



Faire avancer la sûreté nucléaire

Implementation of an awareness tool to post-accidental issues for local stakeholders



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□ From the post-accidental phase on, the involvement of local stakeholders in accident management becomes more and more important

- Protection of population
- Rural and urban management
- Communication
- > ...

Growing willingness expressed by local stakeholders to <u>improve, in</u> <u>preparedness, their knowledge about post-accidental consequences</u> <u>of nuclear accident</u>



IRSN

HOW ?

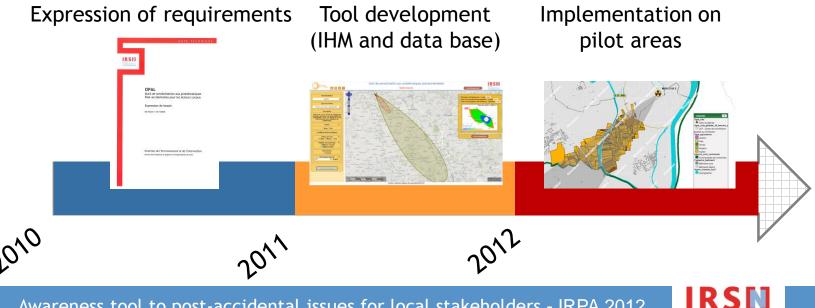
Launch a common action under the partnership ANCCLI/IRSN (2010-2013) with the underlying objectives :

> To develop an awareness tool

> To teach local stakeholders about post-accidental consequences (via Local Liaison) Committees - CLI)

 \succ To identify local issues

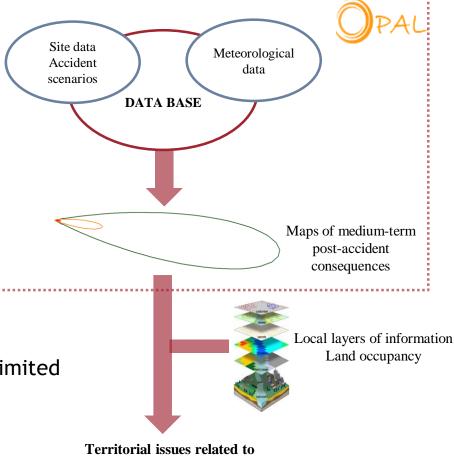
> For IRSN, to collect local information that characterizes environment close to nuclear site



OPAL (awareness tool)

Architecture: Web-mapping tool

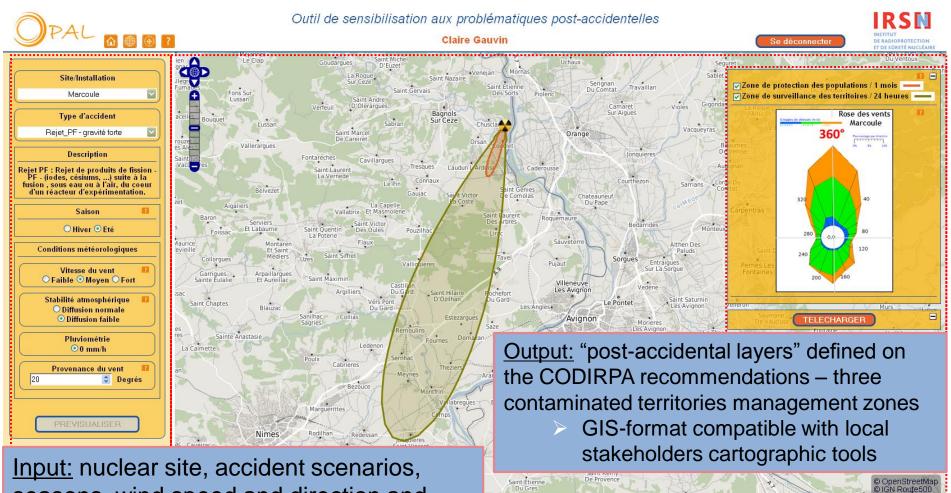
- Accident scenarios pre-calculated with existing tools used at IRSN **Emergency Response Center and** stored in a data base
- Not a simulation tool



Scope of OPAL:

- Severe accident scenarios with limited consequences
 - Post-accidental phase
 - Education and training purpose
- Not relevant for expertise and emergency response management

post-accident



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<u>Input:</u> nuclear site, accident scenarios, seasons, wind speed and direction and atmospheric stability

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CODIRPA recommendations

Relocation Perimeter

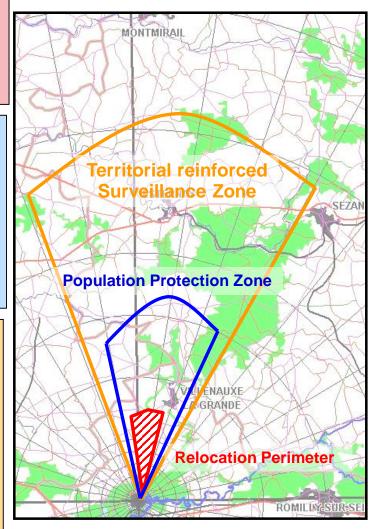
- Highest external exposure
- Population have to be relocated

Population Protection Zone

- No population relocation but require measures to reduce resident exposure
- consumption or sale of foodstuff produced in the ZPP would be prohibited, regardless of their level of contamination

Territorial reinforced Surveillance Zone

- European Community's Maximum Permissible Levels (MPL) may be exceeded
- Restrictions on all forms of sale (mandatory) and consumption (recommended) of farm products
- Implementation of testing systems and sampling strategy to check the respect of MPL before commercialization

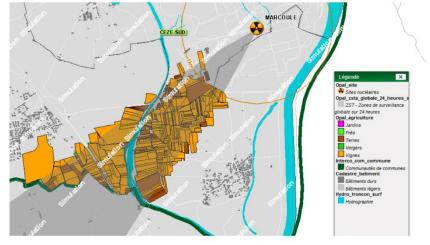


RSI

Implementation on 4 pilot Local Liaison Committees

□ CLI of Marcoule (South of France) started the experimentation at the beginning of 2012:

- Identification of the districts possibly affected by atmospheric deposition following various accident scenarios (gravity, weather condition and wind direction) with OPAL (ongoing)
- Determination of local issues by interviews with involved mayors (ongoing)
- Cartographic representation for data mining (ongoing):
 - drinking water, vineyards, sensitive establishment , ...
- Integration of results in "Local Prevention Plan"



IRSN

Conclusion

OPAL is the result of a collaboration between ANCCLI (local stakeholders) and IRSN

Scope of OPAL:

- Severe accident scenarios with limited consequences
- Post-accidental phase
- Education and training purpose
- Not relevant for expertise and emergency response management
- Not a simulation tool

□ The aim of this project is, <u>in preparedness</u>, to help local stakeholders with the management of post-accidental situations by:

- Identifying local issues for which protection/recovery actions would be necessary (agricultural production located in ZPP and ZST)
- Increasing the awareness of local stakeholders and the public
- > Allowing a better involvement in accident management



Thank you for your attention

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