



IMAGINE PLASTIC FROM THE FOREST

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UPM Raflatac

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UPM BIOFORE-BEYOND FOSSILS

UPM RAFLATAC

Two problems



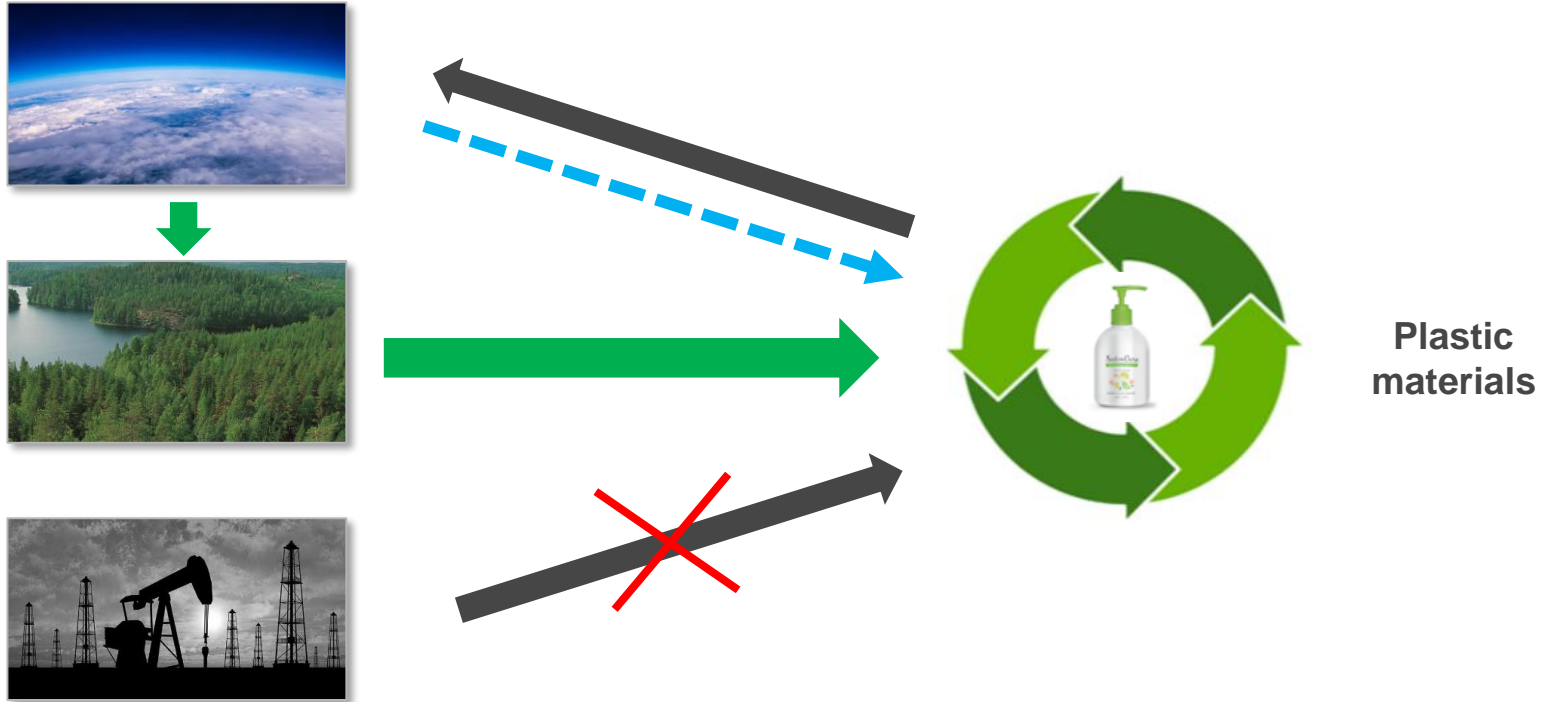
Root cause



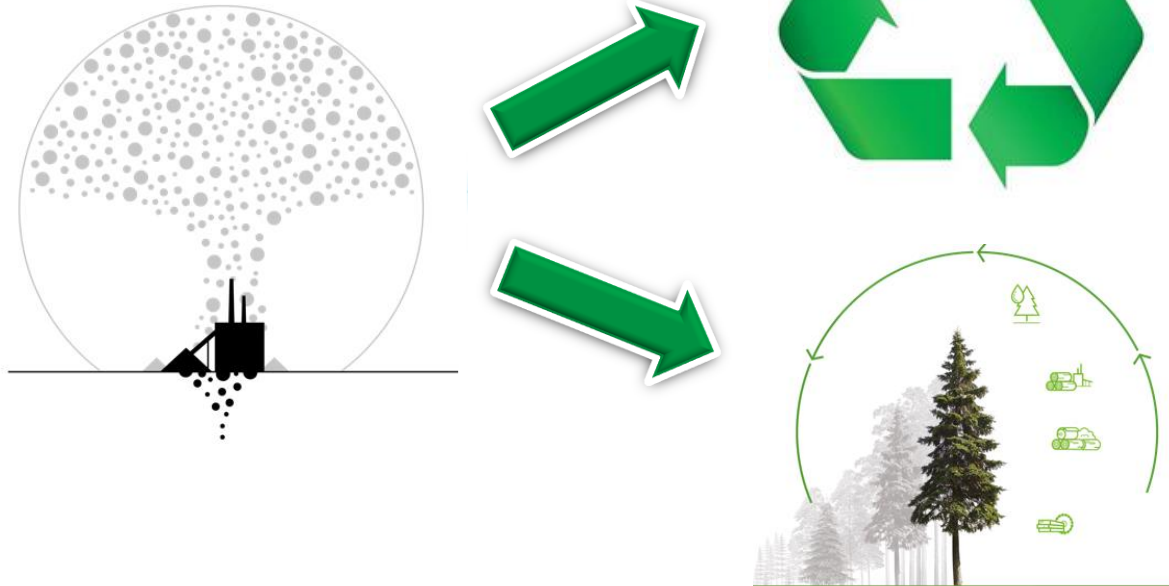
Ecodesign



Plastics in the carbon cycle



From fossil to recycled and renewable





UPM Raflatac Films

- Gradually away from fossils in the 20's



Renewable

- Forest Film PP in 2019 – available
- Forest Film PE in 2020

Recycled

- PP PCR in 2020
- PE PCR in 2020 - available

UPM RAFLATAC Forest Film™



Film based on non-fossil, bio-based wood biomass origin

New Horizons in Bioeconomy

EVOLUTION OF WOOD USAGE



Biofuels



Biochemicals



Pulp, Tissue, Paper
and Packaging



Labels



Novel Fibre
Products



Sawn goods



Plywood



Energy

UPM Raflatac Forest Film™

A renewable innovation to go beyond fossils



The first wood-based PP film label material



Based on UPM BioVerno™ naphtha, a 100% wood-based solution from pulp process residue



Does not compete with raw materials or land use for food production

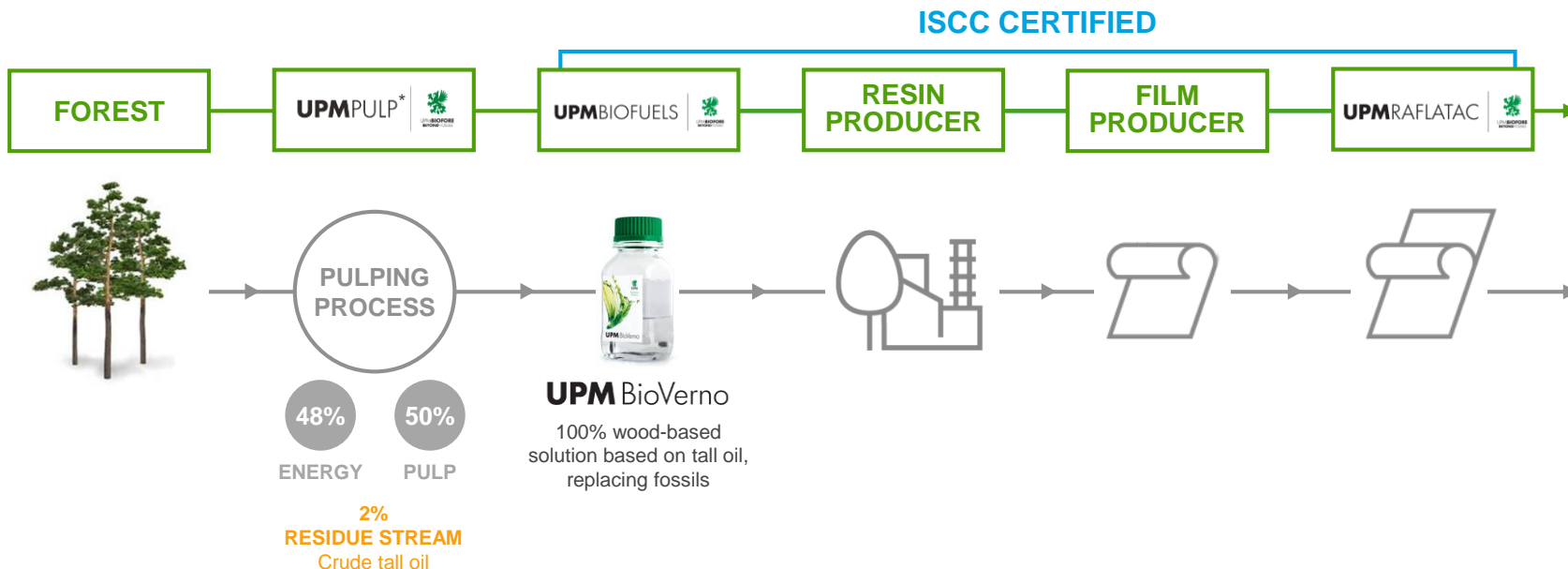


ISCC (International Sustainability & Carbon Certification) certified

UPM **BIOFORE-BEYOND** FOSSILS



Sustainable impact from plant to product label



**may include other suppliers*

Feel the difference, but don't expect to see it.
The performance of Forest Film™ and traditional plastic films are identical.

Labels matter.

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