



PROJECTS FINANCED







in the period

2015 – 2020

Projects financed in the period 2015–2020

R&D program(projects)		
Title – Description	Lead company	Budget Total
LUMES: Development of an unmanned 150 kg helicopter with a payload of 30 kg LUA: Development of an unmanned 25 kg helicopter with a payload of 5 kg	babcock™	€ 5,649,782.34.
Flight Control System: Flight control system for unmanned LUA and LUMES helicopters	babcock™	€ 2,331,653.36.
Payloads: high-resolution cameras, telecommunication cells and other equipment.	babcock™	€ 7,375,868.87.
Development of land-based mobile unit for LUA or LUMES transport; includes deployable control centre.	babcock™	€ 816,880.80.
Instruction simulator for training drones and instrument operators	babcock™	€ 863,606.51.
Transport payload for deployment of support teams, versions for LUA and LUMES.	babcock™	€ 232,320.00.
Emergency air traffic management in segregated air spaces.	babcock™	€ 2,106,835.91.
Forest inventories: management system for optimising preventive forestry and planning forest inventories.	babcock™	€ 1,351,537.02.
Post-fire restoration: Development of potential vegetation mapping after a fire, taking into account soil composition and land relief.	babcock™	€ 336,749.27.
Pest control: management application for forest pest control and identification of the phytosanitary status of agricultural crops.	babcock™	€ 469,048.88.
Fire management: management system for fire monitoring and civil protection	babcock™	€ 3,575,561.13.

R&D program(projects)		
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Territorial planning: assistance for monitoring and controlling compliance with territorial planning plans, agricultural practices subsidised by the CAP and land dynamics.	babcock™	€ 998,992.55.
Fisheries surveillance: management system for the control of the fishing fleet and for the inspection of fishing practices.	babcock™	€ 545,431.52.
Control of shellfish gathering: management system for the inspection of marine infrastructure and for control of shellfish gathering.	babcock™	€ 532,347.79.
Pollution control: inspection system for controlling quality of marine waters and pollution.	babcock™	€ 1,173,339.24.
Salvage and rescue: system for recognition and identification of vessels and floating bodies at sea.	babcock™	€ 1,071,174.93.
Watersheds: system for watershed management and identification of riverside spaces	babcock™	€ 182,258.49.
TARGUS: Development of a fixed wing 1,200 kg OPV (optionally piloted vehicle), with >100 kg payload.	indra	€ 31,552,529.45.
USV: Development of an unmanned sea vehicle	indra	€ 4,107,685.07.
CMPD: Mission and Data Processing Centre for UAVs operations in various scenarios	indra	€ 3,336,784.73.
SMART LOGISTICS 4.0 and other support initiatives for TARGUS and USV	indra	€ 1,795,851.75.
Aeronautical simulation: virtual reality and augmented reality for remote piloting	indra	€ 1,834,148.25.
Lol (Loss of link): Onboard systems to deal with loss of communications with base station.	 BOEING	€ 724,282.66.
LoS (Loss of Separation): Onboard systems to address inability to detect and avoid collisions	 BOEING	€ 1,750,610.98.

R&D program(projects)		
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LoG (Loss of GPS): Onboard systems to deal with signal loss from navigation and positioning aid infrastructure, such as GPS.	 BOEING	€ 2,135,377.61.
LoE (Loss of Engine): Onboard systems to deal with loss of thrust.	 BOEING	€ 940,996.29.
LoO (Loss of Ownership): Onboard systems to deal with loss of control of UAV due to interference.		€ 180,587.34.
LoP (Loss of Energy -Power): Onboard systems to deal with loss of onboard electric power supply.	 BOEING	€ 140,677.22.
CMNG: Integral contingency management during confluence of different loss scenarios	 BOEING	€ 325,042.61.
SM: Contingency simulator for testing the different strategies	 BOEING	€ 1,094,959.79.
DW (Drone Waves): Safety measures for the operation of aircraft flying at low altitude in complex environments with obstacles.	 BOEING	€ 1,386,847.55.

* Total contribution (Xunta+participating entity), including VAT.

Solutions program (projects)			
Title - Description	Scope	Enterprises	Budget Total
Georeferenced dataset manager for data obtained by UAVs.	TIERRA -1	UTE: INSITU-CARTOGALICIA-SIXTEMA	€ 418,455.
Acquisition, maintenance and automation of topographic and cartographic databases by unmanned aircraft.	TIERRA -2	UTE: EPTISA-SRM-CERES	€ 1,397,997.
Monitoring of land use dynamics and aid to territorial planning through the use of unmanned aircraft.	TIERRA -3	UTE: COTESA-ALTIA-AEROMEDIA	€ 1,245,945.
Solutions for forest management and control through use of unmanned vehicles.	TIERRA-4 (1)	UTE: 3EDATA-USC-CETEMAS-COTESA	€ 1,092,095.
Detection and treatment of forest pests	TIERRA-4 (2)		
Strengthening maritime safety of the Galician fishing fleet.	MAR 1 (1)	UTE: IMATIA-CARTOGALICIA-IND. FERRI	€ 1,486,337.39.
Control of fishing activities on Galician coasts.	MAR 1 (2)		
Automation of oceanographic sampling using UAVs.	MAR-2 (1)	UTE: INDRA-SPI-ADANTIA	€ 2,450,000.
Automation of oceanographic sampling using USVs.	MAR 2 (2)		
Cardio-healthy Way: Deployment of cardioprotection systems by means of UAVs	CAMIÑO	Pending award	€ 1,149,500.
Development and demonstration phase of an agricultural plot information processing system in Galicia within the framework of the PRIMARE project.	AMTEGA-1	UTE: SERESCO-PROYESTEGAL-GRADIANT	€ 1,042,011.
Development and demonstration phase of a georeferenced information management system for the control of agricultural activity in Galicia within the framework of the PRIMARE project.	AMTEGA-2	UTE: SERESCO-PROYESTEGAL-GRADIANT	€ 1,472,550.
Development and demonstration phase of an expert system for automated and smart control of agricultural activity associated with the Common Agricultural Policy (CAP) aid, within the framework of the PRIMARE project.	AMTEGA-3	UTE: SERESCO-PROYESTEGAL-GRADIANT	€ 772,062.

* Total contribution (Xunta+participating entity), including VAT.

Infrastructures program (projects)	
Name	Total budget
CIAR	€ 10,900,000.
The Technological and Industrial Park	€ 2,500,000.

*Co-financed by MINECO (€ 8,000,000), GAIN (€ 1,300,000), IGAPE (€ 1,300,000) and INTA (€ 300,000).

** Estimated value in development investment (funded by GAIN).

Entrepreneurship Program (BFAero approved projects 1st call)		
Description	Name	Phase
Integrated system (hardware and software) for optical and thermographic data collection of operating wind turbines (without stopping), using laser technology	GeneraDron	Incubation
Production of electrical energy through Hydrogen fuel cells for UAVs and USVs	H2 Dron Energy Galicia	
Development of systems for non-destructive measurements and inspections with active (radars) and passive (antennas) sensors in radio frequency bands	RadioUAV. Beyond the visible applications	
Optimised design and additive manufacture of UAV structural parts in order to reduce weight and increase flight autonomy	LUPEON	Acceleration
A versatile, functional and very efficient drone. Vertical take-off aircraft up to 5 times more autonomy and range than any multicopter	VTOL aircraft from UAVWorks	
Development of a data analysis platform to integrate the Advanced features based on ADS-B technology	ADS-B Data-Analytics Platform	