

Are Circular Economy Hydal PHA technology and products a good business?

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#### Key idea of Hydal

Material recovery of WASTE-WCO

Protection of waste watter plant – collection of WCO in household

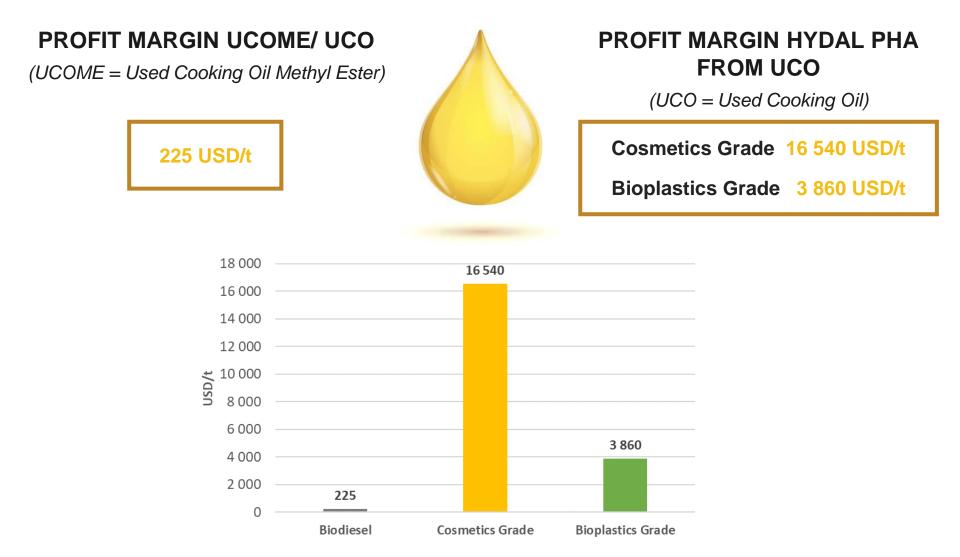
**BIOPOLYMER PHA** BIOPLASTICS CHEMICAL **SPECIALITIES** Zero Waste manufacturing **"NATURE WORKS" Biotechnological process** Hydal is NAT



Consultation, integration to value chain and sharing the best practices

#### WHAT ABOUT BUSINESS?

### **Biodiesel or biopolymer from UCO?**



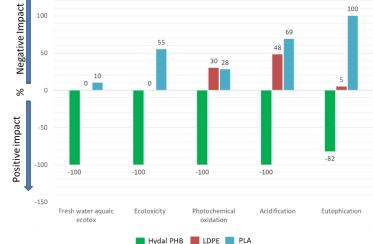
Note: UCOME minus UCO according to RED schemes Source: https://www.greenea.com/en/market-analysis/ *Note: Selling price of Hydal PHA Grades - UCO price/t Source: NAFIGATE data* 

#### AND WHAT ABOUT NATURE?

# Hydal is NAT SRE

- The LCA method has shown a significant contribution of the production of PHB (poly-3-R-hydroxybutyrate) polymers from used cooking oil using biotechnology Hydal to environment.
  - Compared to polymers produced from primary raw materials, biotechnology Hvdal material saves raw sources. including oil, reduces CO<sub>2</sub> emissions (so it reduces contribution to global warming), reduces ecotoxicity, freshwater toxicity, acidification, eutrophication (the process of nutrient enrichment, especially by nitrogen and phosphorus, which harm natural environment) and reduces also effects other negative on the environment.





## Thank You