

The Austrian Experience in Radon Risk Communication

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Austrian Agency for Health and Food Safety (AGES)

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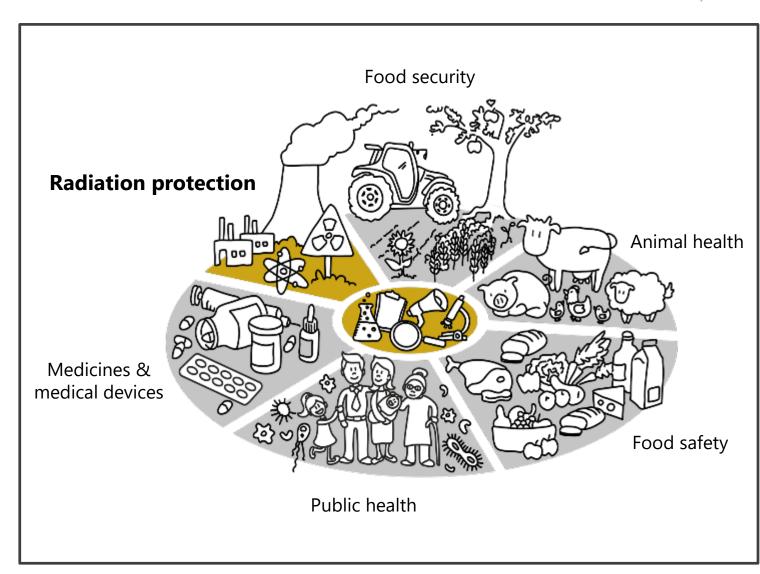
Organisation and legal basis



Owner

Republic of Austria, represented by

- Ministry of Labour, Social Affairs, Health and Consumer Protection (BMASGK) and
- Ministry of Sustainability and Tourism (BMNT)



Department Radon and Radioecology

Tasks

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- Emergency preparedness
- Monitoring of the environment and foodstuff
- National Radon Centre of Austria
- Accredited laboratory



Tasks:

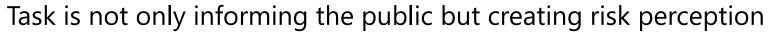
- Advising Ministry (EU-BSS)
- Information, risk communication
- Training and education
- Radon measurements (dwellings and workplaces)
- Austrian radon map, delineation of "radon areas"





Communicating Radon ...

... in Austria

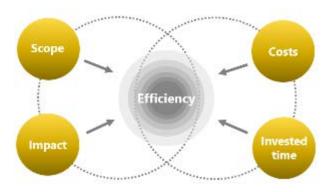


→ which leads to action!

Austrian Radon Risk Communication Concept (2016)

- Overall goal: reduction of radon exposure in dwellings
- Situation in AUT Information on target groups, communication tools
- List of possible activities
 - Estimation of efficiency (scope, impact, costs, invested time) for each activity
 → decision-making tool whether or not an activity is probably efficient
- Activities being implemented each year
- Future goal: implementation of the radon topic in the educational system
- → Communication with and between many stakeholders required !!







Source: WHO, Handbook on Indoor Radon, 2009

Radon Risk Communication Activities



Communication channels

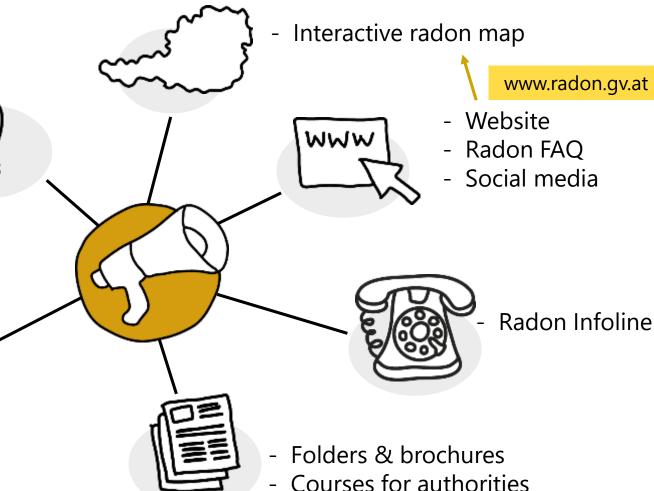
Activities in progress:

- Short video clip

- 07.11.2019 – Radon Day: event for schools and universities

- Nov. 2019: Course for building professionals

- E-Mail inquiries radonfachstelle@ages.at



Monitoring of radon in the media

Situation in Austria

"The Good Radon"



Radon therapy & Radon in Spas

- Water supply for radon spas: very high radon concentrations can occur
- Cutgassing of radon from healing water to the indoor air
 - Dose for patients negligible
 - Radon exposed workplace: dose estimation for workers required by law
- Opinion of many people: radon provides a health benefit!









Situation in Austria

"The Bad Radon"







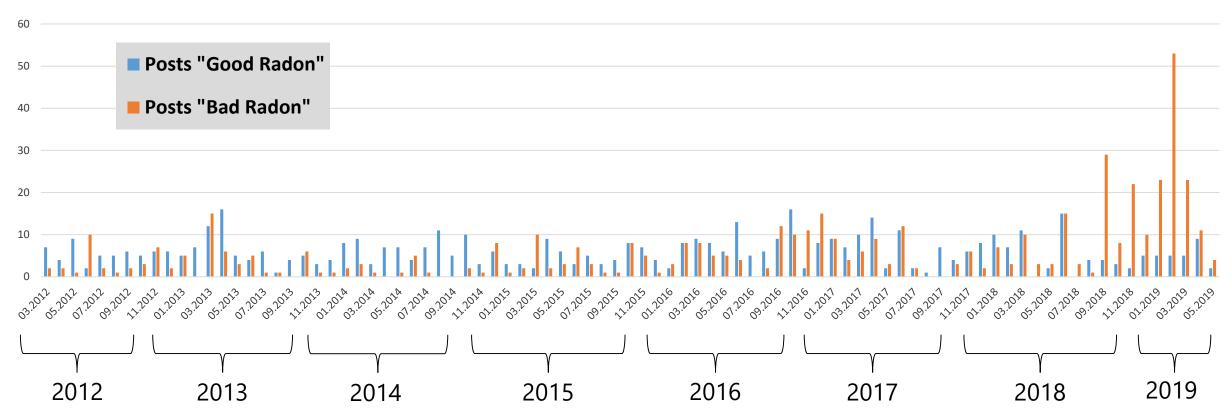
~ 400 deaths caused by radon induced lung cancer per year in Austria!

Monitoring of Radon in the media

Situation in Austria



Media Statistics "Good vs. Bad Radon"



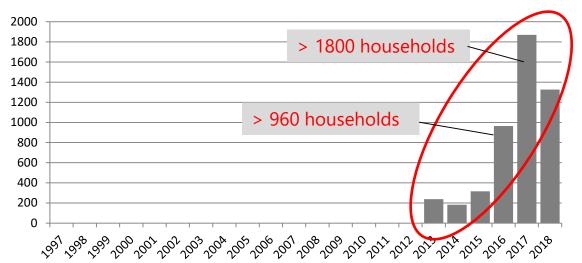
Radon measurements in dwellings

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Measures to improve quality and increase number of measurements

- Ministry of Environment (BMNT) funds measurements in private dwellings, if
 - according to Austrian standards (6-months, questionnaire, protocol) and
 - agreement that data can be stored in national data base
- Funded by the ministry since 2014, online registration
- Info material, brochures, video for public

Number of measurements in Austria





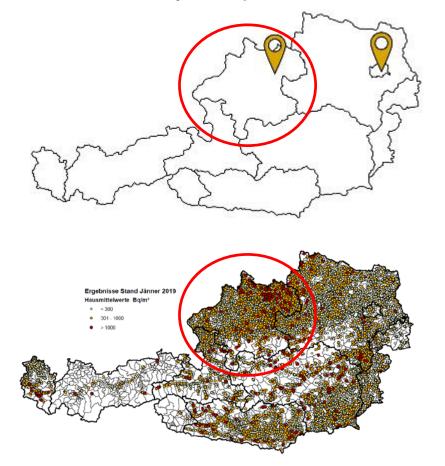


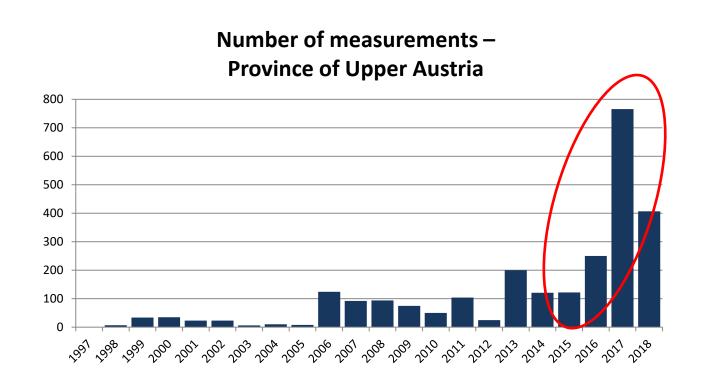
Radon measurements – Radon awareness

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Experience in the province of Upper Austria

- Free long-term measurements in dwellings without basement
 - Funded by the province since 1997



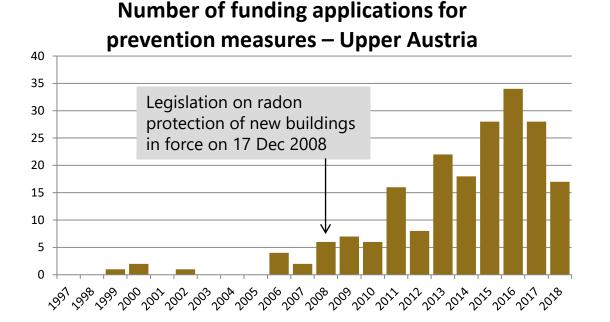


Radon measurements – Radon awareness

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Experience in the province of Upper Austria

- Long-term measurement free of charge since 1997
- **Financial support** for
 - Remediation \rightarrow if radon level > 1,000 Bq/m³ \rightarrow 20 % of remediation costs max. 2,000 EUR
 - **Prevention** (Radon drainage) → for new buildings in radon prone areas 500 EUR



→ Financial support by the authority since 1997

Remediation

→ Only 15% of dwellings (above 400 Bq/m³) asked for advice and support

Prevention in new dwellings

- → 4,000 new dwellings per year
- ~ 30/year with prevention

From the psychological point of view ...

Experience in the province of Upper Austria



- > Financial support helps but not much change of behavior yet!
- Risk communication = cognitive aspect + emotional aspect (Hevey et al. 2017¹)
 - People do not act rational about radon as a health hazard in their home
 - Emotions act as filters: → Radon is natural, it's always been there! → People feel safe in their home!
 - Suggestions:
 - Radon testing should be "normal" and visible
 - More regulation by the authority
 - Financial support + high quality and trustworthy information
- Risk communication in Austria
 - So far, mainly cognitive aspect addressed (providing measurement and information)

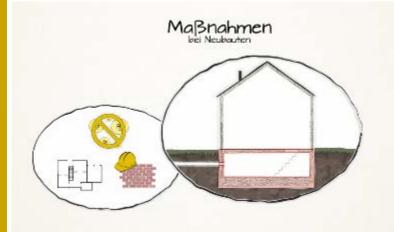
Radon Information and Awareness video

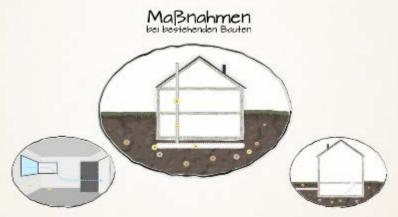
Currently in progress..

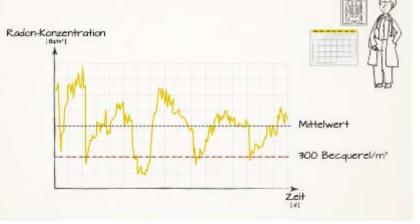












Experience and lessons learned

Radon communication strategy



- Next step: opinion survey and evaluation of implemented activities
- Special situation: promotion of health benefits in radon spas for a long time
 - "Good Radon" in spas vs. "Bad Radon" in dwellings → intensify communication
- Financial support helps but needs thorough risk communication!!
 - More barriers than financial burden -> emotional aspects need to be addressed



- Risk communication is a time consuming process -> regularly repeating the message over a long period of time
- → Still a lot of work to do to increase "radon awareness with action" in Austria!!!



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