

## Azienda Sanitaria Locale Benevento



AZIENDA SANITARIA LOCALE  
**BENEVENTO**

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## iProcureSecurity PCP

Pre-Commercial Procurement  
of Innovative Triage Management Systems  
Strengthening Resilience and Interoperability  
of Emergency Medical Services





# Partenariato Europeo e Gruppo di Lavoro ASL BN

Programme Horizon 2020

Call Security (H2020-SU-SEC-2020)

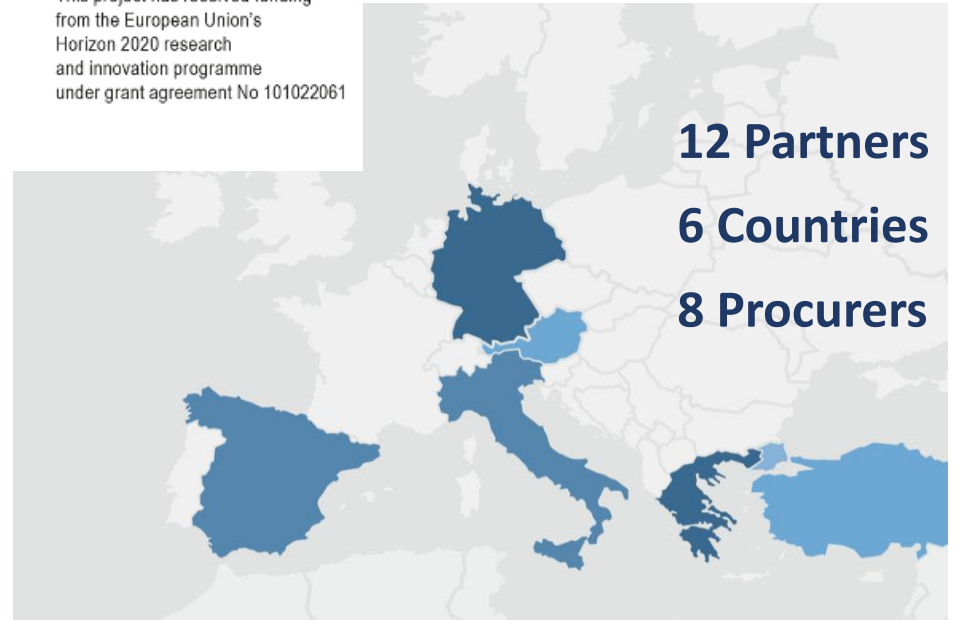
Topic Sub-topic 2: [2020] Procurement of prototype systems among those specified as a result of Sub-topic 1

Type Pre-Commercial Procurement (PCP)

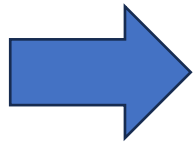
Duration 01/09/2021 - 31/08/2024



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12 Partners  
6 Countries  
8 Procurers















## Gruppo di lavoro ASLBN:

- Angela Mancini
- Sonia Iasiello
- Pasquale Lombardi
- Ciriaco Pedicini
- Alberto Lombardi



associazione italiana ingegneri clinici

<p><b>SYNYO GmbH</b> 1</p> <p>Coordinator Vienna   Austria</p> 	<p><b>ANDALUSIAN PUBLIC COMPANY FOR HEALTH EMERGENCIES</b> 2</p> <p>Andalusia   Spain</p> 	<p><b>SERVICIO MADRILEÑO DE SALUD</b> 3</p> <p>Madrid   Spain</p> 	<p><b>AUSTRIAN RED CROSS</b> 4</p> <p>Vienna   Austria</p> 
<p><b>AZIENDA REGIONALE EMERGENZA URGENZA</b> 5</p> <p>Milan   Italy</p> 	<p><b>AZIENDA SANITARIA LOCALE ASL BENEVENTO</b> 6</p> <p>Benevento   Italy</p> 	<p><b>HELLENIC RED CROSS</b> 7</p> <p>Athen   Greece</p> 	<p><b>HELLENIC NATIONAL CENTRE FOR EMERGENCY CARE</b> 8</p> <p>Ioannina   Greece</p> 
<p><b>IZMIR MUNICIPALITY</b> 9</p> <p>Izmir   Turkey</p> 	<p><b>AMBULANCE AND EMERGENCY PHYSICIANS ASSOCIATION</b> 10</p> <p>Izmir   Turkey</p> 	<p><b>KEMEA</b> 11</p> <p>Athen   Greece</p> 	<p><b>EMPIRICA GmbH</b> 12</p> <p>Bonn   Germany</p> 

## Obiettivi e Sfide del Progetto

### TRIAGE MANAGEMENT

Improve triage scenarios through a flexible triage management system that provides:



- quick and accurate overview of casualties and their status
- decision support for better allocation of available resources and quicker support for casualties
- improved interoperability with other first responders and relevant actors
- reduced handover times between ambulance transport and hospitals, and
- insights for quality assurance and training measures.



#### Wearables

- Provide vital data of patients or EMS staff
- Provide automatic alerts on changes of vital data or environmental changes



#### Advanced Sensors and Materials

- Alert changes of vital signs of patients or EMS staff
- Improving EMS staff safety while not hindering them during treatment of patient



#### Artificial Intelligence and Machine Learning

- Provide automatically new insights and decision support on the environment as well as for diagnosis, treatment or triage



#### Blockchain/Cryptography

- Improve cyber security of all connected systems
- Secure sensitive personal data



#### Big data analytics

- Quick analysis of vast amount of data to get new insights on environment, diagnosis or treatment



#### Advanced Communication Technologies/5G

- More bandwidth to ensure vast amounts of data can be transferred immediately
- Decreased service interruptions and increased data security
- Additional information which is automatically annotated to the channel



#### Unmanned Automatic Vehicles / Drones

- Rapid delivery of equipment or supplies
- Surveillance of dangerous areas to increase safety and situational awareness



#### Virtual Reality / Augmented Reality / Mixed Reality

- Train more realistic and complex scenarios
- Reduce costs for complex trainings



#### Telemedicine

- Provides remotely support of experts
- Exchange of vital data and patient history



#### Improved LOCs (Lab on a Chip)

- Rapid and precise detection of diseases



#### 3D printing

- On demand creation of relevant supplies



10

Priority Areas  
for R&I in EMS



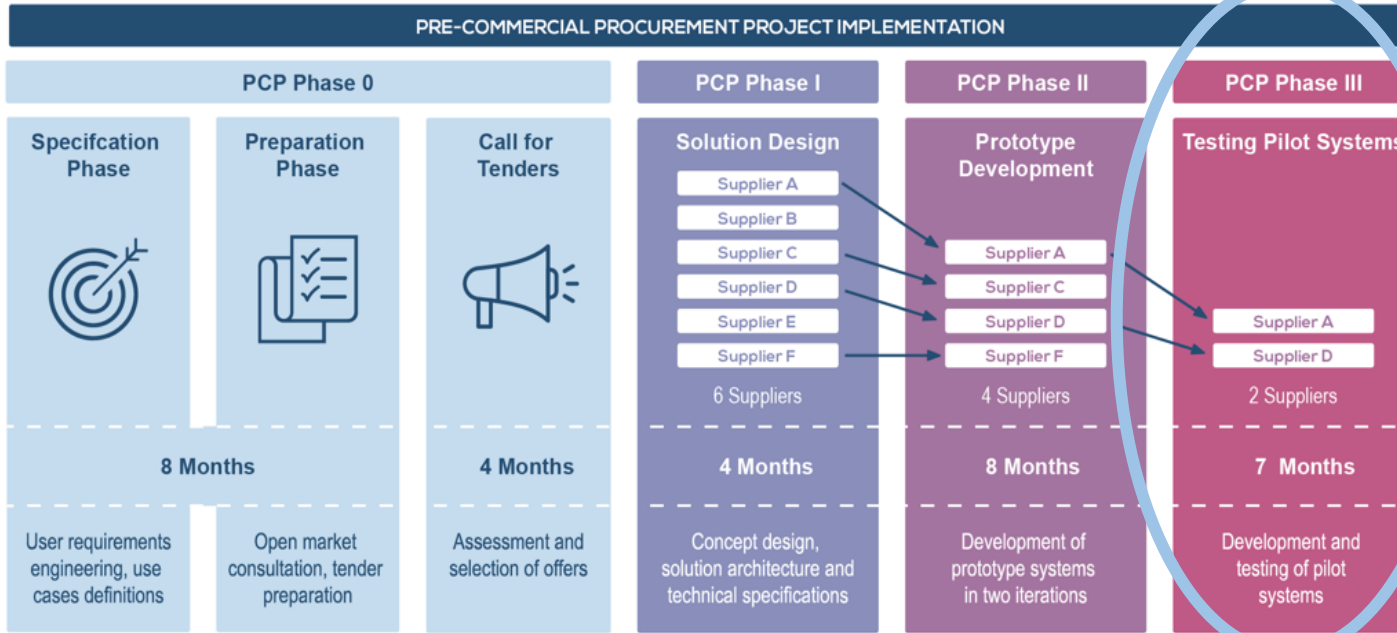
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Needs

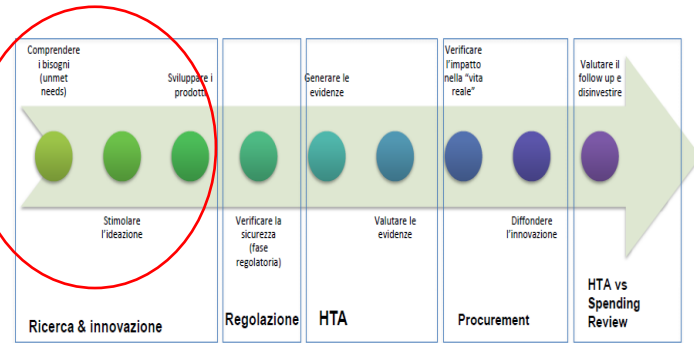


11 Technological fields

# Metodologia II Pre-Commercial Procurement



**N. 2 Awarded Suppliers**



- Needs' definitions
- Stakeholders needs' mapping
- Market analysis & collection of the state-of-the-art
- Identification and validation of requirements

Requirements Identification

Use Cases

- Identification of use cases
- Delineation of key functionalities, based on the requirements

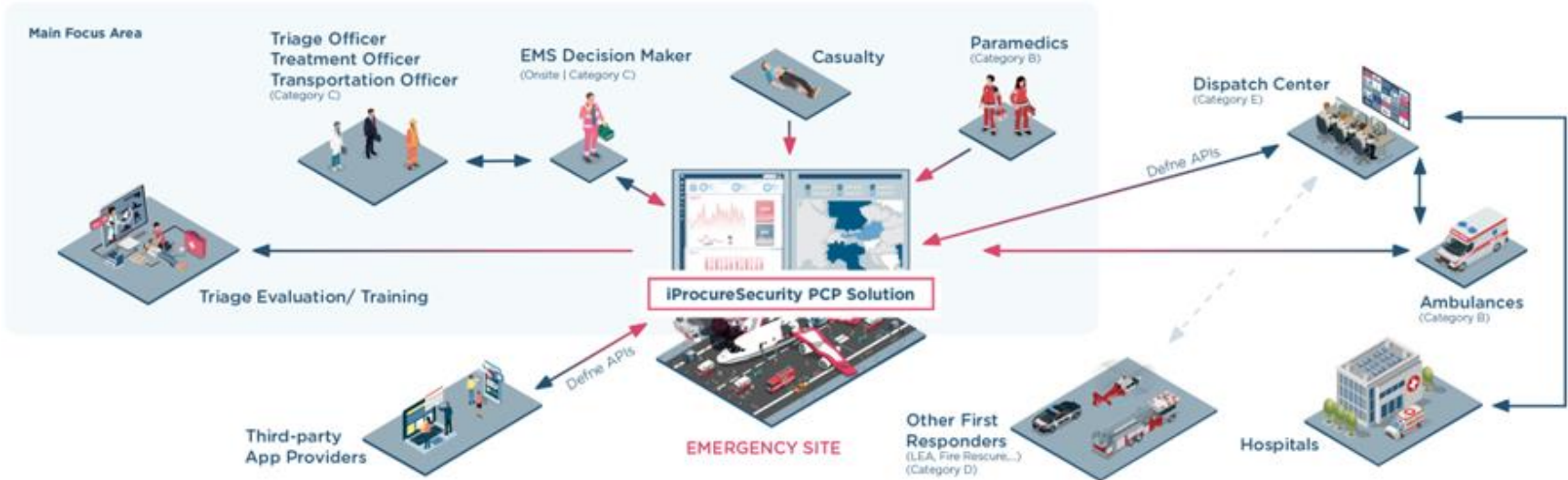
- Identification of process models, based on the use cases
- Identification of technical infrastructure
- Visualisation of the technical processes

Process Models

Visualisation of Processes

Call for Tender

# Lo scenario e le soluzioni di triage management



## Esempio di soluzione Il modello ENSURE

