

1. Analyze of each student's individual project and demonstrator support to overall farm goals

Project	Descriptions	Farm goals
Energy Manager system	Using solar panels reduces CO2 emissions and provides green energy	Ecological
Ball Mil	Organic fertilizer production reduces the use of chemicals	
FasoMuzik	Provide an advertising jingle for the farm, broadcast on local radio stations, to boost sales.	Economics
Ball Mil	Self-manufacture of organic fertilizers or packaged feeds, eliminating outsourcing costs and minimizing waste.	
FasoMuzik	Provide employees with an educational playlist that not only teaches them sustainable techniques, but also motivates them and creates an ideal working environment.	Education
Face Recognition	Personnel monitoring to ensure discipline and hygiene through regulated access to certain areas of the farm	Security
No-Reesa	Voice recognition to increase safety in the use of processing machines and avoid serious accidents, as well as ensuring impeccable hygiene through regulated access to certain areas of the farm.	
Face Recognition	weed management through detection of poor-quality plants at an early stage of growth	

Solar tracking system	Tracking system to improve solar power plant output	Efficiency
Automatic Irrigation	This system uses water from solar pumping to power an autonomous, gravitational irrigation system, thus limiting waste and facilitating the work of workers.	
Smart Dryer	To minimize post-harvest losses, add value to crops through efficient drying, and integrate seamlessly with the farm's renewable energy and processing systems	
Ball Mil	Producing organic fertilizer reduces dependence on synthetic fertilizers and supports a circular, sustainable agricultural system.	transformation
Smart Dryer	Dry and preserve agricultural produce for longer periods for marketing or self-use, e.g. hay.	
No-Reesa	And all employees have access to training thanks to the automatic local-language translation system, regardless of the language of the trainer.	Humanitarian
Energy Manager system	Job creation for installation and maintenance of the farm power plant	

2. Identify synergies between projects and suggest improvement for better alignment

projects	description	purpose
Energy Manager system	Energy manager system will provide energy through an optimizing system such as solar tracking and this energy will	Improve energy efficiency
Solar tracking system		
Automatic Irrigation		

	provide water for automatic irrigation system	
No-Reesa	A combination of the two systems would provide a highly sophisticated facial and voice recognition system to ensure the safety of farm employees, the machinery exposed to them and the decontamination areas where certain products are processed.	Improve security and hygiene in the farm
Face Recognition		
Smart Dryer	Working in synergy with these two machines will help to increase the production and preservation of products derived from the farm, generating income from sales and savings from self-processing. Face recognition will permit to detect easily bad plants and integrate them into fertilizer production	Increase the derived products like organic fertilizers, dry product for commercialization and vegetal product for the animals
Ball Mil		
Face Recognition		