

The Nordic Flagbook

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Direktoratet for
strålevern og atomsikkerhet

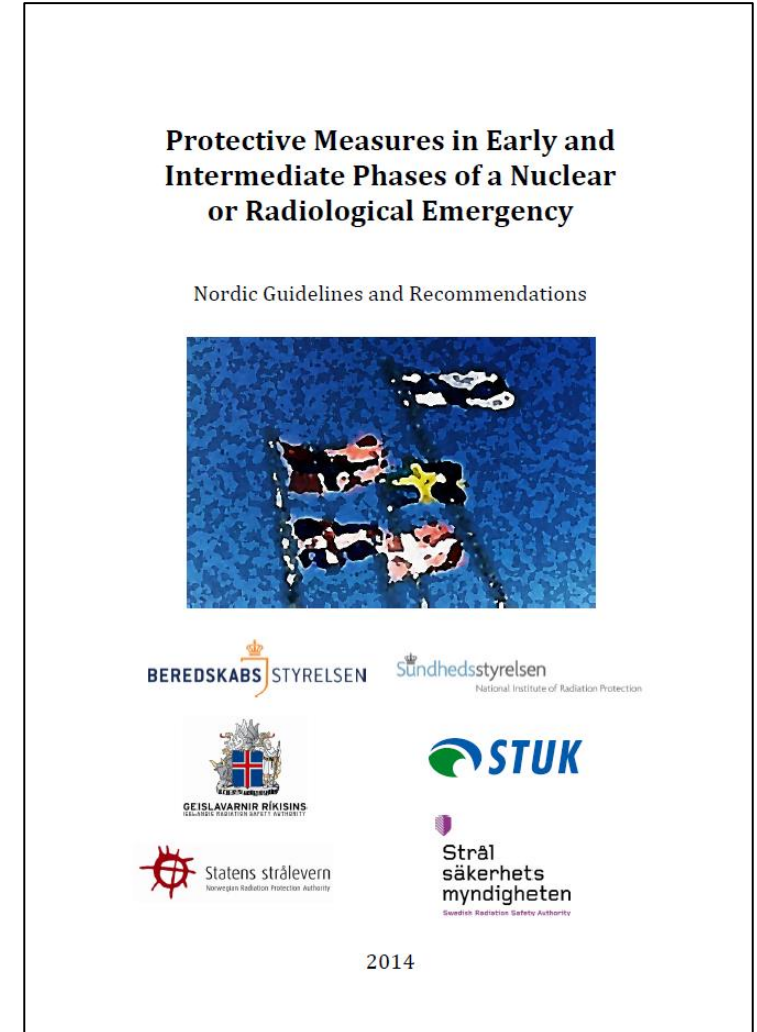
Norwegian Radiation
and Nuclear Safety Authority

The Nordic Flag Book – Nordic Guidelines and Recommendations

Protective Measures in Early and Intermediate Phases of a Nuclear or Radiological Emergency

- Cooperation between all Nordic radiation protection and nuclear safety authorities: Sweden, Norway, Denmark, Finland and Iceland
- Generic guidelines that cover all types of incidents and are relevant for both accidents and intentional acts.
- Based on Finnish regulation (VAL-guides) for nuclear and radiological emergencies and implements the ICRP 2007 (ICRP 103), is in line with international guidelines from the IAEA and the EU.
- **Last updated in 2014**

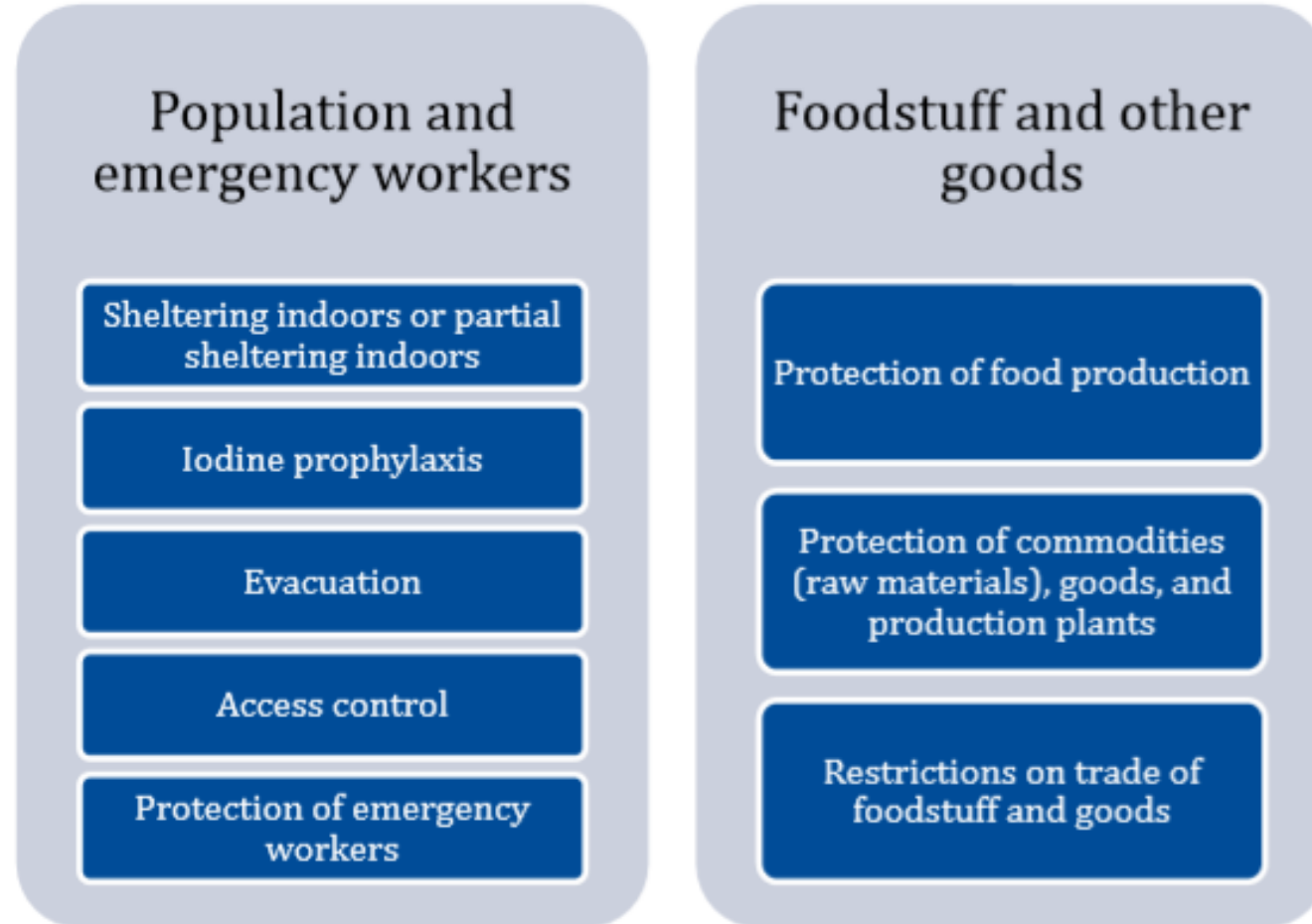
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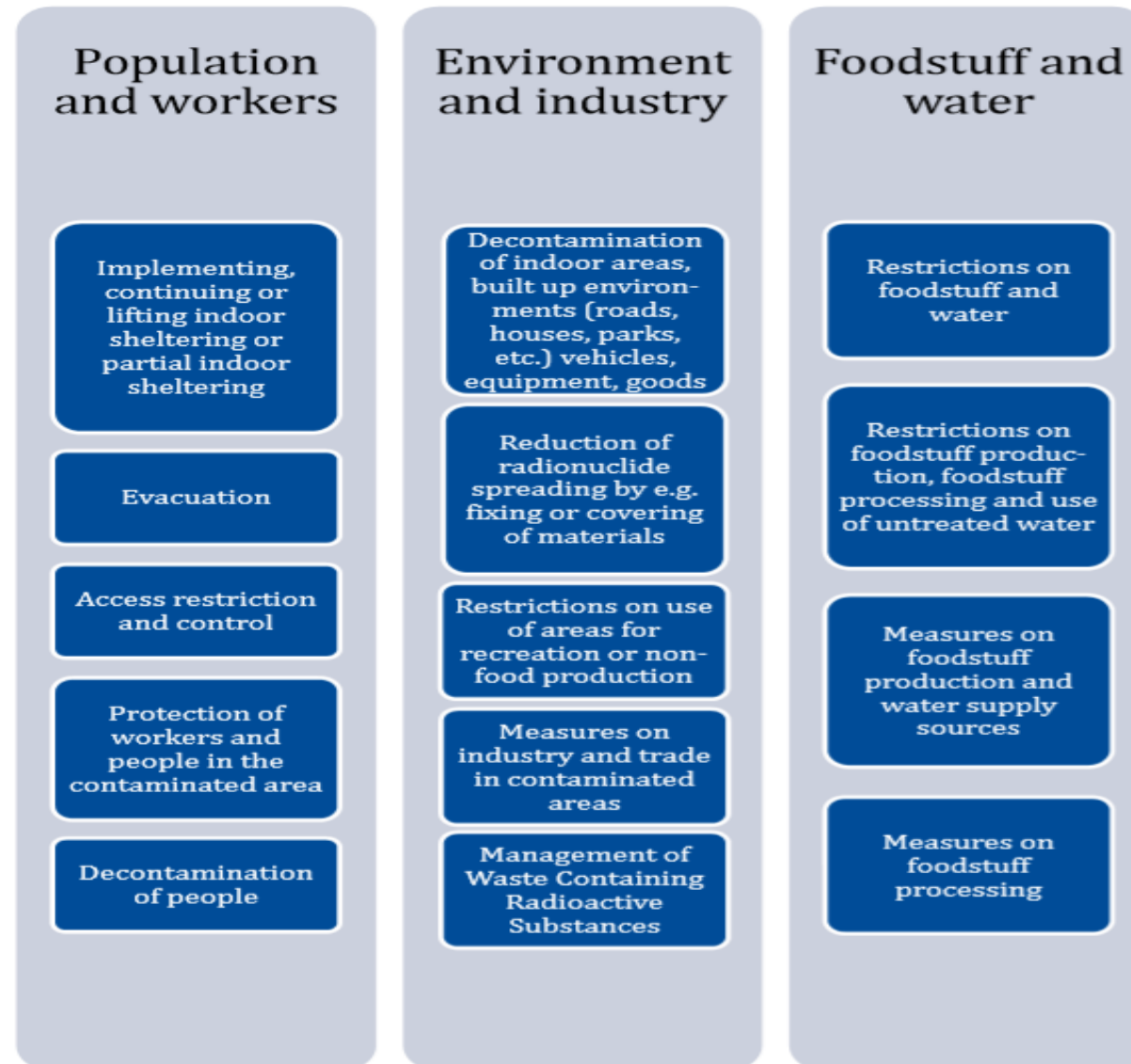
Purpose

- To harmonize the use of protective measures in the Nordic region.
- To provide a common starting point for the Nordic countries' national plans.
- Provides recommended dose levels and operational intervention levels (OILs) for the implementation of measures.
- In addition to doses, OILs are given in measured values that are readily available in the early stages of an accident.
For example: dose rate (mSv/h) and air concentration (Bq/m³)
- Can be used for decision support.

Part A: Protective actions in an early/urgent phase



Part B: Protective actions in an intermediate phase



Current status: an update needed

- Since 2014 the [EU BSS](#) have been adopted and transposed into national law by the member states.
- New IAEA emergency preparedness and response general safety requirements ([GSR Part 7](#)) as well as a general safety guide for the termination of a nuclear or radiological emergency ([GSG-11](#)) have been published.
- Lessons learned from the [review of Swedish emergency planning zones and distances](#) (SSM Report 2017:27e) could be used to support the revision.

Planned work

The update will consist of two documents:

- I. precautionary, urgent and early protective actions, up until the transition from, and termination of, the nuclear or radiological emergency (2020-2022)
- II. recovery and long-term actions during an existing exposure situation, including remediation and handling of radioactive waste.
- SSM (Sweden) will lead the work under the Nordic working group on Emergency Preparedness (NEP).

Thank you!