



"Biodatarium is a startup that is active in Automated visual recognition systems for agricultural pests in traps."

This case study shows the transformation of this start-up business model thanks to the CircularStart training materials.

Sector/Activity: ICT, Agriculture Circular Business Model Category: Uphill / Tophill Circular Business Model Strategy(ies): Maximising Production Efficiency / Circular sourcing / Life Extension Services / Results oriented services Circular Start-up type: Design / Service / Nature-based

STARTING POINT:

Mission: Agriculture pest monitoring accessible for and no experts independent from the place of the agriculture plant

Vision: We provide automated visual recognition systems for insect pests in agriculture (Contribution to SDG 2 – sustainable agriculture)

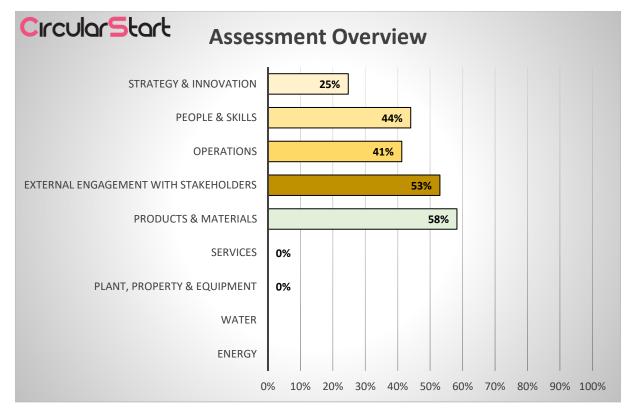
Values: automated visual recognition systems for agricultural pests in traps for easily, quickly, detect it by less hardware investment and detection time

KEY PARTNERS	HORK	KEY ACTIVITIES		/ALUE PROPOSITION		CUSTOMER RELATIONSHIPS		CUSTOMER SEGMENTS
			automated visual recognition systems for agriculture pests in traps for easily, quickly, detect it by less hardware investment and detection				- g fc - co	armers, overnmental agency or health and food o-operates plant reatment
		KEY RESOURCES	time		00	CHANNELS		
\bigcirc costs $\langle \xi_{\pm}^{4} \rangle$ revenues								



Co-funded by the Erasmus+ Programme of the European Union





Initial circularity profile – Results from the application of the Assessment Tool

FOLLOWED LEARNING PATH:

Units	IDEATION	INTEGRATION	VALIDATION	IMPLEMENTATION
Unit 1	x	X	X	
Unit 2	x	X		X
Unit 3	x	X		
Unit 4	x			
Unit 5				
Unit 6				
Unit 7	x			
Unit 8	x			
Unit 9				



Co-funded by the Erasmus+ Programme of the European Union

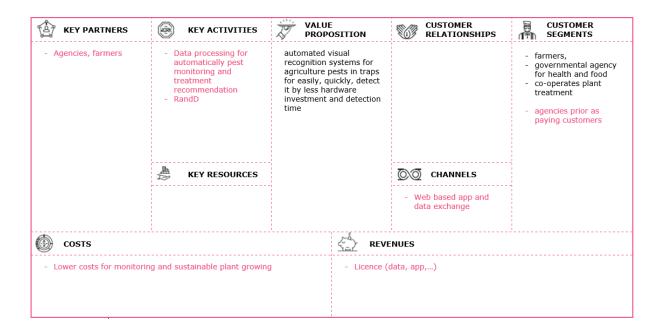


FINAL CIRCULAR BUSINESS MODEL:

Mission: Agriculture pest monitoring and pot. treatment accessible for and no experts independent from the place of the agriculture plant

Vision: We automatically identify agricultural insect pests to facilitate monitoring in crops (Contribution to SDG 2 – sustainable agriculture, SDG 15 – sustainable use of ecosystems)

Values: automated visual recognition systems for agricultural pests in traps for easily, quickly detect, monitor and data generation for better treatment by less hardware investment and detection time





Co-funded by the Erasmus+ Programme of the European Union





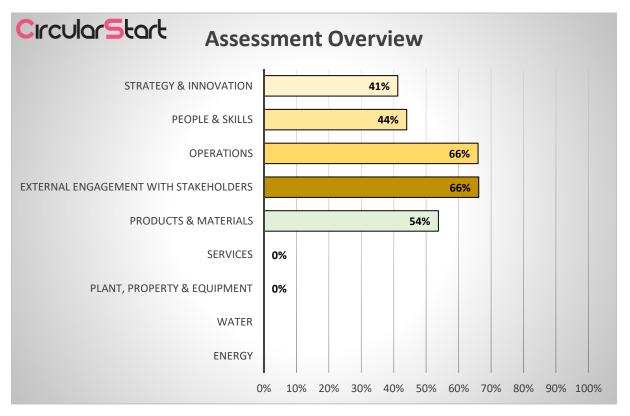
WHICH ELEMENTS/CHARACTERISTICS OF THE BUSINESS IDEA/MODEL WHERE IMPROVED THANKS TO THE CIRCULARSTART MATERIALS?



- + Vision: + SDG 15 sustainable use of ecosystems
- Mission: + data generation for sustain treatment beside monitoring
- + Key partners: + including applied field research organisations

+ Customer value - de-crease use of not renewable plant growing agents







Co-funded by the Erasmus+ Programme of the European Union





NEXT STEPS

WHAT	WHEN	HOW (People, Resources needed)	POSSIBLE DIFFICULTIES?
Further stakeholder problem centered interviews and validate hypothesis regarding + impact	Till the end of summer 21	Founders	get them for an interview, no specific need
Payed pilot field demonstration with stakeholders	Till the end of summer 21	Founders	Amount of paying stakeholders for field demonstration, get relevant financed

KEY MESSAGES



- + "Great overview and orientation in status and execution"
- + "Widening the stakeholder analyse"
- + *"Get ideas for indicators and measures*
- + *"Get inspiration for further value possibilities"*
- + "Understand better what is meant by sustainability/circular"



Co-funded by the Erasmus+ Programme of the European Union