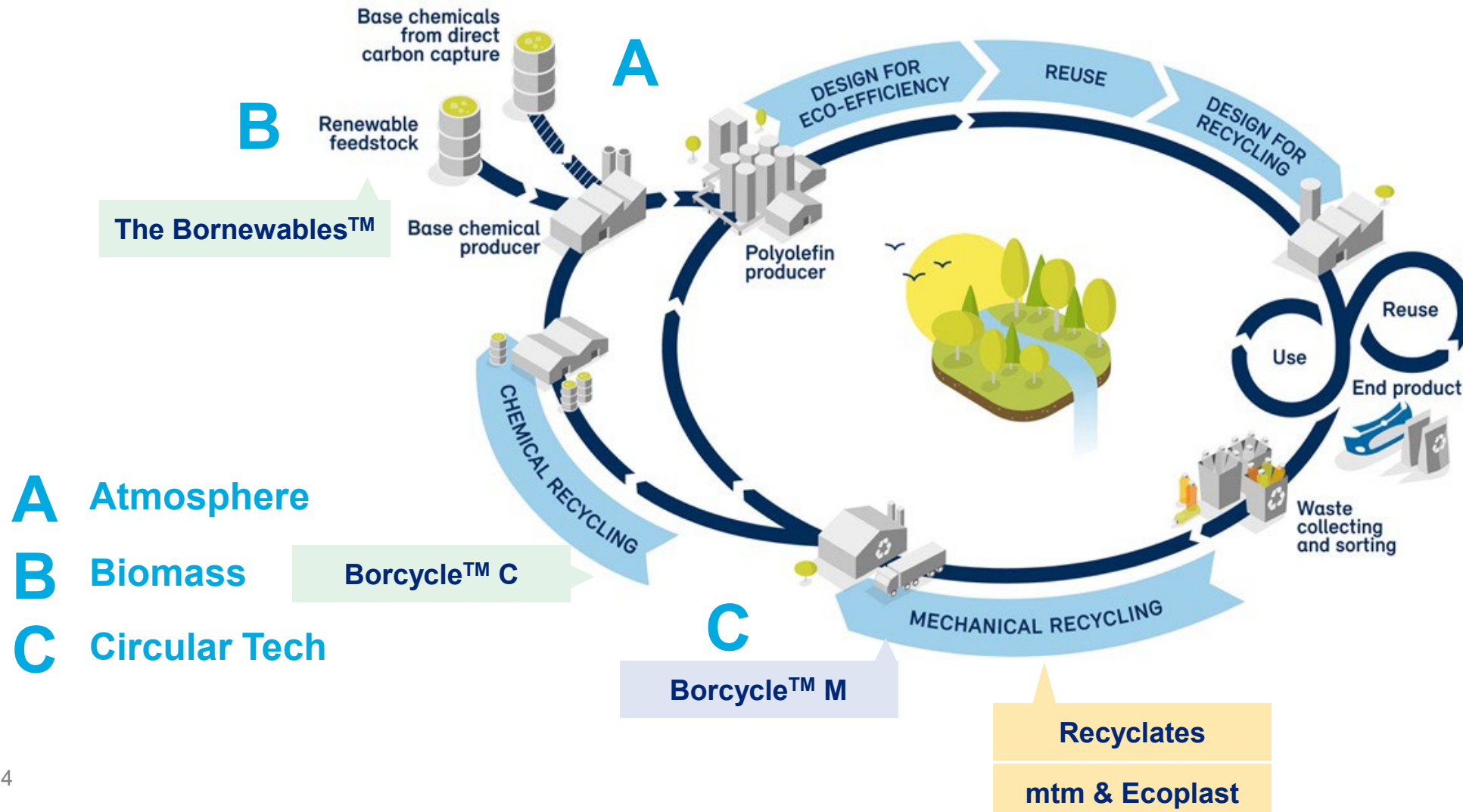


Biomass
...using carbon
from plant-based
feedstocks



Circular Tech
...recycling fossil-
based carbon in
mixed waste streams

Polyolefin production can bind carbon for a long time



Borealis has the assets to produce „ABC“ polyolefins in Porvoo

A



Media Release

Corporate Circular Economy

Borealis and E-Fuels Leader
Infinium to Turn Carbon Emissions
into Plastics

B



Media Release

Product Consumer Products Circular Economy
Sustainability

Borealis Bornewables™, now used
in highly sensitive frozen food
packaging market

C



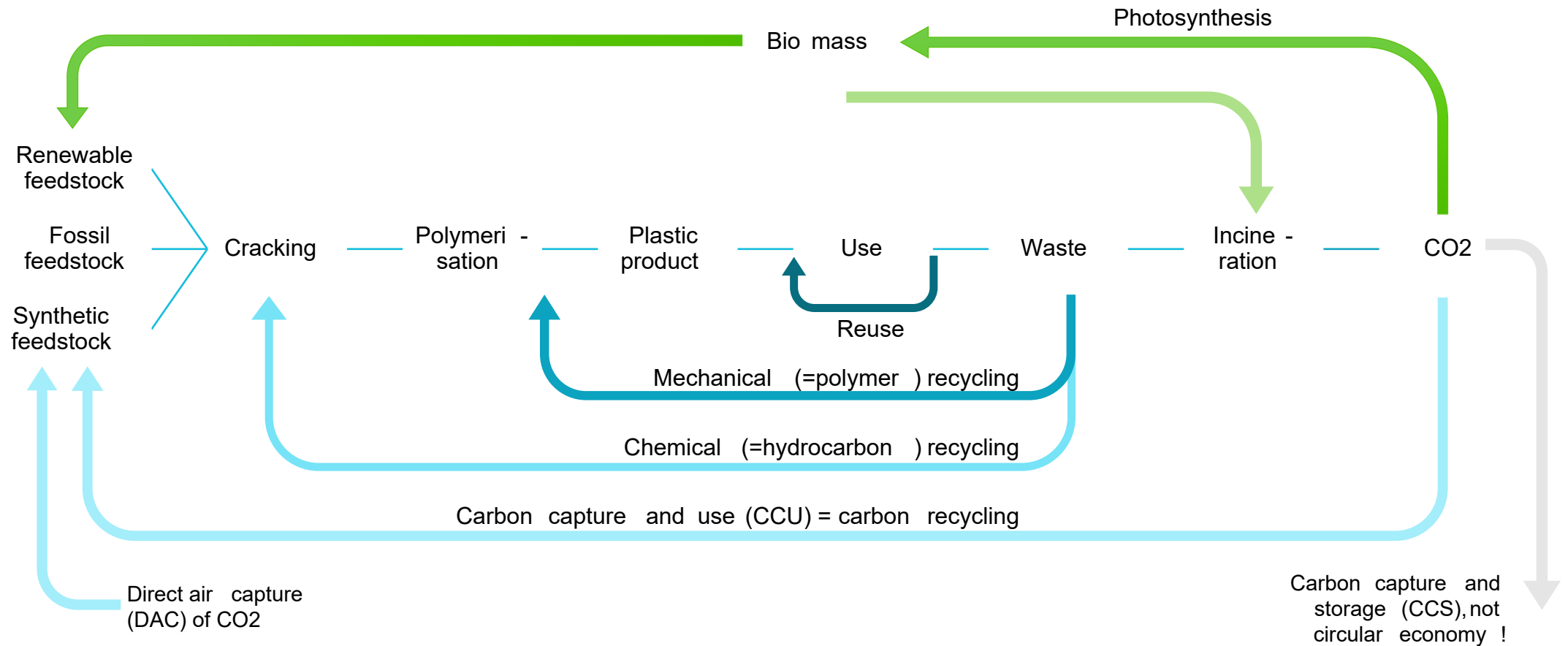
Valio's yogurt cup contains 30% Borcycle™ C HC205TF - a chemically recycled polypropylene grade that reduces reliance on fossil resources without compromising quality.

We are interested in synthetic, biobased and circular hydrocarbons as feedstock:
e-/bio-naphtha, e-/bio-LPG, SAF byproducts, or pyrolysis oil.

Hydrogen in the future feedstock:

- A. CO₂+H₂
- B. H₂ to remove oxygen
- C. H₂ to purify pyrolysis oil

Recycling plastics = keeping carbon in the (shortest possible) closed loop





Thank you!

www.spiritprogramme.com