



# ***Feasibility study for exploitation of 5G networks in the Municipality of Egaleo***

**Municipality of Egaleo**

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## Municipality of Egaleo Profile

- The City of Egaleo is situated at the west region of Athens
- Is one of the oldest municipalities in Greece
- City of Egaleo has been built at both sides of the ancient road “*Iera Odos*”
- The city is inhabited by approximately 120.000 people
- Employees: 500 people
- Area: 6,45 km<sup>2</sup>
- Economical budget: 100m Euros
- One university ([www.uniwa.gr](http://www.uniwa.gr))
- Three metro stations
- Urban city
- “*Elaionas*” region



# Municipality of Egaleo European Projects

➤ Horizon 2020 / 5G ESSENCE 

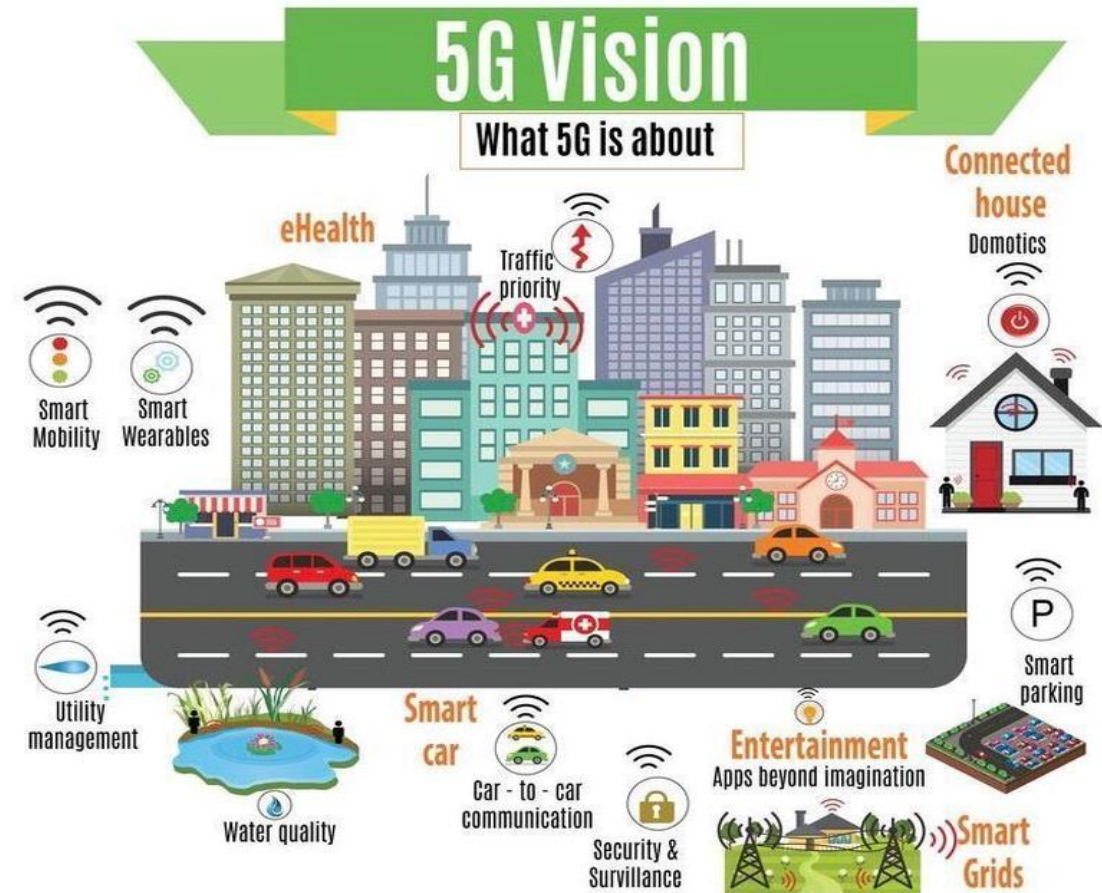
➤ Horizon 2020 / 5GENESIS 

➤ Horizon 2020 / 5G!Drones 

➤ Horizon 2020 / RESPOND-A 

➤ Easi-Progress Three steps to finding a job

➤ Erasmus+ / Q-SER 





# Transformation of the Municipality of Egaleo into a smart city via 5G

## Main categories of interventions via 5G:

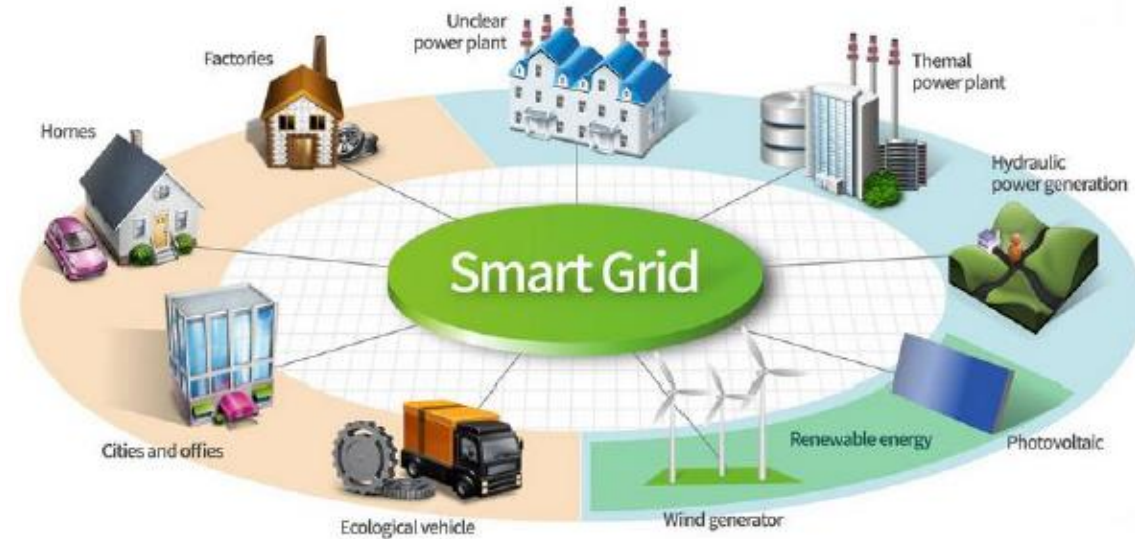
- Smart Infrastructure
- Smart Economy
- Smart Living



# Smart Infrastructure via 5G

## IoT infrastructure

- Lighting
- Congestion
- Air quality
- Noise levels
- Waste management
- Energy consumption
- Water management
- Fleet monitoring





# Smart Economy via 5G

## Upgrading and managing the urban environment

- Infrastructure status monitoring
- Automated procedures
- Interfacing with the local community
- Air and water quality monitoring
- Power consumption management
- Measurement of meteorological parameters
- Waste management



# Smart Economy via 5G

## Analysis and management of tourist and cultural flows

- Processing large data for the tourism sector
- Digital tools to analyze profile and visitor behavior

## Integrated destination management system

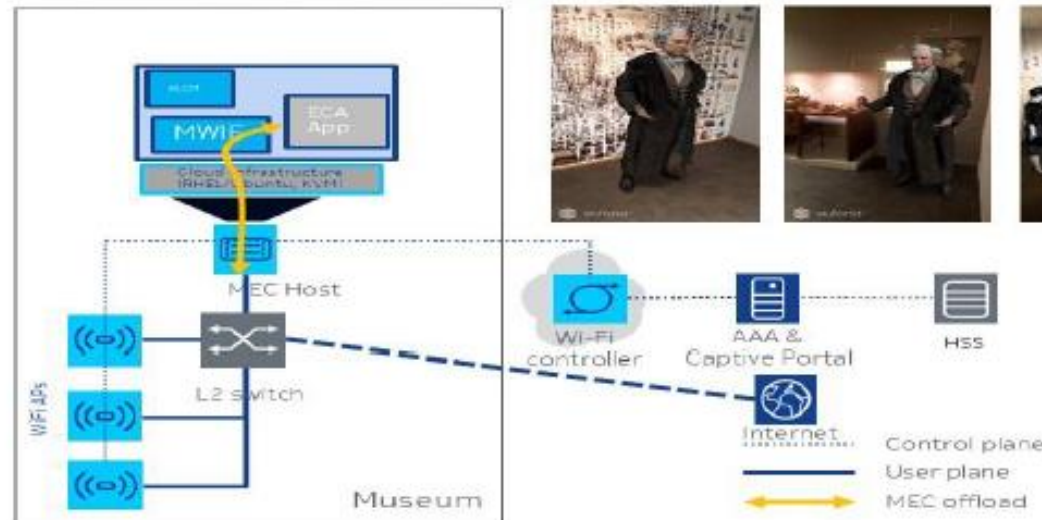
- City of Egaleo to be a tourist, cultural and business destination with services for visitors



# Smart Economy via 5G

## Digitizing cultural heritage records & virtual tours with AR

- Digitization of cultural heritage material
- Managing the digital cultural stock of the city
- “*Digital Library*” for the historical archive and the municipal library
- Virtual tour applications with AR for experiential participation in the museums of City of Egaleo and the historical road of “*Iera Odos*”





# Smart Living via 5G

## Smart lighting and smart waste management

- Interconnection between network devices with low energy communications infrastructure (eg NB-IoT)
- An integrated intelligent city management platform

## Intelligent electronic platform for smart and friendly open governance and smart city guidance

- Platform for enhancing the communication of the municipality and citizens
- Integration of e-services for citizens at a single point
- Developing applications for:
  - Everyday life
  - Electronic payments
  - Personalized notification via smart alerts



# Smart Living via 5G

## Large-scale urban data management

- Platform for processing, analyzing and distributing large-scale urban data
- Digital tools for extracting conclusions and decision-making systems with different criteria (economic, social, energy, etc.)

## Smart city coordination center

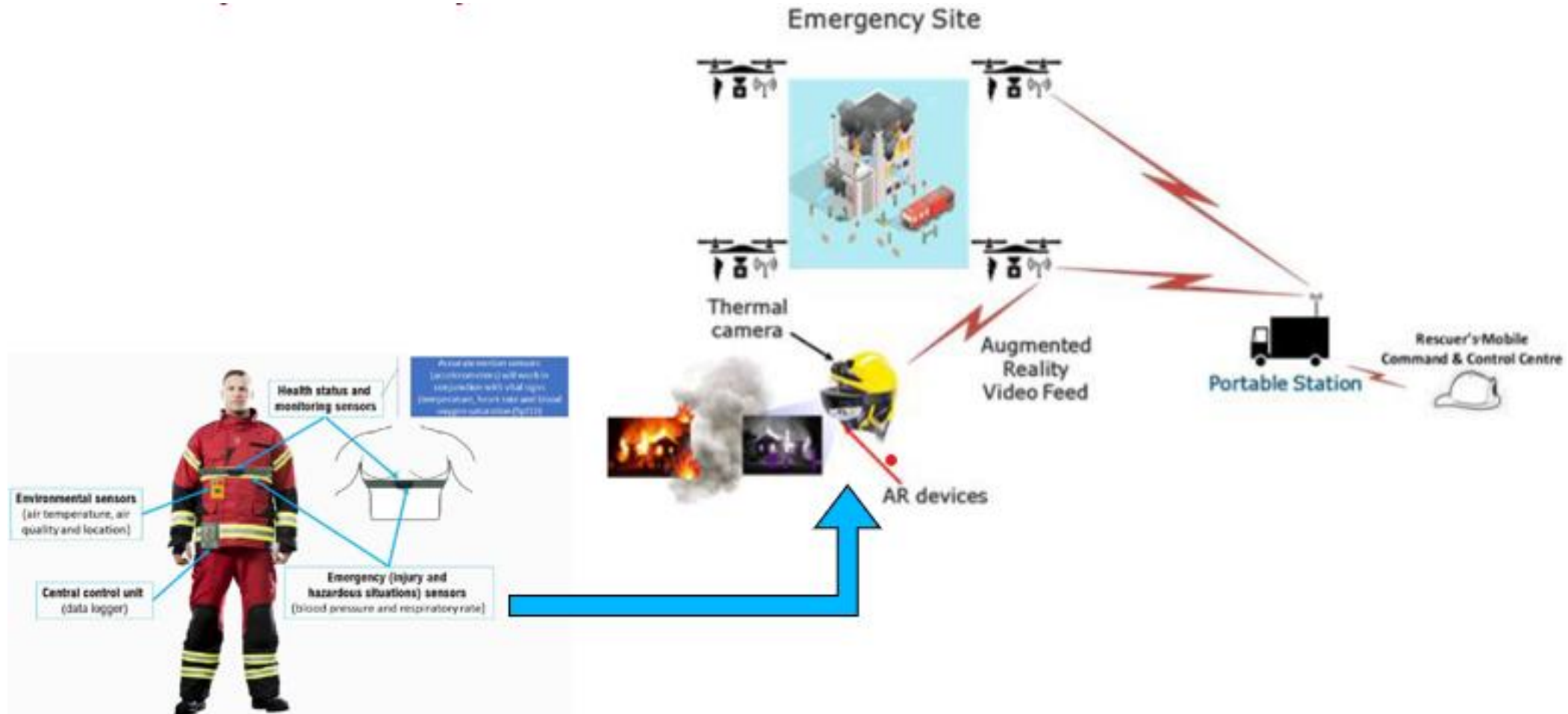
- Development of a smart city coordination center



# Smart Living via 5G

## Civil protection

### ➤ Tools and equipment for natural disasters







Thank you!

[www.aigaleo.gr](http://www.aigaleo.gr)