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VERBINDT

Kruibeke

Zwijndrecht
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Emergency planning and preparedness: what does it mean for your municipality?



Yves D'Eer, Emergency Coordinator
Municipality Beveren-Kruibeke-Zwijndrecht

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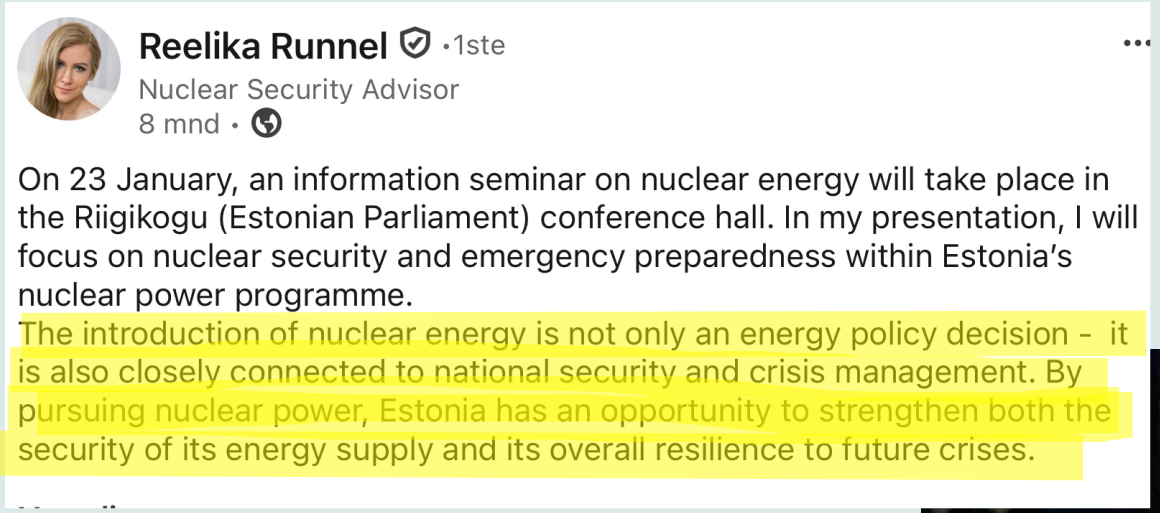


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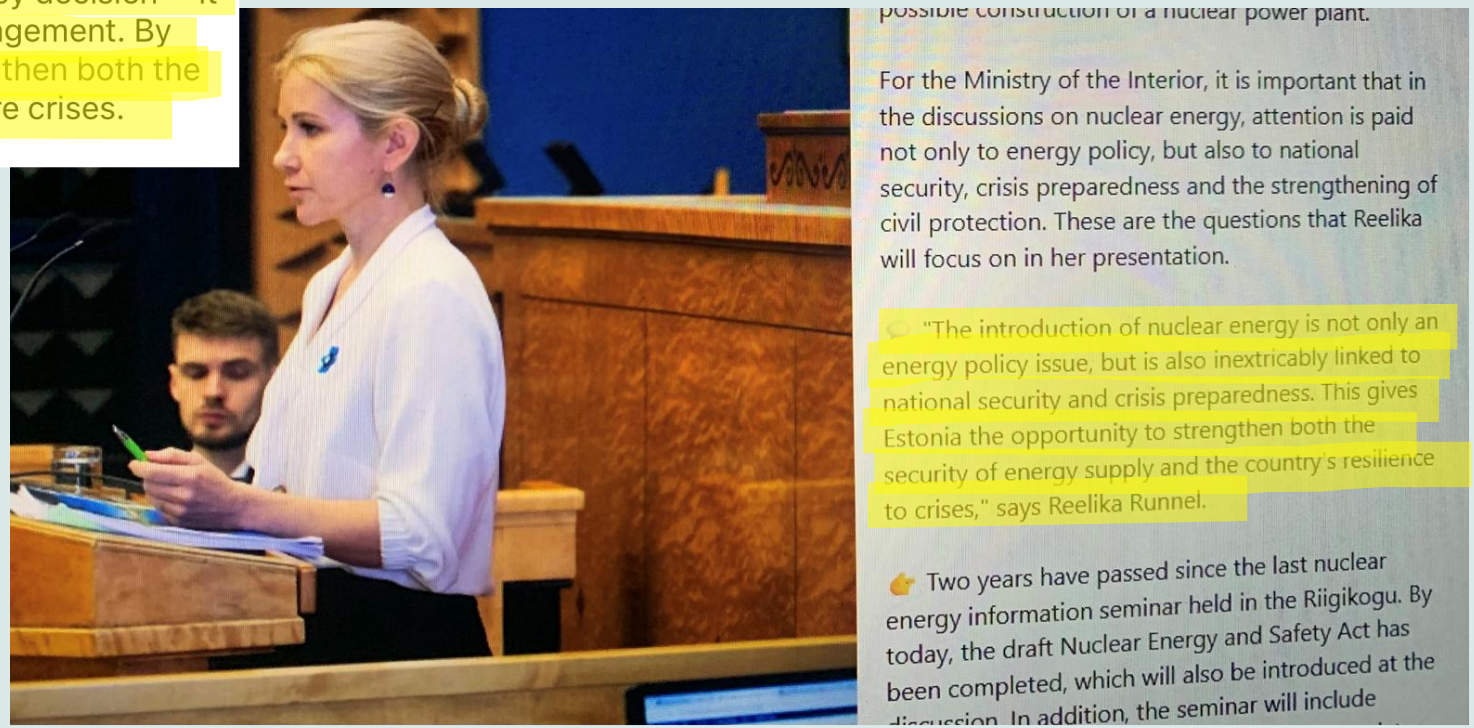
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Boost for Local Emergency Preparedness & Response



- Fire department:
  - ✓ Funded
  - ✓ Highly expertised and skilled staff
  - ✓ Well equiped
  - ✓ …
- Attention for resilience
- Local expertise in Emergency Management



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Local Knowledge and expertise: education – training – e-learning

~ Emergency Coordinator(s):

- BE: mandatory by law in every municipality
- BKZ: 2 EM - in the crisis room and in the field – always on call
- Mayor:
  - Chairs the Municipal Safety Cell and Coördination Committee
  - Supported by emergency coordinator and services
- Basic and expert education and training
  - Recruitment on Master-level
  - Basic courses and study
  - Postgraduate Disaster Management (1-2 Years)
  - SCK CEN Academy: EP&R-training (1 intense week)
  - Online Certificate National Crisis Centre (NCCN)
    - e-learning - 7 modules
  - Exercises
- Member of Crisis Support Team Belgium (CST)

RAMPEN MANAGEMENT

Postgraduaat rampenmanagement

sck cen
Academy

Preparedness and response for nuclear and radiological emergencies
March 1 - 5, 2027 | SCK CEN Lakehouse, Mol, Belgium



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Knowledge and expertise: education – training – capacity building

~ BKZ: high risk profile and nuclear is one of many

- Doel Nuclear Power Plant
  - Power lines (150 KV and 380 KV) + power stations
- Waaslandhaven (left bank Port of Antwerp)
  - 183 businesses
  - 22.086 fte direct employment + indirect = 49.913 fte
- Petrochemical industry – dangerous goods:
  - Largest petrochemical cluster in Europe
  - 42 Seveso-companies: 30 HR – 12 LR(high level of hazmat)
  - Production, handling, storage and shipment
- Transport of dangerous goods: rail, road, ship, pipelines
- Shipping: transport of goods and persons (waterbus, rivercruises, cruiseships, …)
- Active military base(s)
- Prison
- …

Belgian Nuclear Emergency Plan: A Collaboration

FANC AFCN
FEDERAAL AGENTSCHAP VOOR NUCLEAIRE CONTROLE
AGENCE FÉDÉRALE DE CONTRÔLE NUCLÉAIRE

Province de HAINAUT

sck cen

Santé publique
Sécurité de la Chaîne alimentaire
Environnement

BELGOPROCESS

provincie Oost-Vlaanderen

ENGIE Electrabel

Crisiscentrum
Centre de Crise

FSG &
Municipalities

IRE | IREElit Radiopharma

Risk-analysis

Develop plans with key-actors

PROVINCE de NAMUR

Joint Research Centre JRC

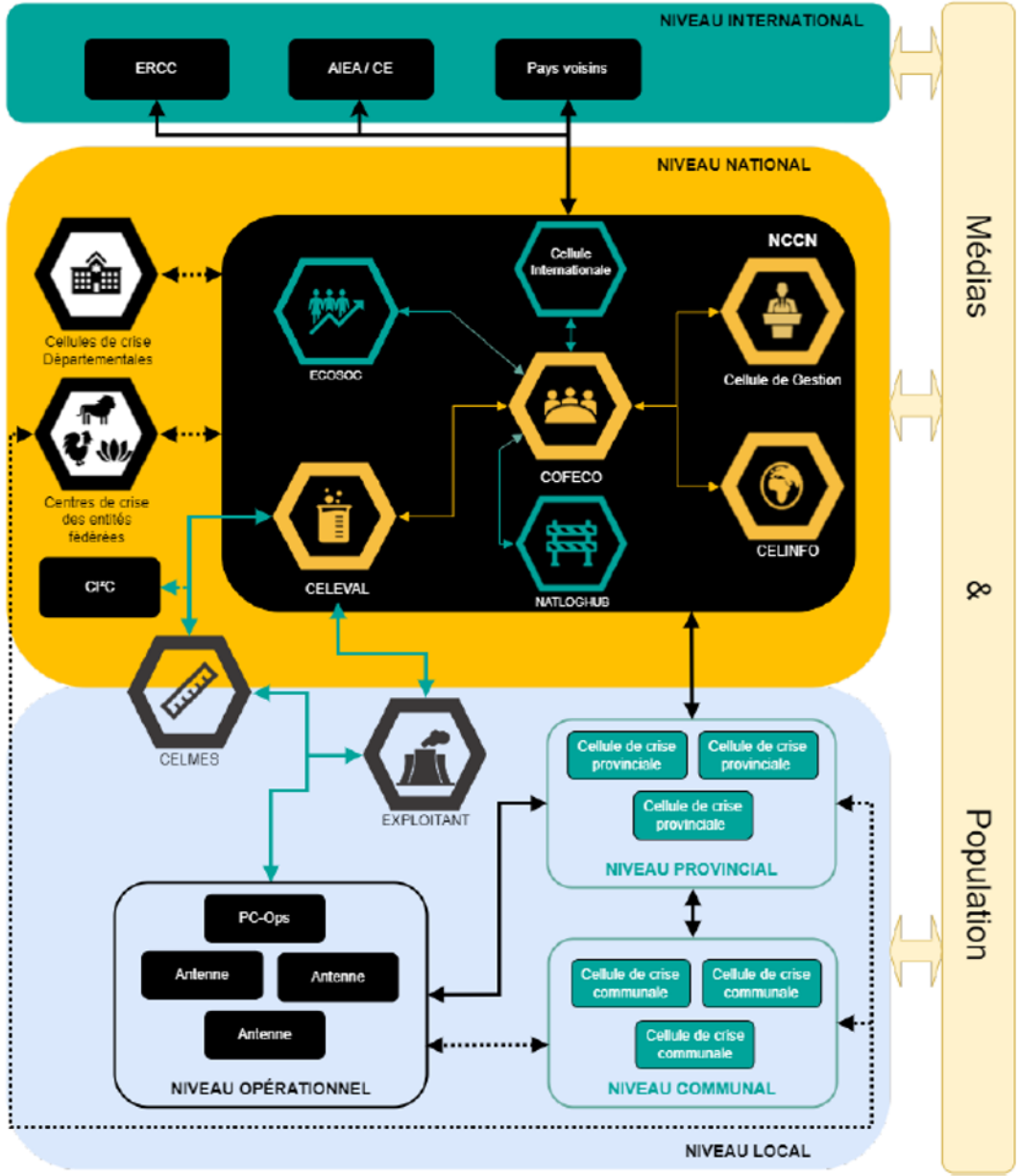
Provincie Antwerpen

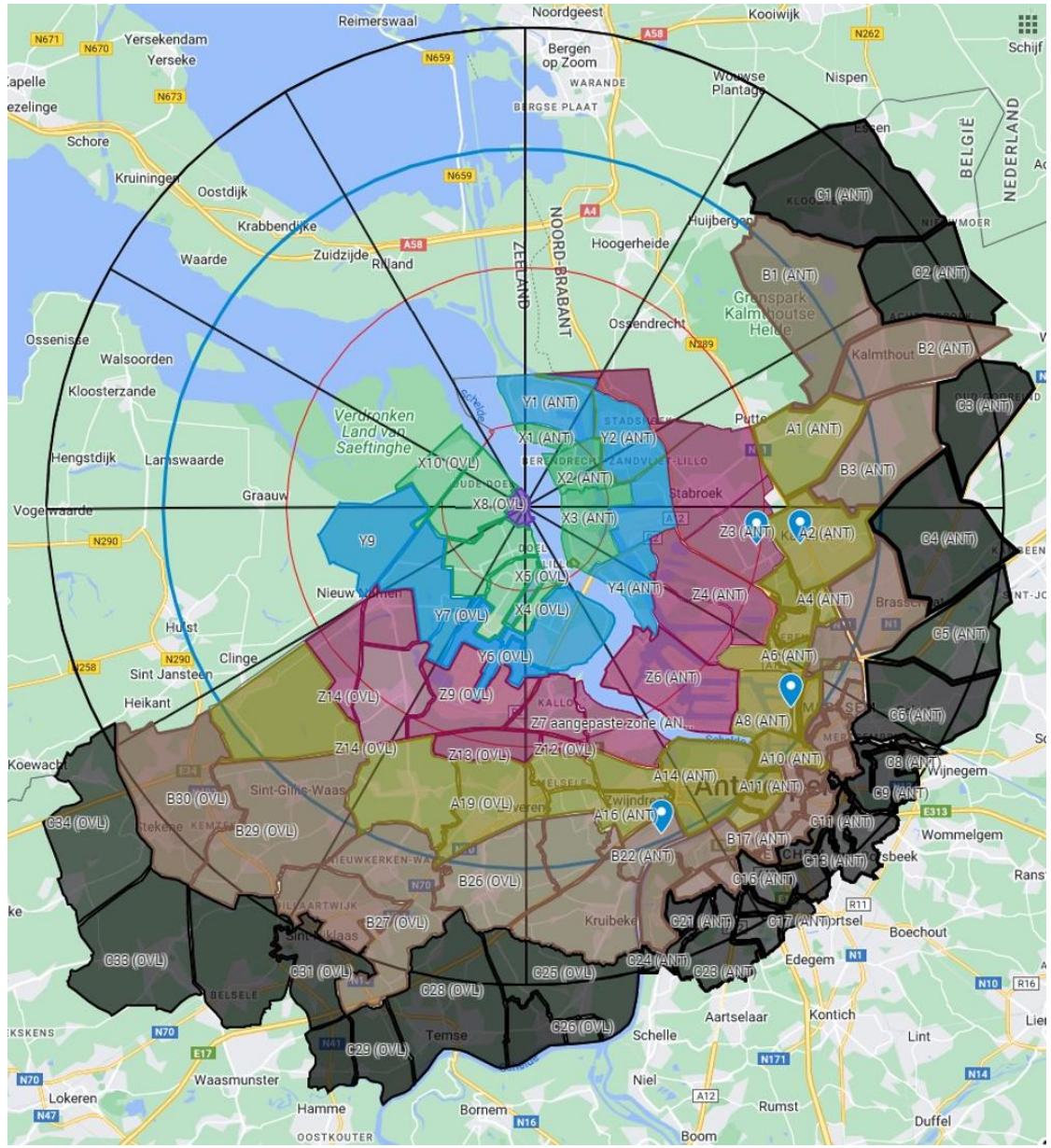
FANC
FEDERAL AGENCY FOR NUCLEAR CONTROL

ibz

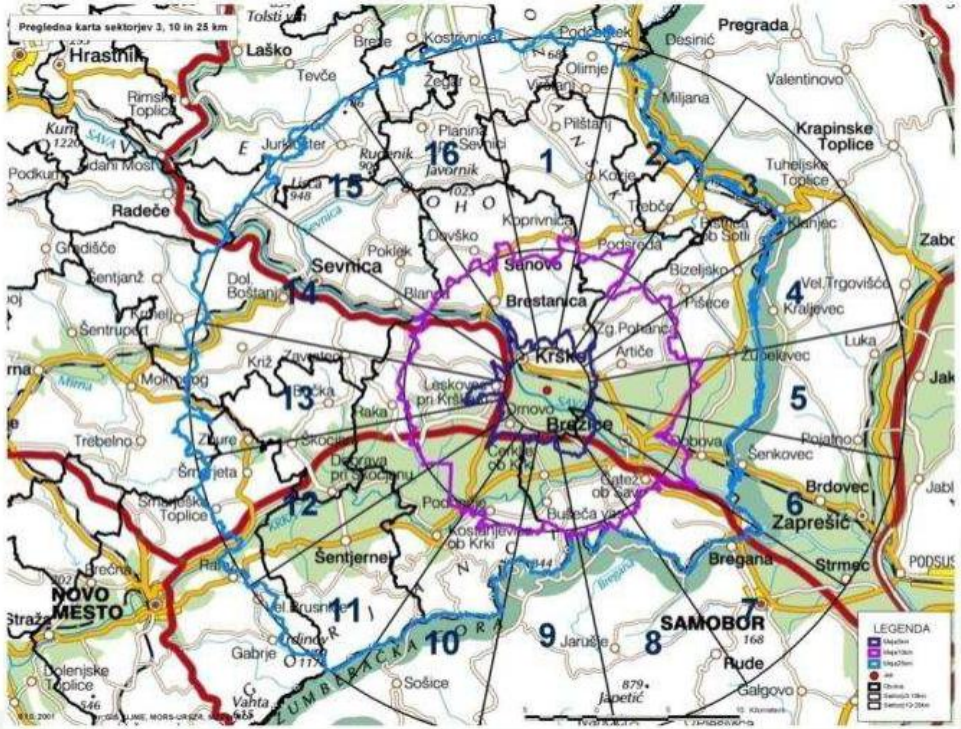
BELV
Belgian TSO

•A•F•S•C•A•
Agence Fédérale pour la Sécurité de la Chaîne Alimentaire


NIVEAU INTERNATIONAL
ERCC
AIEA / CE
Pays voisins
NIVEAU NATIONAL
NCCN
Cellule Internationale
ECOSOC
Cellule de Gestion
Cellules de crise Départementales
COFECO
Centres de crise des entités fédérées
CELINFO
CP°C
CELEVAL
NATLOGHUB
CELMES
EXPLOITANT
Cellule de crise provinciale
Cellule de crise provinciale
Cellule de crise provinciale
NIVEAU PROVINCIAL
PC-Ops
Antenne
Antenne
Antenne
NIVEAU OPÉRATIONNEL
Cellule de crise communale
Cellule de crise communale
Cellule de crise communale
NIVEAU COMMUNAL
NIVEAU LOCAL
Médias
&
Population

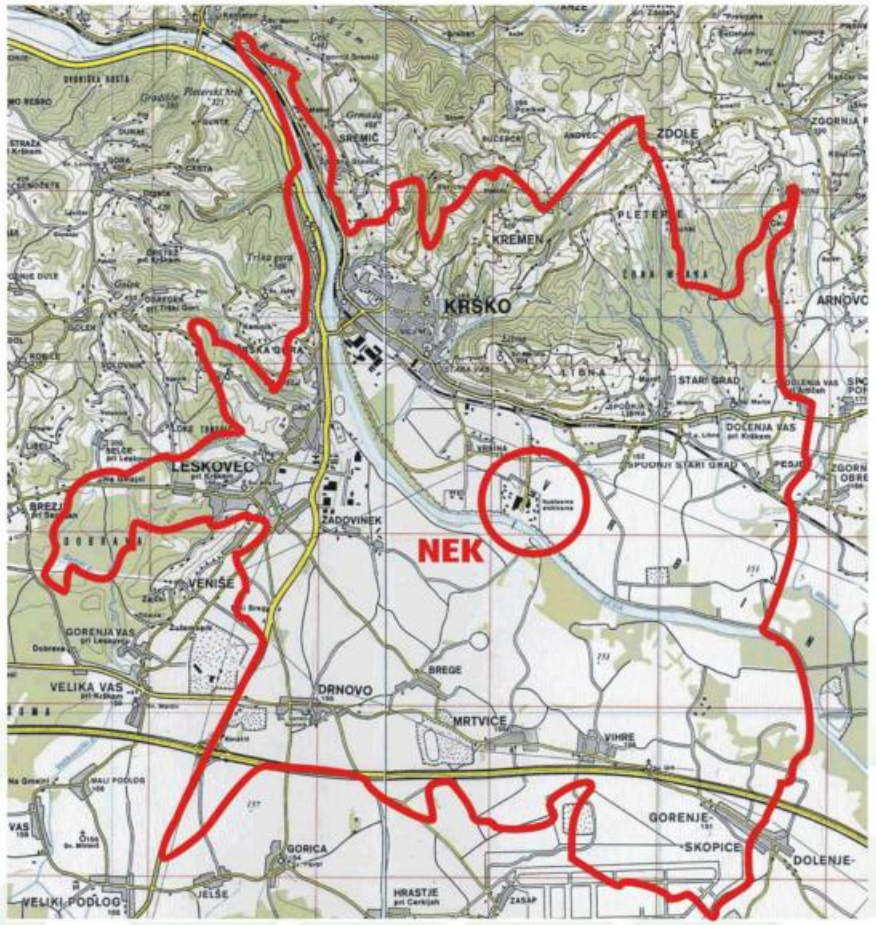

Reimerswaal
Noordgeest
Kooiwijk
Yersekendam
Yerseke
Bergen op Zoom
Wouwse Plantage
Nispen
Schore
Kruiningen
Oostdijk
Krabbendijke
Waarde
Zuidzijde
Rilland
Hoogerheide
Huijbergen
Ossenisse
Walsoorden
Kloosterzande
Ossendrecht
Hengstdijk
Lamswaarde
Graauw
Vogelwaarde
Nieuwvliet
Hulst
Clinge
Sint Jansteen
Heikant
Koewacht
Sint-Gillis-Waas
Stabroek
Putte
Kalmthout
Wijnegem
Wommelgem
Boechout
Edegem
Aartselaar
Kontich
Lint
Schelle
Niel
Rumst
Duffel
Temse
Waasmunster
Lokeren
Hamme
Bornem
Boom
Zwijndrecht
Kruibeke
BELGIË
NEDERLAND
ZEELAND
NOORD-BRABANT
Verdronken Land van Saeftinghe
Grenspark Kalmthoutse Heide
C1 (ANT)
C2 (ANT)
C3 (ANT)
C4 (ANT)
C5 (ANT)
C6 (ANT)
C8 (ANT)
C9 (ANT)
C11 (ANT)
C13 (ANT)
C16 (ANT)
C17 (ANT)
C21 (ANT)
C23 (ANT)
C24 (ANT)
C25 (OVL)
C26 (OVL)
C28 (OVL)
C29 (OVL)
C31 (OVL)
C33 (OVL)
C34 (OVL)
B1 (ANT)
B2 (ANT)
B3 (ANT)
A1 (ANT)
A2 (ANT)
A4 (ANT)
A6 (ANT)
A8 (ANT)
A10 (ANT)
A11 (ANT)
A14 (ANT)
A16 (ANT)
B17 (ANT)
B22 (ANT)
B26 (OVL)
B27 (OVL)
B29 (OVL)
B30 (OVL)
Y1 (ANT)
Y2 (ANT)
Y4 (ANT)
X1 (ANT)
X2 (ANT)
X3 (ANT)
X4 (OVL)
X5 (OVL)
X8 (OVL)
X10 (OVL)
Y6 (OVL)
Y7 (OVL)
Y9
Z1 (OVL)
Z3 (ANT)
Z4 (ANT)
Z6 (ANT)
Z7 aangepaste zone (AN...
Z9 (OVL)
Z13 (OVL)
Z14 (OVL)
Z14 (OVL)

- PAZ
  3 km
- UPZ
  10 km
- LPZ
  25 km



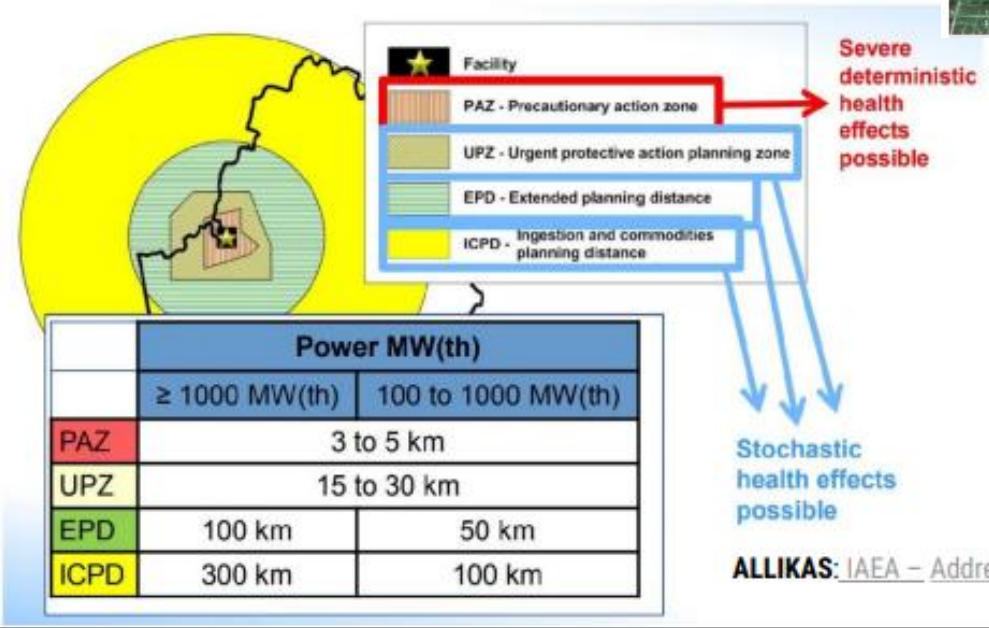
Precautionary action zone (PAZ; 3 km)

- Sheltering
- Preventive evacuation
- Iodine prophylaxis









Severe deterministic health effects possible

	Power MW(th)	
	≥ 1000 MW(th)	100 to 1000 MW(th)
PAZ	3 to 5 km	
UPZ	15 to 30 km	
EPD	100 km	50 km
ICPD	300 km	100 km

Stochastic health effects possible

ALLIKAS: IAEA – Addressing the Issue of EPR Sizing

We’re (not) only making plans: exercise





We’re (not) only making plans: evacuation exercise



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We’re (not) only making plans: evacuation exercise



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We’re (not) only making plans: Security Exercise



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On Site Operational Coordination













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Not a drill: Beverentunnel 4/2/2020

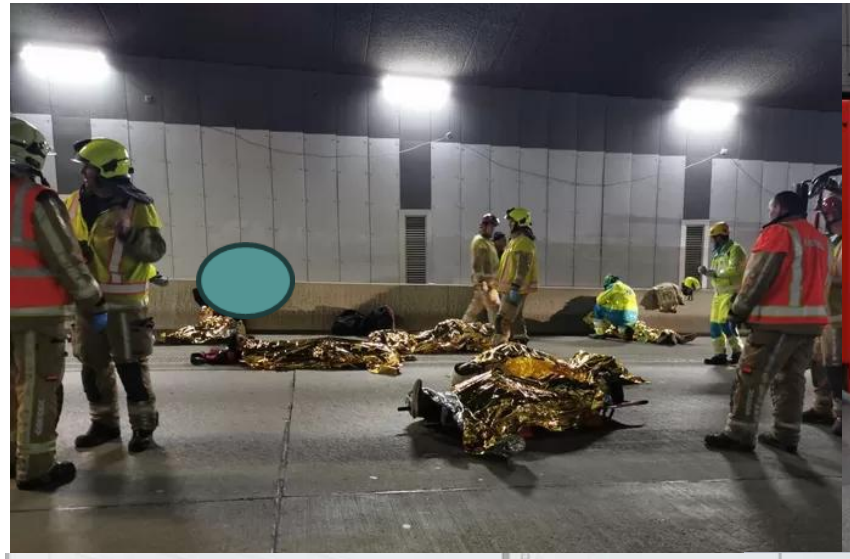








Not a drill: Beverentunnel 4/2/2020









Not a drill: Beverentunnel 4/2/2020









Psychosocial Support Network Beveren-Kruibeke-Zwijndrecht







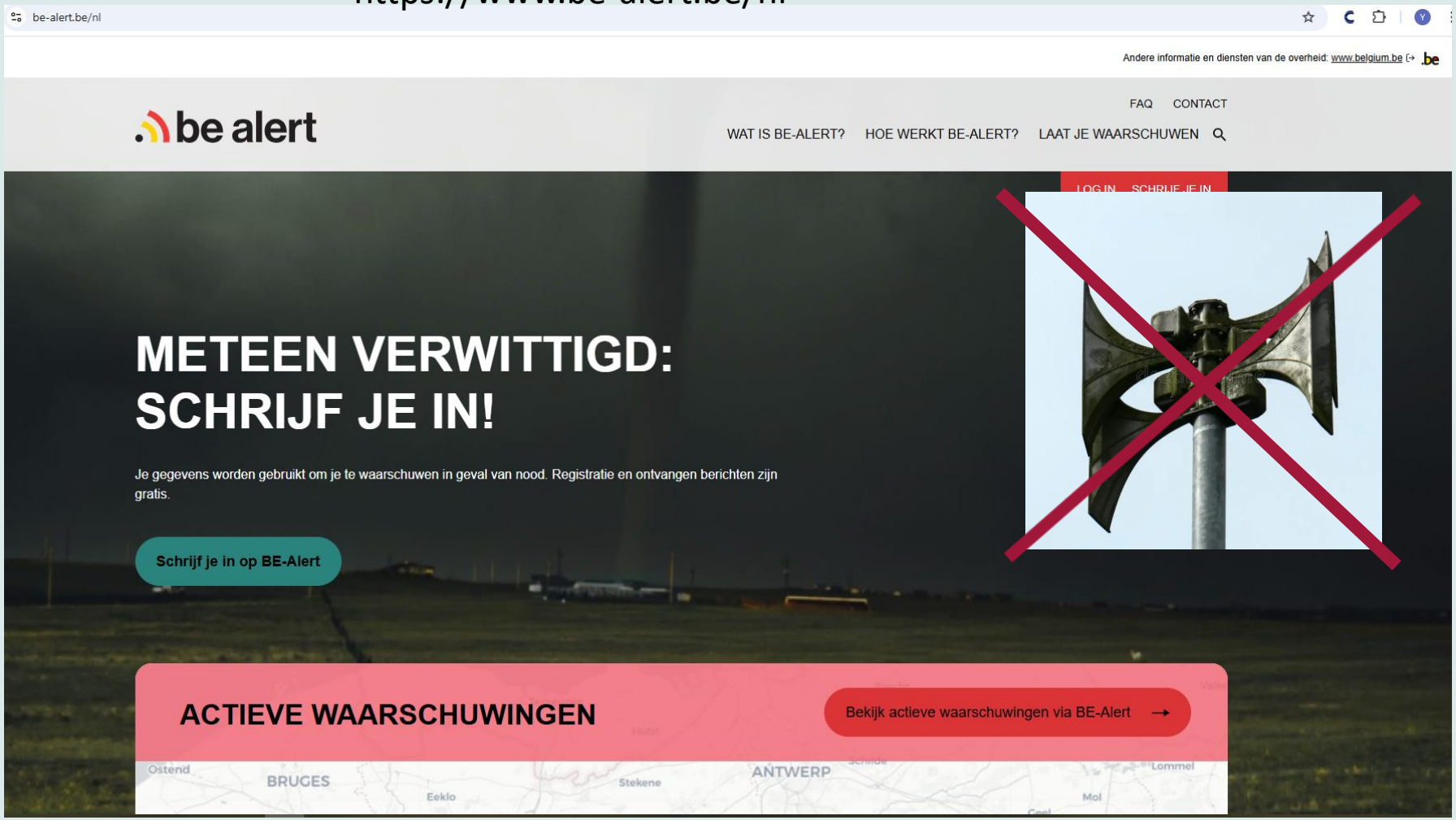
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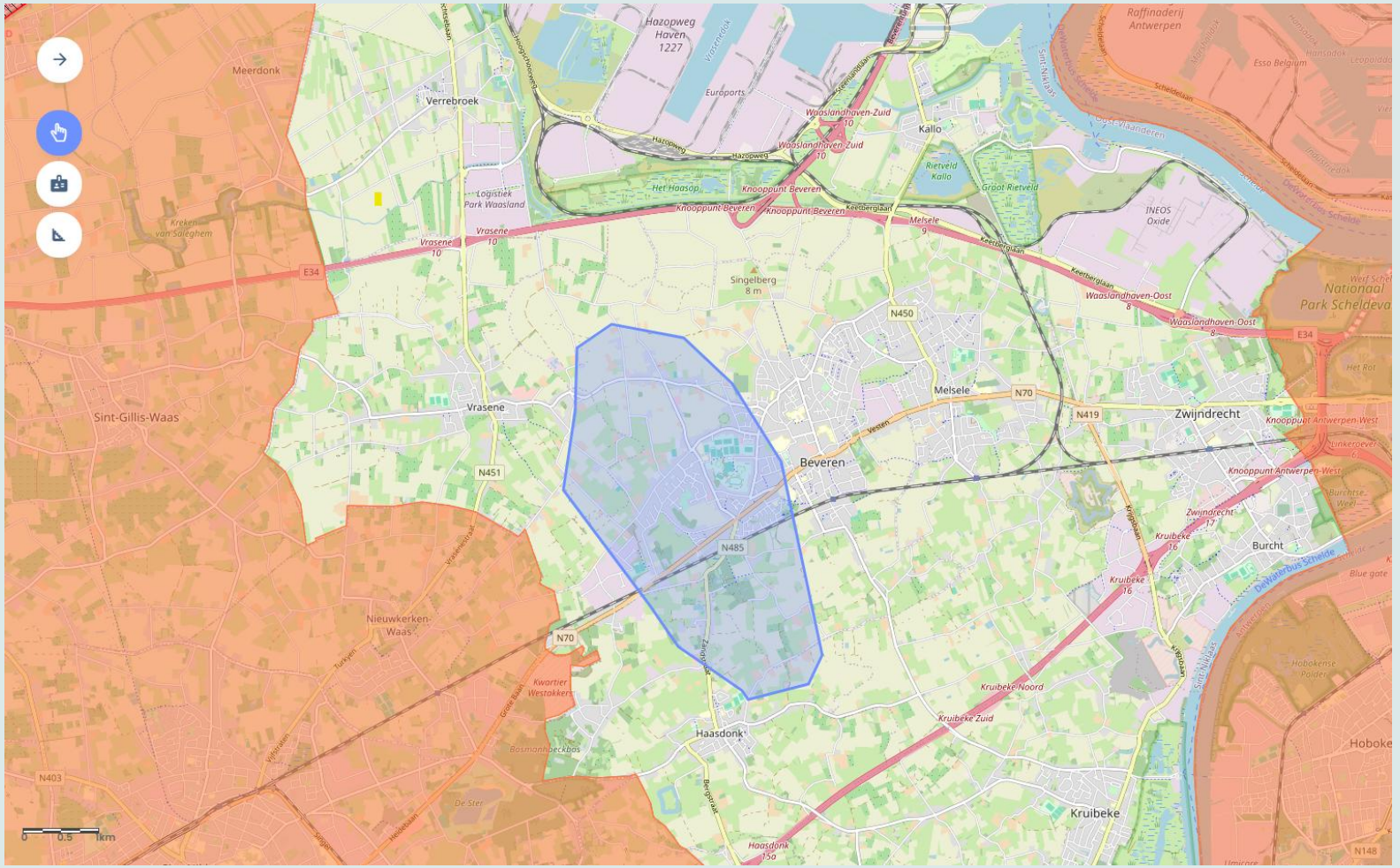
BE-Alert = platform – sms, alert-sms, voice call, email, …

https://www.be-alert.be/nl



BE-Alert – directly informed

https://www.be-alert.be/nl



Administrative Centre Beveren
Multilayer concept of crisis management



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Board Room - Crisis Room - Situation Room



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Working room for operational partners/liaisons



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Monodisciplinary work spaces



Monodisciplinary hubs



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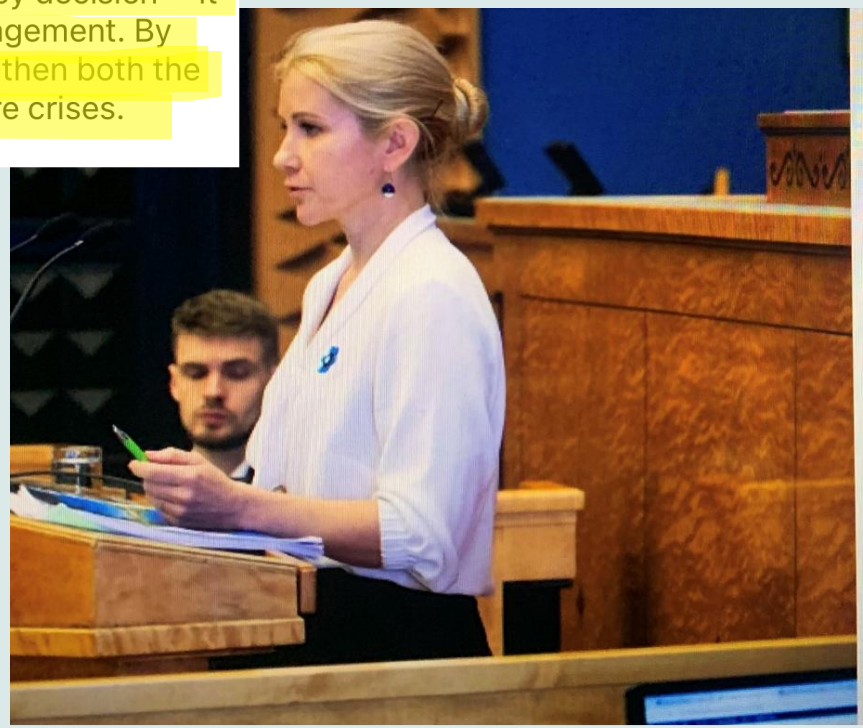
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Boost for Local Emergency Preparedness & Response – Impact from decommissioning?

Reelika Runnel · 1ste
Nuclear Security Advisor
8 mnd ·

On 23 January, an information seminar on nuclear energy will take place in the Riigikogu (Estonian Parliament) conference hall. In my presentation, I will focus on nuclear security and emergency preparedness within Estonia's nuclear power programme.
The introduction of nuclear energy is not only an energy policy decision - it is also closely connected to national security and crisis management. By pursuing nuclear power, Estonia has an opportunity to strengthen both the security of its energy supply and its overall resilience to future crises.



possible construction of a nuclear power plant.

For the Ministry of the Interior, it is important that in the discussions on nuclear energy, attention is paid not only to energy policy, but also to national security, crisis preparedness and the strengthening of civil protection. These are the questions that Reelika will focus on in her presentation.

"The introduction of nuclear energy is not only an energy policy issue, but is also inextricably linked to national security and crisis preparedness. This gives Estonia the opportunity to strengthen both the security of energy supply and the country's resilience to crises," says Reelika Runnel.

Two years have passed since the last nuclear energy information seminar held in the Riigikogu. By today, the draft Nuclear Energy and Safety Act has been completed, which will also be introduced at the discussion. In addition, the seminar will include

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Are we ready? - Never

Are we prepared? - Yes

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V-PSH + Events: Charlotte Van Laethem – charlotte.vanlaethem@gemeentebkz.be

Crisis Communication (D5) Jeroen Bruggeman - jeroen.bruggeman@gemeentebkz.be

Credits to:

- **Aleš Benje (senior advisor for civil protection, Krško, Slovenia)**
- **Reelika Runel (Nuclear Security Advisor, Estonian Ministry of the Interior)**
- **NCCN: Belgian National Crisis Centre**
- **FANC: Belgian nuclear regulator**
- **Engie Electrabel**