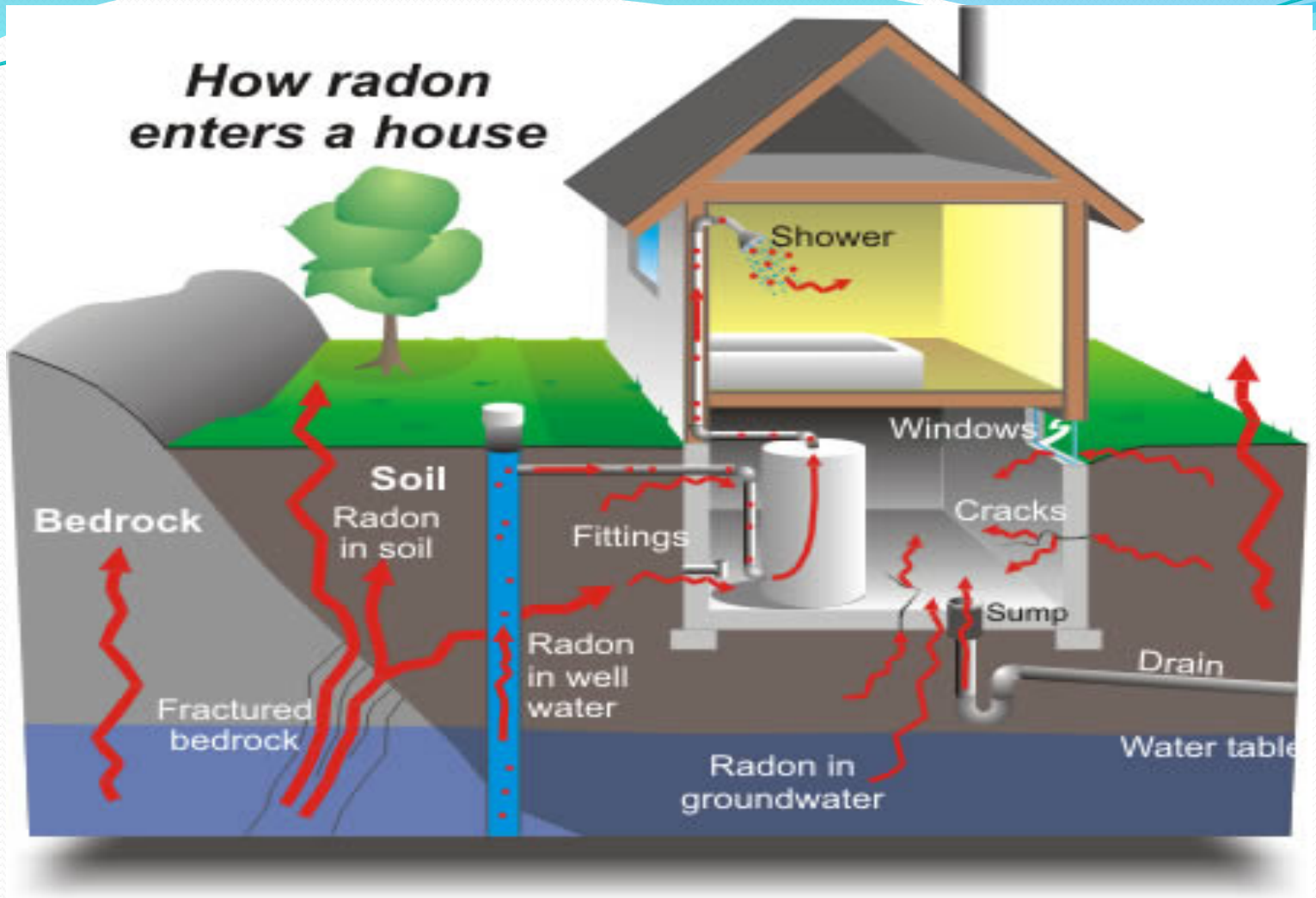
Peter Diethrich

GAP Manager

Southern Ute Indian Tribe

Ignacio, CO



Most mitigation systems are known as “active soil depressurization” and attempt to prevent the radon from entering the home.

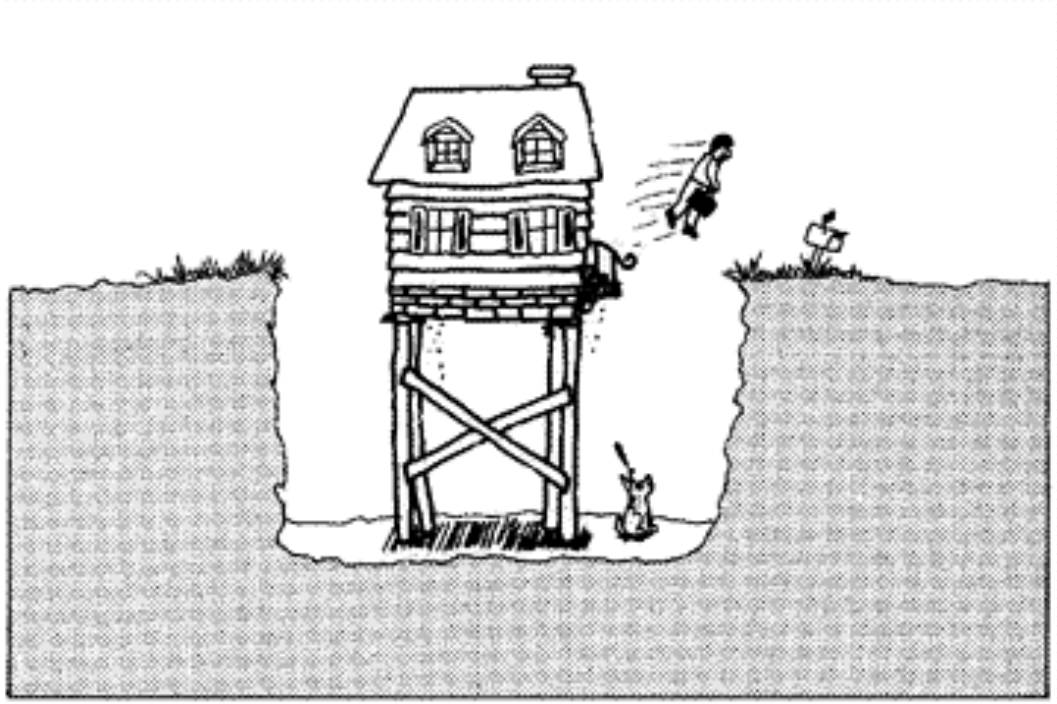
Different Types of Mitigation

- Active soil depressurization (ASD) and mechanical ventilation (most common)
- Above slab air pressure differential barrier
- Heat recovery ventilators

There can be potentially serious issues with installing mitigation systems.

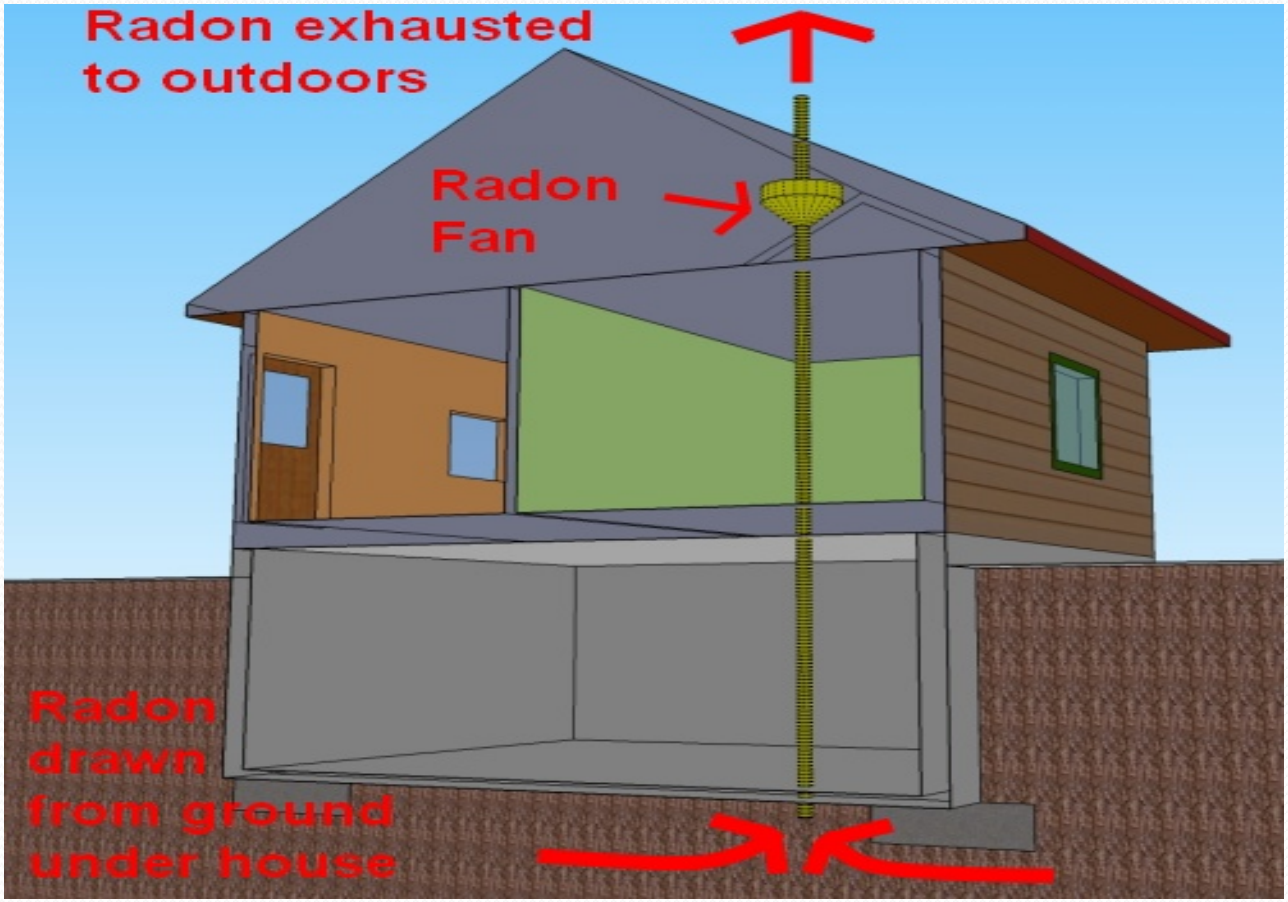
- **An exhaust fan that pulls too much air from the home can cause natural gas appliances to "backdraft" causing increased carbon monoxide levels in the home.**
- **Mitigation systems installed in humid regions can compound moisture issues such as mold and mildew.**
- **Poorly installed mitigation systems can greatly increase winter heating costs.**

One way to ensure that your home is safe from radon



Ambient outdoor radon levels average 0.4 pCi/L

Basic Radon Mitigation



The cost of radon mitigation is between $800 to $2,500 with an average of about $1,200

-Cracks in basement floors and walls need to be sealed.
-The floor/wall joint is a common culprit.
-Cinderblock walls are an open invite for radon to come into the house.

This image shows a hole drilled in the basement floor to draw air from under the concrete slab.

The tools necessary for radon mitigation will vary depending on the individual circumstances. The vacuum in this photo should be vented to the outside.

Mitigation in crawlspace

Pipe to fan

Active soil depressurization. Notice the piping under the plastic

Actual Mitigation Photo

Most mitigation systems can be designed to blend into the natural structure and utilities of the home

Summary

- **The most common type of mitigation is the active soil depressurization.**
- **There is no "one system fits all" approach to radon mitigation and care should be taken to install the right system for each unique circumstance.**
- **Radon mitigation *can* cause secondary issues such as back-drafting natural gas appliances and increase heating costs.**
- **Annual inspection of mitigation system should be completed**

Funding Opportunities

- EPA State Indoor Radon Grant (SIRG)
  - Requires minimum 40% match
- State Grants
  - $15,000 to 10% of the annual appropriation amounts and for tribes funding from $10,000 to $80,000 per applicant is available
- HUD Housing Grants
  - Coordinate with your tribal housing office
- There are several non-governmental funding opportunities

Peter Diethrich
(970) 563-0135 ext. 2238
pdieth@southernute-nsn.gov