



POWER4BIO
REGIONS FOR
BIOECONOMY



Junta de Andalucía
Consejería de Agricultura, Ganadería,
Pesca y Desarrollo Sostenible

Cross-visit Andalusia | Seville-online, 20th and 21st October 2020

Grupo Empresarial La Caña, S.L.

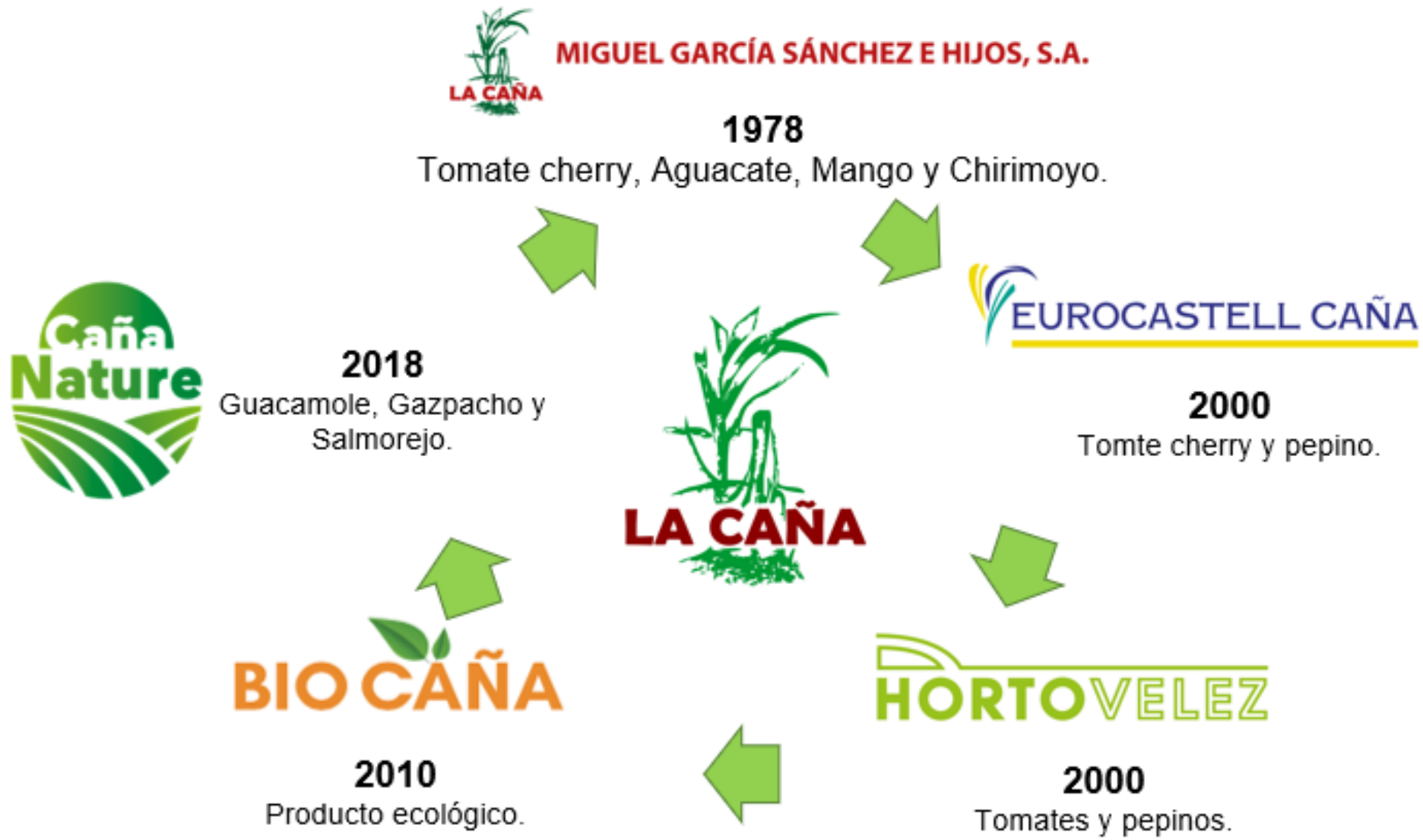
This project has received funding from the European Union's
Horizon 2020 research and innovation programme
under grant agreement No 818351



Grupo La Caña

Valorization of agro-industrial by-products












Southern Spain: From Huelva to Almería (Granada)





I+D+i department

-  **New products with added value**
-  **Environmental care**
-  **Circular bioeconomy**
-  **Improved product shelf life**
-  **Development and design of new more efficient production systems.**
-  **Search for utilities for the use of by-products**
-  **New technologies**



AVOCENTUM



Development of functionals guacamole with healthy properties through new ingredients obtained valorization by-products.



Avocado



Industrialization

➤ **GUACAMOLE**

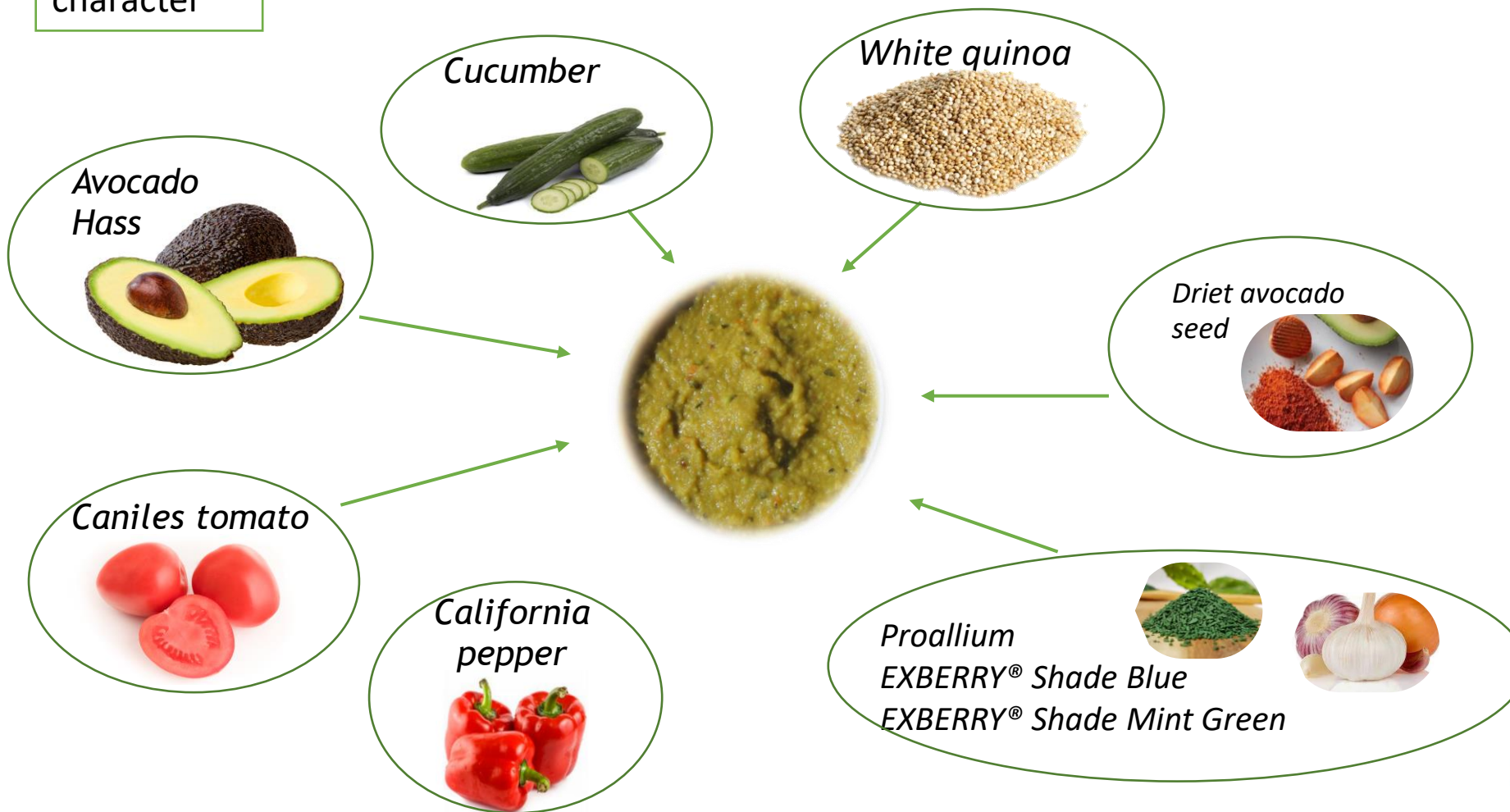
Perishable
character

Funcional
properties

Unsaturated fatty acids
Carotenoids (lutein)
Vitamin (α -tocopherol)

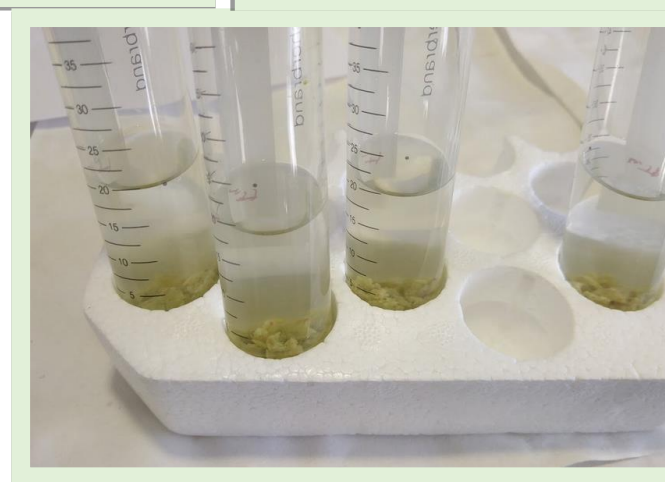
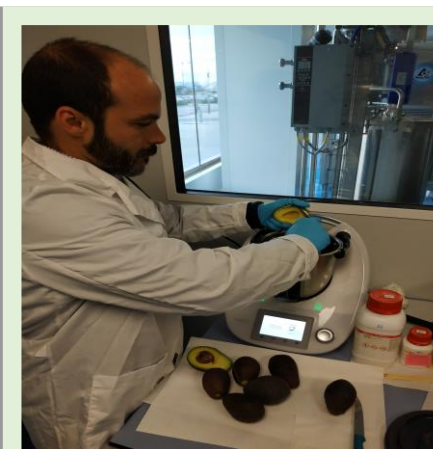
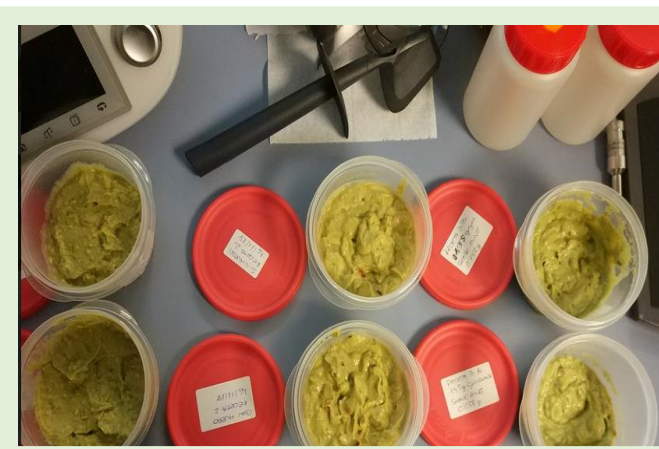


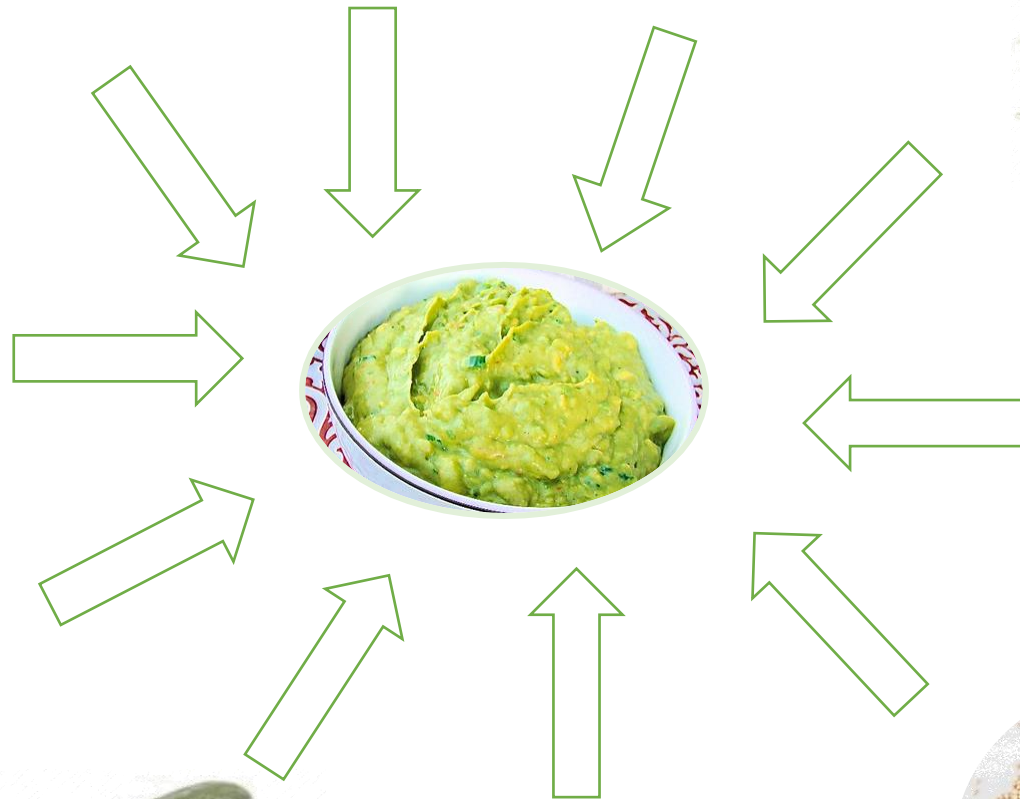
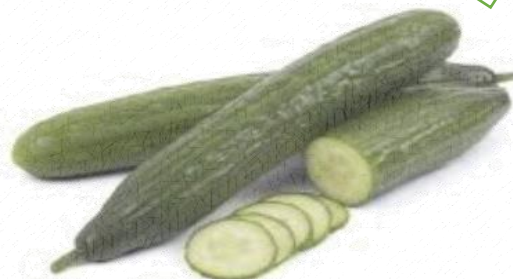
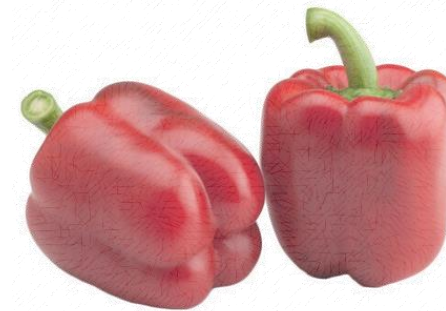
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➤ Prototype development – Laboratory scale





➤ Prototype development – *Industrial process*





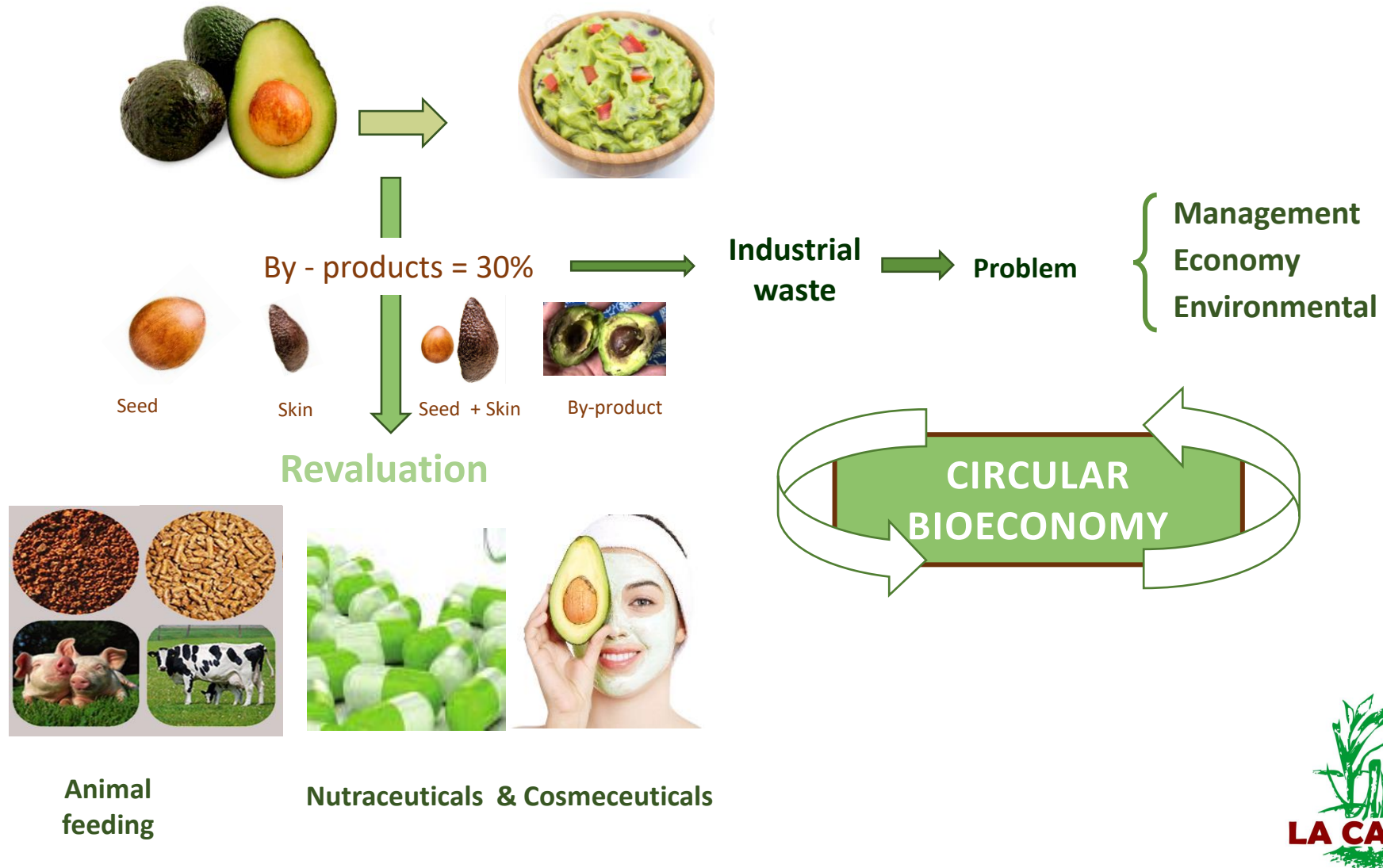
Grupo Operativo AGUACAVALUE

2018 - 2020

“Revalorization by-products of Avocado to make animal nutrition, nutraceuticals and cosmeceuticals.”



OBJECTIVES





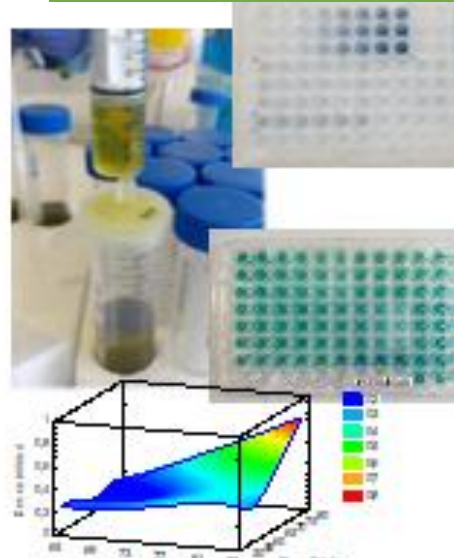
EXTRACTION OF BIOACTIVE COMPOUNDS



PREPARATION OF FEED



ELABORATION OF COSMACEUTICALS AND NUTRACEUTICALS



INVIVO TEST





Figura 7. Pellets de hueso de aguacate secado en estufa (PHE) y en tromel (PHT).



Figura 20. Nutraceuticos desarrollados en el proyecto del GO AGUACAVALUE junto a sus correspondientes envases de tarro pildorero. A) cápsulas duras de color blanco con extracto de piel de aguacate; B) cápsulas duras de color rojo con extracto de hueso de aguacate.

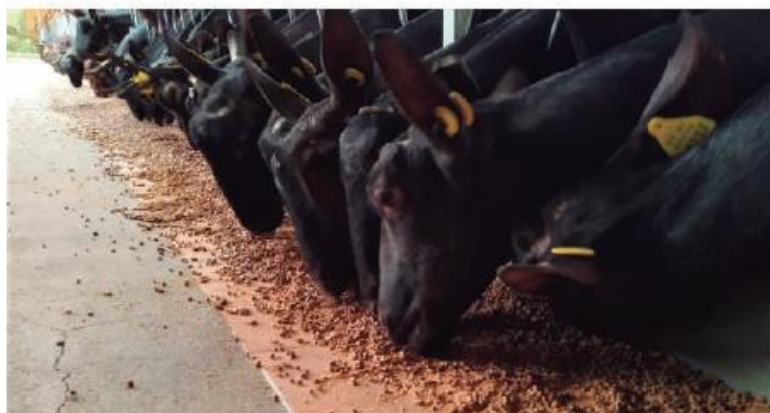


Figura 10. Estudio de ingesta en la Granja de Caprino Los Llanos de Sillar S.L (Granada)

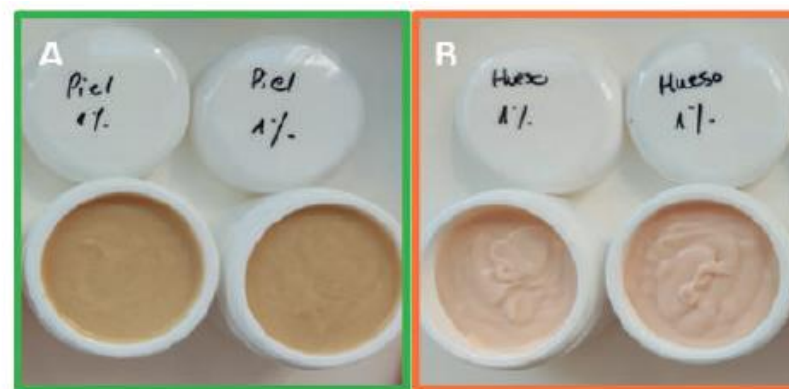


Figura 21. Cosméticos desarrollados en el proyecto del GO AGUACAVALUE. A) crema corporal con 1% de extracto de piel de aguacate; B) crema corporal con 1% de extracto de hueso de aguacate.

- ✓ Waste reduction
- ✓ Transformation into useful products with greater added value.
- ✓ Positive assessment in society for those companies that optimize their relationship with the environment.
- ✓ Reduction Carbon footprint.
- ✓ Better adaptation to environmental regulations: sanctions or penalties fee



<http://www.aguacavalue.com/>

https://www.youtube.com/watch?v=Ql4Yk3tBGp0&feature=emb_logo

POWER4BIO website and social media



www.power4bio.eu



@power4bioproject



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Thank you for your attention!



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