



# Towards more consistent EPR – Role of the regulatory body



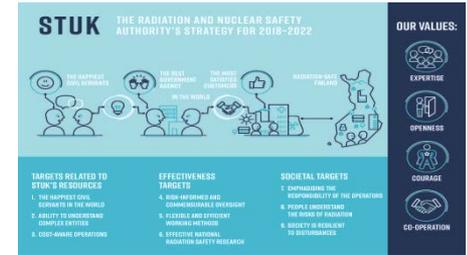
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Senior Regulators Meeting

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# Outline

- Background about the Finnish approach to EPR
- STUK's Role in EPR
- Current activities in the EPR area in Finland
- Transnational co-operation



# Background – The Finnish approach

- Preparing for emergencies is everyone's' responsibility; Ministries, Authorities, private sector and the third sector
- If needed all resources in the society will be utilized (public-private partnership); and international assistance is requested when needed
- Person responsible for rescue services in the accident municipality is exceptionally powerful, for instance he/she can decide on evacuation, sheltering etc. also outside his/her geological jurisdiction
- Every organisation involved in the accident has right and responsibility to share information to the media and to the public
- Need for good coordination is evident

# STUK's dual role in EPR

## As a Regulator:

- Draft Nuclear Energy and Radiation Acts, Government Decrees
- Ensure EU Directives take into account e.g. IAEA Safety Requirements
- Issue STUK's regulations and guides on EPR matters
- Oversee licensee's EPR arrangements and resources
- National Warning Point and Competent Authority

## As an expert organisation:

- Provide safety assessment and recommendations to the society in case of an emergency
- Contribute to the The Government Resolution and the Strategy for securing the functions vital to the Finnish society (“ a national emergency plan”), and to the national risk assessment
- Participate in standing joint work groups (utilities, regional rescue services and STUK) to ensure consistency of on-site and off-site EPR arrangements, and in various other national task forces



### TARGETS RELATED TO STUK'S RESOURCES

1. THE HAPPIEST CIVIL SERVANTS IN THE WORLD
2. ABILITY TO UNDERSTAND COMPLEX ENTITIES
3. COST-AWARE OPERATIONS

### EFFECTIVENESS TARGETS

4. RISK-INFORMED AND COMMENSURABLE OVERSIGHT
5. FLEXIBLE AND EFFICIENT WORKING METHODS
6. EFFECTIVE NATIONAL RADIATION SAFETY RESEARCH

### SOCIETAL TARGETS

7. EMPHASISING THE RESPONSIBILITY OF THE OPERATORS
8. PEOPLE UNDERSTAND THE RISKS OF RADIATION
9. SOCIETY IS RESILIENT TO DISTURBANCES

### OUR VALUES:



EXPERTISE



OPENNESS



COURAGE

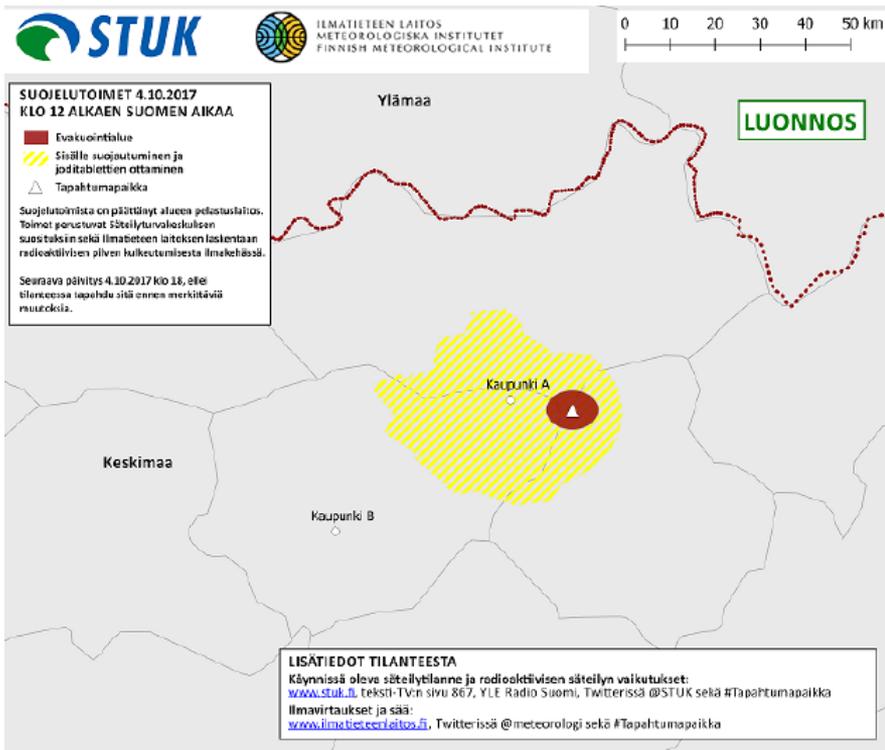


CO-OPERATION

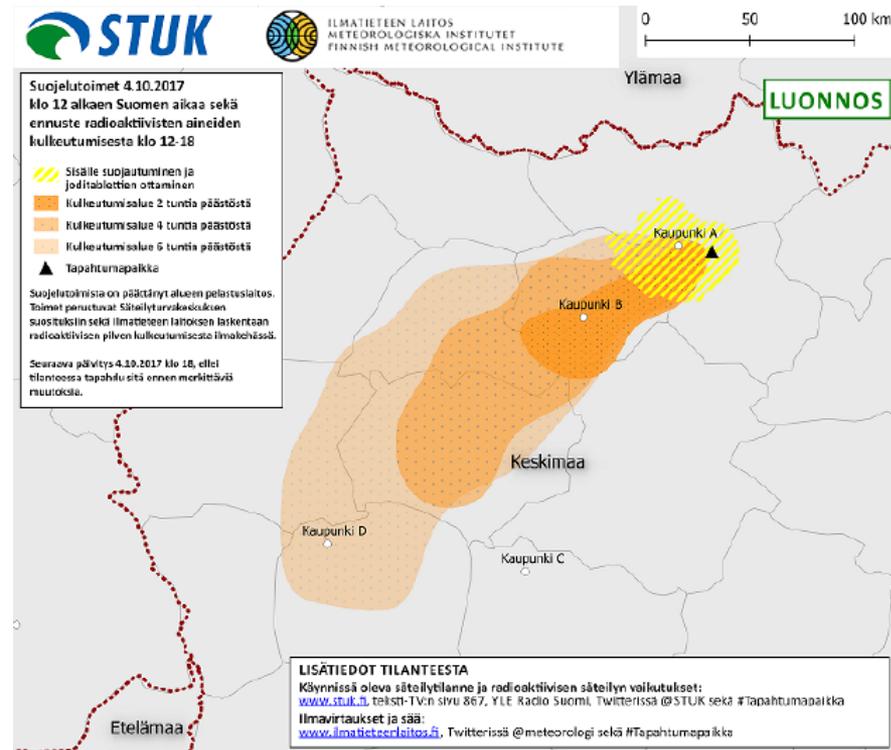
# Current activities at STUK on EPR – Strategic Objectives

- Society is resilient to disturbances
  - Shared and consistent situation awareness across the administration supporting consistent communication and recommendations from authorities to media and public
  - National Monitoring Strategy under preparation
  - Prepared for old/new threats
- People understand the risks of radiation and can put them in the perspective in their normal life and also during emergencies
  - A comprehensive Risk Perceptions survey done
  - Everyone is a communication expert (“communication team of 340 people”) - STUK’s Communication Academy
  - Agreed key messages





Illustrative maps used in the risk perceptions study



# Implications of accidents (and even incidents) are global

- Chernobyl accident in 1986 – although a disaster – was at that time mainly a regional emergency
  - Litvinenko's death in 2006 already had some international implications to many countries (e.g. tourists in London, aviation)
  - Fukushima accident in 2011 was clearly a global emergency requiring urgent response even in far distances and uncontaminated areas.
  - Ruthenium release in 2017
- Urgent need for efficient international communication
  - Need for intense national communication with other organisations as well as with media and the public
  - Considerations for protection of own citizens in a country affected by the accident
  - Implications to international trade
  - Implications to trafficking (marine, aviation)

# Importance of transnational co-operation in EPR



Convex III Exercise, where there was need for protective actions only in the close vicinity of the accident NPP

- Our goals on transnational co-operation
  - increase compatibility in response to emergencies
  - increase mutual understanding and trust
  - promote consistent protective actions during emergencies
  - promote consistent and timely communication with the public and media

# Examples of results...

- Nordic Co-operation
  - Nordic Flagbook describes joint Nordic approach concerning protective actions during urgent and intermediate phases of a nuclear or radiological emergencies;
  - Nordic manual addresses co-operation and communication during preparedness phase and in response to radiation emergencies
- European
  - WENRA-HERCA Approach on emergencies
  - HERCA country fact sheets of national EPR arrangements emergency planning zones and protection strategy
  - EURDEP exchange of monitoring data
  - HERCA position paper and ENSREG Communication statement for promoting pro-active information sharing using existing platform in case of clearly abnormal radiation observations of unknown origin



The Nordic Flag Book: Protective Measures in Early and Intermediate Phases of a Nuclear or Radiological Emergency; published in 2014 by all Nordic radiation protection and nuclear safety authorities

# Our aim in Finland is that emergency arrangements

- are robust, in place and up-to-date for nuclear or radiological emergencies and incidents
- are flexible enough to be applicable in any nuclear or radiological emergency and incident irrespectively of its cause and location
- cover the needs of national / regional / international counterparts concerning communication, co-operation, coordination of protective actions and assistance

