SusPlast
Interdisciplinary Platform for Sustainable Plastics towards a Circular Economy

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SusPlast counts with the participation of 15 research groups from 8 different CSIC institutes or centers which are the initiating partners of this novel platform:

CSIC CIB

ICTP
Instituto de Ciencia y Tecnología de Polímeros

CNB
CENTRO NACIONAL DE BIOTECNOLOGIA

i2sysbio

INCAR
INSTITUTO NACIONAL DEL CARBÓN

iata
Instituto de Agroquímica y Tecnología de Alimentos

ICMAB
INSTITUT DE CIÈNCIA DE MATERIALS DE BARCELONA

icms.us-csic.es
INSTITUTO DE CIENCIA DE MATERIALES DE SEVILLA

SusPlast

CSIC

SusPlast (a CSIC platform) proposes an ambitious cross-sectorial and symbiotic approach that involves materials science and bio-technology in a joint action for the exploitation of new technologies and strategies to overcome the global challenge of ***`SUSTAINABLE PLASTICS TOWARDS A CIRCULAR ECONOMY'.***

www.susplast-csic.org

SusPlast

Interdisciplinary Platform for Sustainable Plastics towards a Circular Economy

Our "plastic" mission:

SusPlast intends to develop research and innovation activities, including socio-educational strategies, aimed at plastic production processes and their recycling, **through mechanical, chemical and biotechnological strategies** to meet the necessary requirements to implement plastics management based on a circular economy.

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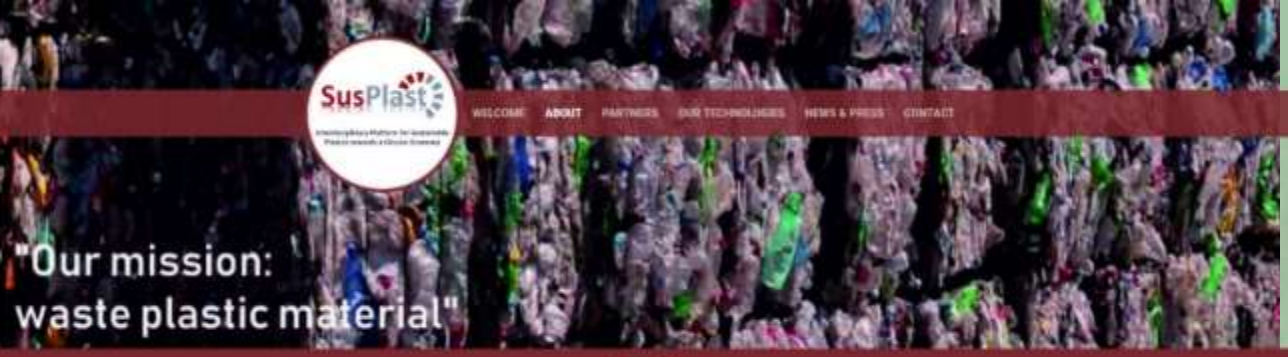
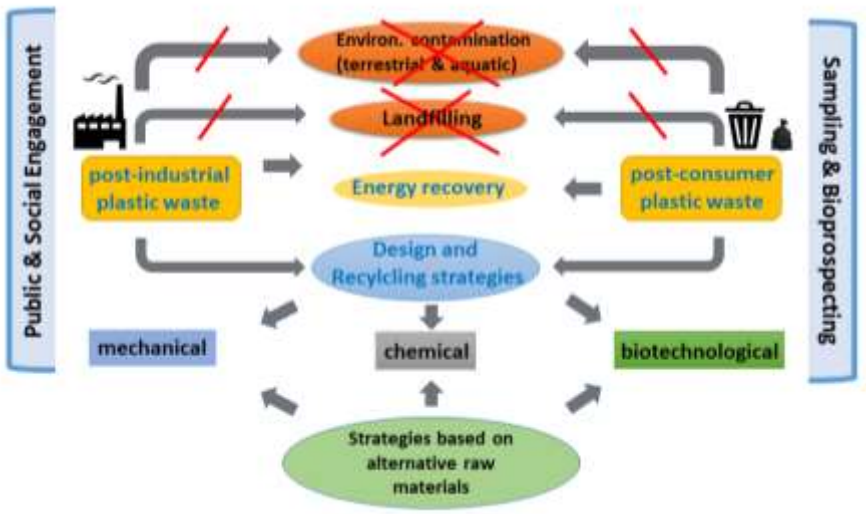


Our partners´ expertises:

SusPlast is a multidisciplinary platform integrated by biotechnologists dedicated to bioprospecting, enzymatic catalysis, biotransformation, environmental microbiology, synthetic and systems biology, and polymer biotechnology as well as specialists in materials engineering, packaging, design of functional materials, modification of surfaces, and biomaterials and a group specialized in pyrolysis of waste for chemical and biotechnological transformation into value-added products.



The **SusPlast** operational scheme

The **SusPlast** concept within a Circular Economy using alternative resources (incl. renewable and waste feedstock materials) to produce new plastic materials.

Our working fields:

SusPlast joints people working on *i*) engineering of new biocatalysts and biosynthetic routes for obtaining renewable building-blocks as components of novel plastic polymers; *ii*) processing and functionalization of polymers for novel materials using an eco-friendly technology; *iii*) plastics degradation; *iv*) plastic recycling; *v*) development of biomass-derived biopolymers; *vi*) advanced characterization of recycled plastics and novel bioplastics.

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