CAP implementation in Italy 2018

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Italian National Fire Corps (CNVVF)

- 18 Regional Directorates
- 100 Provincial HQ
- >700 Fire Stations
- >35,000 Firefighters

Multi agencies coordination
Technical rescue
Civil protection
Italian National Fire Corps (CNVVF)

- Fire protection rules
- Fire safety controls on high fire risk buildings (> 100,000/year)
- Controls on “Seveso” plants (> 300)
- Fire safety controls on radioactive substances storage buildings
- Fire safety controls on Cultural Heritage buildings

- 16 Canadair CL 415
- AB 412
- 2 Piaggio P180
- Sikorsky
- Erickson S64F
- UAVs

- Divers stations
- Floods rescue
- Harbors Fire service

3 central training centers
CNVVF interoperability policy: CAP adoption

Decreto 23 maggio 2011

Hong Kong, 31 October 2018 – CAP Implementation Workshop 2017
Data sharing

The Italian National Fire Corps operational data sharing initiative is continuously progressing since then.

The number of rescue Authority and stakeholders which share operational data with CNVVF increase constantly.

Each data sharing is based on a formal agreement and often raises issues which call for specific activities to speed up further deployments.

We will shortly present the present status of the initiative.
Data sharing with:

Comune di Venezia (Venice Municipality)

Formal agreement signed on 2 September 2011

Private CAP+ATOM-Feed published by CNVVF for Comune Venezia

System of Comune di Venezia still under development, in the meantime they access to our web application CAP-ITEM

Operational data regarding incidents and activities concerning:

• Floods
• Fires and explosions
• Gas leakages
• Civil Protection emergencies

to improve operational cooperation in civil protection incidents
Data sharing with:

Consorzio Bonifica Veneto Orientale (Drainage Authority)

Formal agreement signed on 15 June 2016
Access to our web application CAP-ITEM to access CAP-based data addressed to Consorzio Bonifica Veneto Orientale

Operational data regarding incidents and activities regarding:

- Floods
- Extreme weather

to limit flooding and improve water management anticipating pumps and sluices activation in the subject area
Data sharing with:

Carabinieri (National Police)

Formal agreement signed on 5 April 2017
Private CAP push on dedicate WS by CNVVF to Carabinieri
Data regarding forest fires operational activities to allow investigation activities on crimes against environment

Fully operational since this summer 2018:
• 119,960 CAP messages sent between 20/07/2017 and 20/08/2017

Issues with the management of multiple CAP update messages from the receiving Control Centre: now working on smarter filters
Hong Kong, 31 October 2018 – CAP Implementation Workshop 2017

Data sharing with:

Città metropolitana di Venezia (Provincial Authority)

Formal agreement signed on 11 June 2018

Access to our web application CAP-ITEM to access CAP-based data addressed to the Città metropolitana di Venezia

Operational data regarding incidents and activities regarding:

• Civil Protection emergencies
to improve operational cooperation in civil protection incidents
Data sharing with:

Consorzio Bonifica Piave (Drainage Authority)

Formal agreement signed on 16 October 2017

Access to our web application CAP-ITEM to access CAP-based data addressed to Consorzio Bonifica Veneto Orientale

Operational data regarding incidents and activities regarding:

• Floods
• Extreme weather

...to limit flooding and improve water management anticipating pumps and sluices activation in the subject area
Data sharing with:

Consorzio Venezia Nuova (Drainage Authority)

Formal agreement signed on 14 February 2018

Access to our web application CAP-ITEM to access CAP-based data addressed to Consorzio Venezia Nuova - the concessionaire of the Ministry of Infrastructure and Transport for the implementation of measures to safeguard Venice and its lagoon, the MOSE system, flap gates, installed in the bottom of the inlets, that allow to separate temporary the lagoon from the sea during an event of high tide

Operational data regarding incidents and activities located into the venetian lagoon, so as to best coordinate rescue activities with the MOSE gates operations
Data sharing with:

Consorzio Bonifica Acque Risorgive (Drainage Authority)

Formal agreement signed on 5 April 2018

Access to our web application CAP-ITEM to access CAP-based data addressed to Consorzio Bonifica Acque Risorgive

Operational data regarding incidents and activities regarding:

- Floods
- Extreme weather

...to limit flooding and improve water management anticipating pumps and sluices activation in the subject area
Distinct CNVVVF units adopted different GIS systems to carry out their tasks. Both wanted to include daily rescue activities to the data represented.

In both cases the interoperability service was based on CAP, while using different distribution services.
Data sharing with:

Ministero dei Beni Culturali (Cultural Heritage Authority)

Formal agreement still not in force.

Common interest to improve protection of cultural heritage in the framework of the EU R&D action STORM

- Cultural Heritage Authority (Ministero dei Beni Culturali - MIBAC) will give access to Cultural Heritage geo-referenced lists to CNVVF
- CNVVF propose to notify MIBAC of any emergency-related activity which could impact Cultural Heritages

Related activities:

- study of possible coupling between real-time emergency alerts and Cultural Heritage lists to improve CH protection
Data sharing with:

IN-PREP EU action

One of the IN-PREP action strategic objectives, aims to the integration of civil protection agencies’ Coordination, Command and Control Systems (C3) with focus on data interoperability within a training platform that is utilised for preparedness and can be brought to the field when response is needed.

The action can run C3 legacy systems of Italian Fire Corps (operational) and Greek Fire Corps (mock-up), so as to tests more effective ways to implement the EU Civil Protection Mechanism.
Hong Kong, 31 October 2018 – CAP Implementation Workshop 2017

IN-PREP EU action

Since the first Table-Top Exercise to be held in Spoleto (Italy) on 29 November 2018, the CNVVF legacy systems of Italian Fire Corps will be interconnected to the tool

The exercise will simulate a couple of CBRN accident types, involving trucks carrying Chlorine / LPG in urban environment

Fast population alerting is required (evacuation and/or shelter-in-place)
IN-PREP EU action

IN-PREP target: The action will use these data to enhance training sessions with real data and to visualize a combination of real & simulated data over the Common Operational Picture.

CNVVF target: Firemen sized the opportunity to link with the Municipal Civil Protection Authority and trial CAP public alerts to be issued by CNVVF on behalf of them.
In fact, CBRN incidents require fast reaction times.

Firemen are in place, know what to do (e.g., evacuate immediately area x, shelter in place area y…) they can dispose immediate evacuation in the absence of the Authority, but they have no access to mass alerting systems.

IN-PREP could host the first agreement to regulate such a service, testing practical ways to implement it with the needed urgency.
CNVVF will test its first public CAP alerts early next year both on ATOM and RSS feeds.

A dedicated CAP generator interface for public alerts is being realised to ensure separation from private alerts and full awareness by the operators.

To disseminate the alerts, CNVVF will be happy to test links with the IFRC to feed their app as soon as possible in the project framework.

If successful an agreement will be needed to make it operational.
For the next Table-Top Exercise to be held in Savona (Italy) in June 2019, the CNVVF legacy systems of Italian Fire Corps will test the acceptance of EDXL messages from the action training tool.

As a first step, EDXL+CAP will be accepted, to then extend the trial to the EDXL-TEC (while still not a standard) to keep track of victims in complex scenarios.
Victim tracking finds in the action a favourable framework:

SAMU – Hopitaux De Paris is partner of the action and propose the adoption of the SINUS system (Système d'Information NUmérique Standardisé), which they adopted as Victim tracking system for disaster management together with the Prefecture.

CNVVF propose to the action to introduce SINUS and EDXL-TEC into the trial to demonstrate synergies.
SAMU Paris demonstrated the SINUS system and procedure during a large exercise in Paris in May 2018 where more than a thousand first responders played their role.
SINUS bracelets could easily provide OIDs for the victims

Leveraging on SAMU Paris experience with SINUS, CNVVF involved the Umbria Region Health Authority into the action trials

- to speed up test and trial phases of such Victim tracking system for disaster management
- to bring it to the operation phase asap
Thank you