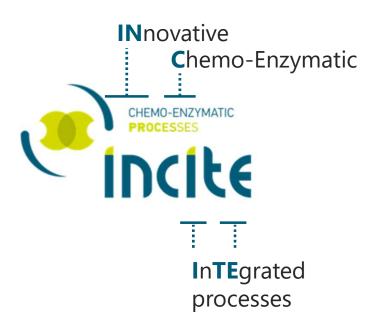


Develop more sustainable industrial processes



The goal

- ✓ Accelerate transition to a more sustainable chemistry
- ✓ Scale-up from lab to pilot (*cf.* LIPAMETICS project)

Enzymatic esterification

- ✓ Solvent-free synthesis
- ✓ Higher efficiency & product quality
- ✓ Smaller environmental footprint
- ✓ Increase in process safety



Introducing INCITE





















- ✓ INCITE targets the successful introduction of **continuous enzymatic process technologies** in the European commodity and specialty chemical industry
- ✓ A multi stakeholder project running over 52 months with a total investment of 17.7M€, including 13.3M€ funding from EU
- ✓ Developed as part of the *EU Horizon 2020***Research and Innovation Payment Program**





INCITE - Oleon's industrial demonstration case

- Oleochemical track
- Solvent-free synthesis of natural oleochemical esters using biocatalyst (lipases)
- Inauguration of the industrial unit on our site of Oelegem (Belgium) in June 2023
- End product for cosmetic application

Reactor volume 20 m³

Products targeted

- Mono-esters
- Alcohols with low boiling point











Reduces waste

By improved valorization in downstream processes







40-60%

energy savings by overall changings to a less energy intensive process





Increased process safety

by switching to solvent-free process, drastically reducing working temperature & pressure, using non-hazardous biocatalyst



25% reduction

in Green-House Gas emissions by lowering operating temperatures



Climate change is happening, and it's time to ACT now

Any questions?

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For more information, please visit https://www.project-incite.eu/



