

IRSN

INSTITUT
DE RADIOPROTECTION
ET DE SÛRETÉ NUCLÉAIRE

Enhancing nuclear safety

A software platform for data control of nuclear emergency exercises

NERIS 2018 workshop

Session 5



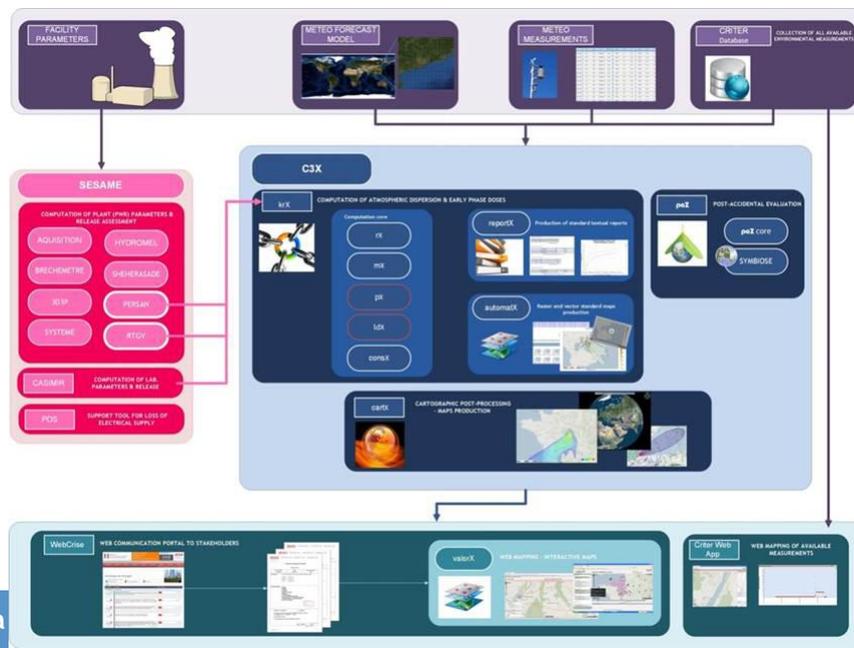
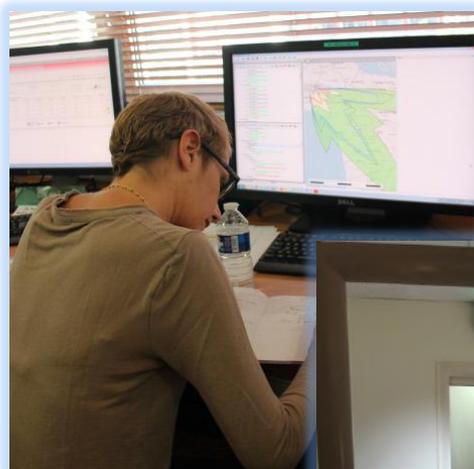
PSE-SANTE/SESUC/BMCA
TOMBETTE Marilyne
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Context



* Technical support for public authorities in case of a nuclear emergency situation

* Crisis Technical Center equipped with a set of tools



Scenario of exercises

- * In France, ~12 exercises / year at a national level
- * Technical scenario and data control



How to get the **??..?? ??** that matches the technical scenario ?

Main goal of scenario data control



- **Difficult conditions**

- **Real time delivery**



- **No connexion**

➤ Values have to be revised before their diffusion to any crisis center to avoid confusion in the understanding of the scenario

➤ No measurement result should be sent without having being revised by a data controller

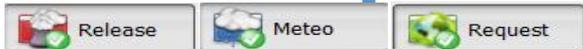
➤ A Bias is introduced by the scenarist (time of response, ...)

More and more constraints

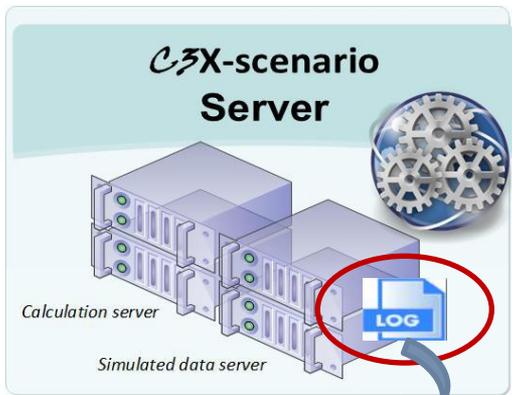
- * Real meteorological fields
- * More and more different measurement means for mobile teams
- * Measurements more and more automated and connected
- * Real-time delivery of measurements



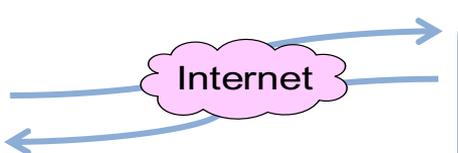
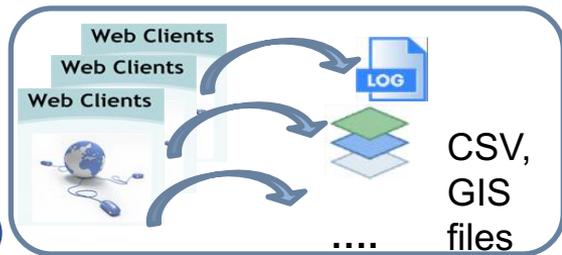
Principle



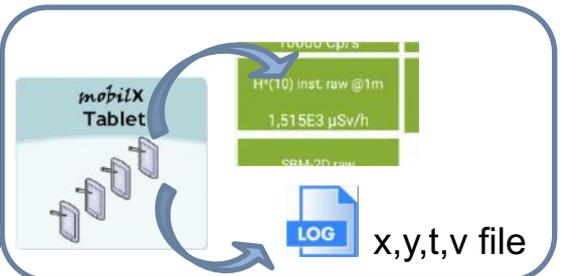
Space, time, RN and source dependent quantities



1a

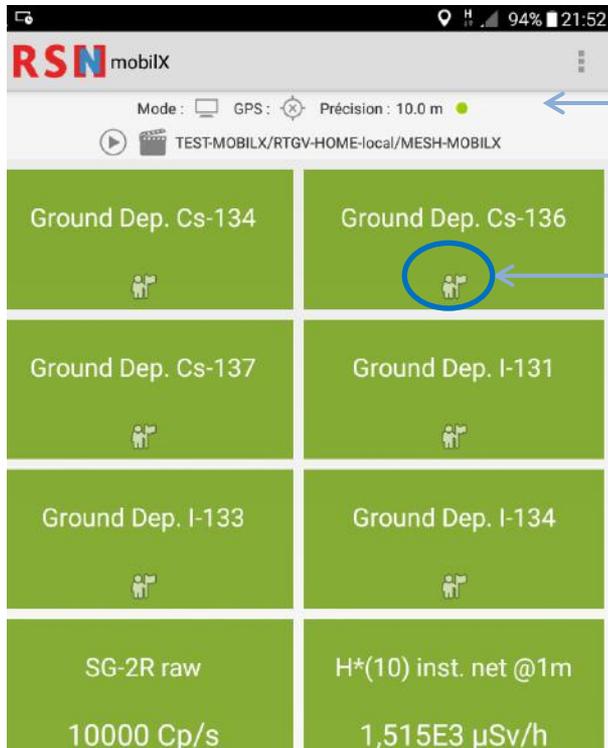


1b



mobilX app

► Mosaic view during a mission



GPS accuracy

Value view and log-recording
on-demand only

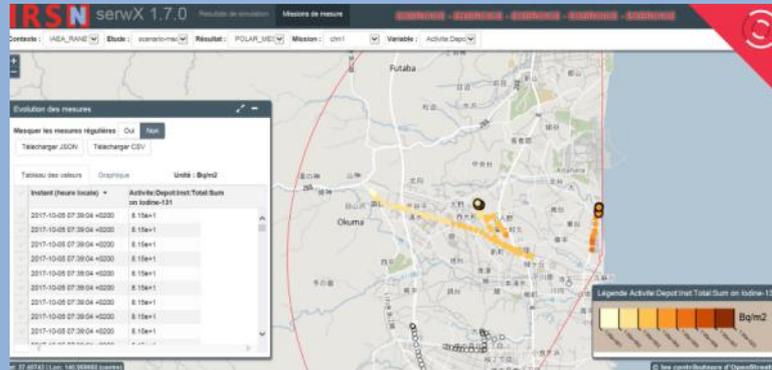
Value view and log-recording
continuously

Examples of use

Measurement trucks - EDF

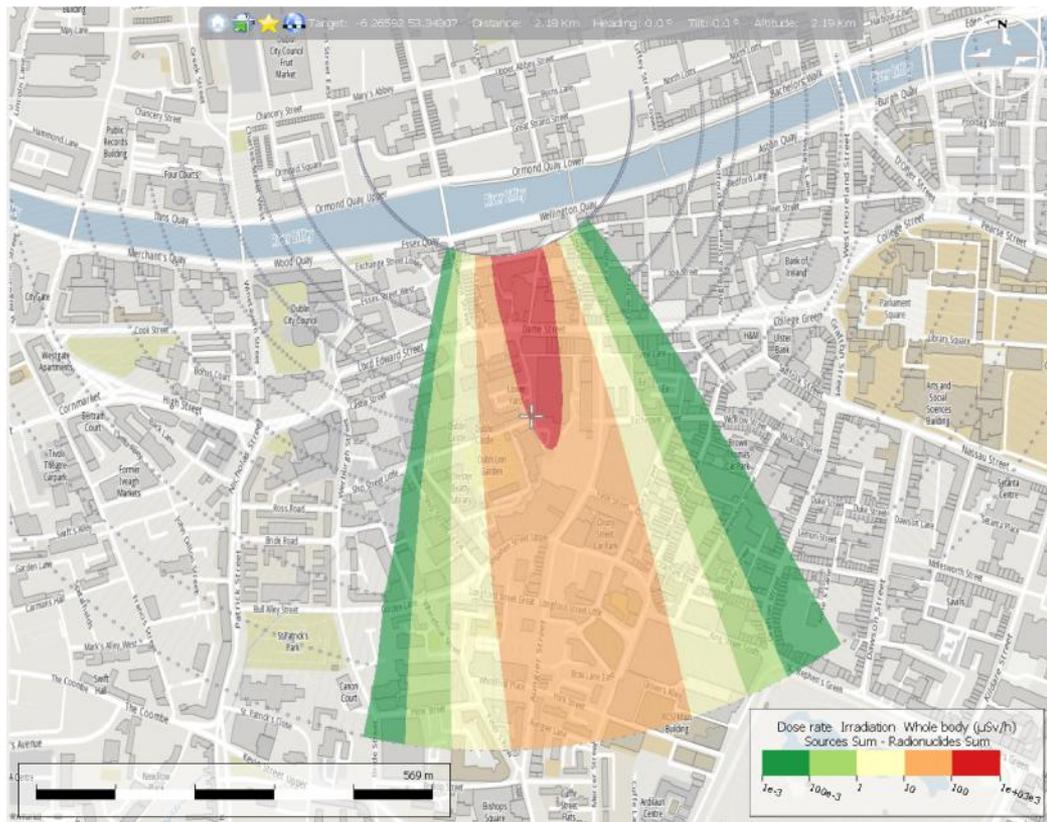


HK 2017
exercice



RANET 2017
exercice (IAEA,
Fukushima, Japan)

If you want to try (coffee break)



Thank you for your attention

ANY
QUESTIONS
?



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