€13.3M

EUROPEAN UNION'S HORIZON 2020
RESEARCH AND INNOVATION PROGRAMME CONTRIBUTION

PROJECT DURATION

52 MONTHS

SEPTEMBER 2019
↓
DECEMBER 2023

8
EU PARTNERS

2 LARGE/MEDIUM INDUSTRIES

2 RESEARCH AND TECHNOLOGY ORGANISATIONS

1 SME

1 START-UP

1 ACADEMIC INSTITUTION

1 INNOVATION CLUSTER

TOTAL COST
€17.4M

CHEMO-ENZYMATIC **PROCESSES**
incite

www.project-incite.eu
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INCITE Project

#INCITE_EU
#ChemoEnzymatic
#IndustrialBiotechnology
#ResourceEfficiency
#IndustrialProcesses
#FlowChemistry

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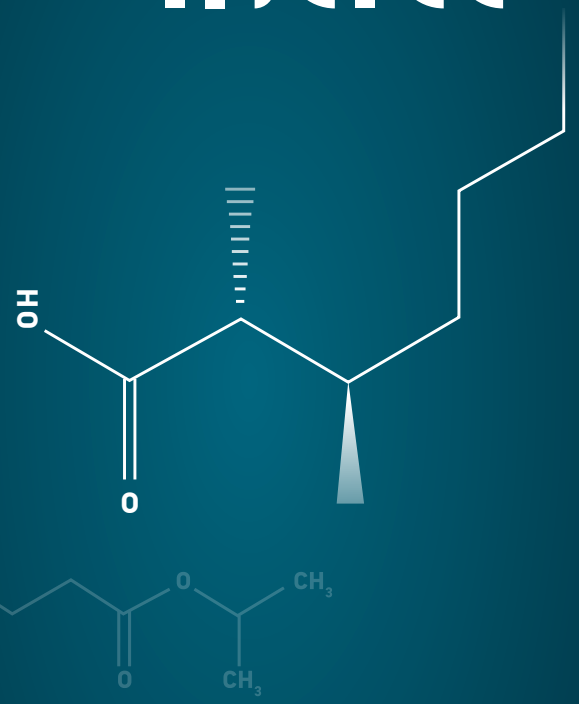
INCITE has received € 13.3 M funding from the European Union's Horizon 2020 Research and Innovation Programme on the Topic CE-SPIRE-04-2019 - Efficient integrated downstream processes (Grant Agreement number 870023). SPIRE is a Public-Private Partnership initiative aiming at developing Sustainable Process Industry through Resource and Energy Efficiency.

CHEMO-ENZYMATIC **PROCESSES**
incite



INnovative
Chemoenzymatic
InTEgrated
processes

FOSTERS COMPETITIVENESS
OF THE **EUROPEAN GREEN CHEMISTRY INDUSTRY**

CONTEXT AND PERSPECTIVES

INNOVATION FOR SUSTAINABLE DEVELOPMENT

Nowadays, a broad part of society is getting more and more concerned about climate change and environmental issues. Therefore, manufacturing industries are gradually shifting to cleaner, safer and more sustainable processes. In that context, continuous chemo-enzymatic conversion coupled with flow chemistry and membrane separation present immense opportunities for developing sustainable industrial processes.

INCITE aims to demonstrate novel integrated upstream and downstream processing for a sustainable, safe and energy efficient production of commodity and fine chiral chemicals.

OBJECTIVES AND EXPECTED IMPACTS

CHEMO-ENZYMATIC PROCESSES AT AN INDUSTRIAL SCALE

INCITE will demonstrate two chemo-enzymatic processes:

- Esterase-catalyzed production of agrochemical precursor
- Lipase-based solvent-free synthesis of oleochemical esters

A SUSTAINABLE AND COMPETITIVE EUROPEAN CHEMICAL INDUSTRY

In line with the **SPIRE2030 program,** the project aims to:

- Increase process versatility & efficiency
- Decrease in CAPEX and OPEX
- Save resource & energy
- Increase process safety
- Train current and future employees

A MULTI-STAKEHOLDERS PROJECT

INCITE BRINGS TOGETHER 8 EUROPEAN PARTNERS

coordinator: **OLEON NV** (Belgium)
VITO (Belgium)
ENDURA S.p.A (Italy)
BiCT (Italy)
Fraunhofer IMM (Germany)
Ghent University (Belgium)
Bioeconomy For Change (France)
NextChem (Italy)

APPLICATION FIELDS

- CROP PROTECTION
- FOOD
- FEED
- PERSONAL CARE