





# The Apulia Region "S.IN.A.P.S.I." IT System and the European FP7 "C2SENSE" project:

# two operative contest for CAP applications

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## Two operative contest for CAP applications in Apulia Region:

- S.IN.APSI (Integrated System of Analysis, Provision, Surveillance and Information) Project (funded by regional action) is promoted by the Civil Protection Section of Apulia Region in agreement with "in house" regional society InnovaPuglia, with the role of project supervisor for the definition of the final design and subsequent implementation. The system was developed by SYSMAN Progetti e Servizi S.r.I (www.sys-man.it) and SIT Servizi di Informazione Territoriale (www.sit-puglia.it)
- □ C2-SENSE (EU FP7, 01/04/2014 31/03/2016 GA 607729 ) <u>c2-sense.eu</u> The project C2\_Sense (funded by european action) cover the application area of interoperability and user profiling for command and control systems in emergency management. Civil Protection Section of Apulia Region and InnovaPuglia are partner in the project







**S.IN.A.P.S.I** Project helps interaction and coordination of all involved multiple organizations with different services (eg, police, medical care, rescue forces, fire fighting, volunteer organizations, etc.) in accordance with specific procedure, improving the management of the imminence or occurrence of an event that may constitute a danger for the population, territory and goods.







## S.IN.A.P.S.I goals:

- Support to Decision Making Process
- □ Ability to coordinate actions during emergencies phases
- □ Availability of "intelligent" data
- Integrating content from different sources into a single stream of information in the field of Civil Protection
- Development and realization of a modern information system of the Regional Civil Protection for the planning, monitoring and emergency management (NetRisk)
- Development and realization of a navigation service and observation called (NetAnalysis) updated with real time data







**NetAnalysis** update in real time with information, data and events represented in iconic form of mapping, with the aim of supporting interaction and coordination of all involved during the imminence or the occurrence of an event that may constitute element of danger for the population, territory and property.

NetAnalisys interacts with internal and external components in order to acquire or disseminate data or data flows and aims to:

- integrate content from different sources into a single flow of information of mutual interest in the field of Civil Protection
- support the phases of coordination and strategic decision-making in emergency situations and in conditions of ordinary alarm













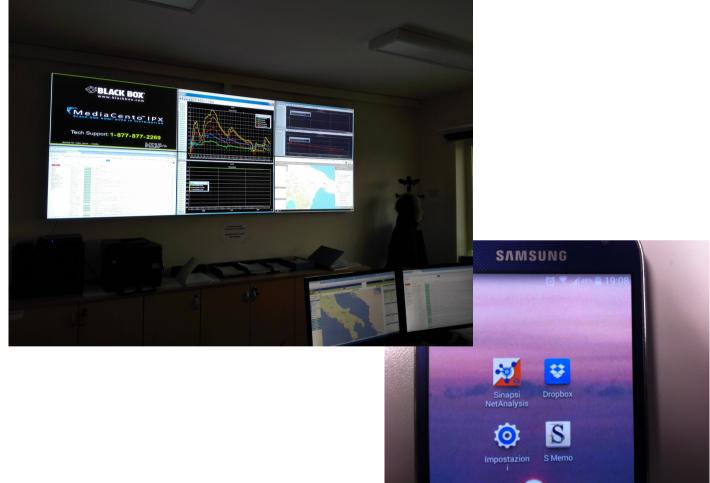


NetAnalysis provides data output / data streams in a variety of content fruition modes:

Web-gis portal
 Log-book portal
 Feed service
 Social network

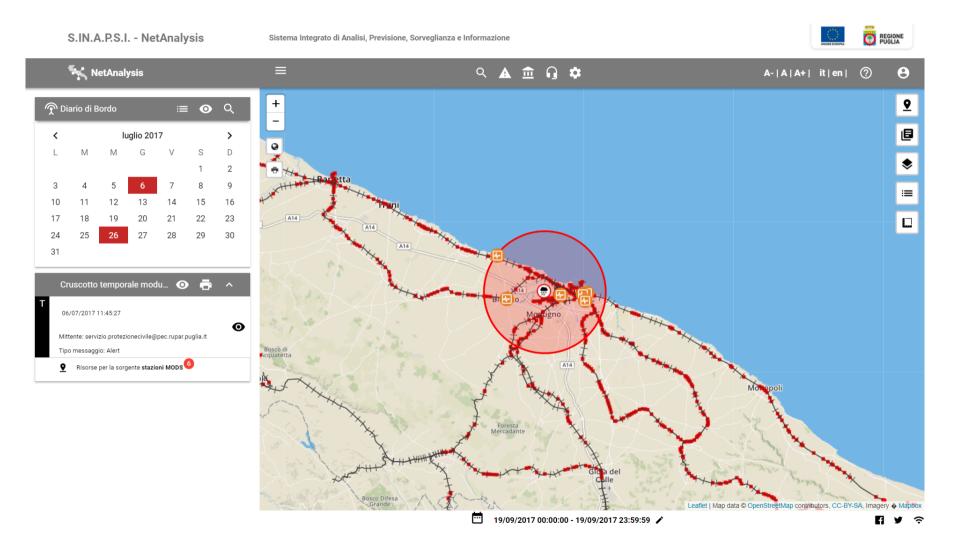
## accessed through:

pc
tablet
smartphone
feed reader
video wall





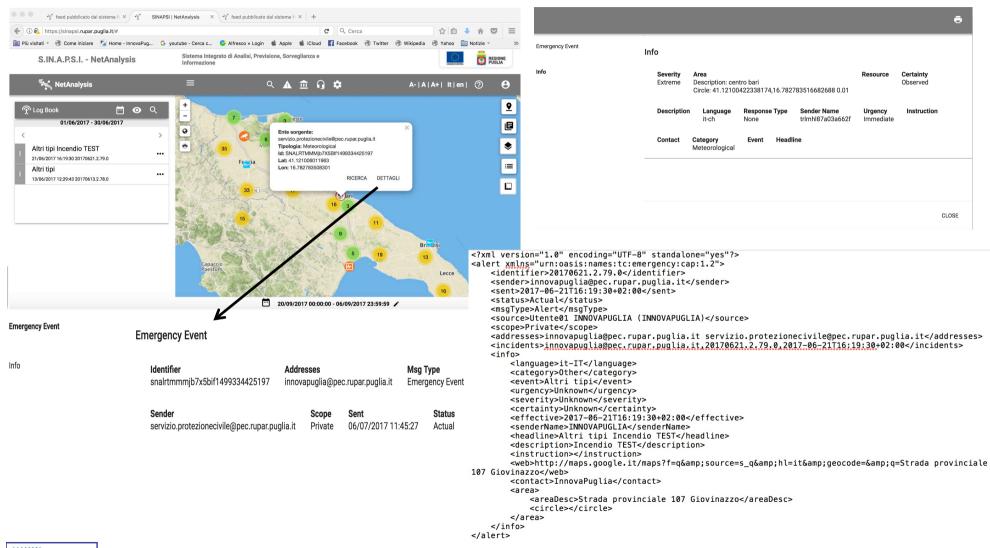
S.IN.A.P.S.I.: Sistema INtegrato di Analisi, Previsione, Sorveglianza e Informazione (Integrated System for Analysis, Provision, Surveillance and Information)





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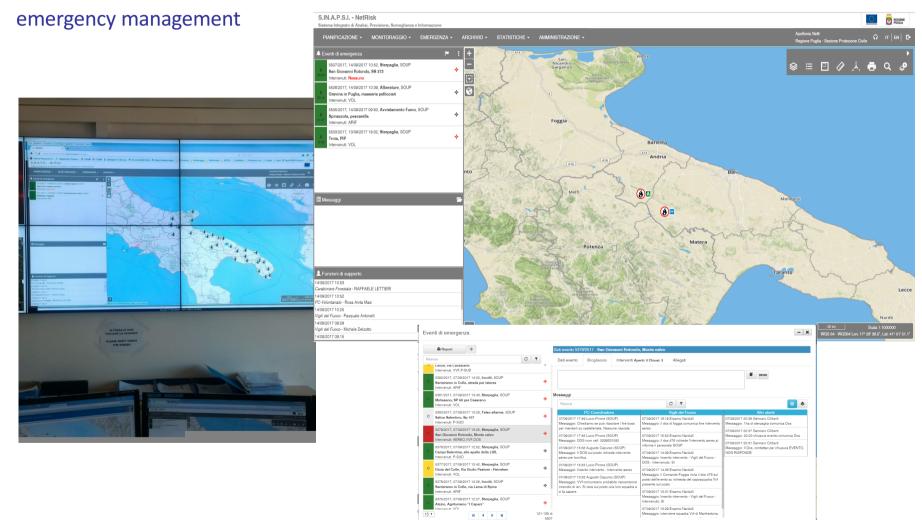


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#### NetRisk: information system of the Regional Civil Protection for the planning, monitoring and



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**NetRisk** as an emergency management system for the regional civil protection structure and for the bodies directly cooperating with it must fulfill the following functions:

- to support the intervention procedures of the Unified Permanent Operational Room of Regional Civil Protection (S.O.U.P.);
- □ To allow the bodies responsible (Municipal, Intercommunal, Provincial, Regional) to access to the planning data acquired at different levels;
- to support CFD-Puglia monitoring and alert features, allowing reporting of monitoring data and making available its analysis and forecasting capabilities for managing different alert levels;
- □ To create appropriate "dashboards" capable of transforming the single data, acquired at any stage of the process, into high added value information.
- □ To interoperate with NetAnalysis, setting it as a "system-provider" of information through interchange procedures by CAP protocol







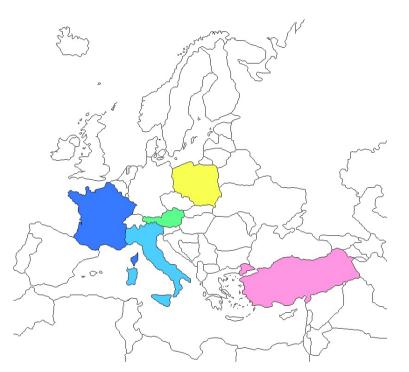


This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration.

Effective management of emergencies, crises and disasters depends on timely available, reliable and intelligible information.

To achieve this, different Command and Control (C2) Systems and Sensor Systems have to cooperate which would only be possible through interoperability.

C2-SENSE project's main objective is to develop a profile based Emergency Interoperability Framework by the use of existing standards and semantically enriched Web services to expose the functionalities of C2 Systems, Sensor Systems and other emergency/crisis management systems. http://c2-sense.eu/













#### **Pilot scenario:**

C2-SENSE assessed its outcomes in a realistic "Flood Scenario in Italy" pilot to ensure that the developed technologies are generic and applicable in a real life setting.

Involved organizations (with their real systems):

- Regional Civil Protection
- Prefecture of Foggia
- Province of Foggia
- Fire Department
- Municipalities
- Voluntary organizations
- Citizens
- Official regional sensor networks





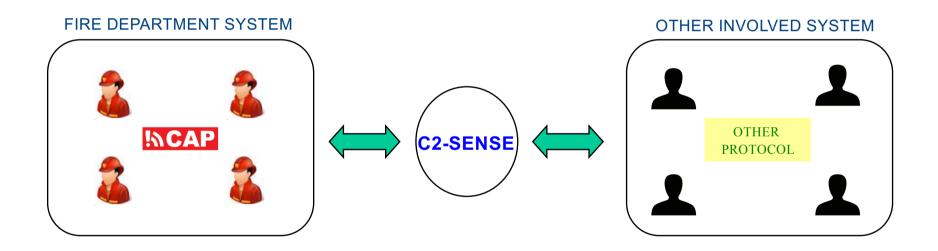






#### How:

C2-SENSE is a middle-ware that allows communication between systems that natively are not able to exchange information.











C2-SENSE is involved to allow message exchange from/to fire department using CAP protocol and to update SOIR (Operating Room of Civil Protection)

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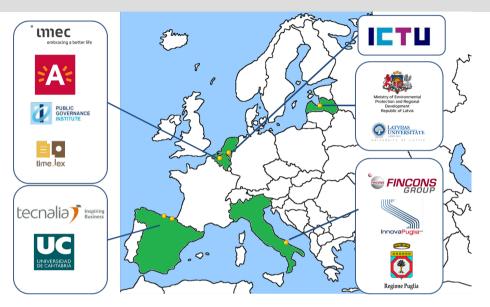


# CITADEL

#### **Empowering Citizens to Trasform European Public Administrations**

**CITADEL** is focused on transforming the public sector to make more efficient, inclusive and citizen-centric public services that identify/capture new or unsatisfied needs more quickly and satisfy them more effectively and in an inclusive way, providing also guidelines and features to support new processes.

CITADEL has received funding from Union's Horizon 2020 research and innovation programme.



### CITADEL's mission will be realized by achieving the following objectives:

- To analyse information coming from different sources to improve the effectiveness and efficiency of PAs by providing a set of recommendations to transform its processes and policies.
- To incentivize the co-creation of digital public services by empowering citizens and PAs.
- To increase the participation of Citizens in the Public Administration system by improving their experience when using digital public services.
- To facilitate the use of the digital public services integrating the previous results into the CITADEL Ecosystem, containing the ICT enablers.
- To validate the CITADEL ecosystem in local, regional and national environments.

www.citadel-h2020.eu



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# Thanks

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