

Overview of Finnish emergency preparedness system and actions in radiological maritime accidents

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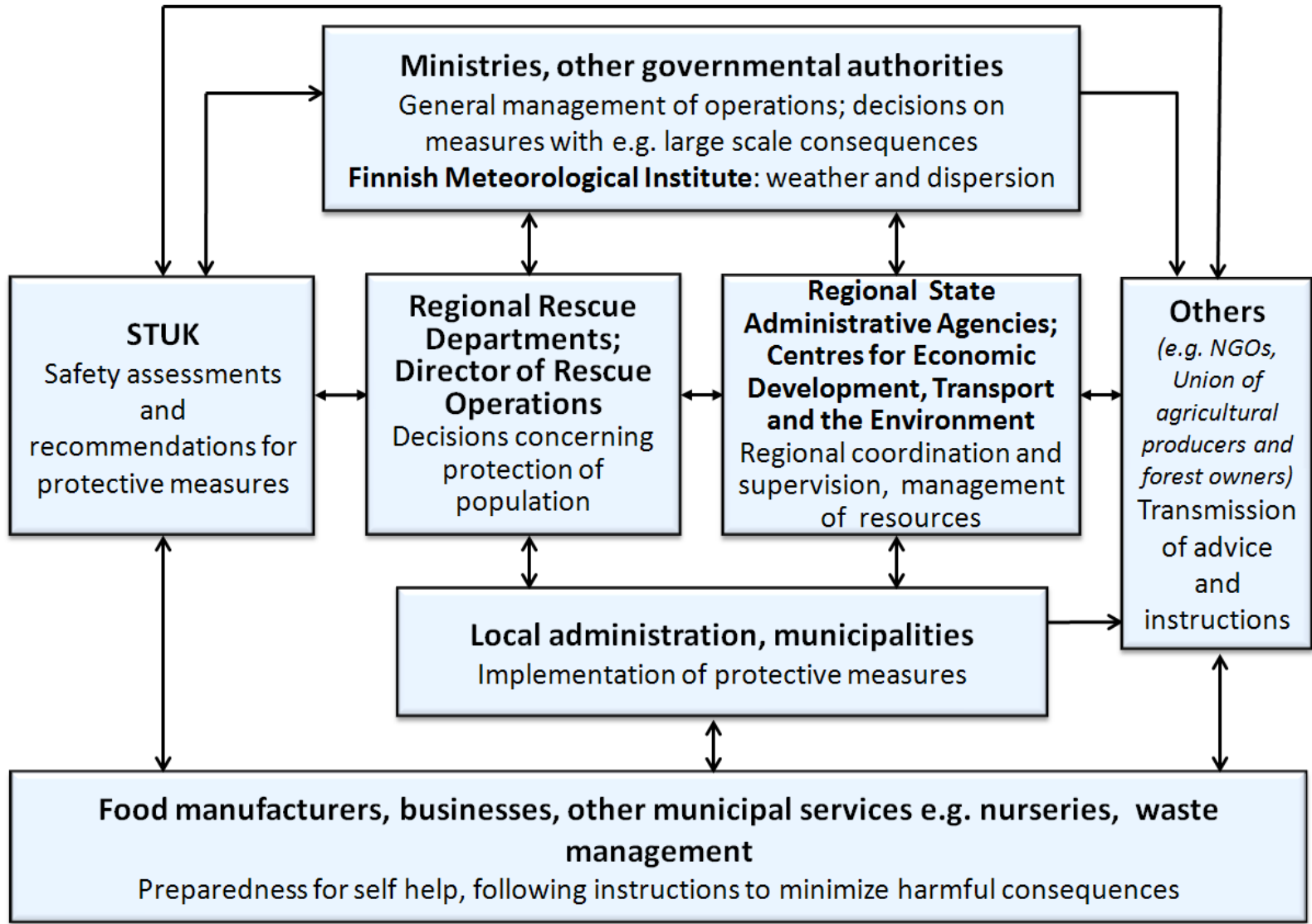
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Decision making during emergencies

Each authority decides upon measures concerning their own administration responsibilities

- **during nuclear or radiological emergencies decisions base on recommendations given by STUK**

Responsibilities in large-scale radiation situations



Responsibilities of some governmental authorities...

STUK

- situation reports
- safety assessments
- recommendations and advice for protective measures

Ministry of the Interior

- protection of population, rescue services

Ministry of Social Affairs and Health

- safety of public health
- iodine prophylaxis

Defence Forces

- cooperation in rescue operations

Finnish Meteorological Institute

- dispersion calculations, weather service

Ministry of Agriculture and Forestry

- **restrictions concerning agricultural production**

Finnish Food Safety Authority

- **processing, delivery and retail of foodstuffs**

Ministry of Environment

- **environmental aspects with respect to decontamination and management of waste containing radioactive substances**

Ministry of Transport and Communication

- **communication, traffic, transportation**

Ministry for Foreign Affairs

- **informing foreign embassies in Finland and domestic embassies abroad**

Responsibilities for informing the public

- The authority in charge is also responsible for informing the public.
- Other authorities involved in the emergency provide information and instruction regarding their own sphere of responsibility.

STUK issues information concerning the accident, radiation situation and the impact of the situation on public health and safety.

STUK's tasks during emergencies

Receiving of an alert; activating response

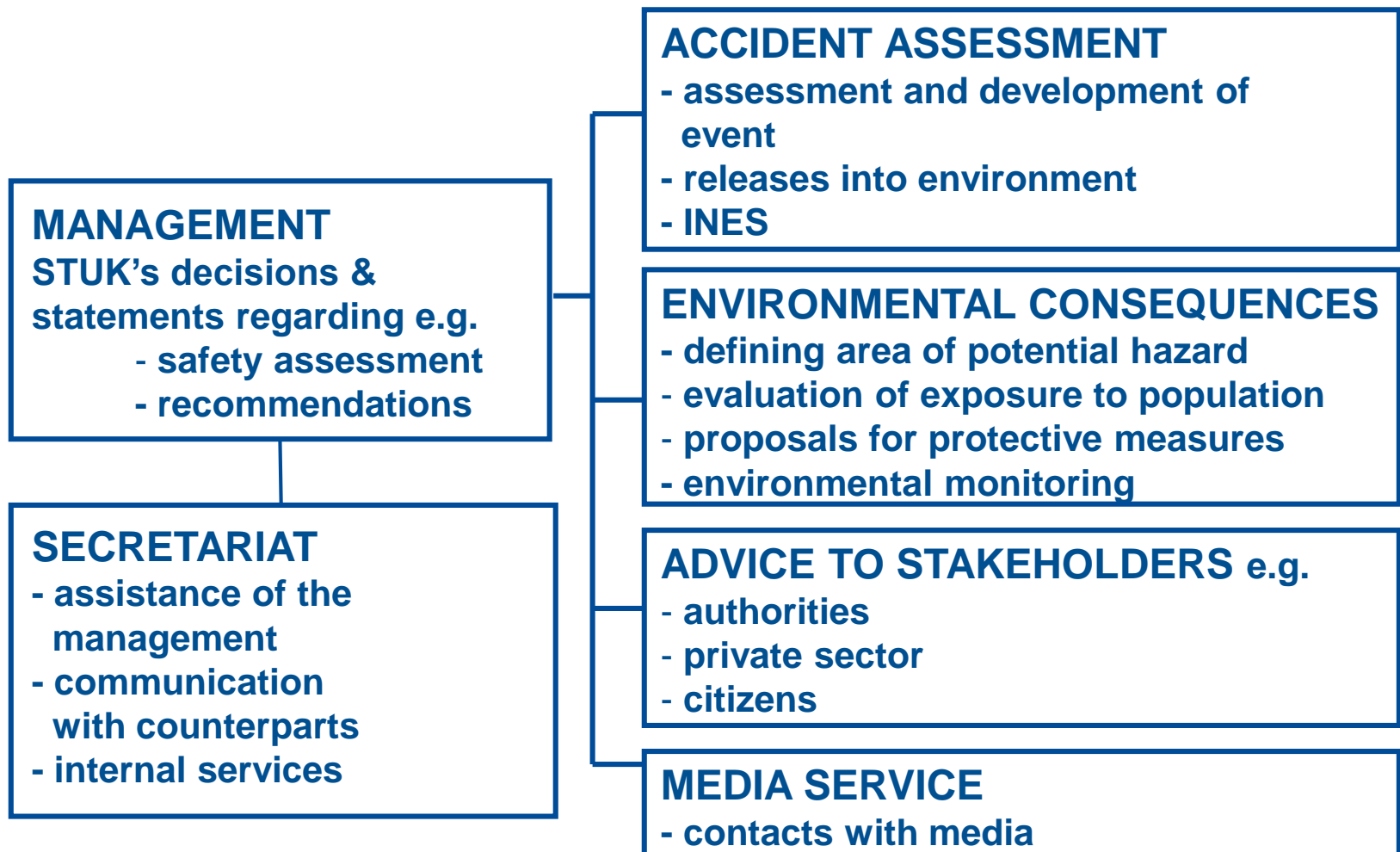
Collection of information and evaluation of possible development

Safety assessment

Recommendations and advice for protective measures

Dissemination of information

STUK'S organisation during emergencies



Exercises

One annual NPP exercise at each domestic site:

- **on-site emergency organisation**
- **STUK; FMI, if real weather used**
- **off-site emergency management group**

Full scale NPP exercise every third year at each site:

- **all relevant counterparts on national, provincial and local level**
- **representatives of media and private sector are invited, too**

Other exercises e.g.

- **international exercises as well as bilateral / multilateral exercises with neighbouring countries**
- **domestic exercises (early phase and intermediate phase scenarios; both security and safety related and combined scenarios)**
- **internal exercises within STUK**

Actions in maritime accident management: summary

- Finnish Transport Agency has crucial role in maritime accidents
 - It operates under the jurisdiction of the Ministry of Transport and Communications
- Other actors involved:
 - Border Guard, Emergency Response Centre Administration, Finnish Meteorological Institute, Defence Forces, rescue services, police, social welfare and health authorities, environmental authorities and the Customs Service

Finnish Transport Agency

- The Finnish Transport Agency (Finnish: Liikennevirasto, Swedish: Trafikverket) is responsible for the maintenance of Finland's transport system.
- The Finnish Transport Agency as a VTS authority (Vessel Traffic Service) can close the sea area, the sea route fully or partially in Finnish territorial waters (Vessel Traffic Service Act, § 623/2005, 17) during radiological emergency situation.
- In addition to closing areas or routes it is also possible to order to transport back to harbor and set speed limits for ships
- VTS authority is also able to warn about radiological incidents ships outside Finnish territorial waters
- Source of emission is not relevant for the operation of the VTS authority.

Other authorities involved in maritime accident management

- Border guard
 - The leading maritime rescue authority, which is responsible for search and rescue organization of operations. The Border Guard is responsible for maritime search and rescue planning, development and supervision as well as coordination of the authorities involved in maritime.
- Defence forces
 - Maritime Forces has ships suitable for radiation accidents. These vessels include lower air pressure facilities and decks with automatic flushing system.
- Also:
 - Emergency Response Centre Administration, Finnish Meteorological Institute, rescue services, police, social welfare and health authorities, environmental authorities and the Customs Service

Leadership relations in maritime accident

- SMC: search and rescue mission coordinator
- SRU: search and rescue unit
- ACO: aircraft coordinator
- OSC: on scene coordinator
- TOJE: Regional rescue service
- P3 / P4: Rescue officer in duty
- “Triagejoht”: Responsible for medical actions

