



ETT Booklet
Smart City Solutions
Piattaforme supporto decisionale

PARTNERS

- CNR - ISMAR
- ETT
- IFREMER
- ACRI
- SERCO
- LASERROMAE
- T-SYSTEM
- INNUERE Consulting

CMEMS DU Copernicus Marine Service

The deployment unit is the central hub of the Copernicus marine infrastructure. Its cloud architecture, developed according to the latest standards of security, reliability and IT performance, allows managing a catalog of more than 600 operational products, transforming satellite observations into services that meet the users' needs in the marine/maritime sector. In addition, the infrastructure integrates various tools and services that monitor and improve service delivery performance.



**Reliability
and security
in a cloud
catalogue**

OUR SERVICES

Big Data Collection
Big Data Analysis
Software Development

TECHNOLOGIES

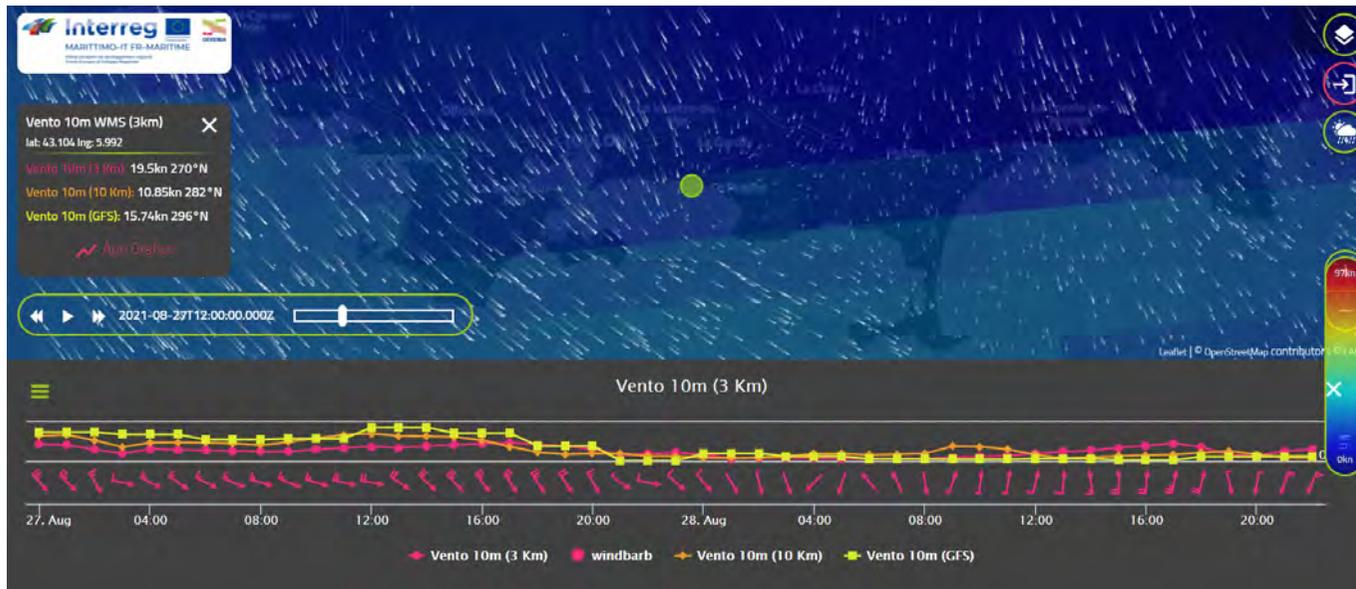
Virtual Reality

Geremia

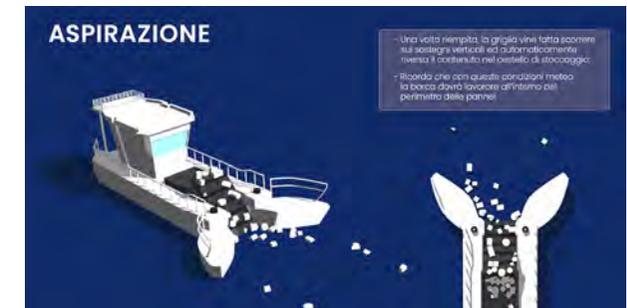
ETT Research & Development

The GEREMIA project - GEstione dei REflui per il MIGlioramento delle Acque Portuali - uses practical and innovative tools and solutions to train and support port water managers in the cross-border area between Italy and France.

Leveraging a Decision Support System (DSS) developed by ETT, data and resources are exploited to help prevent and contain pollution, improve port water quality and develop innovative systems for water quality assessment in the four ports of Toulon, Genoa, La Spezia and Olbia.



GEREMIA leverages a Decision Support System (DSS) created from port requirements, as well as from monitoring and simulation models.



SERVICES

ICT
Artificial Intelligence
Big Data
Data Analysis
Mobile App

PARTNERS

COM
COING
TRAIN Consortium
DIGIMAT
ENEA
LUXANT
PLASTICFORM
Università della Basilicata

MOBAS 4.0

Smart Mobility, Social Inclusion

The overall objective of MOBAS 4.0 is to develop new technological solutions related to the Automotive sector. These solutions aim to improve public and private sustainable mobility services from a shared perspective and in support of disability, thus creating the conditions for stronger competitiveness of the Basilicata Region's production system.



SERVICES

ICT
Big Data
DSS

PARTNERS

TRAIN Consortium
ENEA
INASA
Università della Basilicata
Città di Matera

VI.C.IN.A.TO Smart CH Building

The objective of the project is to implement a Decision Support System (DSS) capable of collecting, monitoring and processing, using specific algorithms, the energy consumption data of public and private buildings in the Sassi district in Matera, also known for the presence of cultural, environmental and landscape constraints. Through the DSS platform, energy efficiency solutions have been implemented to achieve the energy self-sustainability of historic buildings.



OUR SERVICES

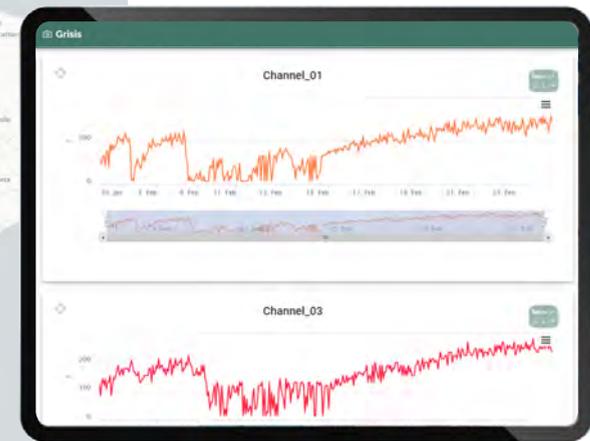
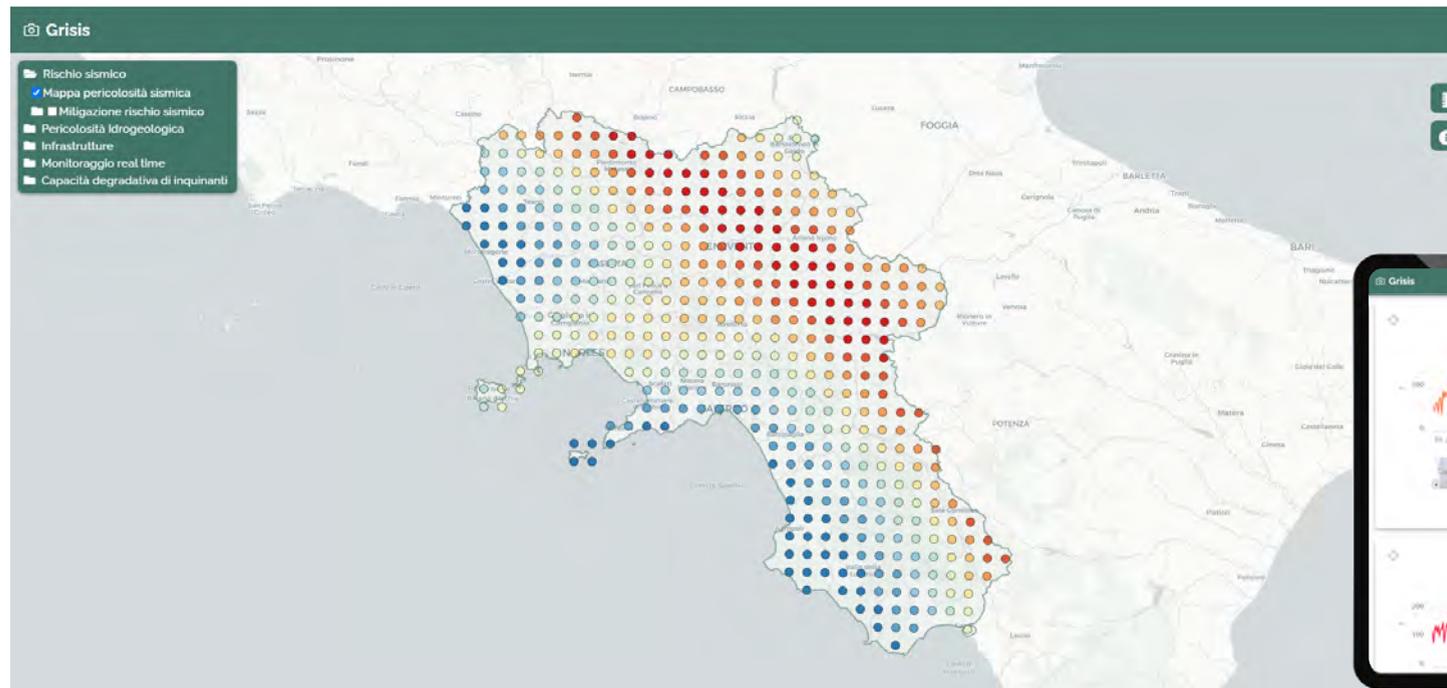
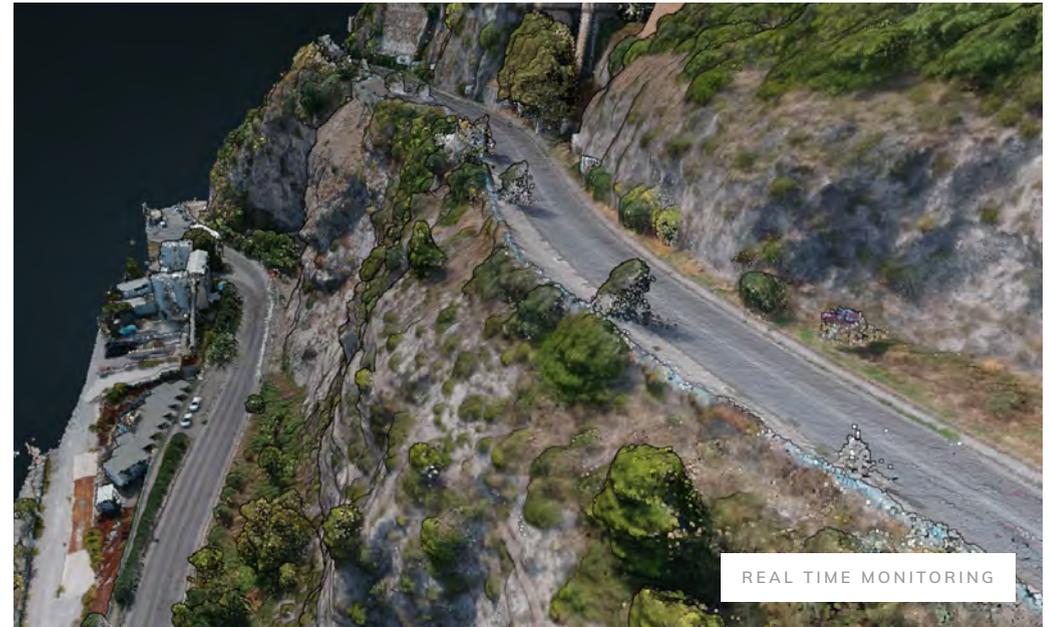
Software Development
Big Data
Data Analysis
Risk Assessment

PARTNER

University of Naples F. II
GENEGIS Italy SRL
TECNOIN SPA.
TECNOSISTEM SPA
ITC-CNR
TRE Consortium

Grisis Risk and Safety Management For Infrastructures

GRISIS – Regional Risk and Safety Management for Infrastructures: development of methods, techniques and procedures for risk assessment and the management of safety and large-scale civil infrastructures and goods and services network.



OUR SERVICES

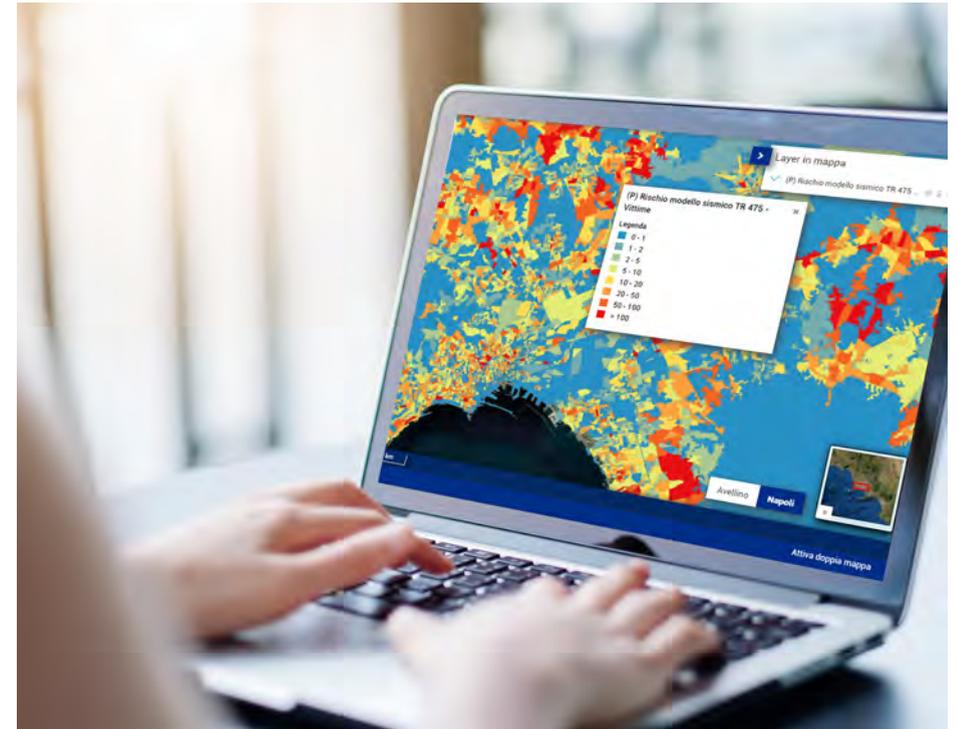
Big Data Collection
Big Data Analysis
Software Development

PARTNER

STRESS Consortium
GENEGIS Italy SRL

Planner Natural Risks in Urbanized Environments

This project includes computerised tools to support decision making, integrating the geo-spatial characteristics of the urban environment, such as: the environmental characteristics of the area being studied (morphology, geology,...), the characteristics of building assets (types of construction, period of construction, maintenance) and the characteristics of the social and economic context. The system has integrated tools to assess seismic and hydro-geological risk scenarios, as well as heatwaves, etc.



WebGIS for urban scenario planning and management



OUR SERVICES

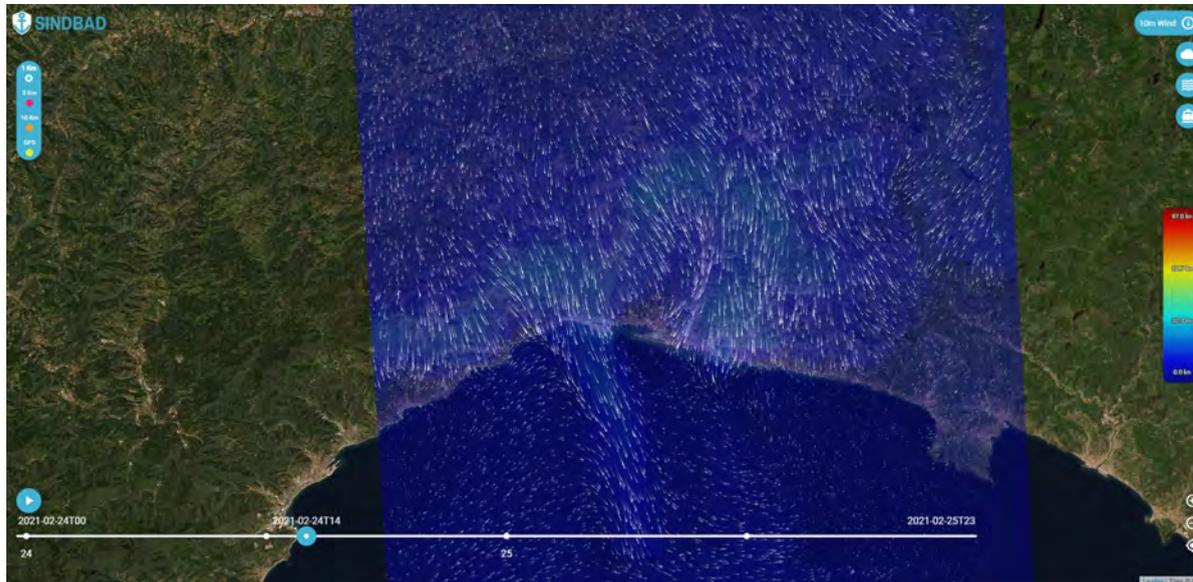
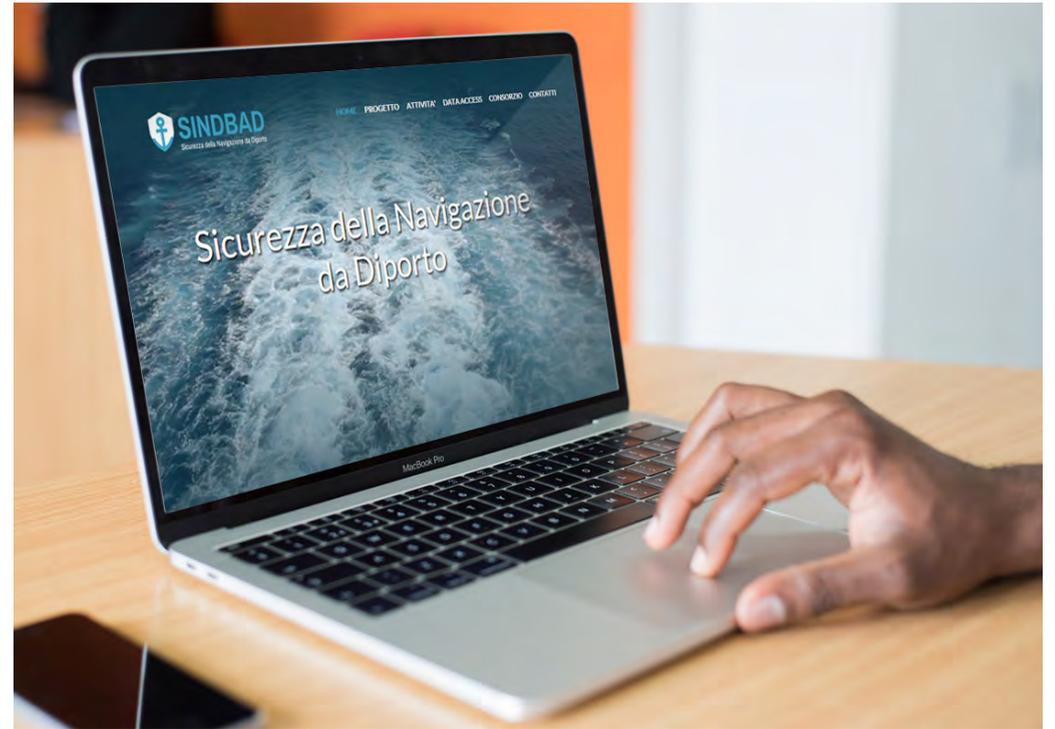
Big Data Collection
Big Data Analysis
Software Development

PARTNER

ON AIR s.r.l.
Xedum s.r.l.
PM TEN s.r.l.

Sindbad Sailing Safety and Services

SINDBAD is an advanced operational service that works to support pleasure cruising and accessible tourist navigation in mobility. Innovative functions offer forecasting data (weather and sea) with maximum resolution on the Ligurian Sea. It also integrates new tools such as maps with nausea indices and the comparison of forecasts among different models. www.sindbad-liguria.it



Comfort and safety for sailing in the Ligurian Sea



OUR SERVICES

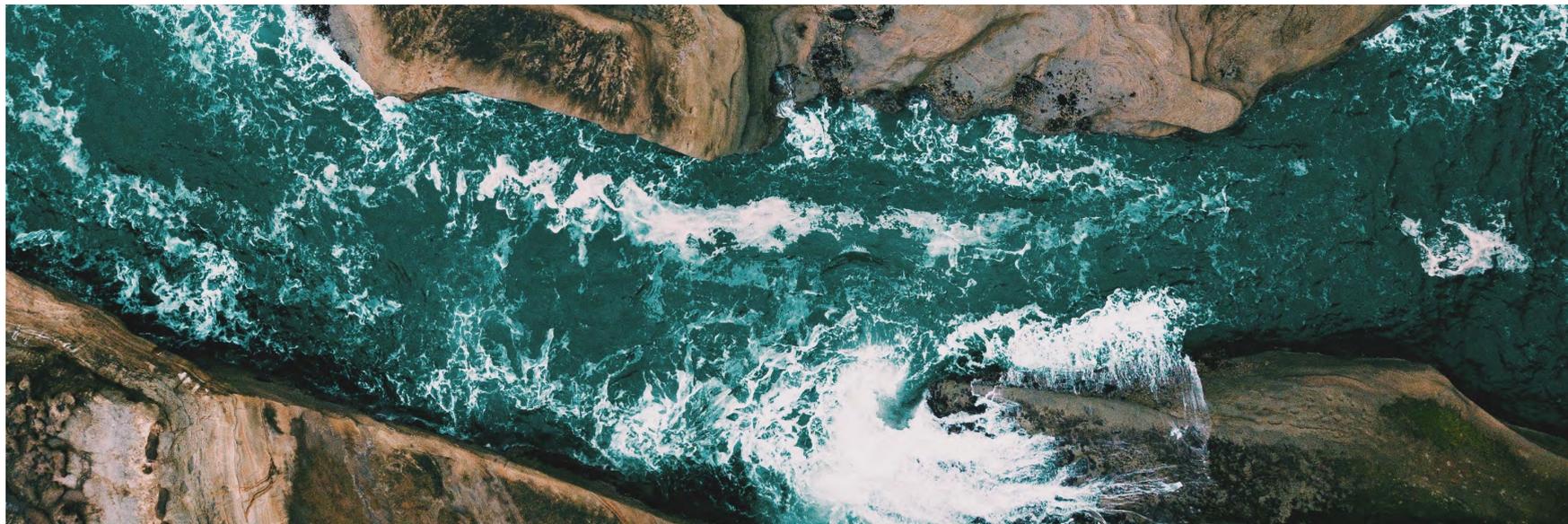
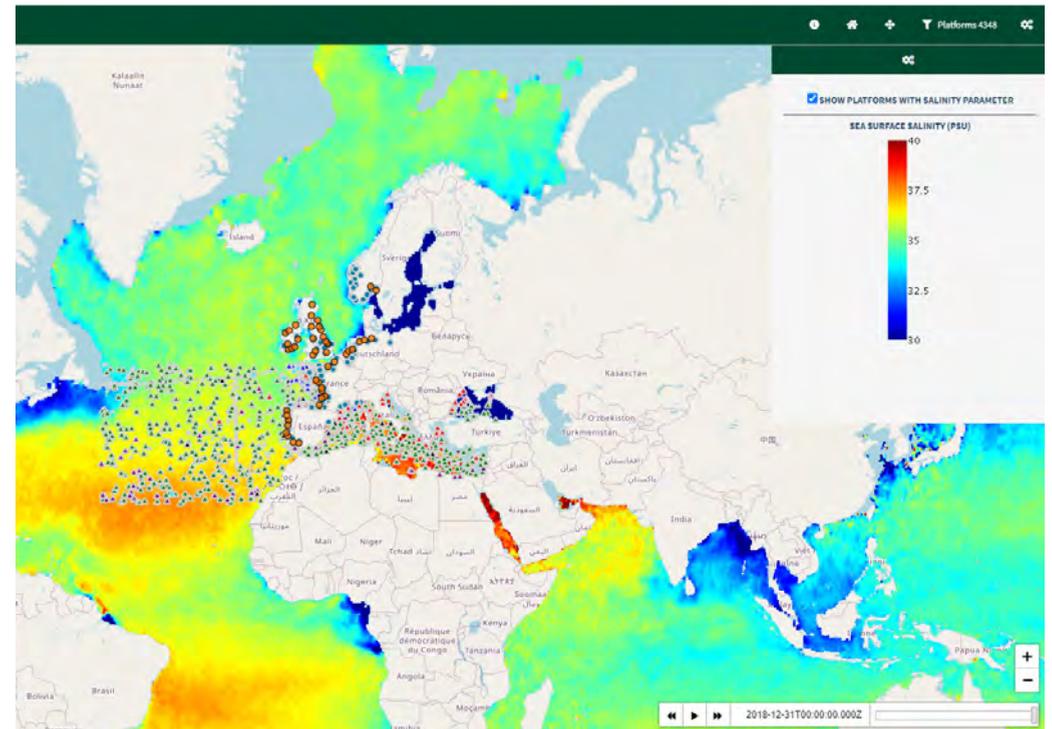
Software Development
Big Data
Data Analysis

PARTNER

MARETEC -
I. Superior Técnico
Action Modulers
Consulting & Tech Lda
Barcelona Expert Center

Lambda Hydrological Models for decisional Support

LAnd-Marine Boundary Development and Analysis is one of the projects for the design and development of evolutionary services in the Copernicus Marine Environmental Monitoring Service programme. The developed platform integrates hydrological models with coastal and oceanic models in order to improve the resolution of salinity domains and river influence on the coastal area to improve decision-making support tools.



Hydrological
model
integration

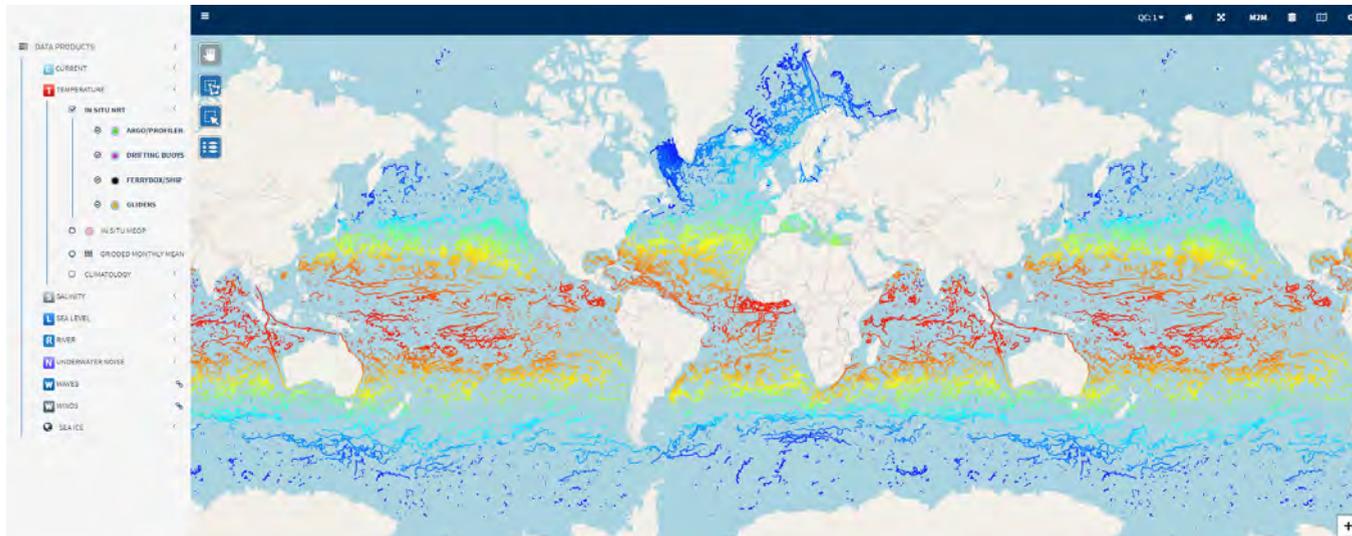
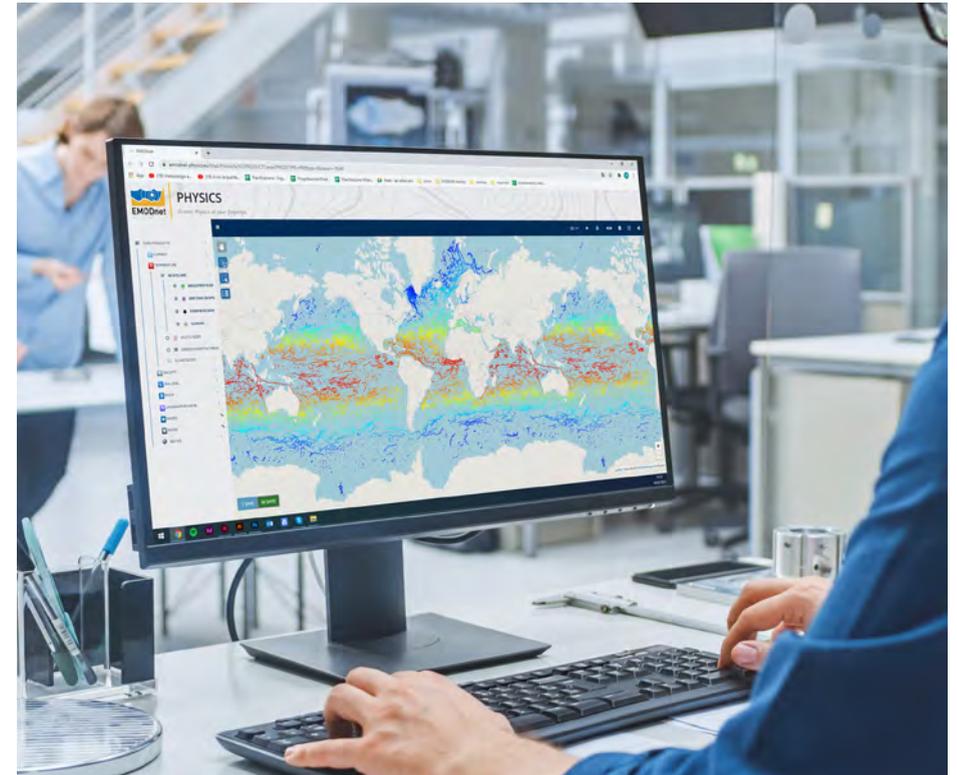
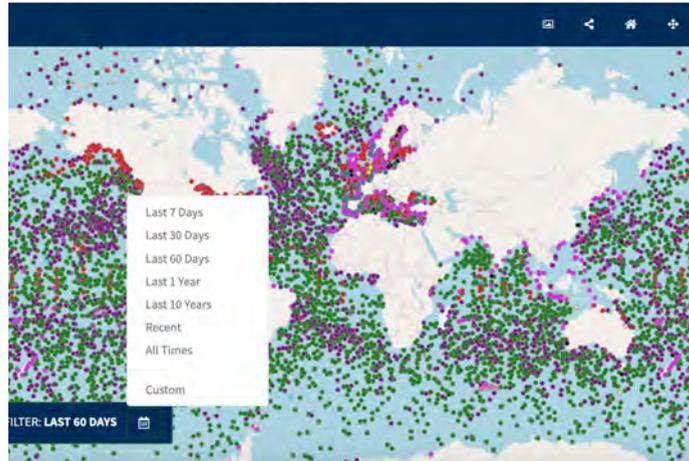
Emodnet Physics European Commission DG MARE

OUR SERVICES

Big Data Collection
Big Data Analysis
Software Development

PARTNER

MARIS BV
IFREMER
SMHI
ICES



The physics of the ocean at your fingertips

EMODnet Physics - European Marine Observation - is one of the seven thematic projects in the European Marine Observation and Data Network programme, and it works to integrate data and make it accessible and interoperable on the physical conditions of European and international seas. Using the most recent IoT, Big Data, and webGIS technologies, together with integrating open protocols, it offers access to over 8000 measurement platforms in real time. The platform is completed by a help desk service that provides access to the skills of experts from over 120 oceanographic research institutes all over Europe. ETT has been coordinating the operations of the project for the past 10 years.

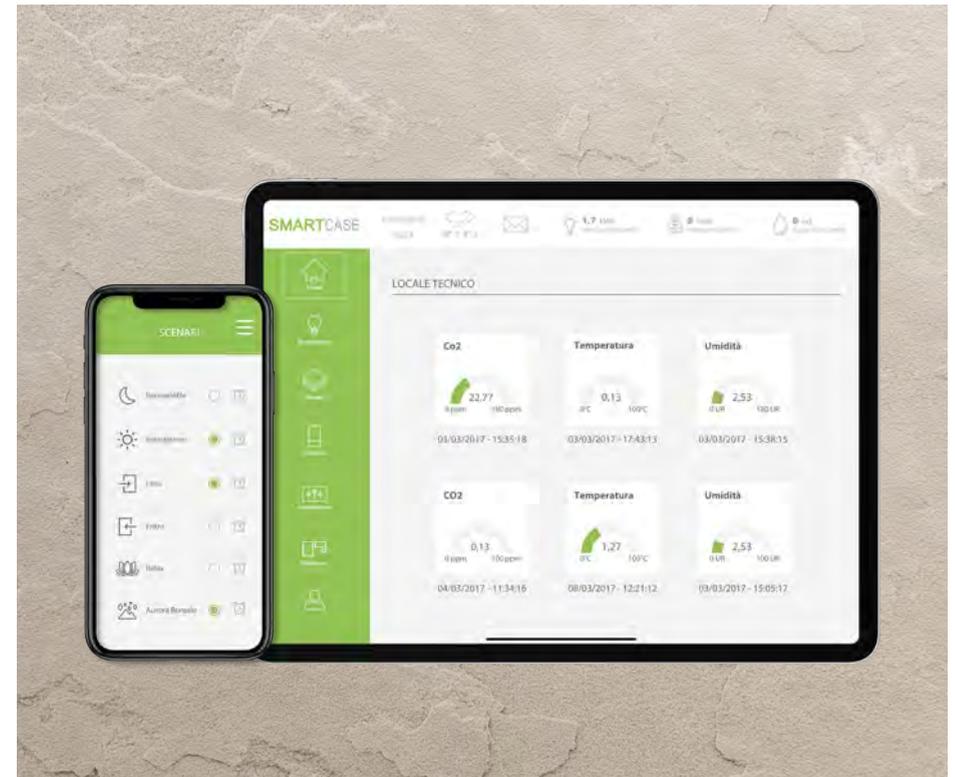
Smart Case Building Energy Management Systems

OUR SERVICES

Big Data Collection
Big Data Analysis
Software Development

PARTNER

University of Sannio
University of Naples F. II
Graded
Rina Consulting
Sea costruzioni
TME



SmartCase: A near to zero Building energy management system

Smart Case is an application for the design and creation of a building control system (BEMS – Building Energy Management System). Real-time monitoring, also remotely through a dedicated app, for around 100 sensors that allow the system to optimise management of energy sources as well as air conditioning and quality, for guaranteed thermohygrometric well-being for all occupants.

OUR SERVICES

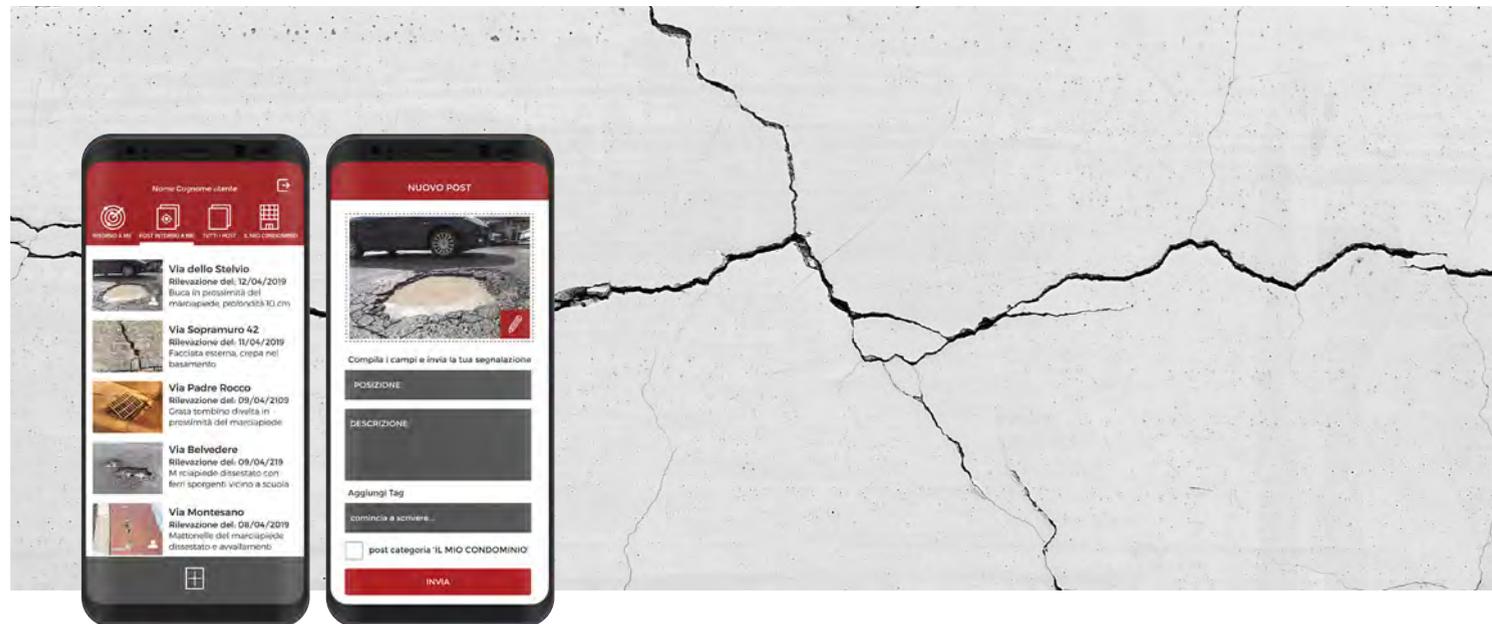
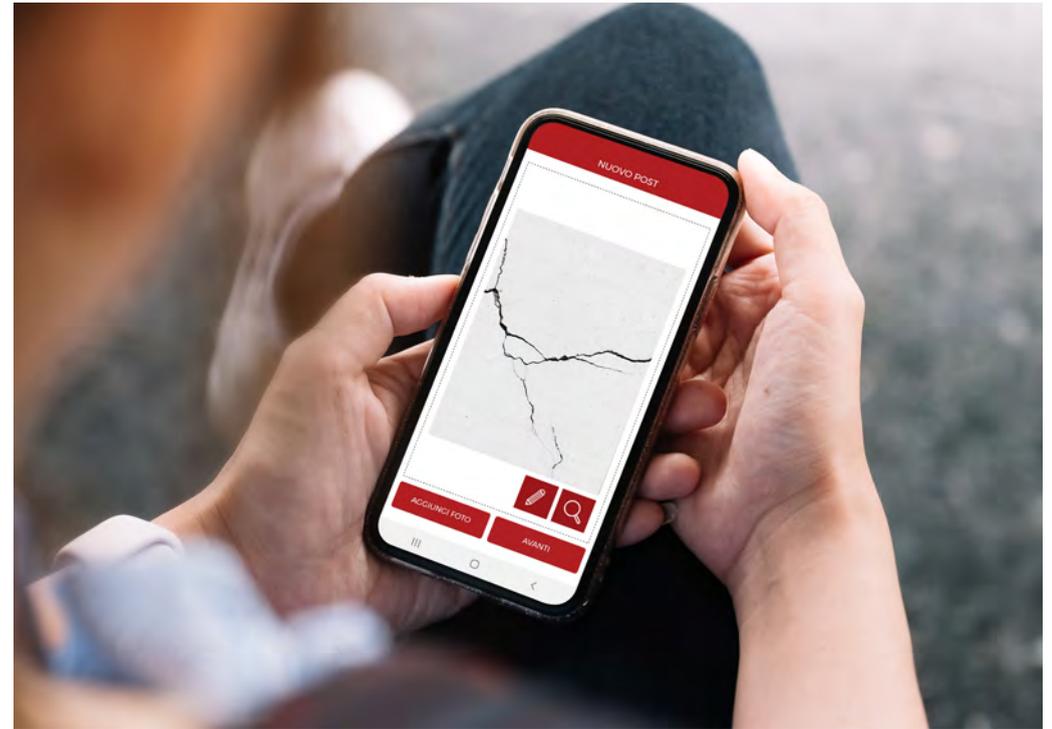
Software Development
Digital Transformation
Big Data
Data Analysis

PARTNER

STRESS Consortium
University of Naples F. II

MUST Maintenance Urban Sharing Tool

MUST is a digital platform for mobile devices; its aim is to experiment and capitalise on a participation-based service to maintain and manage constructed assets. The app is designed to acquire and organise information collected socially by users according to an open data and citizen science perspective, which is able to contribute to optimising scheduled maintenance processes.



The Social App for reporting urban decay



OUR SERVICES

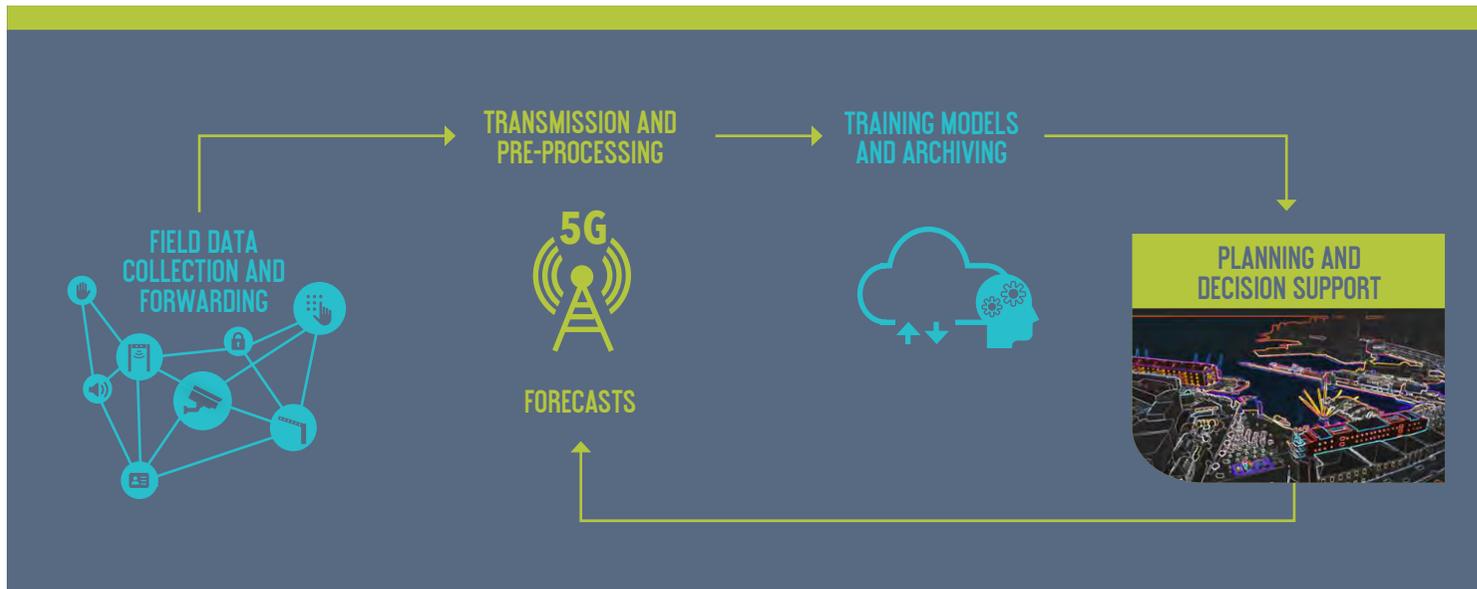
- Big Data Collection
- Big Data Analysis
- Software Development
- App Development

PARTNER

- Porto Antico di Genova
- ETT
- Aitrust
- Bf Partners
- Circle Garage
- Colouree
- Netalia
- University of Genoa

DSH2030 Digital and Sustainable Harbour

The DSH2030 project is aimed at a sustainable monitoring, management and development of port areas. The pilot case, currently ongoing in the Porto Antico (Old Port) of Genoa, is already seeing significant experimentation with IoT technologies connected to control systems for water and energy consumption and the application of sensors and smart meters. The purpose is the creation of an enhanced digital twin that can be leveraged as a model to be reproduced at various levels and developed to include various areas of the city that are of touristic value.



Technology at the service of the development of port areas

OUR SERVICES

Big Data
Data Analysis
Risk Assessment

PARTNER

Stress S.c.a r.l.
University of Naples F. II
University of Padua
T.R.E. Consortium
CETMA
C.R.A.C.A.
Veneto Nanotech
Sipre

PROVACI Heritage Management Tool



The project PROVACI – Technologies for Seismic Protection and Enhancement of Complexes of Cultural Interest, focuses on the seismic protection and the enhancement of historic buildings through the development of integrated techniques and methodologies for the protection, sustainable rehabilitation and enhancement of sites and structures of historical and artistic interest.

To assess the vulnerability, an initial effort has concentrated on defining systematic methodologies of knowledge through geometric, material and structural investigations, supported by a strong interaction with monitoring and in situ testing.

MISENO Decision Support and Risk Management

OUR SERVICES

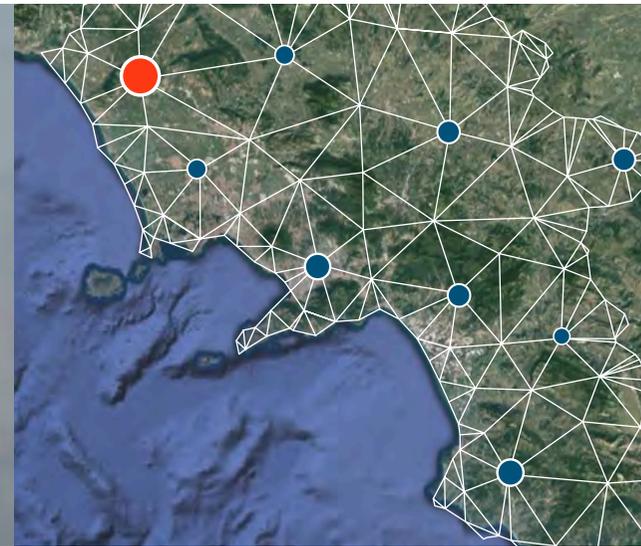
Big Data
Data Analysis
Risk Assessment

PARTNERS

MAPSAT srl
Soft S.r.l.
ETT S.p.A.
Tecno-In S.p.A.
MEDINOK S.p.A.

The project aims at creating a sustainable and smart integrated application platform able to ensure an effective response to the management of emergencies on the territory, when adequate coverage for communications and exchange of information and data are not granted.

The decision support and management platform will also leverage a minivan equipped with instruments that can be installed at the time of the emergency on the territory for local command and control to return data to the platform. In this way, it will be possible to strengthen collaborations and interoperability between the different rescue communities during interventions.



**Multipurpose
Ital-GovSatCom
application
Services for
Emerging user
Needs and
Objectives**

Metropolis

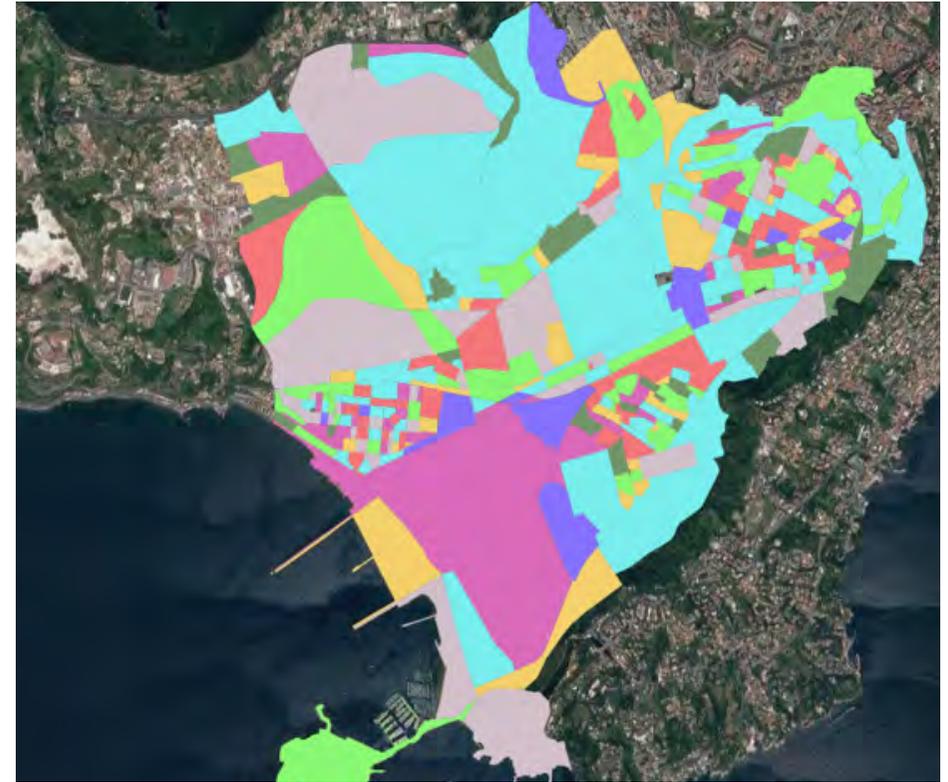
Building Inspection Support

OUR SERVICES

Big Data Collection
Big Data Analysis
Software Development

TECHNOLOGIES

C#
WPF
WCF
SQL 2012
GeoServer
ArcGis
Leaflet



Software to support building inspectors

Metropolis is a software to support inspectors that allows them to independently enter a series of information on the characteristics of buildings, both in the field and offline, connecting the information from different users in a modular but shared approach to information. Even external users are able to access this information, selecting and geo-locating it through the portal to obtain a knowledge base for the area that can be used for further processing and simulations.

SuggestUs

ETT Research & Development

OUR SERVICES

Interaction Design
Game Design
Storytelling
Software Development

TECHNOLOGIES

C#
Unity
Xamarin
ASP.Net



Digital intelligence platform for immersive use of cultural heritage

Using augmented and mixed reality, the user can discover the area in an innovative, multimedia manner. The multi-platform, which can easily be adapted to suit a range of needs, will be able to interact with network infrastructures and other functions supporting visits, allowing visitors to receive real-time information, reviews and updates on places of interests, straight to their smartphone.



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