

National Institute for Public Health and the Environment Ministry of Health, Welfare and Sport

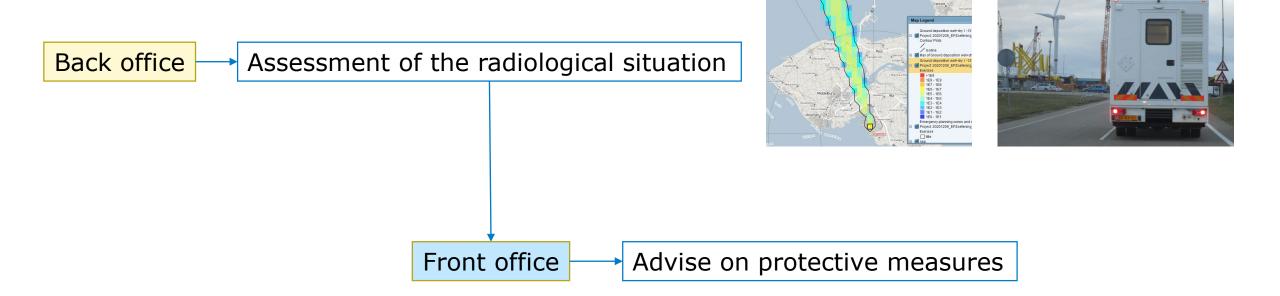
Realistic training and practice for radiological emergency preparedness and response in The Netherlands

Teetske van Gorcum, Jasper Tomas, Peter den Outer June 29, 2023





Crisis Expert Team radiation and nuclear





Back office

RIVM: National Institute of Public Health and Enrivonment

- Authority for Nuclear Safety and Radiation Protection Task force
- Royal Netherlands Meteorological Institute



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KWR Water Research Institute



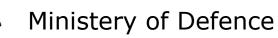
Rijkswaterstaat



National Poisons Information Centre

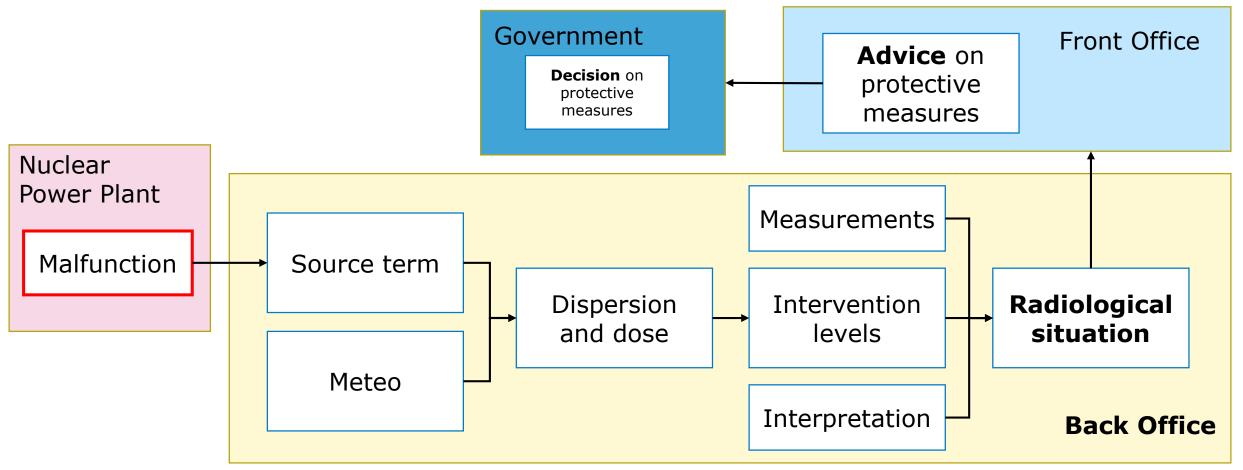


Wageningen Food Stafety Institute





Processes





Training and exercise

- Tasks in EP&R are not part of daily work
- Incidents are rare

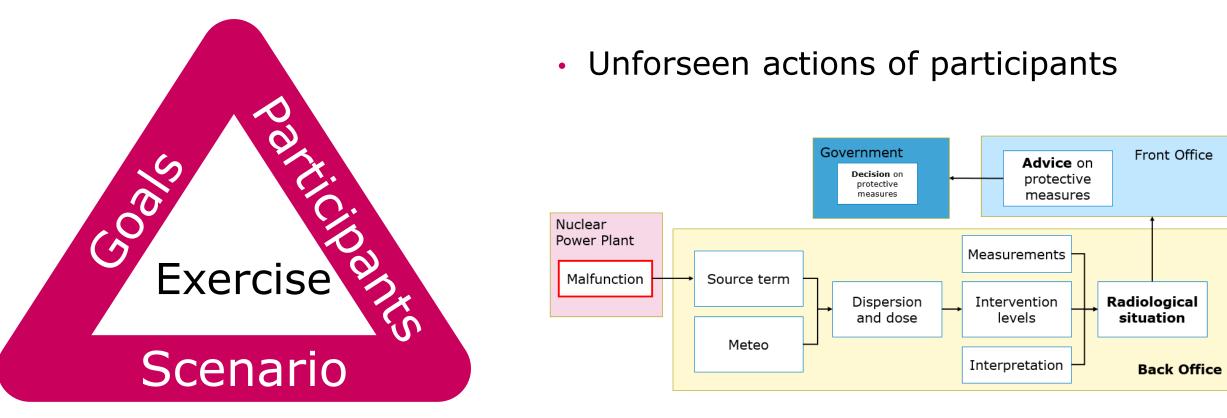


Realistic training and exercise is important

- Design
- Tools



How do we design an exercise?





Creating realistic circumstances

- Intervention
- Major Event List
- Injects
- Response group
- Exercise tools

>> Realistic

Major Event List

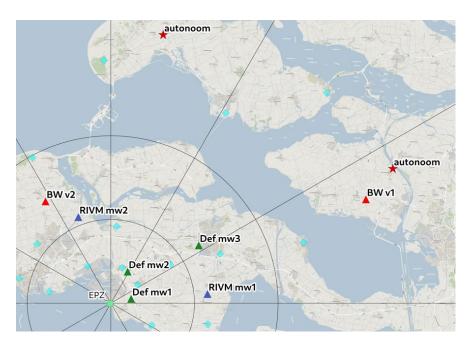
Time	Event	Participant
08:00	Malfunction NPP	-
08:xx	Notification to national Autority	NPP operator
08:xx	First NPP report	NPP > CET
08:xx	Activation of Crisis Expert Team	Back office and Front office
09:xx	First report on technical assessment	Back office
09:xx	First dispersion assesment	Back office
		7



Exercise tool RODIN

• RODIN = Real time Online Detector simulator In Nuclear exercises

=	<	Brandweer - MeetploegGoes			
	Locatie:	Latitude/Longitude:	51.356	1	3.688
		Rijksdriehoekscoördinaten (x,y):	36647	,	375466
		Actueel gammadosistempo 1.9914	2+7 (nSv/h) 03-	05-2023





Exercise tool RODIN

			Measurement vehicles			Food	Rijkswaterstaat and drinking	Other measuring
			RIVM	Ministery of Defense	Fire brigades	Safety institute	water laboratories	partners (WVI's)
Gamma dose rate nSv/h		\checkmark	\checkmark	\checkmark				
Air	Noble gas	Bq/m3	\checkmark					
	Air dust	Bq/m3	\checkmark	\checkmark				
Deposition	Grass and soil	Bq/m2	\checkmark			\checkmark		
	Crops/food/etc.	Bq/kg				\checkmark		
	Water*	Bq/l					\checkmark	\checkmark



National Institute for Public Health and the Environment *Ministry of Health, Welfare and Sport*

Thank you!

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