



Kythira Island

Becoming Smart(er) and (more) Sustainable

Δημος Κυθήρων

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LAG of Attica Islands

LAG of Attica Islands

- ▶ Founded in 2016
- ▶ Network of the 8 municipalities of Regional Unit of Attica islands:
 - ▶ Salamina
 - ▶ Agistri
 - ▶ Aegina
 - ▶ Trizinia
 - ▶ Poros
 - ▶ Hydra
 - ▶ Spetses
 - ▶ Kythera
 - ▶ and 11 local associations and groups
- ▶ Enhances the co-operation among Municipalities, develops local and regional strategies, supports development actions
- ▶ Manages the CLLD/Leader Program 2014–2020 with 7,400,000 € budget



Municipality of Kythera

- ▶ Belongs to Region of Attica (Regional Unit of Attica Islands)
- ▶ Consists of two islands:
 - ▶ Kythera (278 km², 17th largest in Greece), known also as “Cerigo”
 - ▶ Antikythera (20.43 km²), world known for the “Antikythera Mechanism”
- ▶ Has a Population of 4.041 people:
 - ▶ 0–14 : 532 (14.1%)
 - ▶ 15–65 : 2.119 (64,3%)
 - ▶ 65+ : 990 (21.7%)
 - ▶ But just ~25 in Antikythera!
- ▶ Exist of 56 inhabited settlements, ranging from a few to a few hundreds of citizens
- ▶ Economy based on Primary Sector (Agriculture & Fishing) and Tourism



Major challenges

- ▶ Ageing population and migration of young people
 - ▶ The youth leaves for educational (Universities, colleges etc) and work opportunities
 - ▶ The elderly return after their retirement
- ▶ Connection to mainland, cost of transport and lack of internal transportation
 - ▶ From October to May, connection is scarce
 - ▶ There is no public transport system on the island
- ▶ Limited educational facilities
 - ▶ Although all basic facilities exist (from Pre-school to High School), there is lack of afterschool activities (like music, sports, dance, STEM etc)
- ▶ Decreasing quality of water resources
 - ▶ High consumption of the limited water resources leads to quality and quantity issues of drinking water



Assets

- ▶ Unspoiled natural environment
 - ▶ Combines mountainous and forested areas with beautiful beaches
- ▶ Cultural Heritage
 - ▶ Monuments from all historical periods (from Ancient Greece and Byzantine to Venice Republic and British Empire)
 - ▶ Significant religion monuments
- ▶ Sufficient public infrastructure
 - ▶ A new small hospital with doctors of all major specialties
 - ▶ Airport and port facilities
 - ▶ Good road network
 - ▶ Good broadband network
- ▶ High quality local products
 - ▶ Natural salt, honey, olive oil, wine
- ▶ Active local community
 - ▶ Many associations and organizations assist voluntarily in the development of the island



Planning

We prepare short & medium term strategies in order to be ready to look for available funding

- ▶ Sustainable Energy Action Plan
Describes the existing energy status and proposes specific projects actions to reduce energy consumption and increase energy efficiency
- ▶ Sustainable Urban Mobility Plan
Aims to create a sustainable urban transport system that ensures access to jobs and services for all while it reduces pollution and energy consumption
- ▶ Water Resources Management Plan
Maps the current situation and proposes projects and actions that will cover the water needs of the island in the short, medium and long term



Getting Smarter

We believe that we already do some smart things but we constantly look around for new ideas

- ▶ Smart Villages Leader Network
Participation –through LAG of Attica Islands–
in the TNC Project for exchange of good
practices and experiences
- ▶ Preparatory Action on Smart Rural Areas in the
21st Century
Kythera is one of the five preselected villages
that are assisted from experts in various fields
to develop and implement its own smart
village strategy



PREPARATORY ACTION ON
Smart Rural Areas
in the 21st Century



Remote Monitoring and Management of Water System

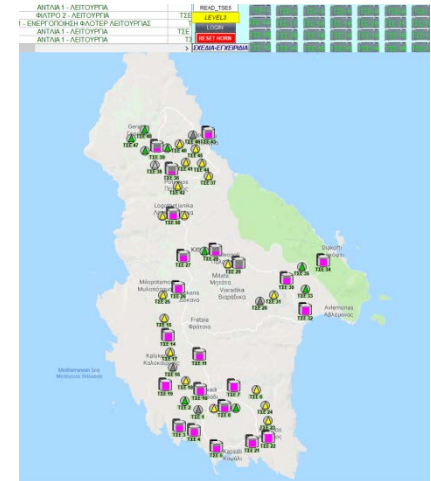
The need: Drinking water is provided through boreholes and springs (>60) with pumps through a quite old distribution network which causes quality & quantity problems

The Solution: Use of ICT technologies and specialized equipment to monitor remotely the quality and quantity and to locate malfunctions and reduce losses.

- ▶ Level of available water in tanks
- ▶ Pressure in pipelines
- ▶ Quality characteristics of water in tanks
- ▶ Automated actions and Alerts
- ▶ Remote control of facilities
- ▶ Control Room and Web Access to system

Expected Results:

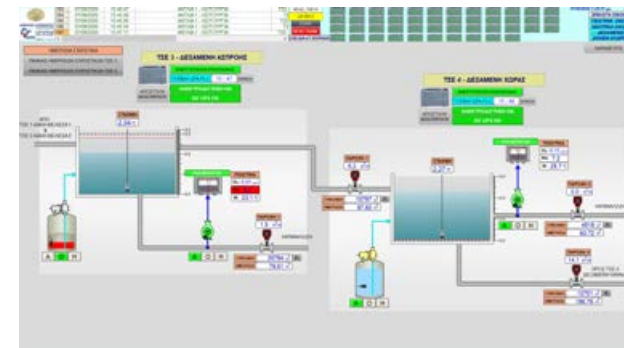
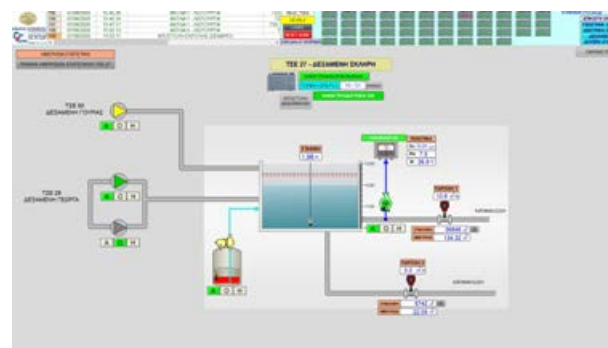
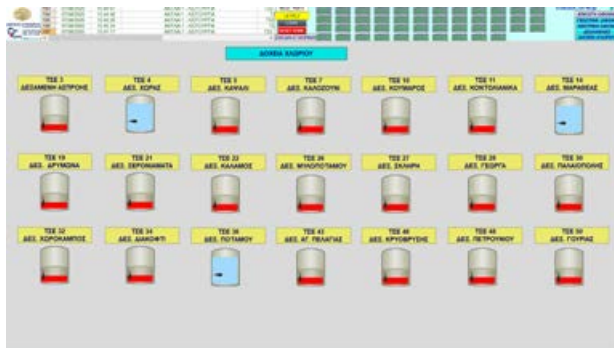
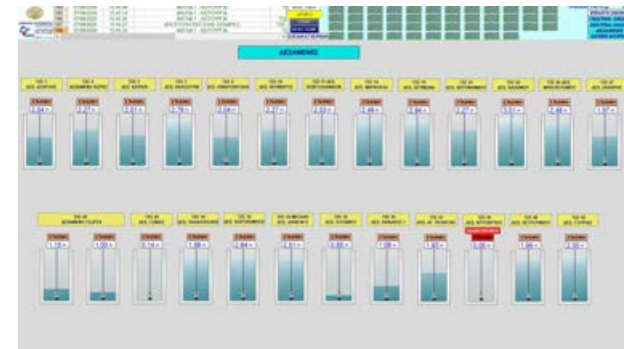
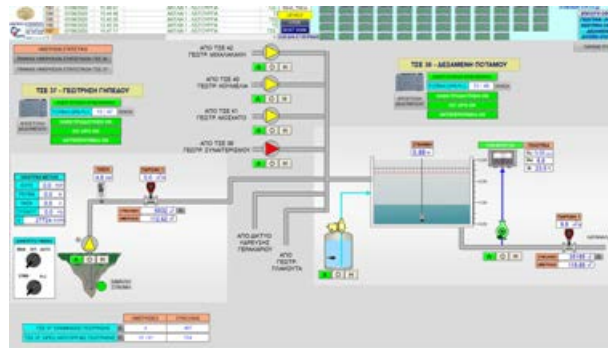
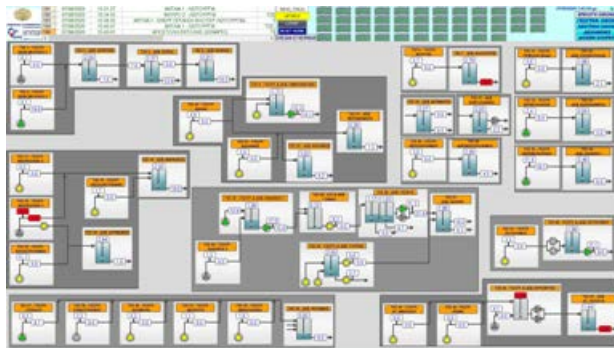
- ▶ Sufficient and steady supply of high quality water
- ▶ Less lost water due to infrastructure faults



Remote Monitoring and Management of Water System

Budget: € 1.891.576,60

Source of Funding: Regional Operational Programme Attica 2020, co-funded by European Structural and Investments Funds



Next Steps:

Digital meters in all households for constant remote access to consumption.

Budget: 1.750.000. Signed a few days ago!

Kythera Trails



The idea: Use of old paths around the island as a mean of tourist attraction

The Solution: Development of an integrated trail network by cleaning and signalling old paths with focus on the protection of the natural and cultural heritage of the island

- ▶ 2010–2014: 8 trails, 32.6km
- ▶ 2015–2019: 12 trails, 100km
- ▶ 2020–2021: >16 trails, 150km (target)
- ▶ 2021–2022: Addition of mountain bike trails

Results:

- ▶ Extension of tourist season
- ▶ Employment opportunities for the young (e.g. guides)

➡ Project is supported and implemented by the Kytherian Foundation for Culture and Development



Kythera Trails



WINTER SUNDAY
WALKS



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Green Flag Trails
Auditor



KYTHERA ISLAND
GREECE
4 - 11 October 2019

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Thank you for your attention