

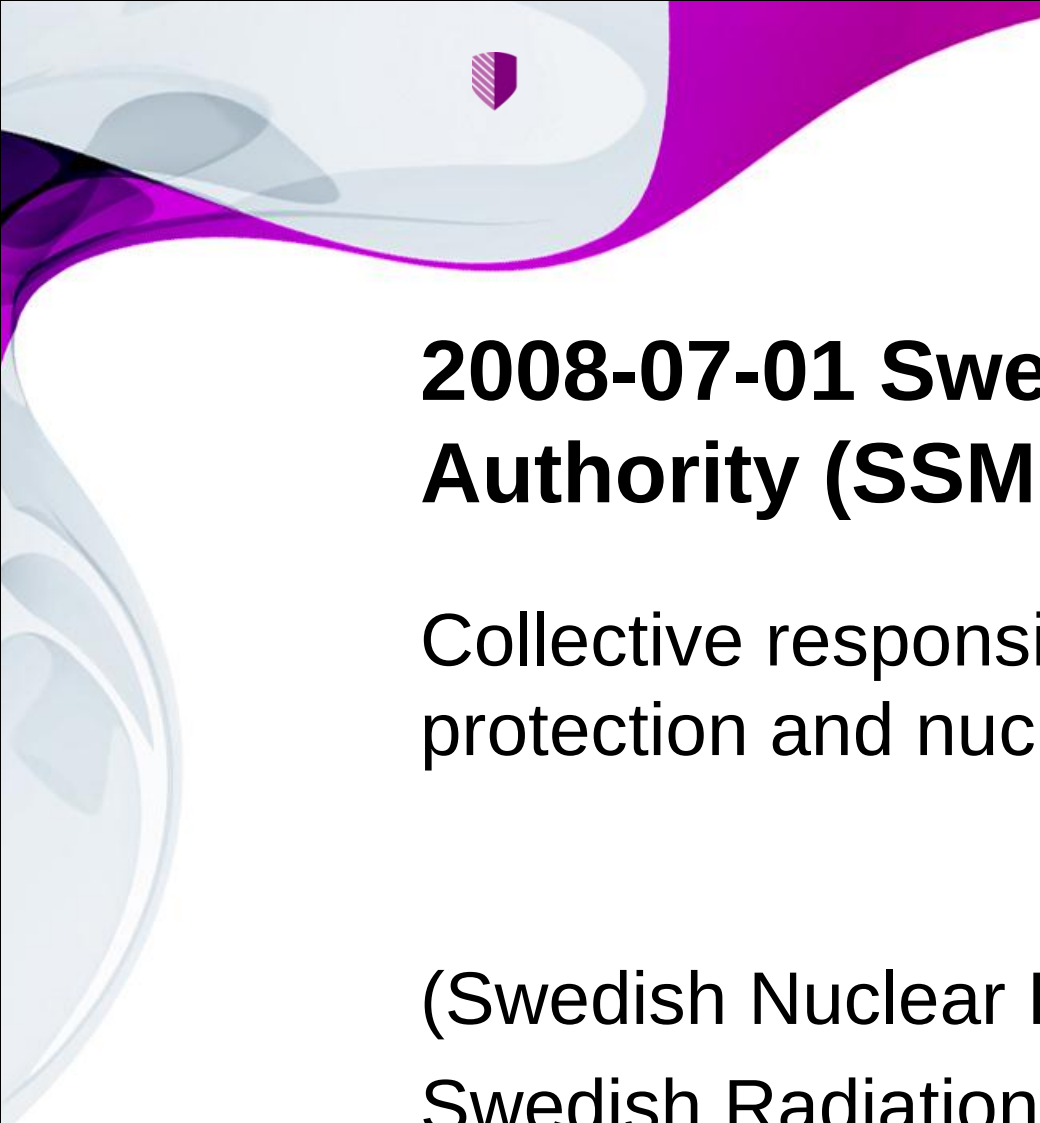


Strål
säkerhets
myndigheten

Swedish Radiation Safety Authority

Swedish Radiation Safety Authority ERPAN meeting May 2011

Birgitta Ekström



2008-07-01 Swedish Radiation Safety Authority (SSM)

Collective responsibility for radiation protection and nuclear safety

(Swedish Nuclear Power Inspectorate, SKI + Swedish Radiation Protection Authority, SSI)



Identity work

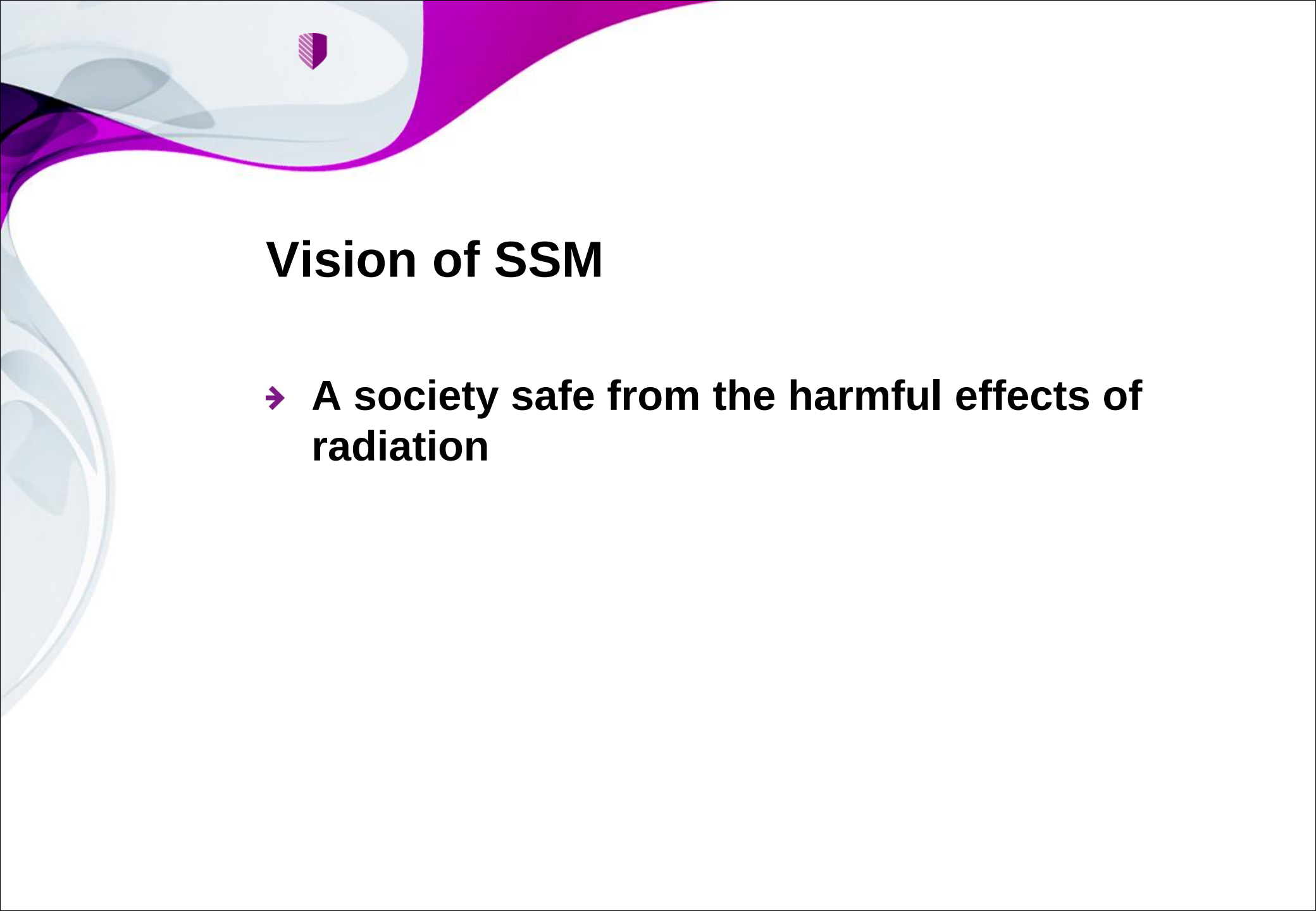
One Authority

Logotype

Vision

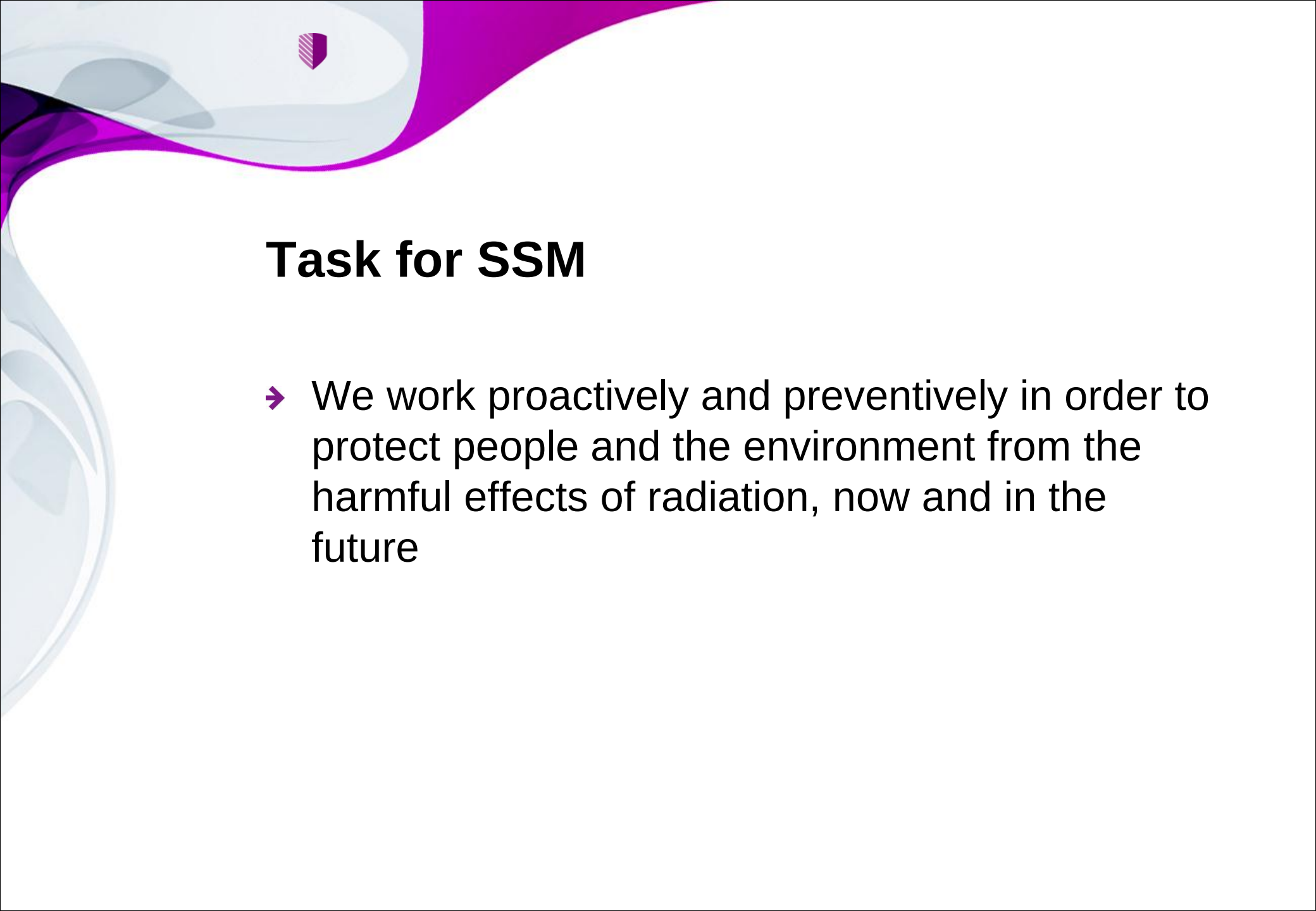
Task





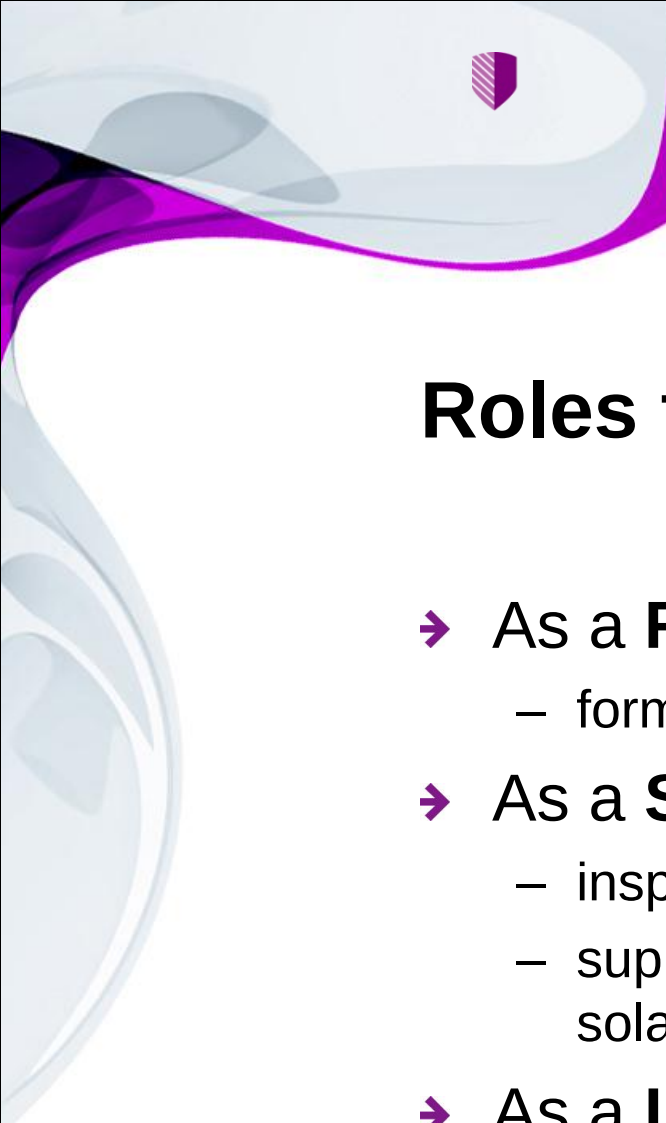
Vision of SSM

- **A society safe from the harmful effects of radiation**



Task for SSM

- We work proactively and preventively in order to protect people and the environment from the harmful effects of radiation, now and in the future



Roles for SSM

- **As a Regulatory Authority**
 - formulate regulations for activities involving radiation
- **As a Supervisory Authority**
 - inspect
 - support municipal authorities in their inspections of solariums
- **As a Licensing Authority**
 - processing applications regarding licences and advise the Government on licensing matters



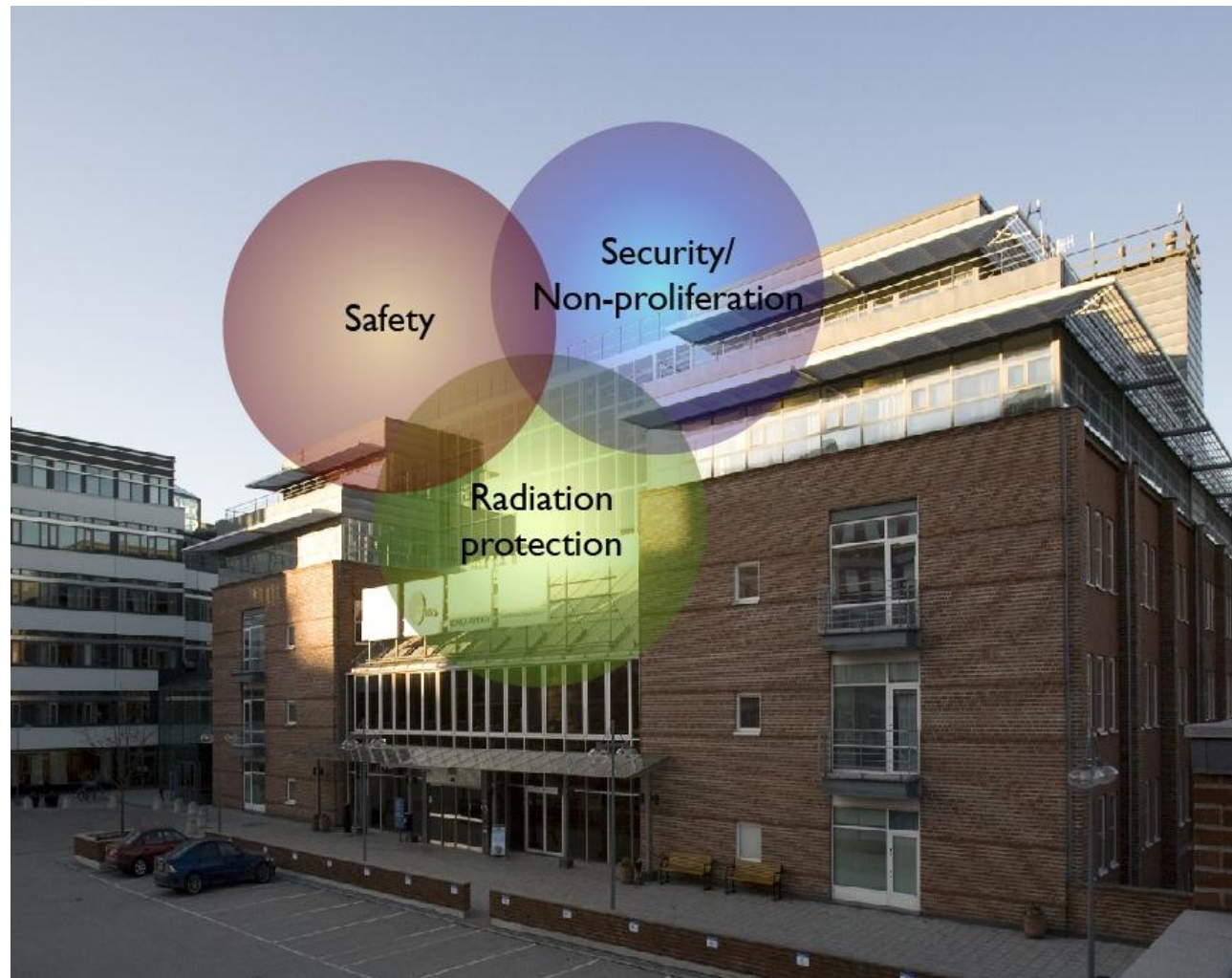
Roles for SSM

- As an **Authority with expertise in radiation and nuclear safety**
- As an **Authority for Emergency Preparedness and Response**
- As an **Authority for International Development**



Roles for SSM

- As an **Environmentally Responsible Authority**
- As an **Accredited National Standard Laboratory** (kerma, absorbed dose and dose equivalent)

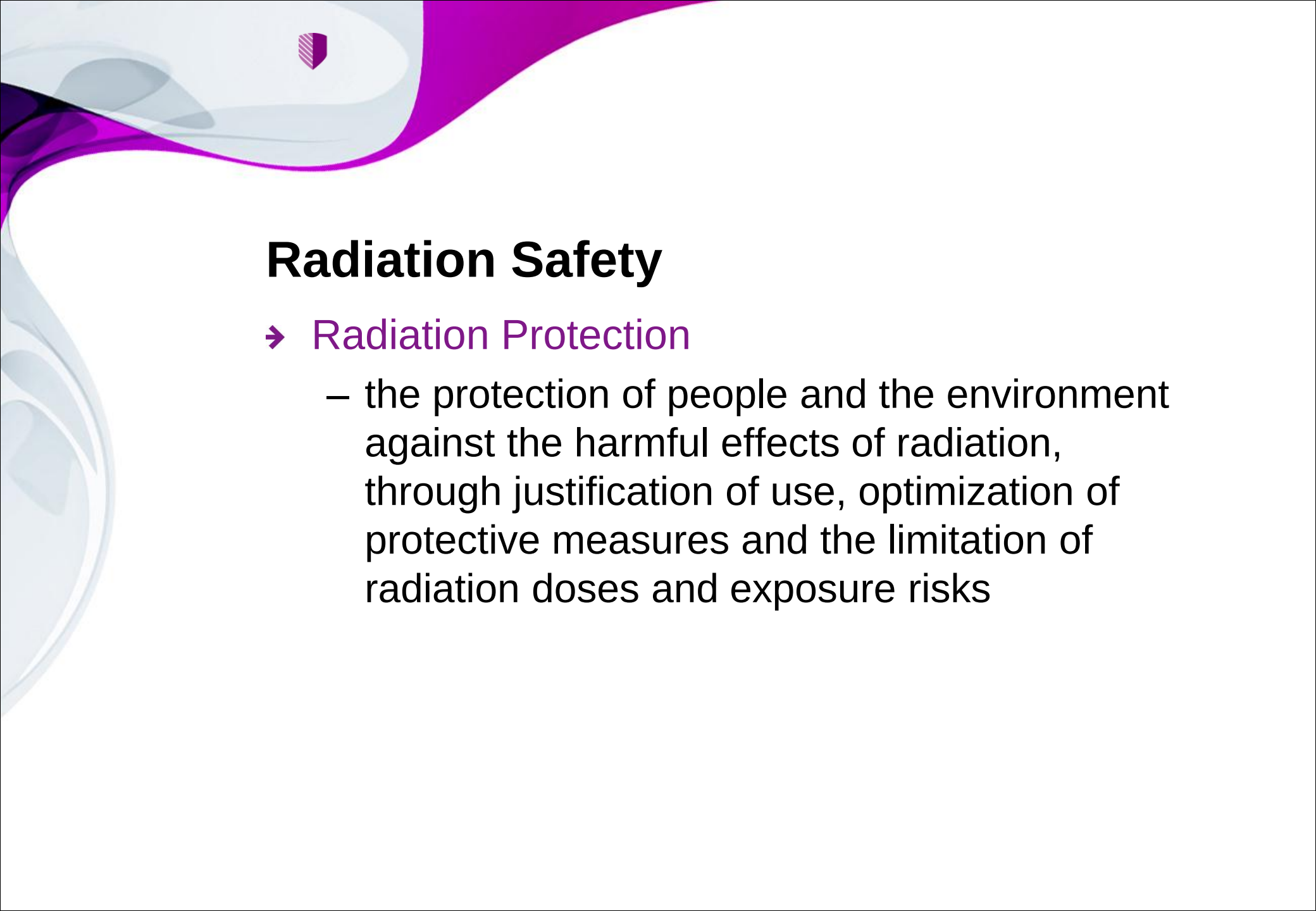




Radiation Safety

“Strålsäkerhetsmyndigheten”

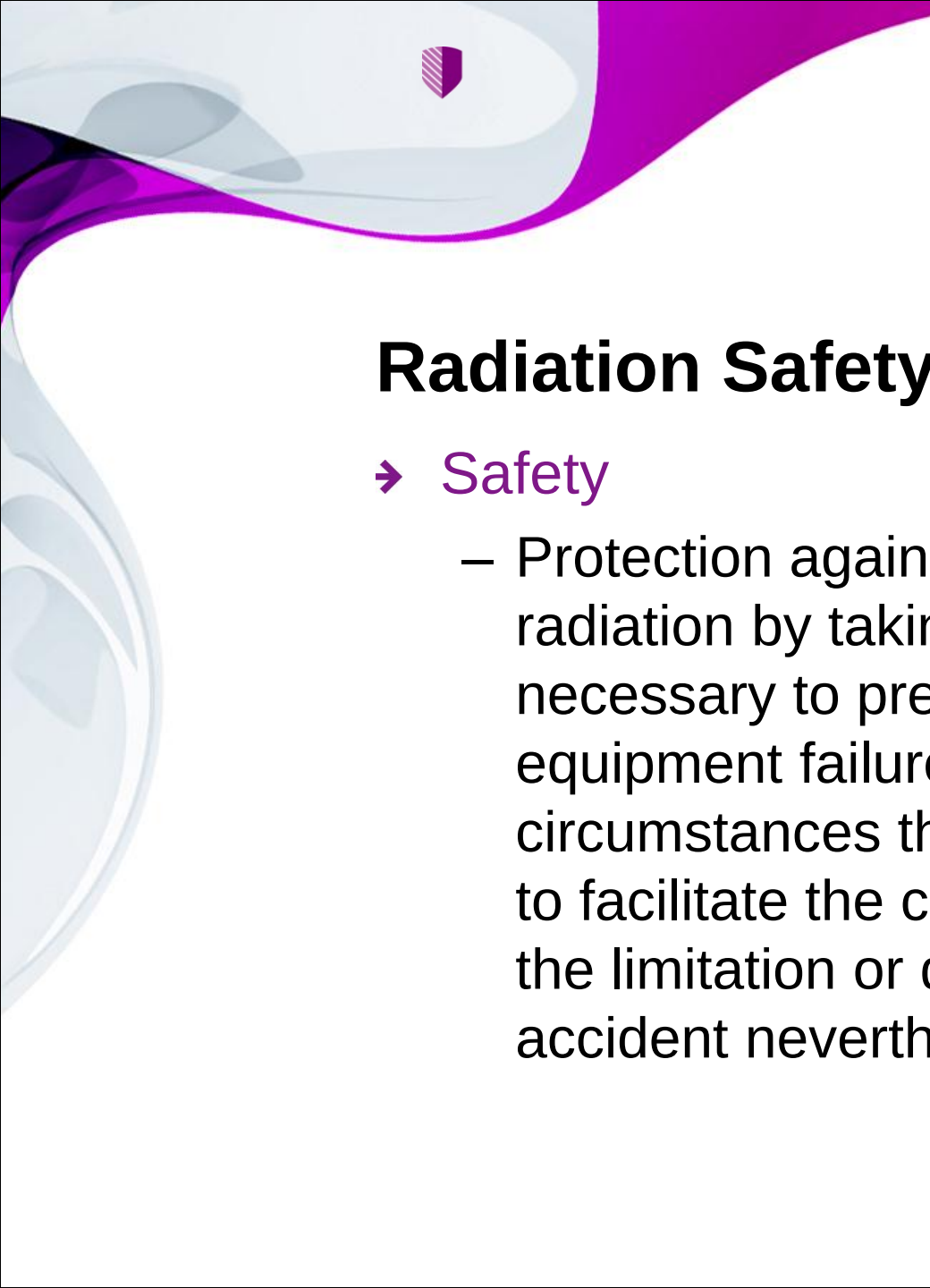
- ➔ Radiation Protection +
- ➔ Safety +
- ➔ Security +
- ➔ Non-proliferation



Radiation Safety

➔ Radiation Protection

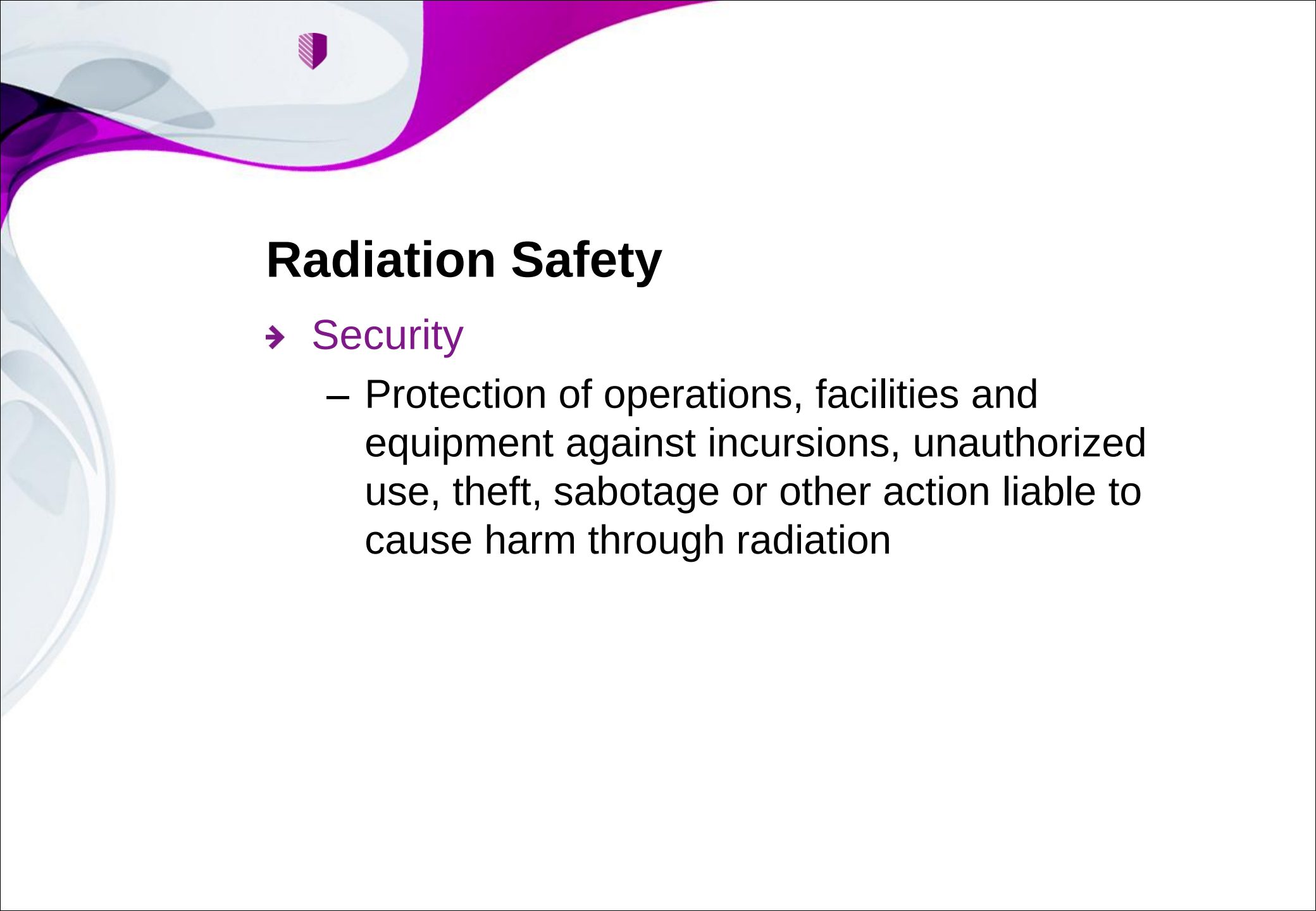
- the protection of people and the environment against the harmful effects of radiation, through justification of use, optimization of protective measures and the limitation of radiation doses and exposure risks



Radiation Safety

➔ Safety

- Protection against the harmful effects of radiation by taking whatever steps are necessary to prevent defects in equipment, equipment failure, wrong handling or other circumstances that may lead to accidents, and to facilitate the combating of breakdowns and the limitation or delay of emissions if an accident nevertheless occur



Radiation Safety

➔ Security

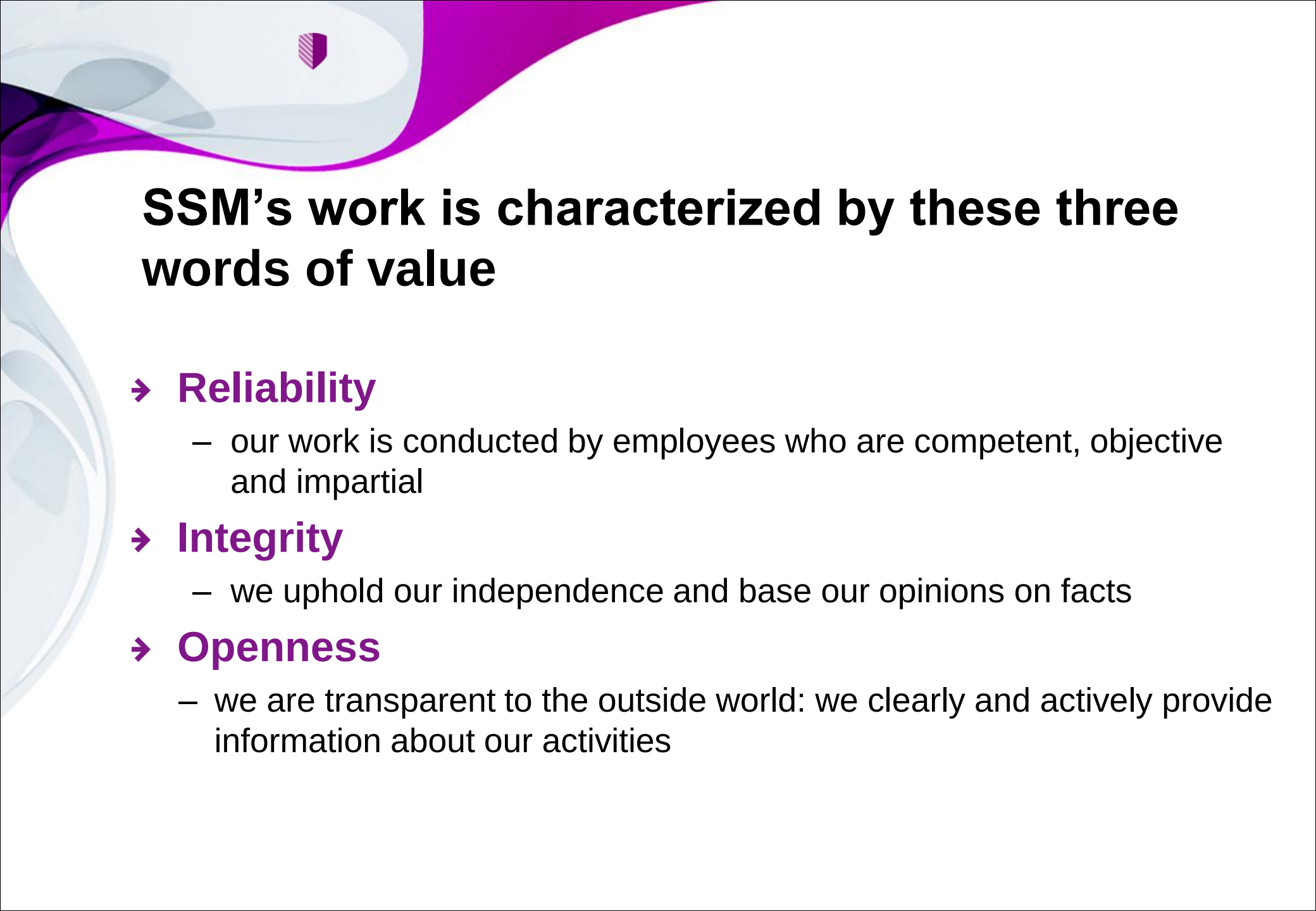
- Protection of operations, facilities and equipment against incursions, unauthorized use, theft, sabotage or other action liable to cause harm through radiation



Radiation Safety

➔ Non-proliferation

- Measures designed to prevent the proliferation of nuclear weapons at both national and international level, and measures to verify that such proliferation is not occurring



SSM's work is characterized by these three words of value

➔ Reliability

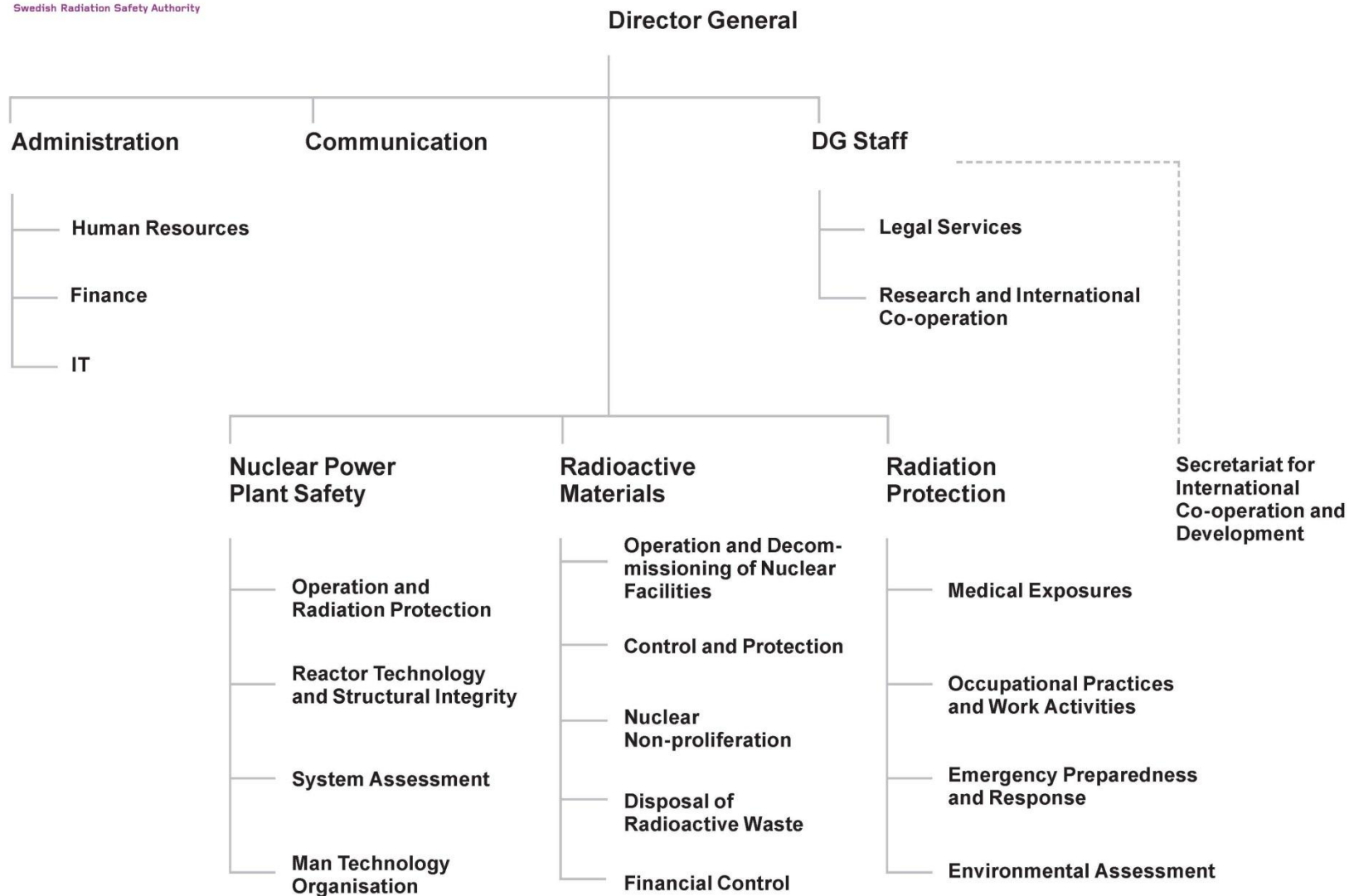
- our work is conducted by employees who are competent, objective and impartial

➔ Integrity

- we uphold our independence and base our opinions on facts

➔ Openness

- we are transparent to the outside world: we clearly and actively provide information about our activities





About the Swedish Radiation Safety Authority

- under the Ministry of the Environment
- DG Ann-Louise Eksborg
- budget approx. 400 million SEK
- 270 employees
- offices in Solna



Foto: Svenolof Jonn



Department for Nuclear Power Plant Safety

For safety at the nuclear power plants in operation

- supervision at reactor plants
- following-up of incidents at Swedish reactor plants
- safety tests
- reviews applications for increases in power



Lennart Karlsson



The Swedish Nuclear Programme

Nuclear Facilities in Sweden



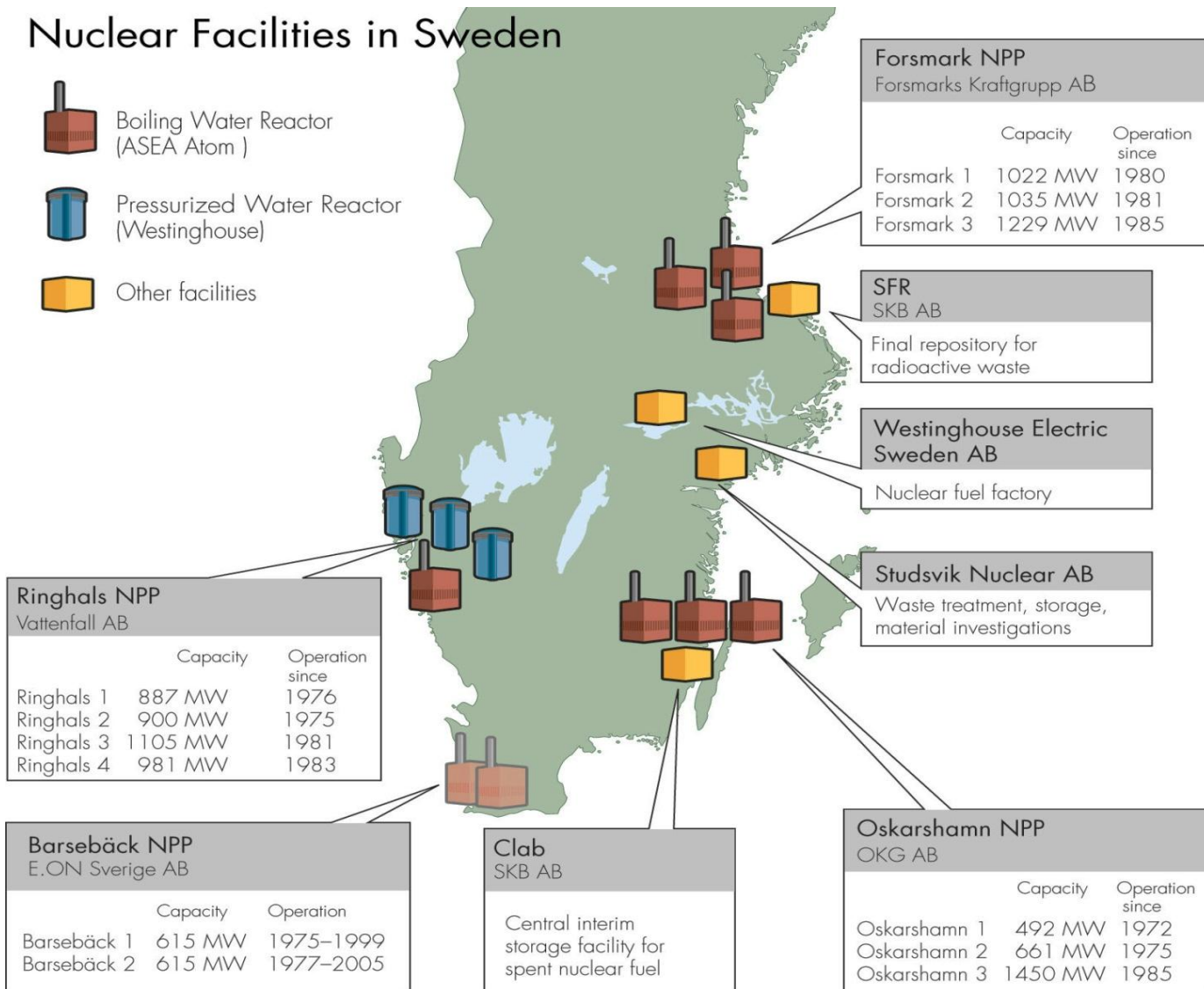
Boiling Water Reactor
(ASEA Atom)



Pressurized Water Reactor
(Westinghouse)



Other facilities





Johan Anderberg

Department for Radioactive Materials

For the safe handling of radioactive materials in society

- regulation and supervision of all nuclear facilities except power plants
- regulations and supervision of radioactive waste
- security
- **rules and supervision concerning emissions of radioactive materials**
- supervision of transportation of radioactive materials
- ensures ultimate storage of spent nuclear fuel and calculates costs



Department for Radiation Protection

For radiation protection, emergency preparedness and environmental monitoring

- maintains the Authority's preparedness
- UV, solariums, radon, radiation from wireless technology and magnetic fields
- patient and personnel radiation protection in healthcare
- supervision of all activities involving radiation outside of nuclear power
- calibrates instruments within nursing and industry
- educational activities

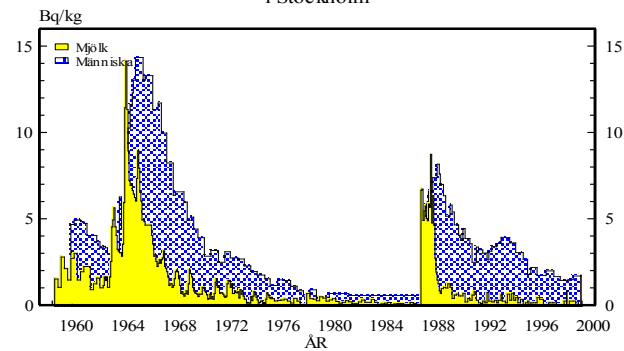
Johan Friberg



Emergency Preparedness



Cesium-137 i mjölk och människa
i Stockholm



SSI, Mo M.





The secretariat for Research, International Co-operation and Development

- coordinating the Authority's research activities
- runs projects with the aim of improving radiation safety in Eastern European countries as directed by the Swedish Government



Leif Moberg



DG Staff

Supports the Authority with

- coordination
- quality development and quality assurance
- legal support



Fredrik Hassel



What more?

Two Laws

Nuclear Operations Act

Radiation Protection Act

Several Ordinances



Legal framework

- February 2011 final report “Radiation Safety – the Law” (SOU 2011:18)
 - Merge the “Nuclear Operations Act” and the “Radiation Protection Act” to a part of the “**Environmental Code**”
- Remittance time to the end of this year
- Rewriting the SSM regulations (SSMFS)
 - Now: 57 regulations



Experience feedback

It takes time

It takes time and power

It takes time, power and it is a new way to work
but in my opinion

it is fun and interesting and in the future it is more
efficient