

€13.3M

EUROPEAN UNION'S  
HORIZON 2020  
RESEARCH AND INNOVATION  
PROGRAMME CONTRIBUTION

PROJECT  
DURATION

48  
MONTHS

SEPTEMBER 2019

AUGUST 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



[www.project-incite.eu](http://www.project-incite.eu)

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INCITE Project

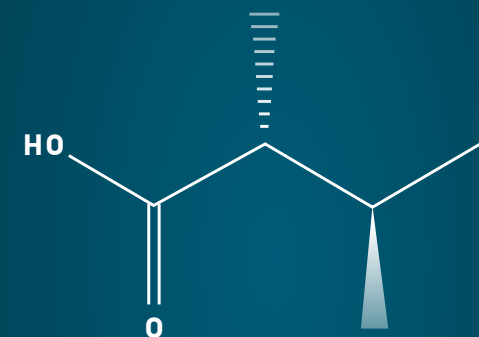
#INCITE\_EU  
#ChemoEnzymatic  
#IndustrialBiotechnology  
#ResourceEfficiency  
#IndustrialProcesses  
#FlowChemistry



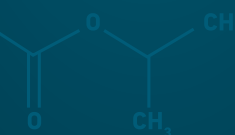
H<sub>3</sub>C

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 a Sustainable Process Industry through Resource and Energy Efficiency.

This INCITE communication activity reflects only the author's or the project views. The Commission is not responsible for any use that may be made of the information it contains.



Fosters **IN**novative  
competitiveness  
for a sustainable **C**hemoenzymatic  
European **IN**TEgrated  
chemical **processes**  
industry



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## 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

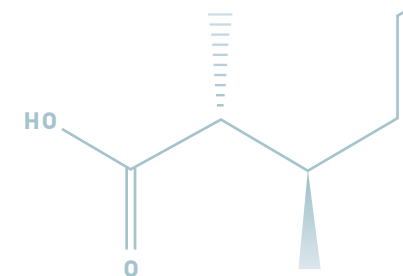
### A SUSTAINABLE AND COMPETITIVE EUROPEAN CHEMICAL INDUSTRY

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

## APPLICATION FIELDS

- CROP PROTECTION
- FOOD
- FEED
- PERSONAL CARE



### 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)

**IAR, the French Bioeconomy Cluster** (France)

**BIOP** (Italy)