

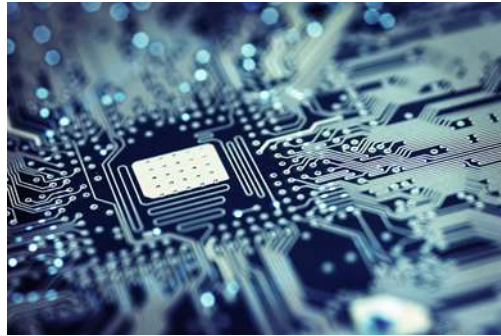
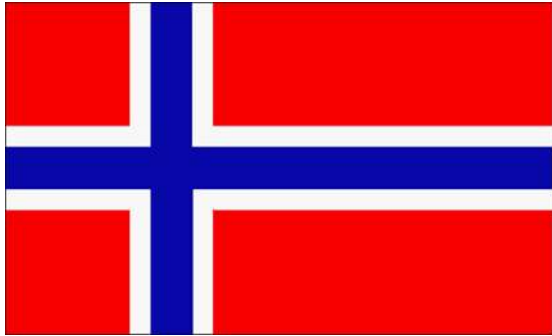


corentium



Erlend Bolle
Corentium AS
erlend.bolle@corentium.com

 corentium



CANARY



- Homeowner

PRODUCT
LINE



CANARY pro



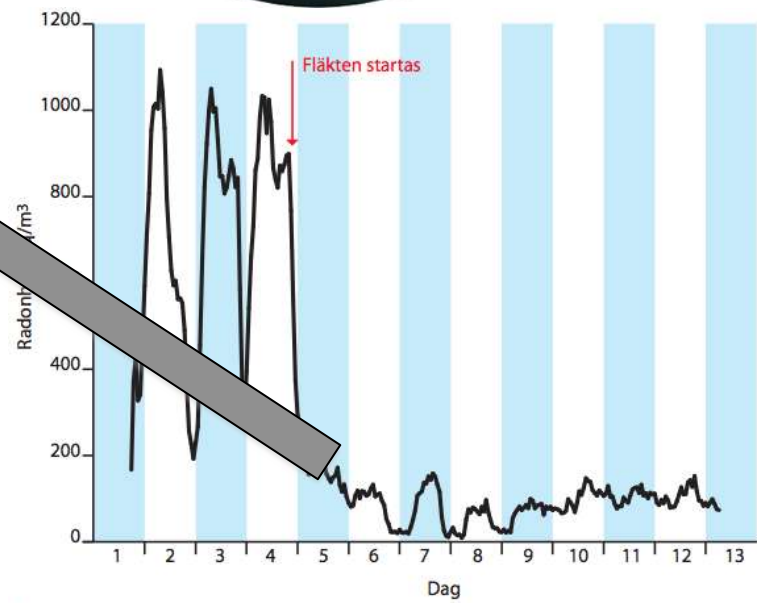
- Workplace
- Kindergarten
- Professionals

CANARY

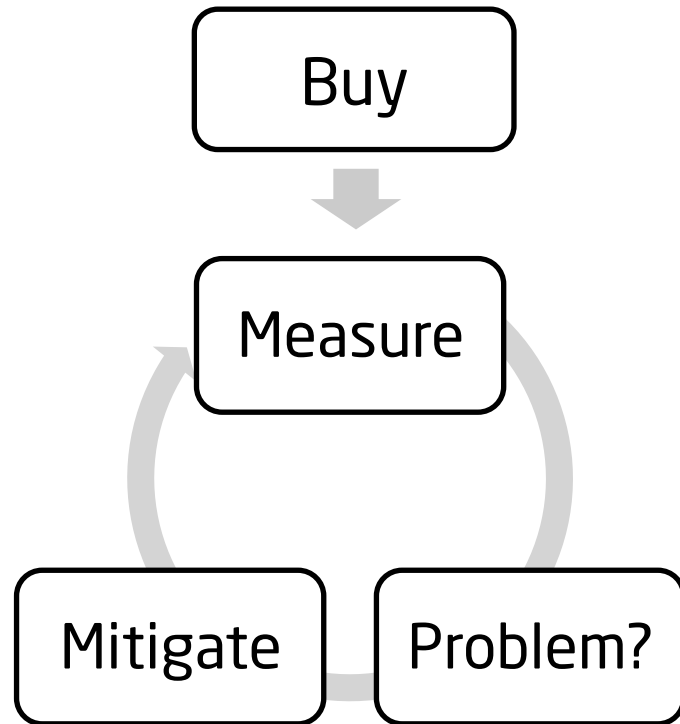
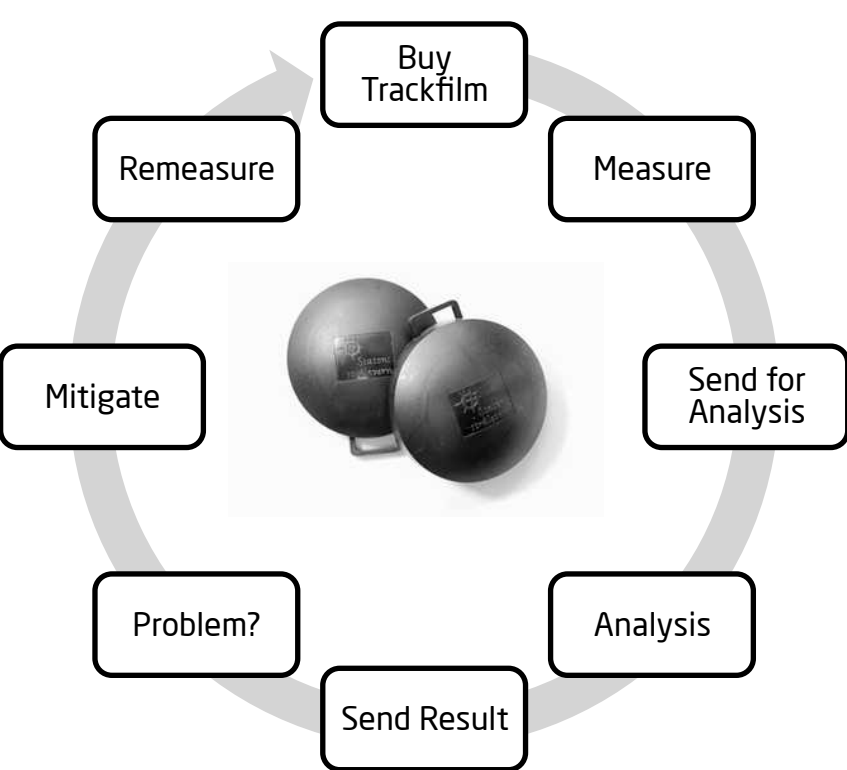


- Radon dosimeter
- Average dose:
 - ✓ Day
 - ✓ Week
 - ✓ Year
- Battery operated
- User friendly
- Large display
- Self-testing

CANARY



Passive vs Active - Protocol



Inter-comparison Studies



Calibration

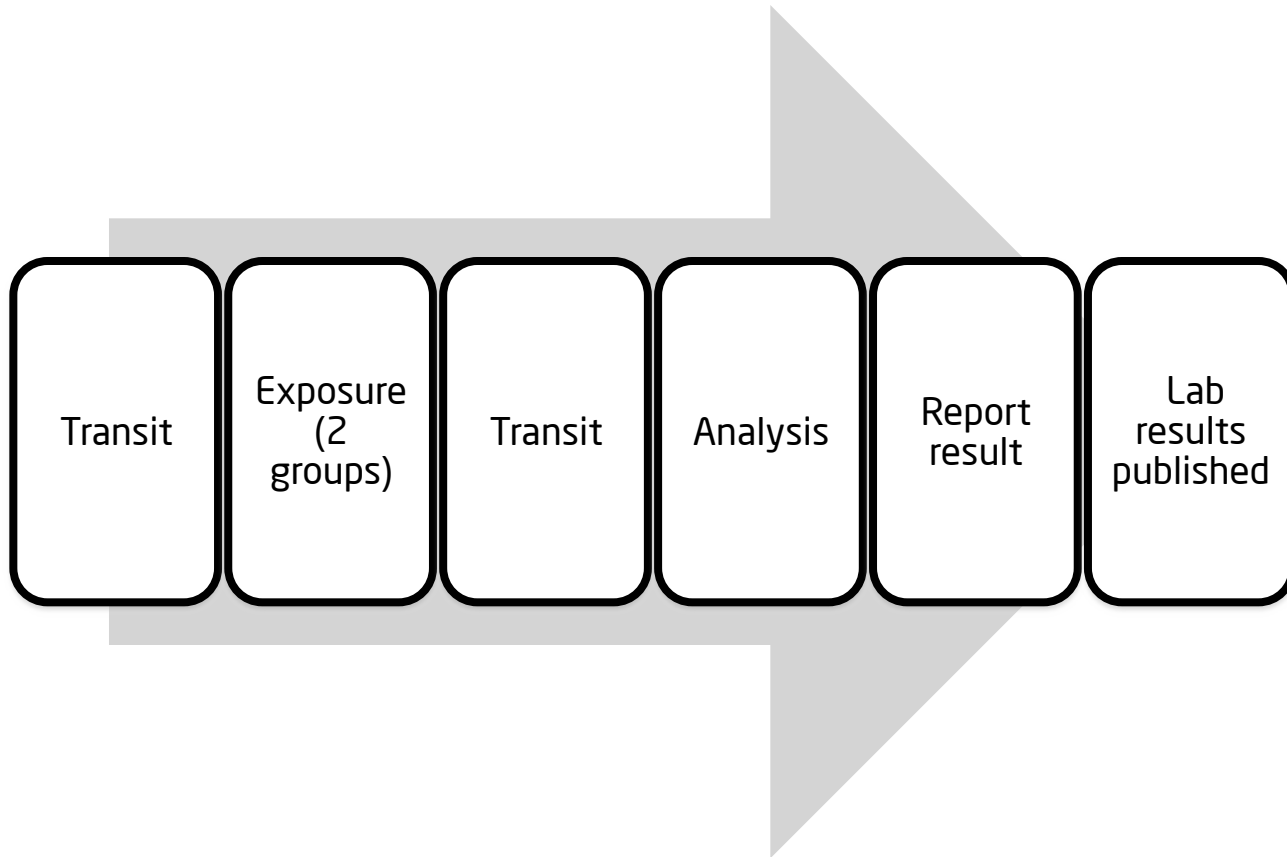


BfS Intercomparison



- Participants: 40
- Yearly test
- 125Bq/m^3 for 2 months

Procedure





Bundesamt für Strahlenschutz

BfS Intercomparison 2013 Results





BfS Vergleichsprüfung für passive Radonmessgeräte 2013: Ergebnisse /

BfS Intercomparison of Passive Radon Detectors 2013: Results

Laborcode/ Laboratory code: **60**

Set Nummer / Set number: **1**

Prüfcode / Test code: **H1**

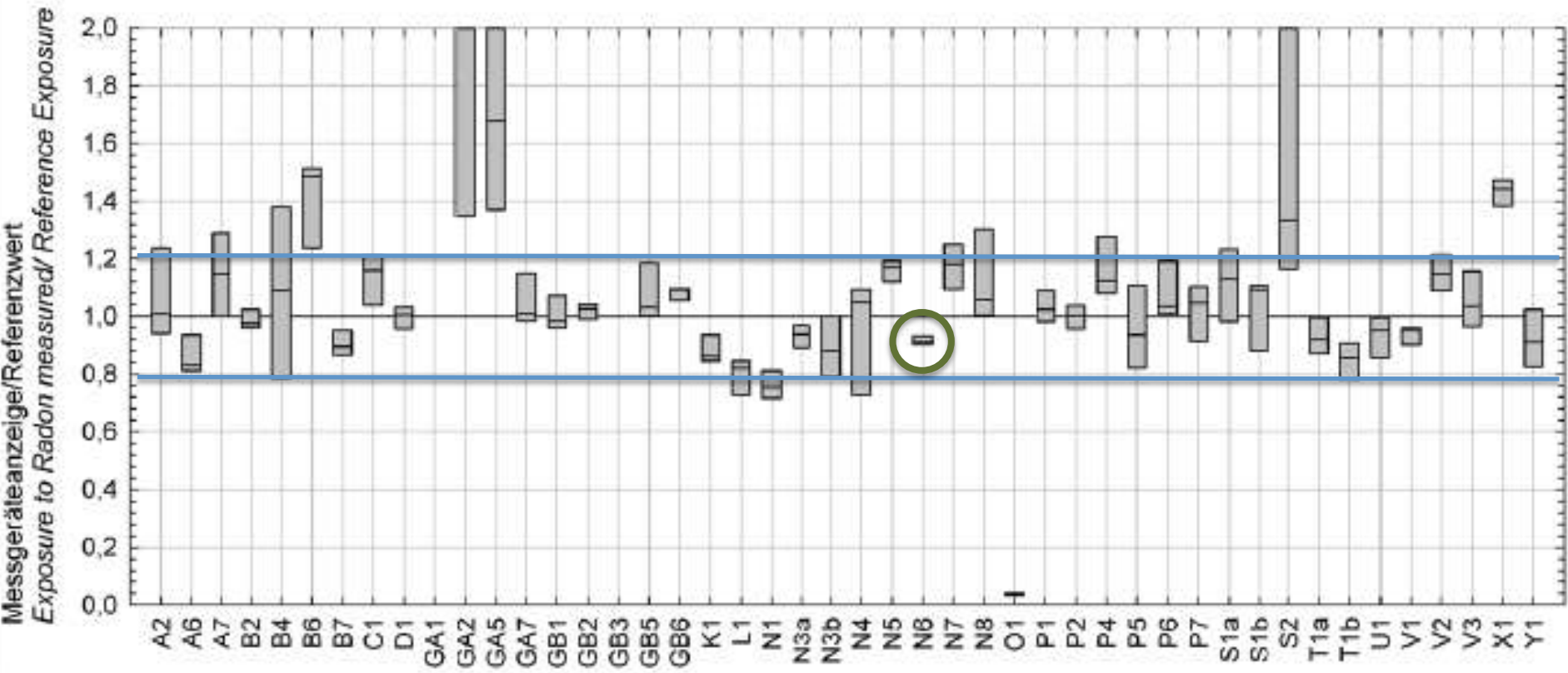
Expositionsgruppe/ Exposure group	Transitgruppe/ Transit group		1		2		3		4	
Referenzwert der Rn-222-Exposition/ Reference exposure to radon-222 $P_{Rn,Ref}$ [kBq·h·m ⁻³]			180		1050		1100		2832	
Nummer / Number	Messgeräte- Code/ Code of device	Anzeigewert/ Indication [kBq·h / m ³]	Messgeräte- Code/ Code of device	Anzeigewert/ Indication [kBq·h / m ³]	Messgeräte- Code/ Code of device	Anzeigewert/ Indication [kBq·h / m ³]	Messgeräte- Code/ Code of device	Anzeigewert/ Indication [kBq·h / m ³]	Messgeräte- Code/ Code of device	Anzeigewert/ Indication [kBq·h / m ³]
1	60108	13.4	60106	176.6	nicht exponiert/ not exposed		60101	1049	nicht exponiert/ not exposed	
2	60110	14.4	60107	175.6			60102	1038		
3	60112	13.4	60109	162.2			60103	1037		
4	60113	16.5	60111	149.8			60104	1098		
5	60114	18.6	60116	179.7			60105	1066		
6	60117	15.5	60118	164.3			60115	1076		
Mittelwert/ Mean value [kBq·h·m ⁻³]	15.3		168.0				1060.7			
Standardabweichung/ Standard deviation [%]	13.2		6.8				2.3			
Relative Messabweichung / Relative error [%]			-6.6				-3.6			

Der Expositionszeitwert der Radon-Messgeräte der Transitgruppe wurde bei der Auswertung durch den Teilnehmer berücksichtigt. /

Ja / Yes

The exposure value of the radon measurement devices of the transit group has been taken into account by the participant.

Nein / No



*

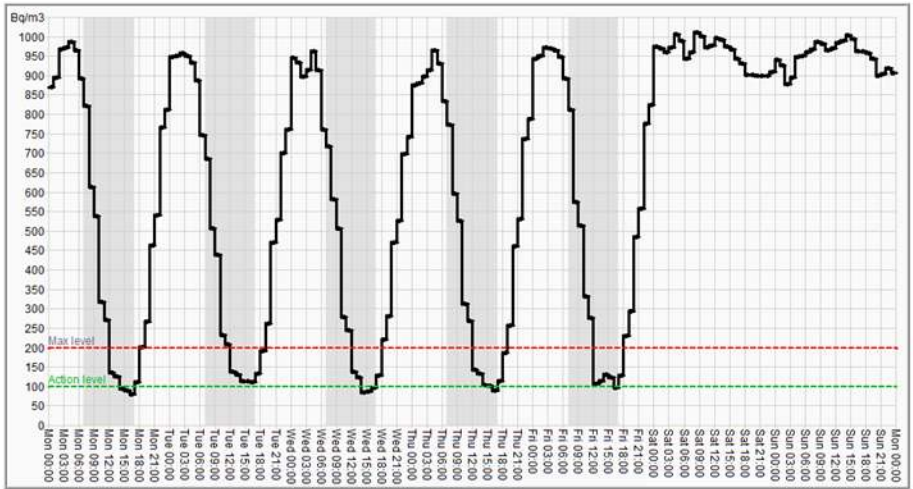
 Active detector

*approx. 100Bq/m³ for 2 months

CANARY pro



CANARY pro



CANARY pro

Load data from Canary

Load progress

COM port COM 26

Load data from file

Currently selected data file

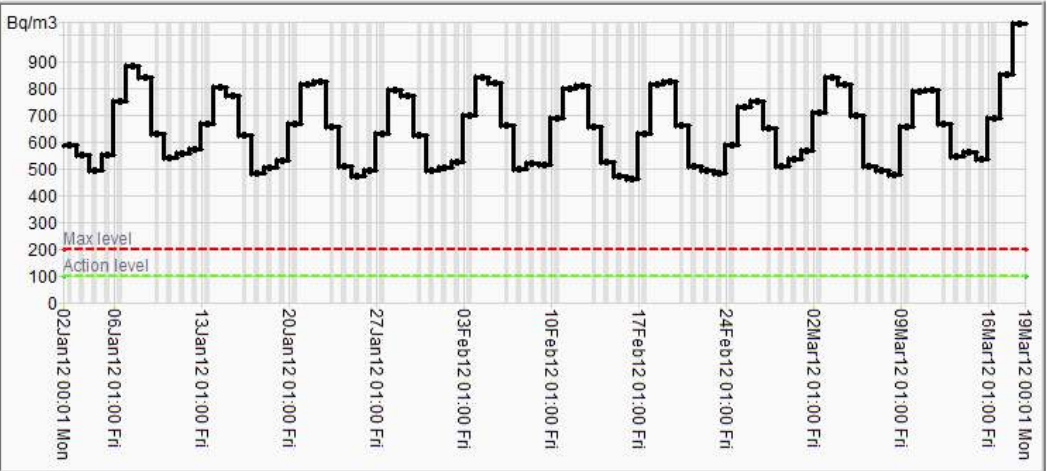
C:\WORK\CORENTIUM\SW\LabView\Canary-ReadbackAndAnalyse\DATAFILES\example-data-file.cor

Select a new information tag to add to your data file here

<Choose new tag here>

Information tagged to the data file

Tag name	Tag value
Name	
Street address	
Zip code	
Place	
E-mail	
Phone	
Ventilation	
Building foundation	



Full period overview

Start time:

2012-01-02 00:01

End time:

2012-03-19 00:01

Mean conc. full period:

646 Bq/m3 (+/-6%)

Mean conc. in work time:

527 Bq/m3 (+/-7%)

550 hours, using the days
Mon-Fri. 07:00-17:00



Average week plot

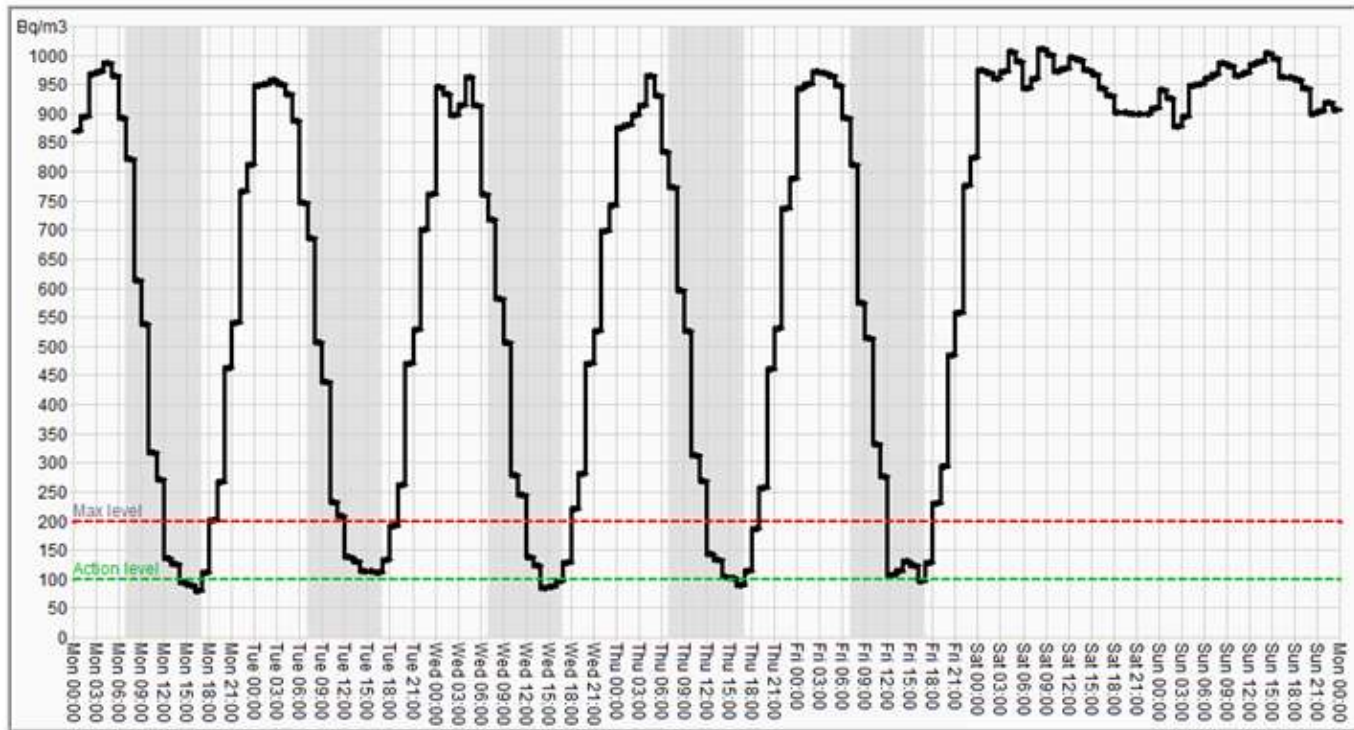
Select Week Interval

Dump plot to spreadsheet

Plot options

Mean conc.: 297 Bq/m³ (+/-8%)
Exposure: 163.49E+3 h*Bq/m³

Start time: 2012-01-02 00:01 End time: 2012-03-19 00:01
Time interval: 550 hours, using the days Mon-Fri, 07:00-17:00



Danke für die Aufmerksamkeit!