



I am  
CELISE

# I am CELISE, an International Project to help SMEs and rural areas within the bioeconomy

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*University of Cantabria*

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# When was I conceived?

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- Natural fibers in construction
- Biomaterials for packaging instead of traditional plastics
- Highly purified cellulose products (micro and nanocellulose) in our health
- Problems of rural areas - gender inequality
- Vulnerable areas in Colombia and Ecuador

**Important issues in our lifes**





# When was I conceived?



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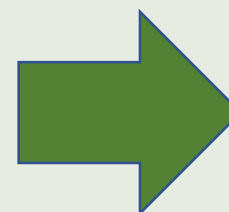
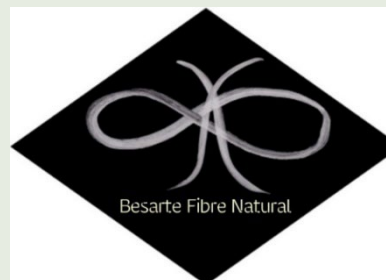


[FP1205](#)

[FP1306](#)

[FP1407](#)

[CA17128](#)



**Main people and networking involved at the beginning**

# When was I conceived?



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Strengthen **international, intersectoral and cross-border collaboration** in R&D&I through **exchanges of research and innovative personnel** between **public and private entities**.



[Europe Research Dynamization Actions](#)

Meetings with partners

[Reyes Sansegundo](#), European Project consultant



[European and International Project Office – OPEI](#)

**Background and help**



# Who am I?



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Beatriz Fernández Secadas

*Sambucus nigra*

Transfer of knowledge on **sustainable cellulose-based materials** from **biomass residues** and that can be used not only in small and medium-sized enterprises (**SMEs**), but also in **rural and vulnerable areas** of Europe and Latin America.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No **101007733**



# What would I like to do?



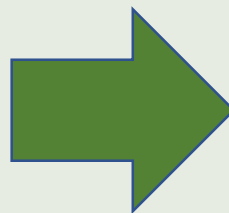
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## Sustainability:

**Social:** rural and vulnerable areas in Colombia (post-conflict) and Ecuador, gender equality, portable and adaptable pieces of equipment, educational programmes

**Environmental:** natural additives, residues of biomass, bioenergy

**Economic:** every-day products, artisan products, construction, packaging and health, new business models



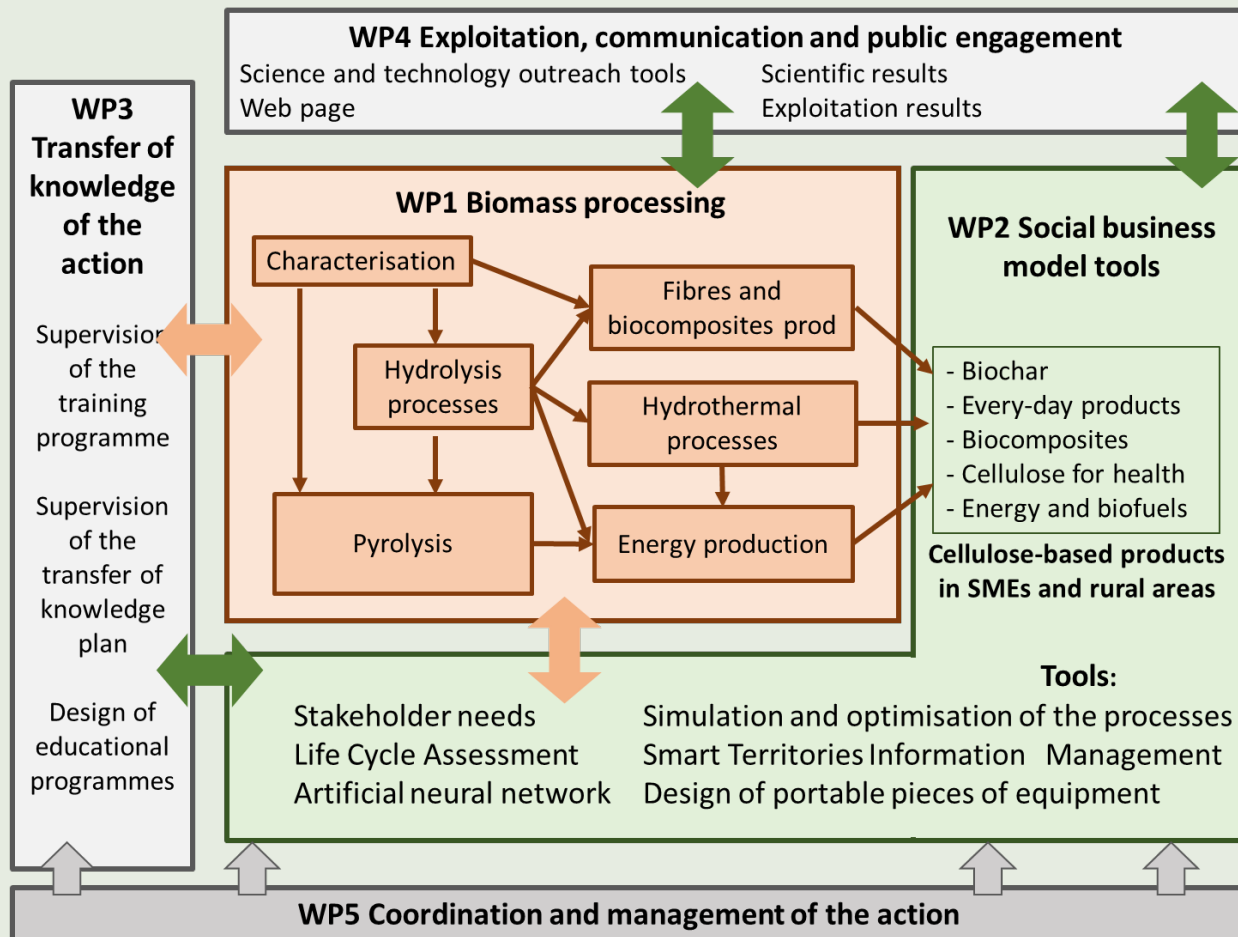
**From big to small biorefineries**



# What am I composed of?



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## 5 work packages

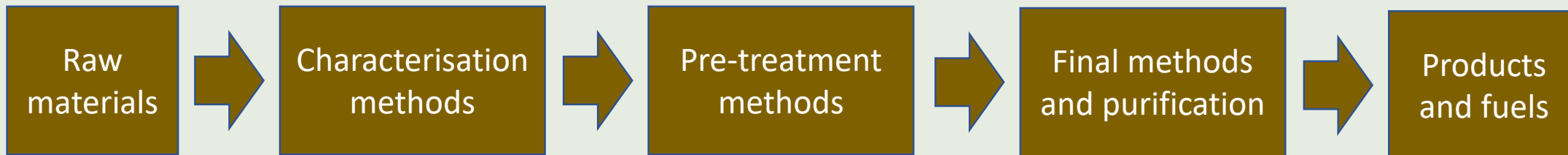
WP	Leader and Institution
<b>WP1.</b> Biomass processing	Dr. Laura Andze, LS-IWC
<b>WP2.</b> Social business model tools	Dr. Radovan Vacek, INOCURE
<b>WP3.</b> Transfer of knowledge of the action	Dr. Tamara Llano, UC
<b>WP4.</b> Exploitation, communication and public engagement	Dr. Grzegorz Kowaluk, SGGW
<b>WP5.</b> Coordination and management of the action	Dr. Alberto Coz, UC



# What am I composed of?



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- WASTE
- Rural areas:
- Cocoa
  - Coffee
  - Soya
  - Corn
- From SMEs:
- Brewery

- D1.1. Traditional and novel methods
- Rural areas
  - SMEs
  - Time of analysis

- Traditional
- Acid hydrolysis
  - Alkaline hydrolysis
  - Auto-hydrolysis
- More novel:
- DES
  - Steam Explosion
- Biological:
- Enzymatic

- Biological:
- Fermentation (yeast, bacterial and fungus)
- Thermal:
- Pyrolysis
- Others:
- Fiber production (electrospinning...)

- Biofuels
- Artisan products
- Biochar
- Chemicals
- Nanocellulose

Stakeholder needs

Simulation and optimisation

Artificial Neural Analysis

LCA

Smart Territories Information

Design of portable equipment












# Who are my parents?



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Country	Partner	Acronym	Logo	Kind of institution	Web page
Spain	University of Cantabria	UC		University	<a href="https://web.unican.es/">https://web.unican.es/</a>
	Polytechnical University of Madrid	UPM		University	<a href="https://www.upm.es/">https://www.upm.es/</a>
	Quantum Artificial Intelligence, S.L	QAI		SME	
Latvia	Latvian State Institute of Wood Chemistry	LS-IWC		Research Centre	<a href="http://www.kki.lv/en">http://www.kki.lv/en</a>
Poland	Warsaw University of Life Sciences	SGGW		University	<a href="https://www.sggw.edu.pl/en/">https://www.sggw.edu.pl/en/</a>
	Warsaw University of Technology	WUT		University	<a href="https://www.pw.edu.pl/en/ngpw">https://www.pw.edu.pl/enngpw</a>
	Institute of Physical Chemistry – Polish Academy of Science	ICHF		Research Centre	<a href="https://ichf.edu.pl/en">https://ichf.edu.pl/en</a>




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Country	Partner	Acronym	Logo	Kind of institution	Web page
Greece	Aristotle University of Thessaloniki	AUTH		University	<a href="https://www.auth.gr/en/">https://www.auth.gr/en/</a>
	Ecoresources IKE	ECORES		SME	<a href="https://ecoresources.gr/">https://ecoresources.gr/</a>
Czech Republic	Inocure sro	INOCURE		SME	<a href="https://inocure.cz/">https://inocure.cz/</a>
United Kingdom	Bangor University	BANGOR		University	<a href="https://www.bangor.ac.uk/">https://www.bangor.ac.uk/</a>
	TWI	TWI		Research Centre	<a href="https://www.twi-global.com/">https://www.twi-global.com/</a>
	Carbon Compost Company Ltd	CCC		SME	<a href="https://www.carboncompost.co.uk/">https://www.carboncompost.co.uk/</a>
	VoCATE, LTD	VoCATE		SME	







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Country	Partner	Acronym	Logo	Kind of institution	Web page
Colombia	Universidad Cooperativa de Colombia	UCC		University	<a href="https://www.ucc.edu.co/">https://www.ucc.edu.co/</a>
Ecuador	Universidad Nacional del Chimborazo	UNACH		University	<a href="https://www.unach.edu.ec/">https://www.unach.edu.ec/</a>
Argentina	Universidad Nacional del Litoral	FICH-UNL		University	<a href="https://www.unl.edu.ar/">https://www.unl.edu.ar/</a>
Uruguay	Latitud - Fundación del Laboratorio Tecnológico del Uruguay	Latitud		Research Centre	<a href="https://latitud.org.uy/">https://latitud.org.uy/</a>





# Where will the exchanges take place?



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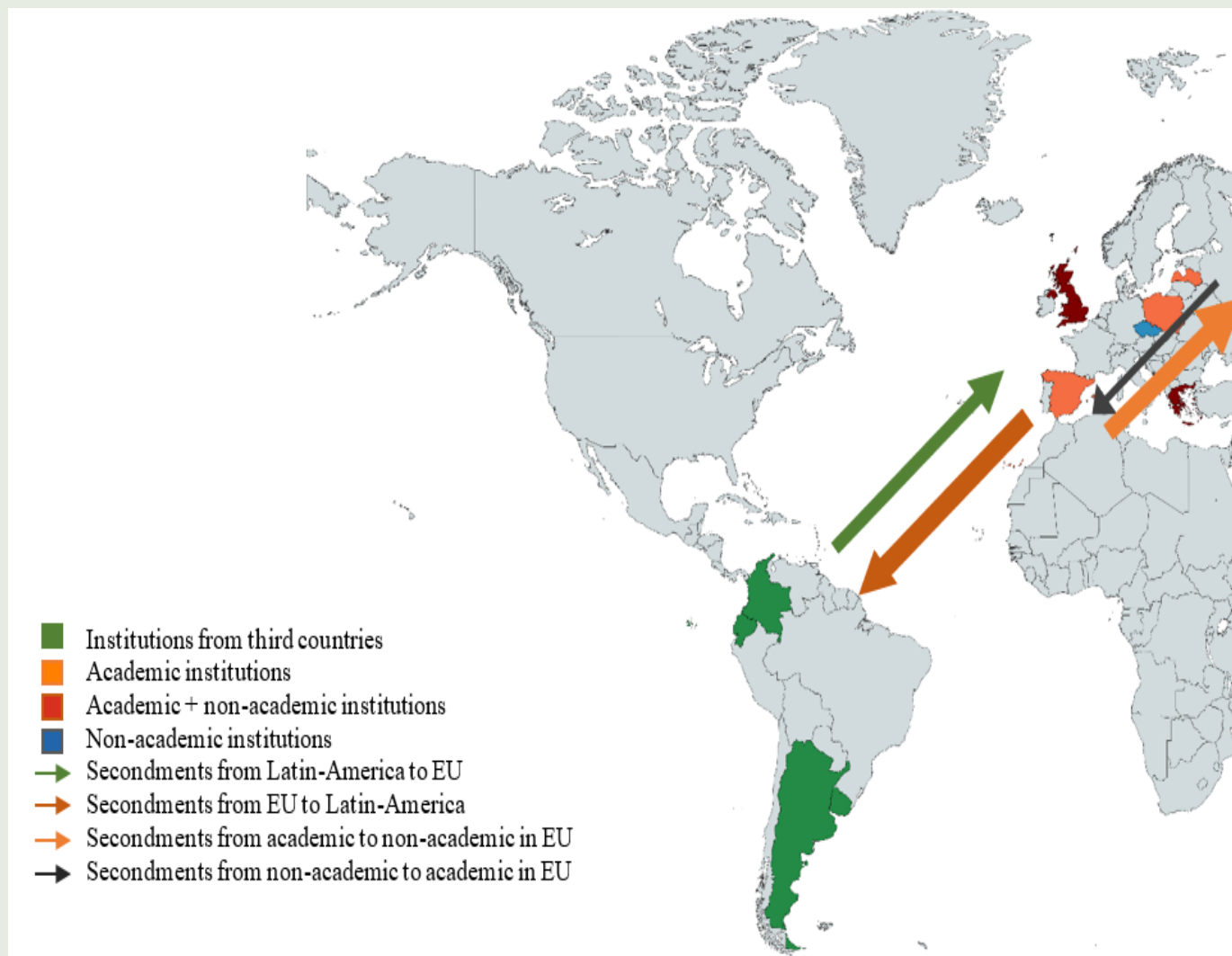
621,000 €

Research stays and knowledge transfer (Secondments) among all partners:

- 83 secondments – 135 person/months
- 49 participants
- 45% women, 40% ESR

The management and calendar of the stays is based on the know-how of each partner, on the objectives of the project and on the work packages.

## Secondments





# What would I like to contribute?

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## Impact aligned with:

- the key objectives of the EU for international cooperation in R&D&i.
  - (i) food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy; and
  - (ii) climate action, environment, resource efficiency and raw materials.
- the objectives of the European Green Deal
- the sustainable development goals



# What would I like to contribute?



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- **Strengthening cooperation** in research and innovation through the mobility of participants, the training of young researchers and lifelong learning opportunities for more experienced people.
- More attention to **sustainable development**, education and connection with the reality of **vulnerable areas** of Colombia and Ecuador. Gender inequality.
- Relationship with the concept of **biorefinery in different areas** (rural, non-rural, vulnerable areas and SMEs). <https://www.bbi-europe.eu/>
- Economic development is reinforced by the **innovation of adhesives and additives and other recovery alternatives** that are obtained from cellulosic biomass residues-Bioeconomy.
- Carry out a **communication strategy** throughout my life:
  - Open access
  - All society
  - Connection with vulnerable areas



# Problems during my life

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- Changing of the dates and secondments
- Institutions leaving the project
- Conflicts



**Adaptation to the new situations (new agreements: having confidence)  
Taking into account the real objectives/mission of the project!**







# Conclusions

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- **Great connection and trust**, as well as having a similar philosophy of life or mission among the main people that make up the project.
- **Great adaptation**
- **Great social impact**, being satisfied with what has been achieved.

