

Summary of Project Objectives and Costs

The table below presents a detailed breakdown of the proposed budget for the UAV Sprayer Drone Scaling and Commercialization Project under the NASENI Research and Commercialization Programme. The proposed budget supports research, testing, training, certification, and market development

S/N	Budget Category	Description / Key Activities	Estimated Cost (₦)
1	Prototype Enhancement & Integration	Design refinement of 15-Liter UAV sprayer system; improvement in flight stability, power management, payload release systems, and nozzle optimization.	15,000,000
2	Software Development & AI Control Systems	Development and integration of autonomous flight control, variable-rate spraying algorithms, and real-time monitoring dashboard.	10,000,000
3	Testing, Validation & Field Trials	Large-scale testing across multiple crop types (cassava, maize, rice) and regions; data acquisition, calibration, and performance validation.	12,000,000
4	Standardization & Certification	Quality assurance testing, conformity	8,000,000

		with NASENI, SON, and NCAA regulations; documentation for UAV licensing and safety compliance.	
5	Personnel & Research Support	Stipends for engineers, UAV pilots, agronomists, data scientists, and research assistants.	14,000,000
6	Training & Capacity Building	Workshops for farmers, extension agents, and UAV operators; development of training manuals and video modules.	7,000,000
7	Marketing, Branding & Awareness Campaign	Branding, promotional materials, participation in agricultural expos, advertising on radio/TV/social media, and stakeholder engagement.	10,000,000
8	Intellectual Property (IP) Protection & Documentation	Patent filing, legal documentation, design registration, and preparation of user manuals and commercialization packages.	4,000,000
9	Partnership Development & Stakeholder Engagement	Collaboration with agricultural cooperatives, drone service companies, and state	6,000,000

		agricultural agencies; pilot deployment partnerships.	
10	Project Logistics & Mobility Support	Acquisition of utility truck (pickup) for field logistics, UAV deployment, maintenance transport, and outreach demonstrations across pilot states.	20,000,000
11	Contingency & Administrative Overheads (10%)	Covers project management, reporting, and unforeseen expenses.	14,000,000
	Total Project Cost		120,000,000