

MOBILISING AGENDA



# Insectera

New bioindustrial sector



**PRR**  
Plano de Recuperação  
e Resiliência



REPÚBLICA  
PORTUGUESA



Financiado pela  
União Europeia  
NextGenerationEU

MOBILISING AGENDA



**InsectERA, a plan for the creation of a new bioindustrial sector with insects as its central tool.**

IPIFF Annual Conference 2023 – 15th December

Daniel Murta, PhD – President of the Executive Committee



# ▶ THE AGENDA CONSORTIUM

19 COMPANIES

- Representing the entire value chain

14 ORGANIZATIONS

- Entities of scientific system focused on technology development and impact assessment

4 COLABS

- From different sectors with an impact on the Agenda

3 ASSOCIATIONS

- Mobilising business associations from different sectors:

2 OFFICIAL ENTITIES

- Public national entities



## ▶ INVESTIMENT

- ❖ **Global investment: 42.998 M €**
- ❖ **Productive investment: 21.555 M €**
- ❖ **PRR Incentive: 29.072 M € (67,6%)**

# ▶ MAIN OBJECTIVES OF THE AGENDA

## CREATE

new value-added  
production sector

## INSTALL

4 bioindustrial units  
2 R&D centres  
1 logistics centre

## DEVELOP

100 new products,  
processes and  
services

## CREATE

140 new  
direct jobs

**GENERATION  
NEW VALUE  
CHAINS**

**ESTABLISHMENT  
ENTOPRENEUR  
CENTRE**

**CREATE  
THE INSECT  
TRAINING  
NETWORK**

**POSITIONING  
EUROPE  
AT THE GLOBAL  
FOREFRONT  
OF THE INSECT  
BIOINDUSTRIAL  
SECTOR**

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## ▶ VERTICAL FIELDS OF THE AGENDA

FOOD



**INFOOD**

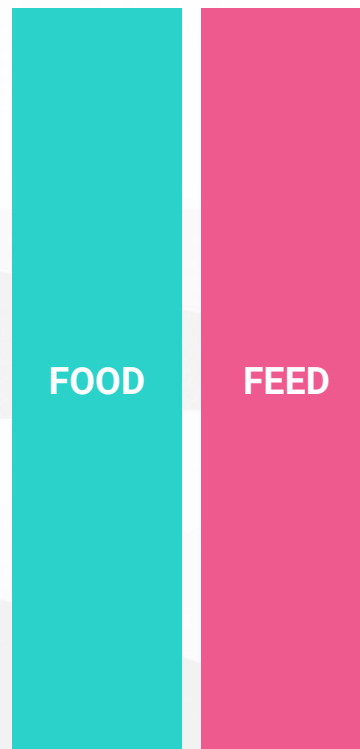
Using insects as a healthy and sustainable alternative nutritional source in 15 new product lines for human food.

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## ▶ VERTICAL FIELDS OF THE AGENDA



**INFEED**

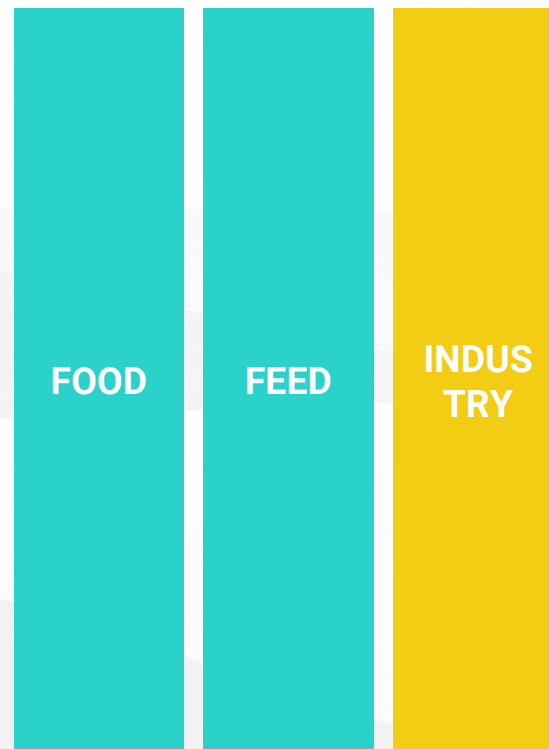
Use of insects as a nutritional source for more sustainable, locally-sourced animal feed with 8 new product lines (feed).

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## ▶ VERTICAL FIELDS OF THE AGENDA



### IN INDUSTRY

Use of insect-derived products to develop four new raw materials for industries such as cosmetics and bioplastics, as well as nine innovative end products.

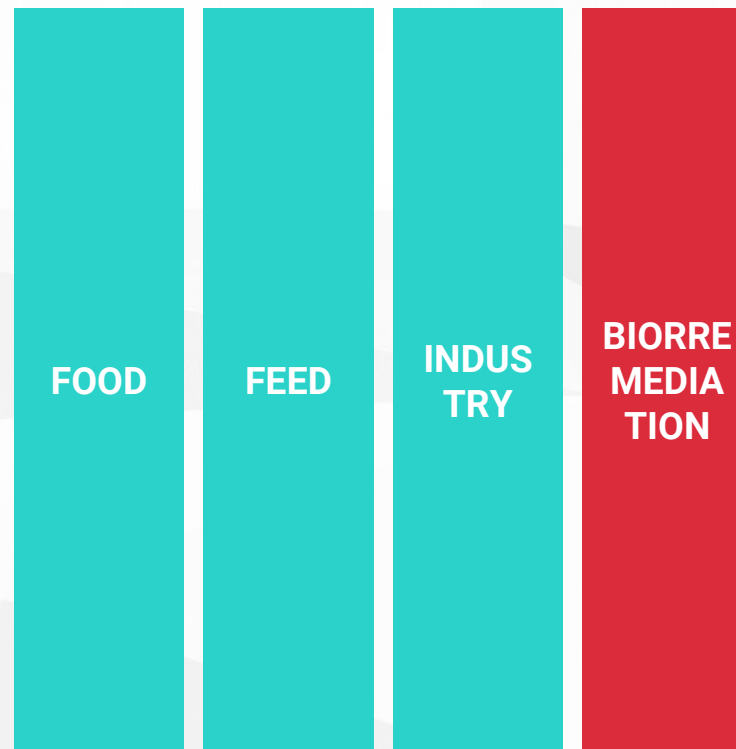


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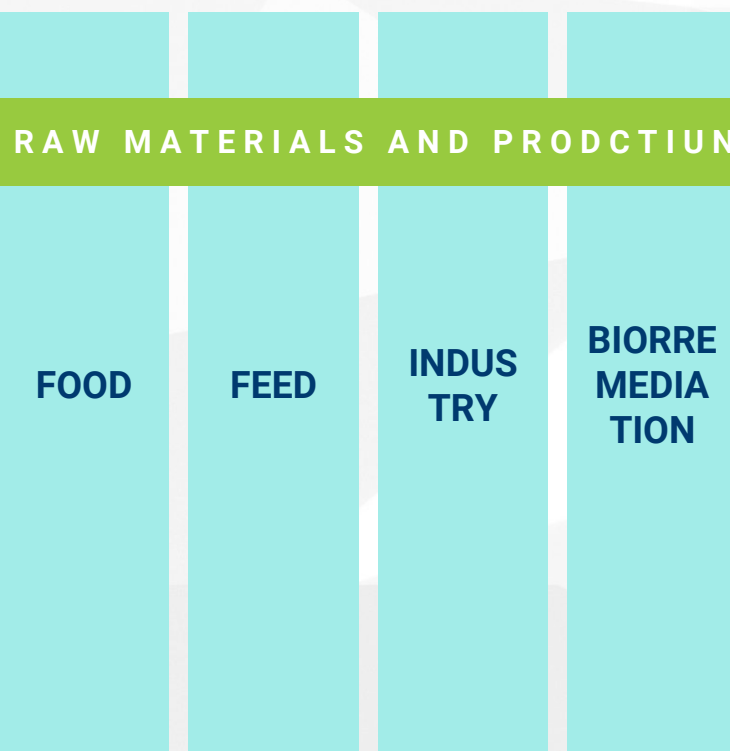
## ▶ VERTICAL FIELDS OF THE AGENDA



## INBIORREMEDIATION

The use of insects as a bioremediation tool and a solution to environmental challenges, such as the disposal of livestock effluents and urban organic waste, is aimed at investments in R&D and the creation of a research centre.

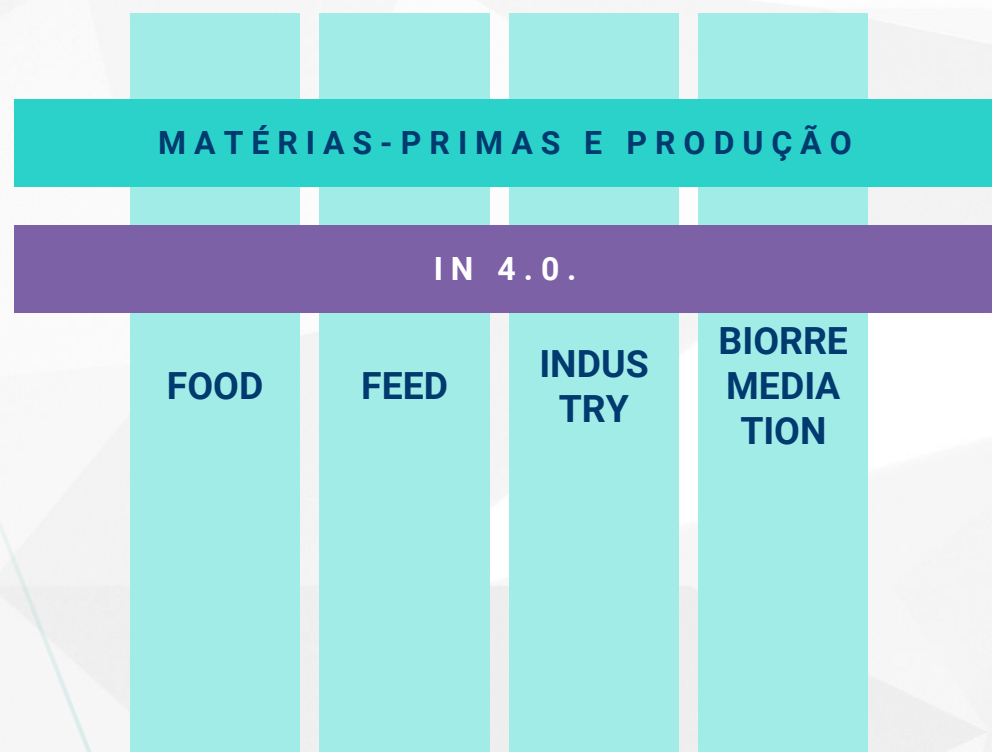
## ▶ HORIZONTAL FIELDS OF THE AGENDA



### RAW MATERIALS AND PRODUCTION

The bioindustrial production of **insects** is based on the principle of the **circular economy**, using insects as a bioconversion tool. Insects are selected for their ability to convert discarded organic material (co-products) from other industries, particularly the agri-food industry, and turn something that would be wasteful and expensive into raw materials of high biological and economic value.

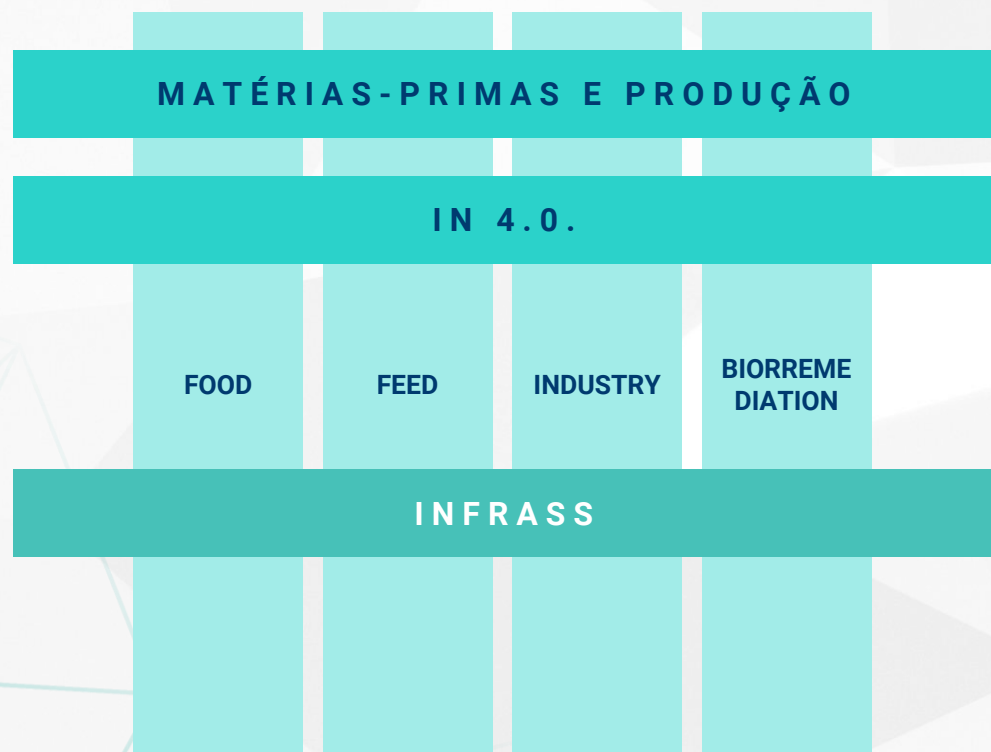
## ▶ HORIZONTAL FIELDS OF THE AGENDA



### IN 4.0.

The process of bioconverting organic by-products has been developed and industrialised, and this field focuses on digitalisation and automation work to bring this process up to the efficiency and control levels of advanced industries, placing the sector at the top of international competitiveness.

## ▶ TRANSVERSAL FIELDS OF THE AGENDA

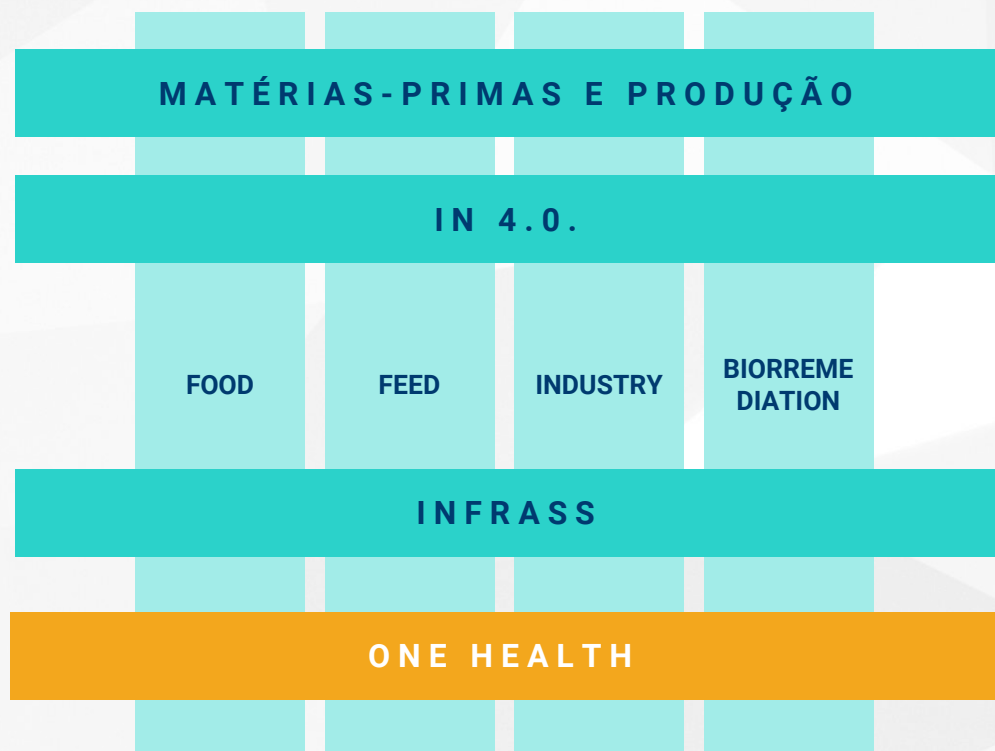


### InFrass

The process of biodigestion of organic matter generates a high-quality organic fertiliser that is quick to produce and stable, ready for direct application to the soil. This product, called Insect Frass, is made up of insect droppings and decomposed material.

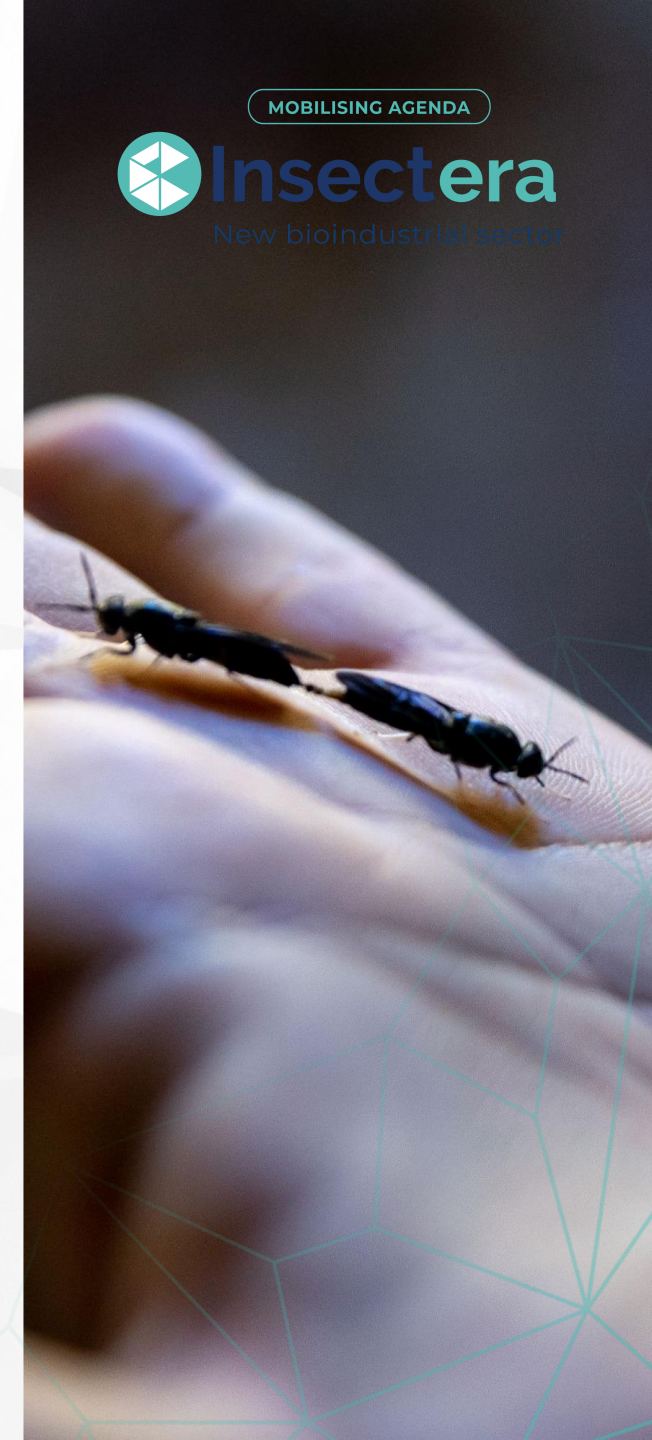


## ▶ TRANSVERSAL FIELDS OF THE AGENDA

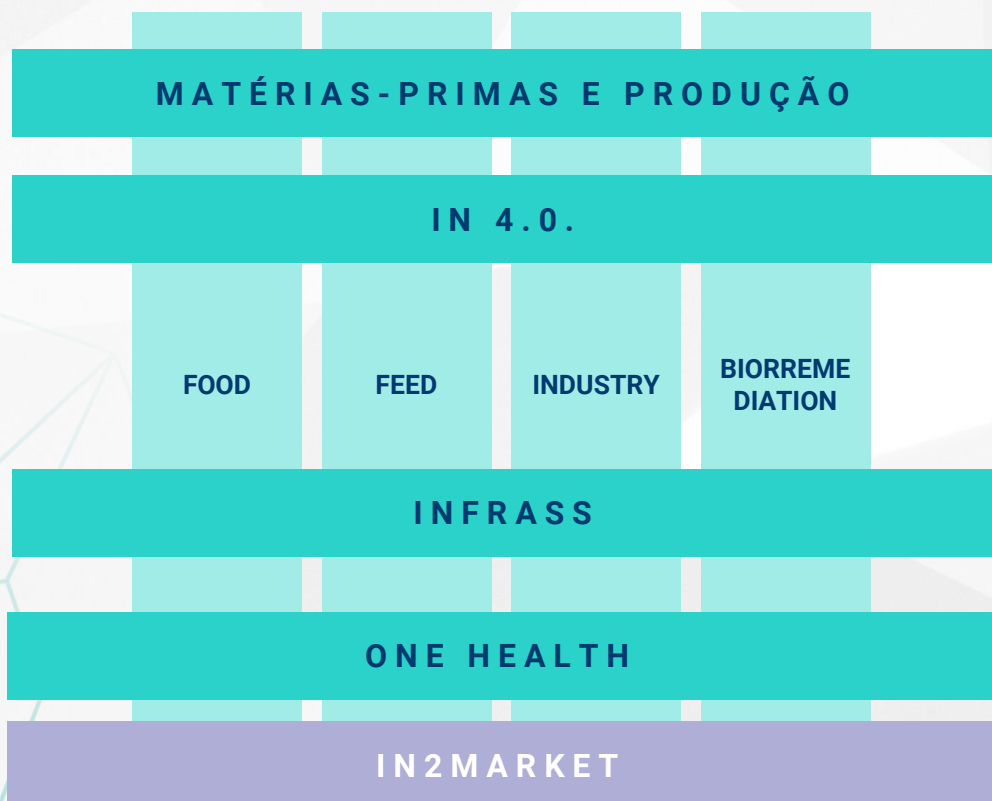


### One Health

All the products generated in the project's various axes have an impact on human, animal and environmental health. This axis therefore aims to carry out risk assessments and product quality and safety studies, including evaluating the ecotoxicity of products.



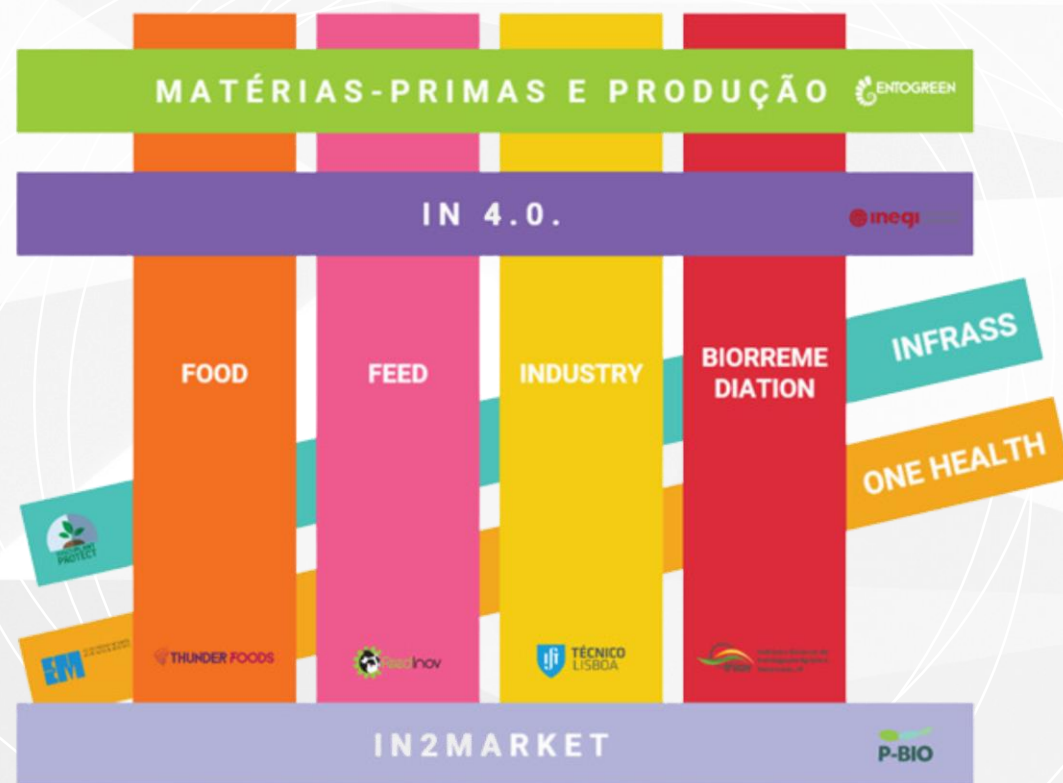
# ▶ TRANSVERSAL FIELDS OF THE AGENDA



## In2Market

A wide-ranging study of the entire sector as a way of ensuring the transition of new products to the market, particularly at the legal level, consumer level, life cycle assessment, dissemination, human resources training and exploitation. This axis is the culmination of the Agenda, focusing not only on the market and internationalisation, but also on preparing for the future beyond the end of the RRP.

# ▶ FIELDS FO THE AGENDA

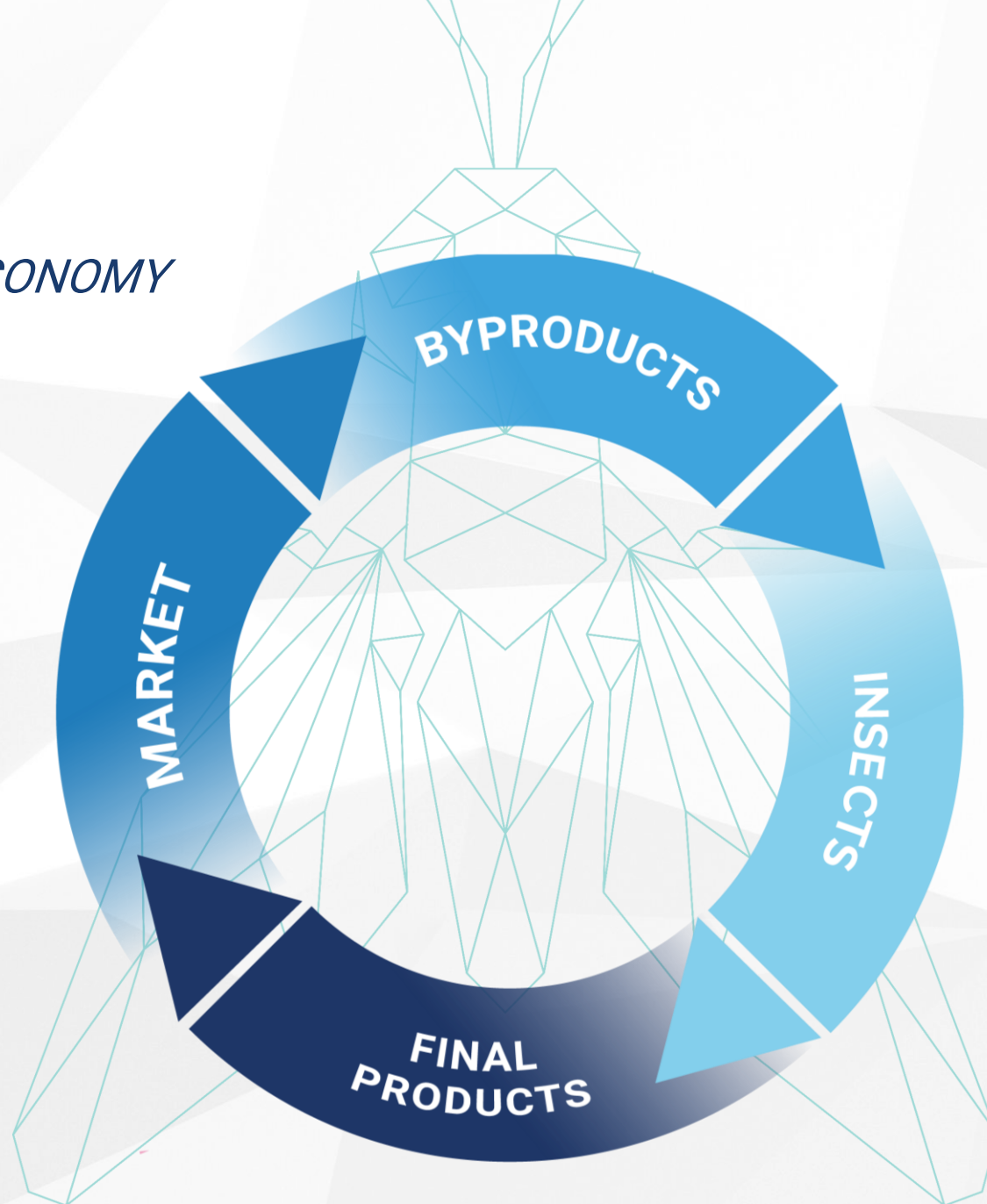


# INSECTS

*A KEY TO THE CIRCULAR ECONOMY*

**INSECTS AS A TOOL**

**ALLOW CICLES TO BE CLOSED**  
*CREATING ADDED VALUE*





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THANK YOU FOR YOUR ATTENTION



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www.insectera.pt

