

Project acronym - Project title

NEWS - Nearshore hazard monitoring and Early Warning System

Programme Priority Axis	3 Protecting the environment and fostering an efficient use of resources		
Program Investment Priority	5b) Promoting investments targeting specific risks, thereby ensuring resilience in case of natural disasters and emergency management systems		
Investment Priority Specific Object		3.2 To promote systemic actions and technologies able to mitigate the climate change effects and the natural and anthropic risks with a particular reference to the catastrophic from the maritime risks	
Project Lead Partner			
Università degli Studi di Enna "Kore" Facoltà di Ingegneria e Architettura/Laboratorio di Geotecnica e Dinamica dei terreni			
Project Partners			
Partner 2	Università degli Studi di Catania Dipartimento di Ingegneria Civile e Architettura		
Partner 3	University of Malta Faculty of Science/ Department of Geosciences		
Partner 4	Libero Consorzio Comunale di Ragusa - Settore VI - Ambiente e Geologia		
Project duration (months)	Start date	End date	
42	01.03.2018	27.08.2021	
Project summary			
<p>NEWS addresses the problem of mitigating the sea risks caused by erosion and due to both natural and anthropic factors that lead to the cliffs collapse, to localized erosive phenomena and to possible floods.</p> <p>The project carries out an integrated system of monitoring and adaptation to the risks coming from the sea, with the aim of indicating to the population with adequate advance the possibility of flooding, erosion of sandy shores and collapse of cliffs and to activate safeguard measures to avoid damage to the people.</p> <p>Through the installation of a network of metric wave buoys it will be possible to obtain, in real time, the parameters of the wave motion on a Sicily Channel marine area of 5,000 sq. kilometres which will be subsequently integrated with the radar data provided by the project Calypso South in order to calibrate prediction models.</p> <p>The data will flow into a control centre for the integrated management of risks related to catastrophes from the sea.</p> <p>The project also includes an <i>early warning</i> system for the coastal populations living along the identified areas (the Granelli-Pachino coastline, Selmun-Malta locality, Santa Maria del Focallo-Ispica back standing coast) which is activated when a concrete sea storms risk harmful to the population and recreational tourists and covering an area of 70 sq. kms. could occur</p>			
Project result			
5000 Sq Kms of coastal area covered by an integrated monitoring system for the reduction of natural risks linked to the wave motion action and its effects on the coasts			
Project outputs			
<ul style="list-style-type: none"> ✓1 Network of wavemeter buoy for the wave motion monitoring ✓1 Network for the areal monitoring constituted by Radar HF SeaSonde stations for surface mainstream monitoring ✓1 coastal monitoring system composed of a Drone equipped with LIDAR, HD camera and GPS system 	<ul style="list-style-type: none"> ✓5.000 sq. kms area covered by an alert informatic system, emergency intervention and assistance to the population ✓1 Informative app on the usability of the coastal sections and of the Sicilian Channel ✓70 sq. kms of area covered by monitoring systems, early warning and catastrophes from the sea risk adaptation 		
Budget	ERDF Contribution	National Contribution	Additional Co-Financing
€ 1.309.344	€ 1.112.943	€ 196.401	€ 0
Contacts	Social Media	Web Site	
presidente@unikore.it	facebook.com/News-Project-118557679534401/	https://news-project.eu/	