



**SAKATA**<sup>®</sup>

PASSI<sup>ON</sup> in Seed



# GLUCOS PROJECT



*Sakata, much more  
than you think!*

# SAKATA SEED IBERICA



Sakata Vegetables Europe, a subsidiary of Sakata Seed Corporation (Japan), breeds, produces and markets high quality vegetable seeds for Europe, Middle East and Africa.

It offers over 900 varieties of broccoli, tomato, squash, watermelon and cabbage to name a few.



## POTENTIAL OF GLUCOSINOLATES ENRICHED CROPS



Research line -  
Increasing bioactive  
compounds in  
vegetables



Patented product and  
methodology – Increases  
glucosinolates content in  
*Brassica* crops



Increased glucosinolates  
content in both broccoli  
heads and crop residues  
without altering quality



Crop residues as  
source of  
glucosinolates for  
different industries



Exploitation of  
glucosinolates as active  
compounds in food,  
health, cosmetic, and  
phytosanitary products



- Food production
- Residues as feed-stock  
for bio-based industries
  - ILUC



## Needs

Sustainable and regenerative practices

Circularity

Bioeconomy

Rural involvement

Farm to Fork  
(F2F) aligned strategies

## Proposal

New farming added value technologies

Strategies diversification

Agro-social approach

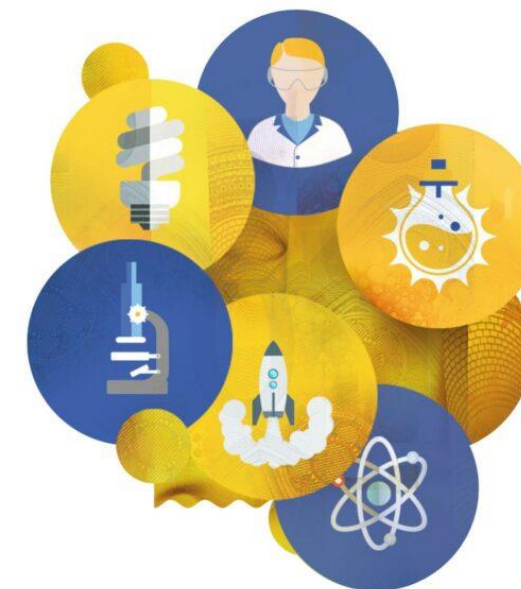


## EUROPEAN COLLABORATIVE PROJECT

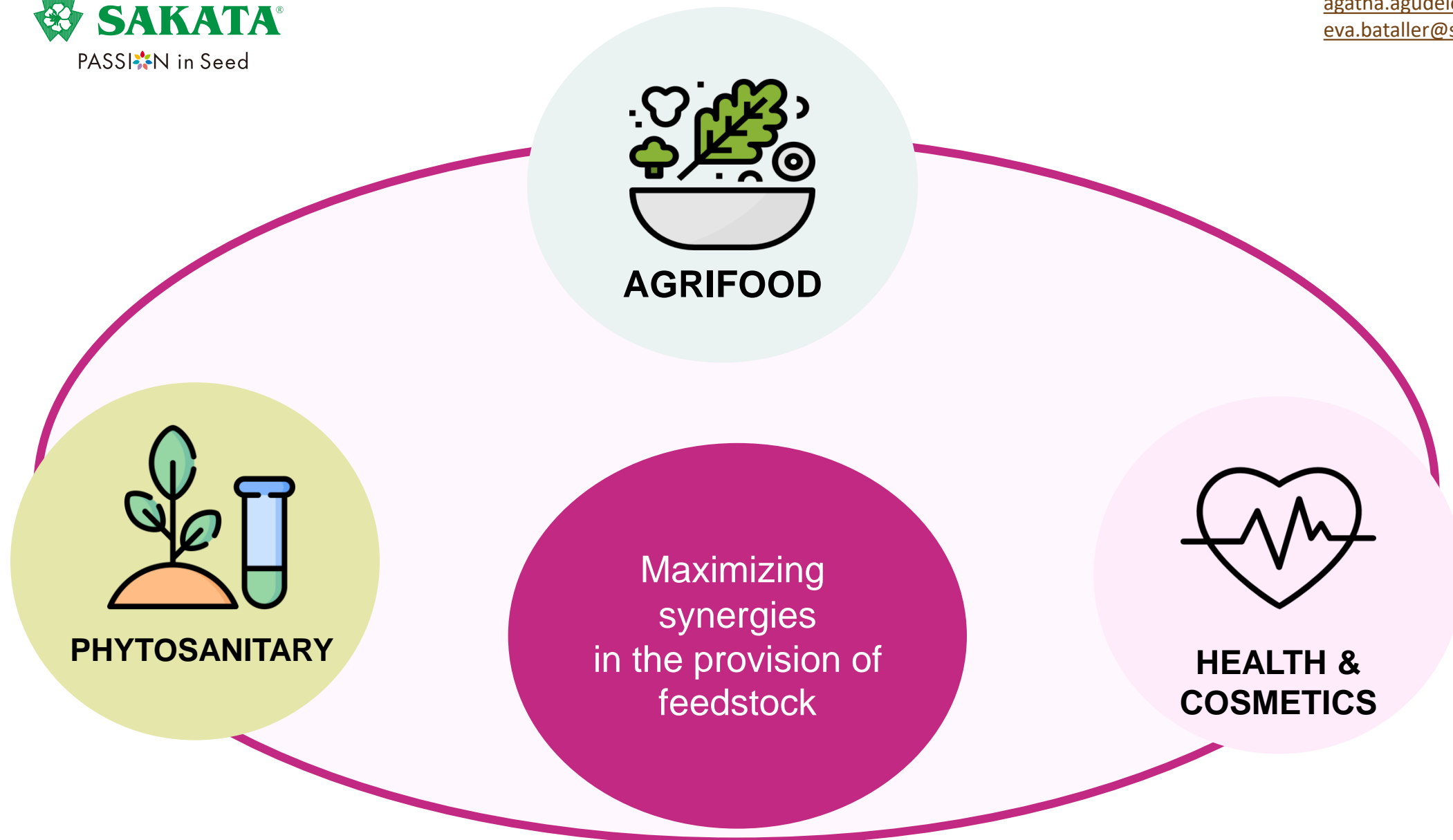
### HORIZON-CL6-2022-CIRCBIO-01-04:

Maximizing economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems.

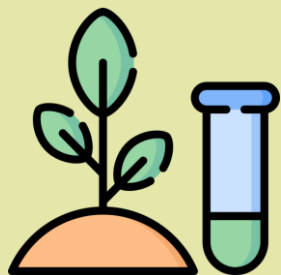
- ✓ Research activities TRL 4-5
- ✓ Scope includes industrial, diversification, and agro-social approach
- ✓ Only one project will be granted







Farm to Fork  
Strategy



PHYTOSANITARY

## Soil biofumigation

### Use of isothiocyanates for pathogen control

- ✓ Bactericide
- ✓ Fungicide
- ✓ Nematicide
- ✓ Herbicide
- ✓ Insecticide





**HEALTH &  
COSMETICS**

- ✓ **Protection against several forms of cancer**
- ✓ **Anti-inflammatory and osteoporosis properties**
- ✓ **Obesity management**

- ✓ **Anomalies in skin pigmentation**
- ✓ **Skin whitening**

**NEW  
TREATMENTS**

**DIET  
SUPPLEMENTS**







- ✓ **Ingredients for food conservation: control of foodborne bacterial and fungal pathogens**
- ✓ **Flavouring agents**
- ✓ **Fortified food**



# Collaboration opportunities



**Companies interested in the exploitation of plant based bioactive compounds in different sectors**



**Maximize economic, environmental and social synergies in the provision of feedstock for bio-based sectors**



**Valorisation of by-products through a sustainable and circular approach**





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**Stand 9E10**



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