

Agence du Numérique de la Sécurité Civile



SI des Secours de nouvelle génération

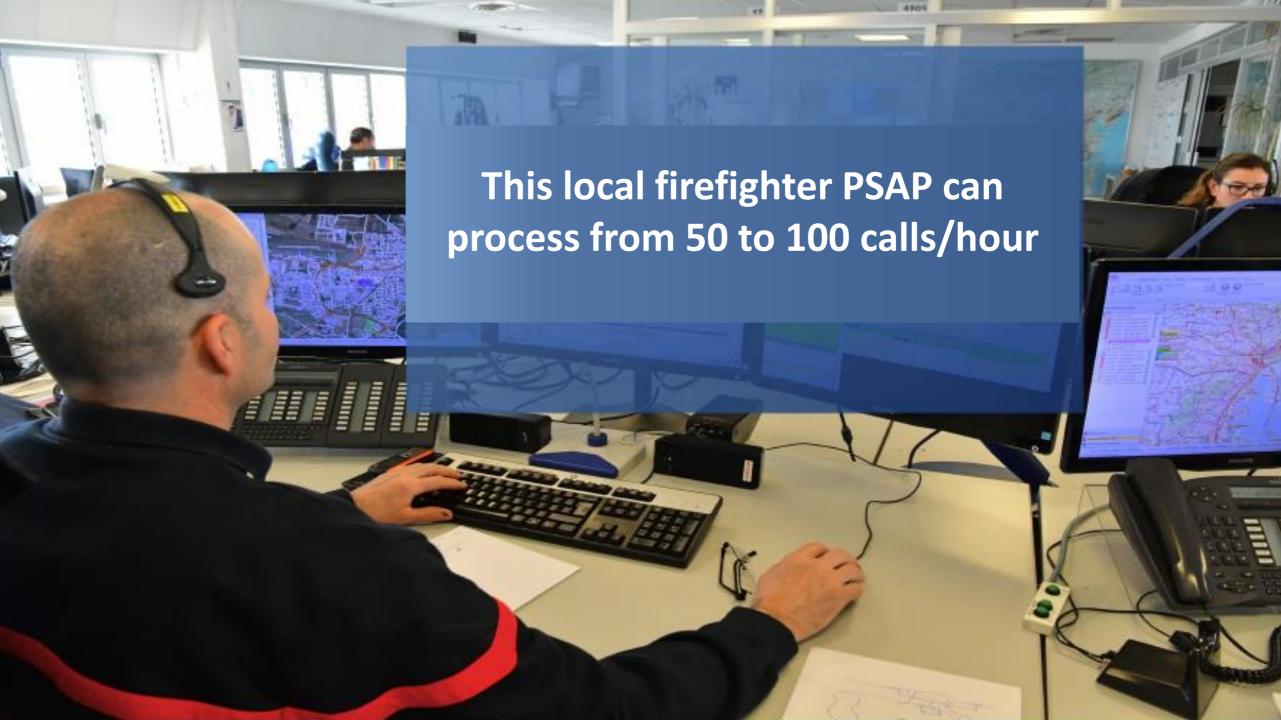
Michel Monneret, Director - French Digital Agency for Civil Protection

### "Multimedia Platform in Firefighters Control Room"

#TechForRescue @ANSC\_Fr







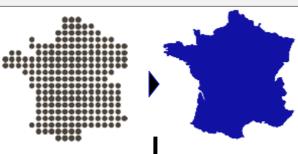




Today, Fire and Rescue Services' (FRS) systems are partitioned, poorly scalable and of uneven quality.

Tomorrow, NexSIS 18-112 will allow for a supra-departmental – if not supra-national – operational management and a greater interoperability between FRS. It will also integrate new features.

### **Today**



**Tomorrow** 





IT systems are partitioned and do not take advantage of the power of the digital revolution

→ Phones and radios are the main emergency communication tools, data is not sharable.



The procurement system has shown its limits in terms of cost-effectiveness and innovation.



Sometimes, local technical environments are fragile. → Security levels depend on local capabilities.



NexSIS 18-112 is an open, user-oriented and scalable system, allowing for a greater mobility and a better use of data.



→ Communication will be unified and information-sharing mechanisms will be improved.



All the FRS will benefit from the best technologies while decreasing their expenses.



The national technical environment is safer.

→ The digital infrastructure will belong to the Ministry of Interior.







#### **Emergency calls management in France: embracing the digital revolution.**



#### **Current situation**

#### Fragmented and obsolete

- > There are 13 emergency numbers in France.
- There are over 450 Public Safety Answering Point (PSAPs) for the 4 main emergency numbers (112, 18, 17, 15).
- PSAPs can only receive voice calls.
- There is no dedicated structure handling 112 calls.



### Tomorrow: towards a multimedia revolution

#### **Unified and modern**

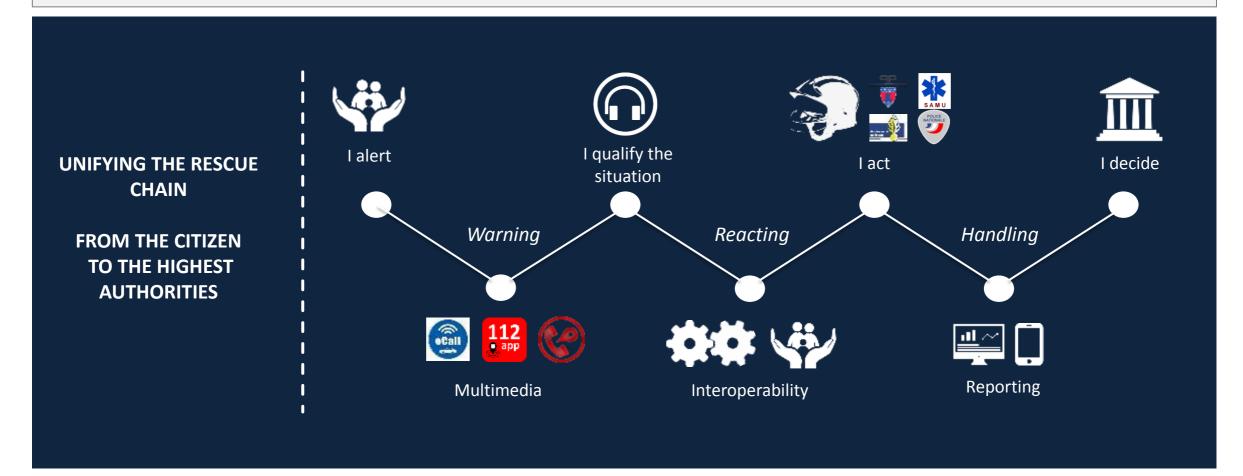
- The rationalisation of the different numbers is in progress.
- 18 and 112 :
  - These numbers will operate with the best technologies and will be user-centric.
  - Calls to 112 will benefit from new services: geolocation system, multi-channel and multilingual capabilities, accessibility for hard-of-hearing or deaf people...







Connecting actors thanks to the best technologies in order to better manage emergency situations. Enabling citizens to play a key role in the rescue chain.









#### NexSIS 18-112 is harnessing the best and sovereign technologies to date.

The best technologies











An innovative and unified ecosystem









Open source and open platform



Agile software development

A data-driven project







Dashboard



Decisionsupport



Artificial intelligence

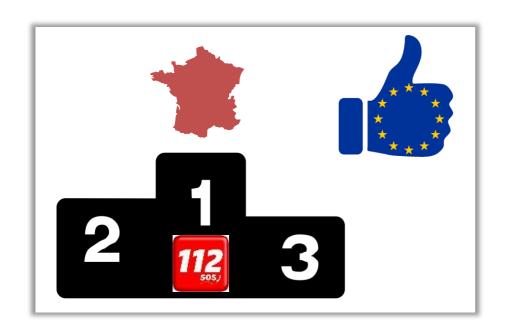






The ambition of NexSIS 18-112 is to ensure high-quality emergency services, while adapting to citizens' use of new technologies.

The new system will comply with EU's standards and laws.





Main obligations *vis-à-vis* the EU regarding 112 number, starting in 2020:



Automatic location of callers



Accessibility



Emergency communication tools



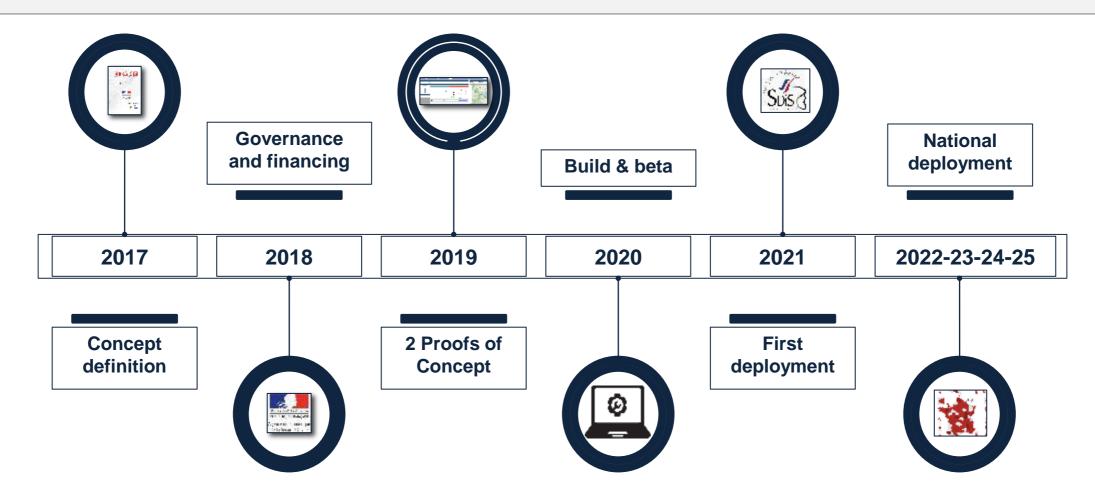
Multilingual platform







#### An ambitious timeline, so far respected.









#### A Proof of Concept on the alert management system has been completed. Main features proven:





Enabling each firefighter PSAP to support each other (call-sharing)



Multi-emergency qualification capability for police and medical PSAPs



Callers' distress written qualification for police and medical PSAPs (data-sharing)



Possibility for callers to send pictures and multi-media content



**Compliance with European rules** 

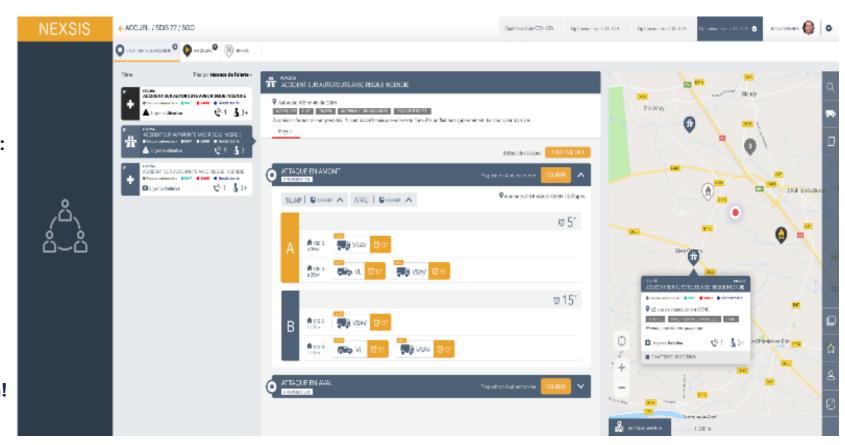






#### Proof of Concept and first release of the operational management system.

- The Agency's workforce is operational.
- We have started to build the system: a minimal Computer Assisted Dispatch has been completed and delivered.
- Integration of a Geographic Information System (GIS) in the operational management system.
- We are only 1 year away from the release of the first complete version!









#### The first experimentation of the Advanced Mobile Location (AML) is being launched.

- Currently tested in 4 departments: Alpes-Maritimes, Morbihan, Nord and Var.
- Will be activated in the entire country in 2020 and will be integrated in NexSIS 18-112.
- Will operate with IOs and Android :
  - > with 18 and 112 emergency numbers in the short-term / with all emergency numbers in the long-term.

# Advantages for the victim (incl. hard-of-hearing or deafened people)

- Automatic geolocation in emergency situations.
- No application has to be downloaded.



### Advantages for the emergency call-centers

- Time savings (30 seconds on average).
- Higher precision compared to the previous system.



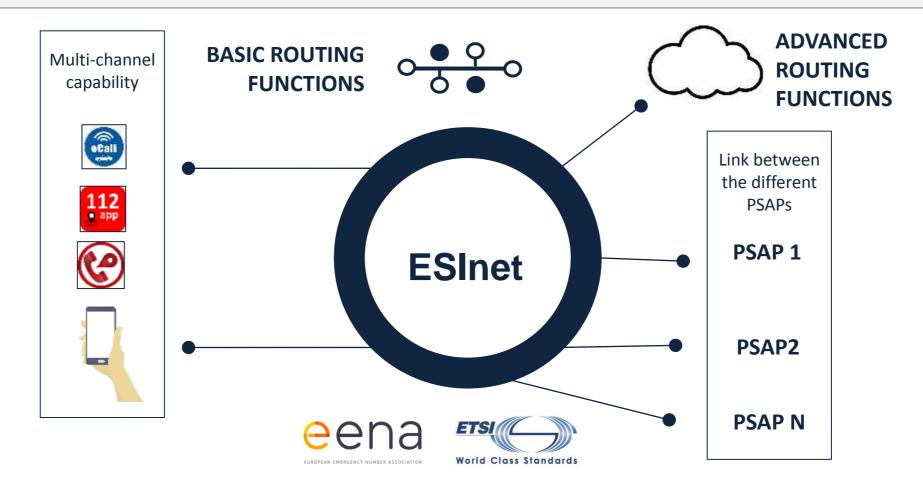








"Next Generation 112" is on its way to deliver an efficient 112 service in France.









#### A mobile app is being created for 18 and 112 emergency numbers.







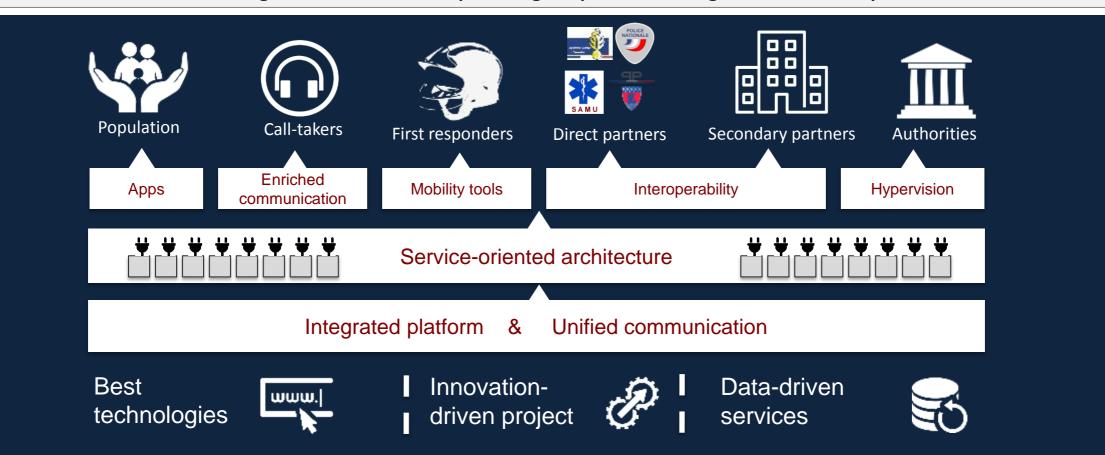
- A UX designer has been recruited to create a prototype of the 18-112 mobile app.
- A questionnaire system will enable to address calls according to the level of emergency.
- The app is also designed for hard-of-hearing or deaf people.
- A series of tests with a large users committee will allow to design a successful app.
- This app will constitute a basis for one of the features included in NexSIS 18-112.





A Digital platform for « managing information overload in situational awareness context »

**Embracing data revolution – Empowering People – Enhancing Government Response** 

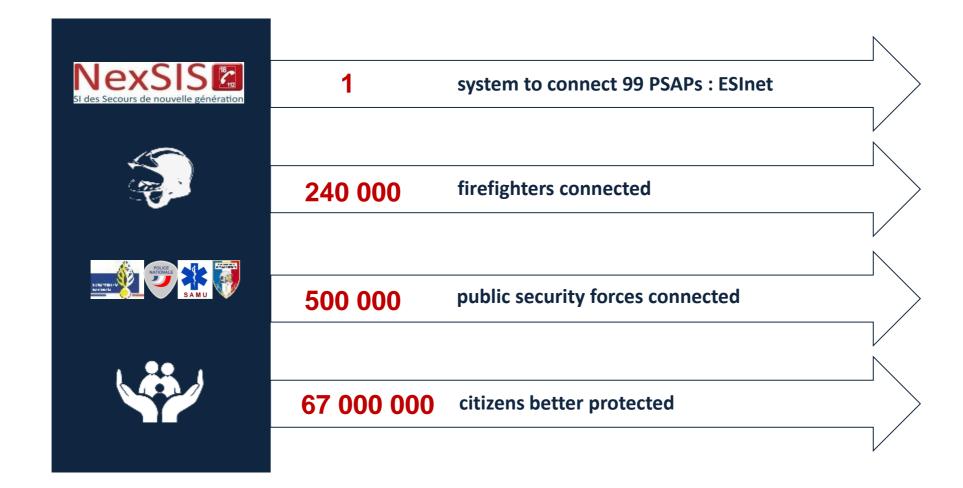








#### Digital platform: key numbers









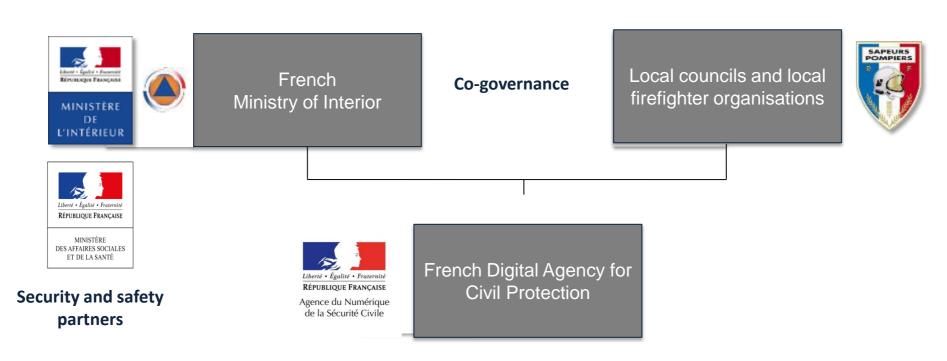
### Thank you for your attention!







# Annex 1: NexSIS 18-112 in the French public safety landscape



**Build and deliver IT services** 









# Annex 2: NexSIS 18-112 is designed to be citizen-oriented.

#### New possibilities for:



#### **Victims**

Witnesses

**Rescue actors** 

- New communication options for callers: chat, pictures, video...
- First aid capabilities through mobile apps for citizens who are nearby and can participate to the rescue process.

#### Advantages of the geolocation:



- > A quicker response
- > Better information about the incident area
- > Better coordination among the rescue chain

#### Advantages of the number recognition:



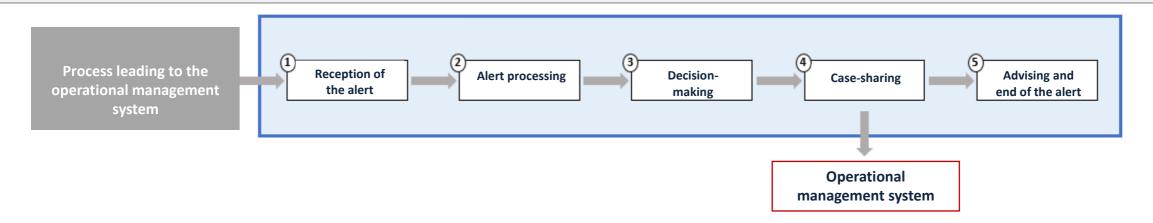
- More information about the caller (e.g. nationality)
- > Easier collection of information (e.g. use of relevant language)







# Annex 3: Operational management system



## The operational management system included in NexSIS will allow:

- To mobilize and allocate available and relevant human and material resources to respond to an emergency situation.
- To oversee the interventions and keep track of all emergencies occurring in a specific area and their evolution.



#### Two main functionalities at the core of the system:

- A computer assisted dispatch (CAD) aiming at disseminating alerts to the appropriate fire and rescue department.
- An information, command and control (ICC) tool, which includes instant visualization of ongoing interventions, datasharing between operational centers and units in the field, and other features such as reflex sheets or diagnosis assistance.

