Radon
101

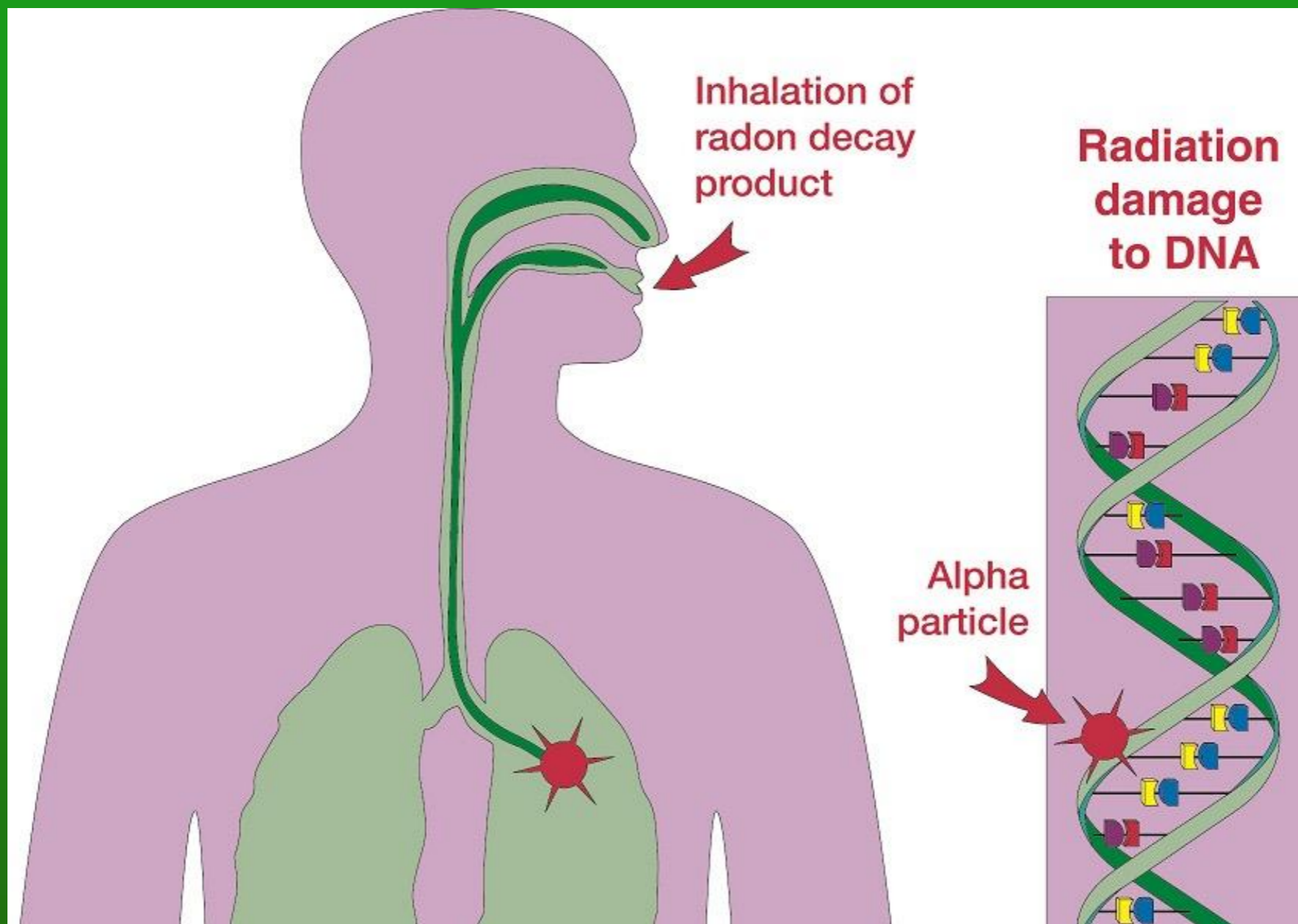## Presented by Jeff LeBlanc BSc, CMI, CRT, CRMT

WHAT IS RADON?

- **Radon is a Class 1 Carcinogen**

- **Radioactive gas that is naturally occurring in the Earth's crust.**

- **Radon is an odourless, tasteless, invisible radioactive gas**

- **Radon is a product of the radioactive decay of Uranium and Radium**
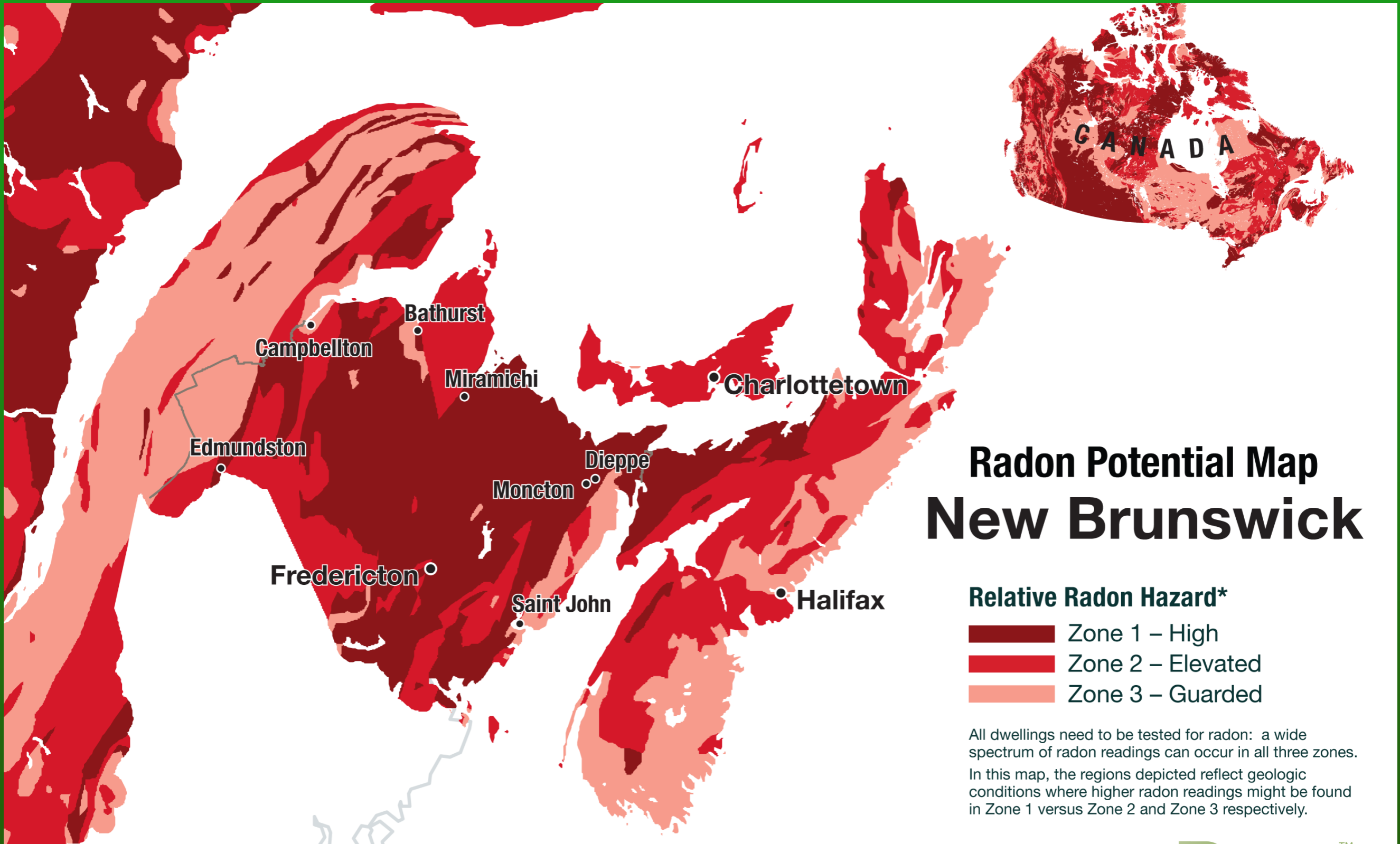
Why Is It Harmful?
Lung Cancer

- **Radon gas is responsible for 3200 Canadian deaths per year (Health Canada)**

- **Radon gas causes 15% of lung cancers worldwide (WHO)**

- **7% of Canadian homes have Radon levels above acceptable level (200 Bq/m3) (Health Canada 2012 study) (14000 homes)**

How Radon Causes Cancer

What About NB?

- **7% of Canadian homes have readings over 200 Bq/m3**

- **24.8% of homes in NB have readings over 200 Bq/m3**

Radon Potential Map
New Brunswick

Relative Radon Hazard*

Zone 1 – High
Zone 2 – Elevated
Zone 3 – Guarded

All dwellings need to be tested for radon: a wide spectrum of radon readings can occur in all three zones.

In this map, the regions depicted reflect geologic conditions where higher radon readings might be found in Zone 1 versus Zone 2 and Zone 3 respectively.

CANADA

Campbellton
Bathurst
Miramichi
Edmundston
Dieppe
Moncton
Charlottetown
Fredericton
Saint John
Halifax

Health Canada Recommendations

200 - 600 Bq/m³
fix your home
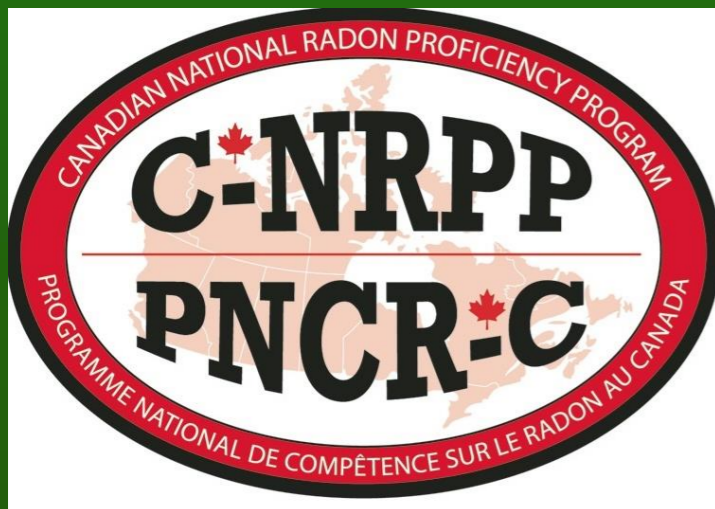within 2 years

Above 600 Bq/m³
fix your home
within 1 year

ere is no safe level of radon. It is the choice of the home owne

What do I do if my levels are high?

Call A Certified Radon Mitigation Professional

c-nrpp.ca
carst.ca

MEMBER OF:

100 Radon Test Kit Challenge Results Riverview NB

- Results were slow coming in from the lab. Data is being finalized as we speak.
- The Take Action on Radon Team will be in touch soon with the results.

PROPOSAL
Radon Testing Plan for Town Properties

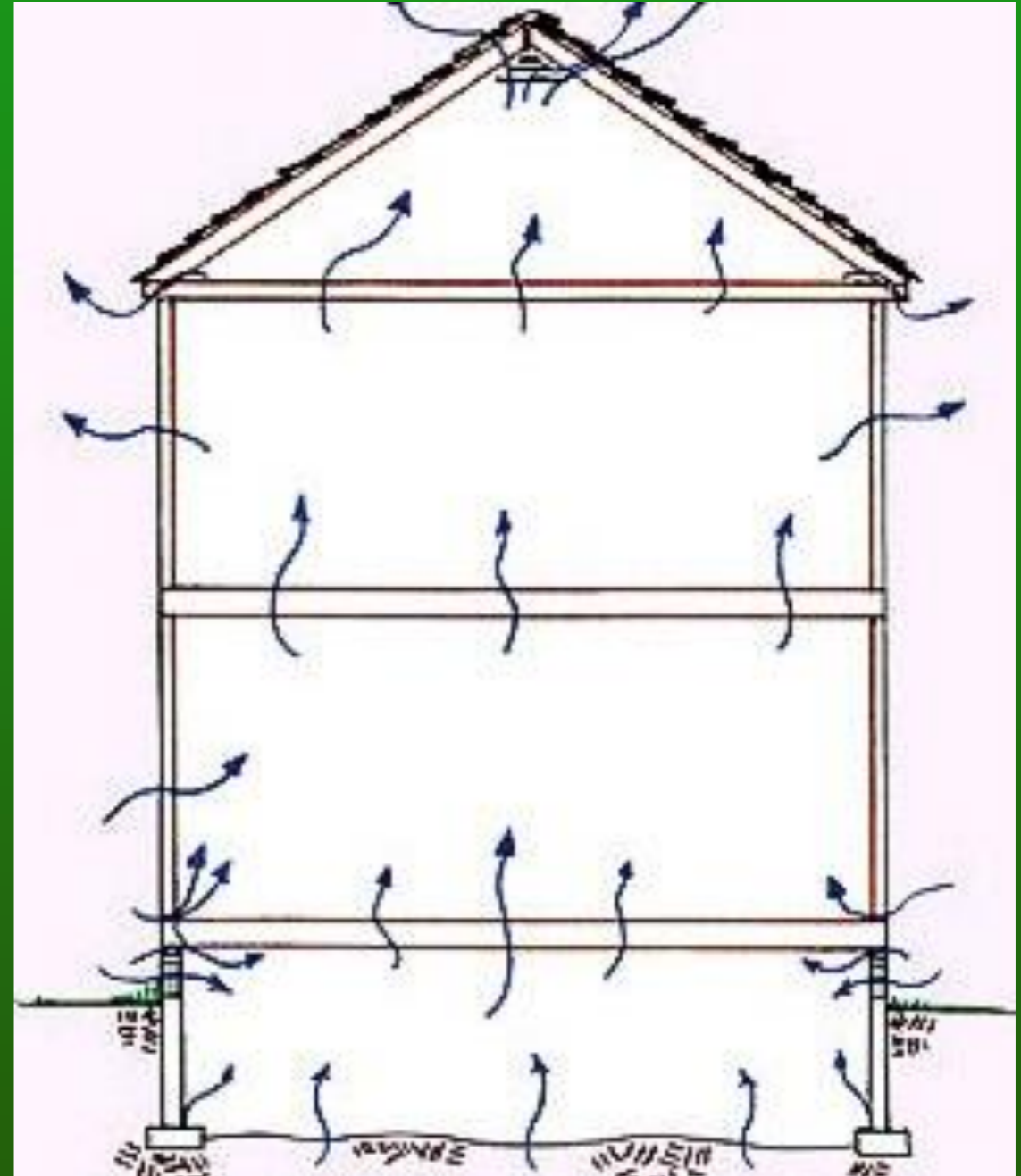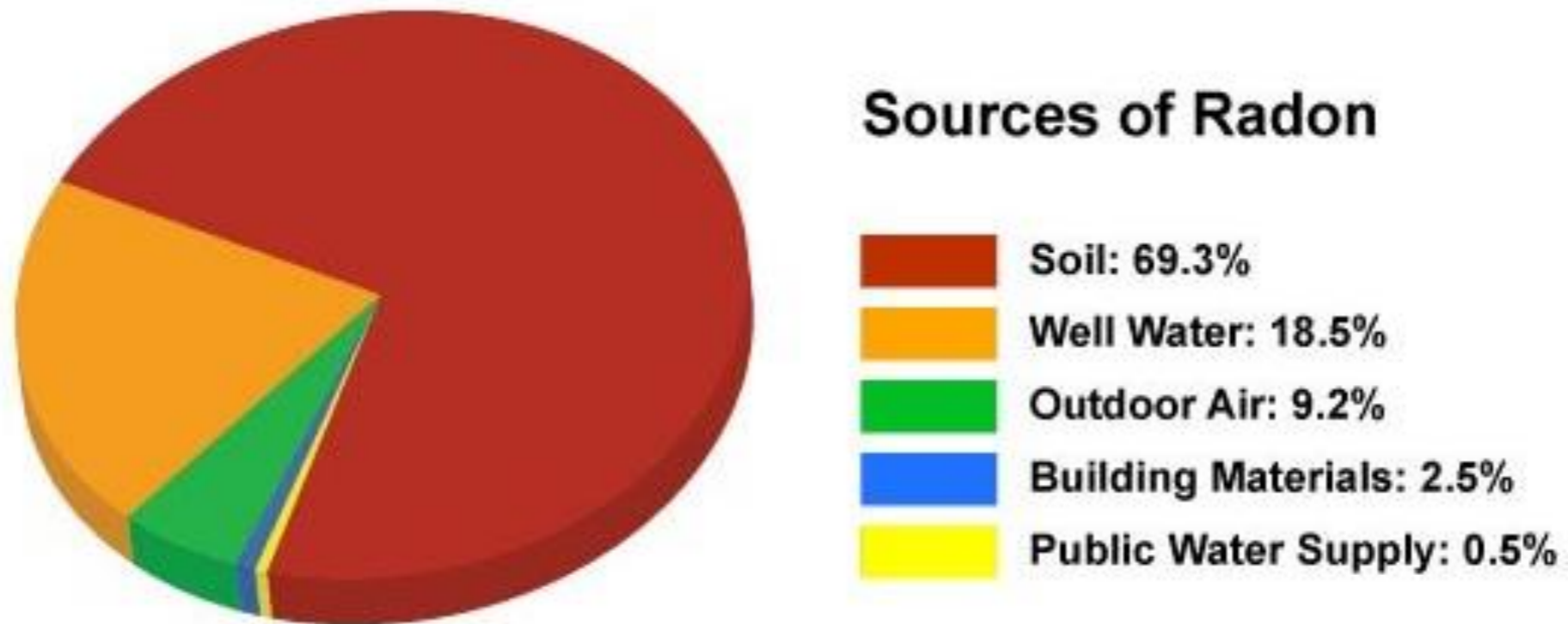- Radon Repair would like to offer our services to help create a Radon Testing Plan for all Riverview Town Buildings.

Stack Effect

- **Hot air rises and some air escapes through the upper levels (attic)**

- **This creates an air draw at the lower levels**

- **Soil gas and outside air is "sucked" into the house at the lower levels due to lower pressure at lower levels.**

Sources of Radon

- Soil: 69.3%
- Well Water: 18.5%
- Outdoor Air: 9.2%
- Building Materials: 2.5%
- Public Water Supply: 0.5%

- **Radon from building materials (low)**

- **Radon from Water (few studies) (1/10,000 Rule)**

- **Radon movement through concrete (low chances)**

- **Air pressure differentials (Stack Effect)**

All Homes Should be Tested

- **Homes can have different Radon levels on the same street**

- **Underlying soil dictates if Radon is present under your home**