"Radon: let's clear the air, let's meet the challenge"

IRSN INSTITUT DE RADIOPROTECTION ET DE SÛRETÉ NUCLÉAIRE A pilot and pa in the Haute

Enhancing nuclear safety

A pilot and participatory program to fight domestic radon in the Haute Vienne Region (France)



CONTENT

The Program and the initial goals

The results

- In terms of exposure to Radon in the Haute-Vienne Region
- In terms of efficiency of this Public Empowerment Program including a radon measurement campaign followed by remediation actions when necessary

The key lessons learnt







IRSN RADIOPROTECTION ET DE SÛRETÉ NUCLÉAIRE



Haute-Vienne Region

Review of the Radon Strategy

Media Hype in relation with the ORANO file

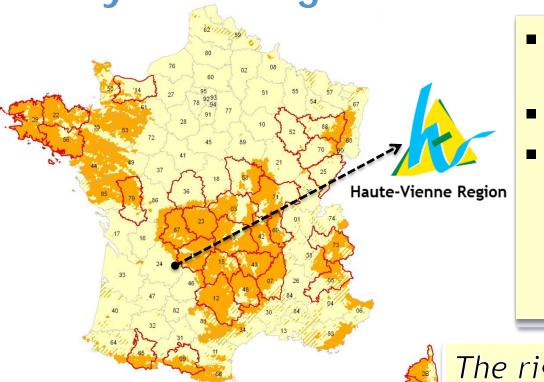
- Priority given to the domestic habitat
- Promoting an increase of public awareness and engagement through territorial actions
- Investigation Campaign March identifying sites re-utilizing tailings
- House / Toddler's day-care contaminated by radon in **Bessines-on-Gartempe**

> Haute-Vienne Region is known to be a territory particularly prone to radon however former initiatives were hampered by the public's apprehension for topics involving radioactivity



2014

Why this Region was selected



- One of the regions with high radon potential
- A uranium mining history
- House / Toddler's daycare contaminated by radon in Bessines-on-Gartempe

Mars 2014

The right time the right moment

The contaminated house increased the interest in the radon issue for a great number of people in the region and the will to engage in the Program (mayors, residents, building professionals etc...)



Partnerships & IRSN Project Team

Community of Municipalities ELAN



Regional Intergration Proximity with the Residents

Lycée des métiers du bâtiment

Construction and Building Skills for Remediation actions
 when necessary

• Interface with Building Professionals

Radon CHANGEONS

D'AIR, RELEVONS LE DÉFI

L'AURENCE GLANE DÉVELOPPEMENT

MONTS D'AMBAZAC

IRSN



- All Round Expertise on RADON Communication & Openness
 to Society
- Project Management, the sypply of the KITS
- The follow-up

Close collaboration IRSN / PartnersResulting in Operational Dynamic

The Program Radon: let's clear the air, let's meet the challenge was born



IRSN Radon Screening Program: the goals



A Support System helping the population to understand that:

- The presence of radon is not experienced as inevitable
- Those who decide to take action do not stand alone in the fight against domestic exposure to radon
- Radon exposures are ultimately reduced



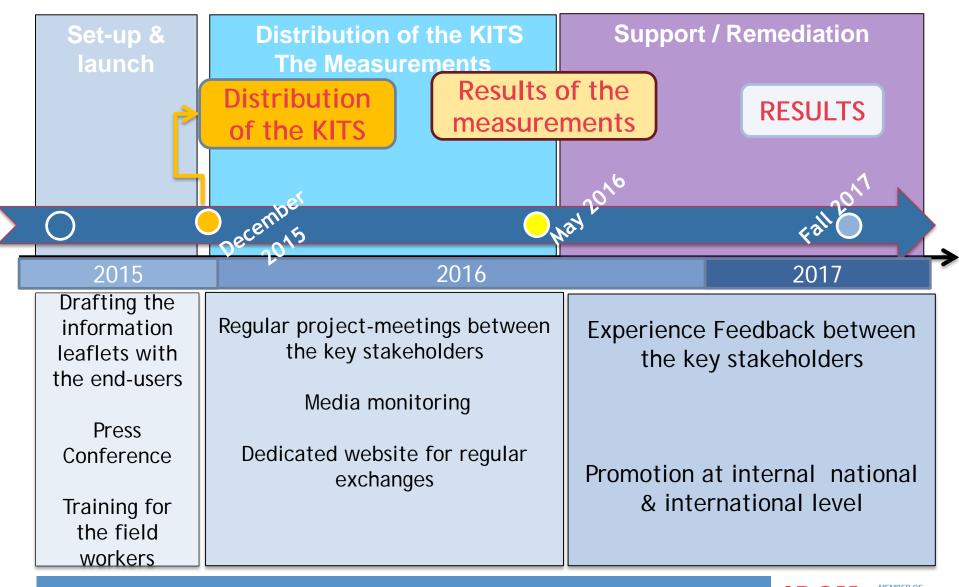
2 Years Program fighting Domestic **Exposure to Radon** Let's clear the air let'smeet the challenge

• 4 Briefings

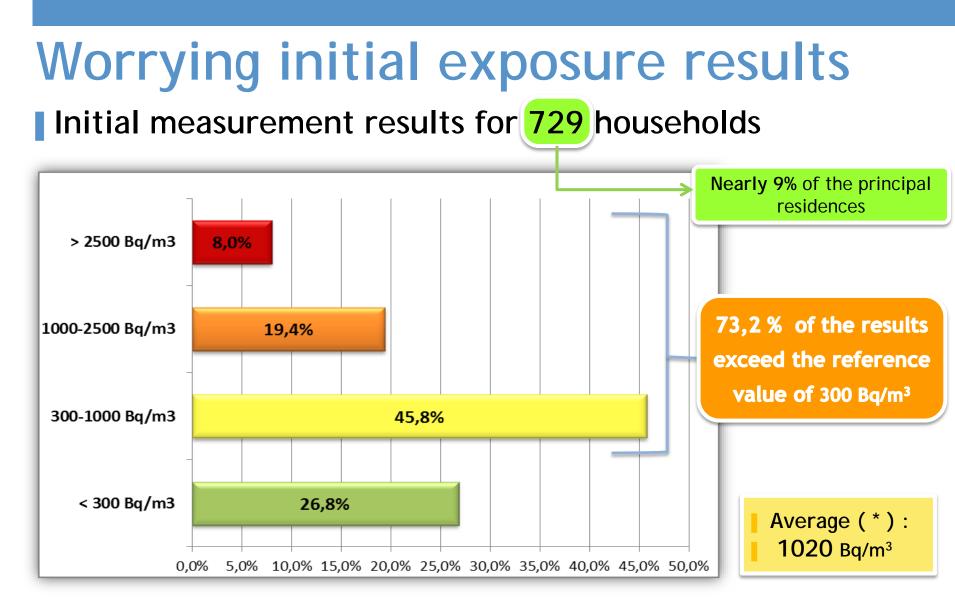


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THE COMMUNICATION INPUT



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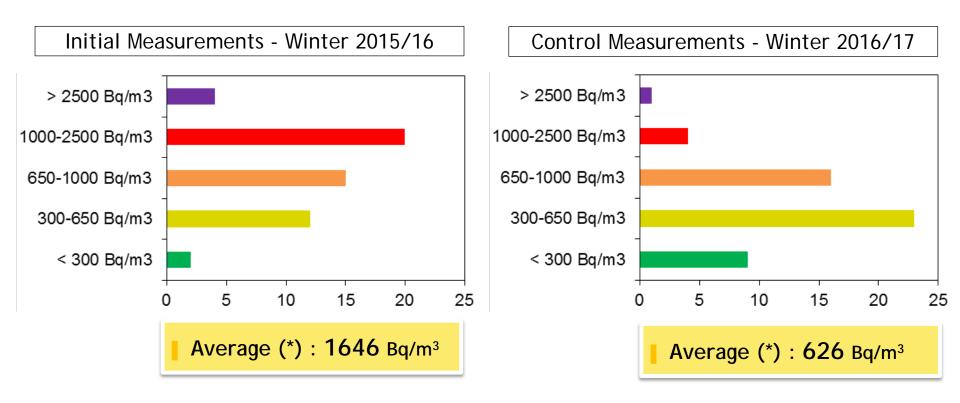
* Average calculated from the maximum radon concentration measured in the living areas of each house





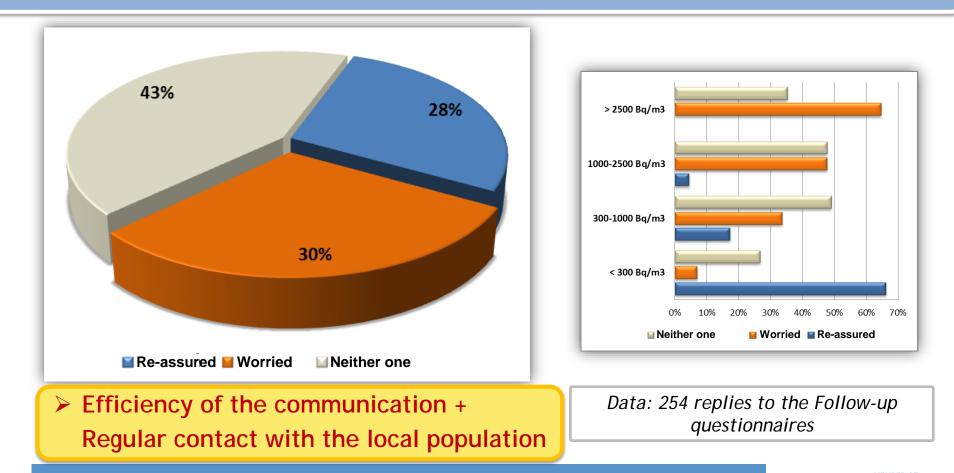
The second phase: Remediation

53 households carried out control measurements after remediation works throughout the year 2016 to lower their domestic Radon exposure



* Average calculated from the maximum radon concentration measured in the living areas of each house

The efficiency of the IRSN Radon Program No excessive fear in spite of high radon concentration results Level of concern well correlated to the importance of radon concentrations measured



What next

Encourage local partners to continue their actions beyond the end of the program

- Improvement and promotion of the Program thanks to the Experience Feedback and the Lessons Learned
- Via the Regional Environmental Health Plan 2017-2021 for the Nouvelle-Aquitaine region
- Via the National Radon Action Plan 2016-2019
- Deploy new actions in favor of other communities... either in a territorial or/and digital way



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