



# Information Society Department



## Canary Islands Institute of Technology (ITC)



Technology and Innovation for a Sustainable Development



INSTITUTO TECNOLÓGICO  
DE CANARIAS



Gobierno  
de Canarias



It was created in response to the **growing needs of the Canary Islands Government and the ITC itself**, to articulate projects and initiatives in the field of telecommunications that favour the structuring of the territory.

It serves sectors with **technological demands** in the fields of drone operations, deployment of sensor networks, manufacturing of specific electronic prototypes, as well as 3D modelling

Instrument for the development of **public policies for the promotion of the Information Society** in the Canary Islands.



**Background**

Established in **2006**

Team with **training and experience** in the field of information technology and telecommunications

Lines of work contributing to the **digital transformation** of Canary society

**Technical Support Office** of the Canary Islands Agency for Research, Innovation and the Information Society (ACIISI)

Budget **2021**: € 0,5 M

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2006 **Development of the Avanza Canarias Plan: broadband expansion and improvement of digital skills in citizens, companies and administrations**



ITC supports the ACIISI Action Program in the area of Telecommunications and the Information Society, to promote the broadband expansion in the Canary Islands (incl. monitoring)

2008 **Deployment and exploitation of the Digital Television Extension Network**



The main scope of this action, in which the ITC supports the ACIISI, is the management and maintenance of the DTT extension network, which seeks to complement the coverage obligations of the television networks, which are insufficient to match digital with analog coverage

# Milestones

**Registration as a drone operator for research activities and instrumental reconnaissance**

Registration this year as a drone operator for research and development activities, as well as for instrumental control, positions ITC at the forefront at the regional level in the use of drones for scientific purposes

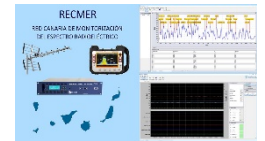
2017



**Design, deployment and operation of the Canary Islands Radio Spectrum Monitoring Network**

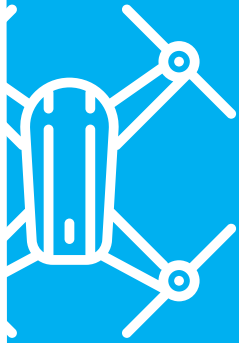
The main scope of this line is focused on monitoring the status and use of the radio spectrum in the Canary Islands, with special monitoring of DTT, FM and mobile telephony services. In this action, ITC has been providing technical support to ACIISI since 2010.

2010





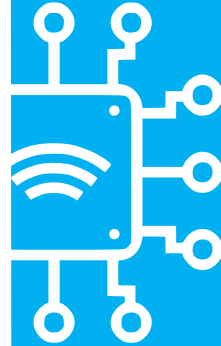
# Technological Services



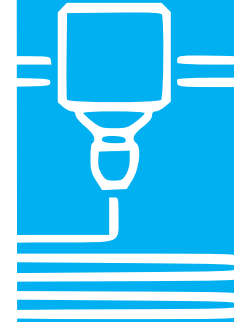
Flight operations with **drones** for research and recognition of technological infrastructures



Design and manufacture of **electronic prototypes** on demand



Deployment of **IoT networks**

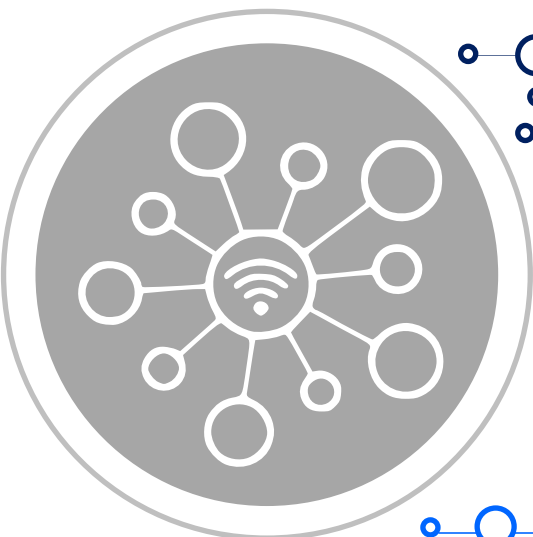


**3D modeling** and printing and 360° recordings



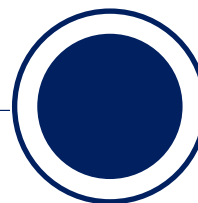
Development of **training programs** in Digital Competences

# Projects



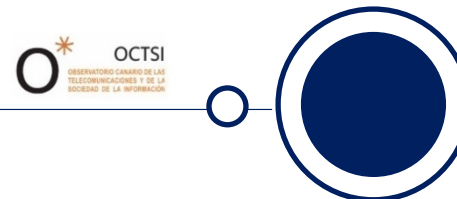
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## ACIISI Technical Support Office



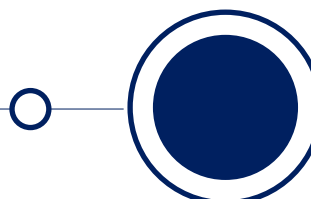
### Advice on support policies for the development of the IS

Support in the development of funding calls related to broadband, digital transformation and digital skills



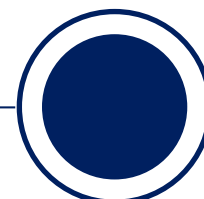
### Canary Observatory of Telecommunications and the Information Society

Elaboration of studies (e-Canarias, Broadband and Electronic Commerce). Daily publication of the Regional Telecommunications and IS Newsletter. Maintenance of the Scorecard of Information Society indicators



### Infrastructures and IS services

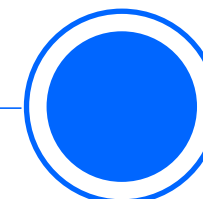
Monitoring of the deployment and quality of service in broadband and IS services (DTT). Generation of control panels to monitor calls as well as informative content of ACIISI actions in the field of IS



### Monitoring of SI Services

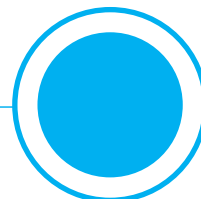
24/7 radio spectrum monitoring of DTT and FM demarcations. Generation of periodic and specific reports for both services. Characterization of stations using drones

## Technological Dissemination (ACIISI)



### CODECAN programme

Promotion of Digital Skills in the Canary Islands through workshops in the fields of electronics, video game programming, 3D printing, VR, AI and audiovisual as well as awareness-raising workshops.



### Limeton Project

Updating of the electronic and multimedia system of the "Gesta 25 de julio de 1797" model (Museo Histórico Militar de Canarias)



# Challenges



Expansion of the frameworks for **drone operations** in the field of R&D&I, both spatial and technical, in strategic sectors of our economy



Boosting the functional capabilities of **Internet of Things** systems under open models



New disciplines of interest within the **Promotion of Digital Competences** in the Canary Islands.



Expansion of **Artificial Intelligence** to the different lines of the department; in particular, to that associated with the deployment of sensor networks



Design and development of **monitoring systems for telecommunications services**



**Improved 3D modelling and printing capabilities**, with the incorporation of three-dimensional scanning systems.



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