

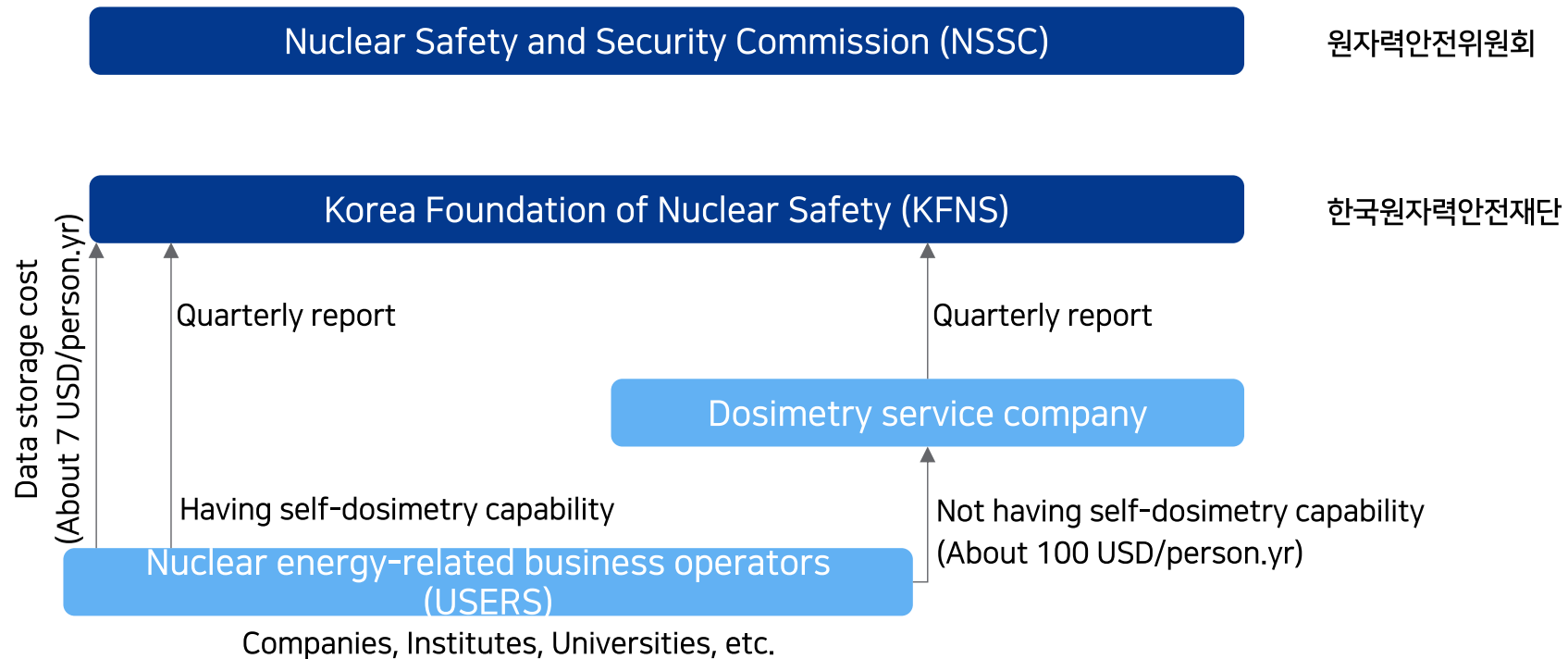
韓国の放射線安全管理システムについて

Korea Institute of Radiological and Medical Sciences, Seoul, Korea

Kyeong Min Kim

Dosimetry System

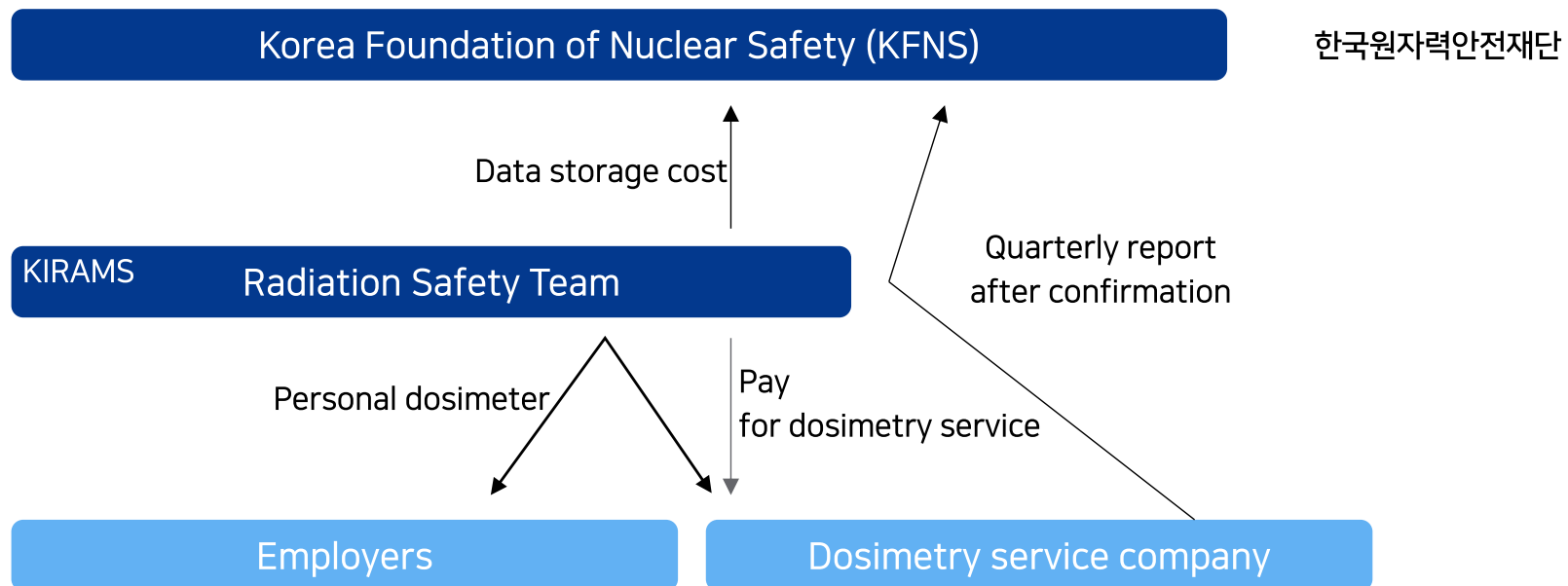
- National personal dosimetry management system
 - Nuclear Safety and Security Commission (NSSC) is the **government department** responsible for national radiation safety.
 - Korea Foundation of Nuclear Safety (KFNS) was entrusted with **dose management**.
 - Nuclear energy-related business operators (USERS) report exposed dose quarterly.



Dosimetry System

■ For KIRAMS

- **Radiation Safety Team** is in charge of dosimetry.
- Personal dosimeters are collected and distributed by **Radiation Safety Team**.
- Dosimetry service and data storage costs are paid by **Radiation Safety Team**.
- Exposed dose amount is notified to employers each by **Radiation Safety Team**.



■ Classification of radiation worker

- Radiation worker; who use radiation for works
- Frequent visitor; who not use radiation but enter radiation area
- General public; who are one-time visitors for trip, study, inspection, or device repair
- **Only radiation worker is managed by government.**

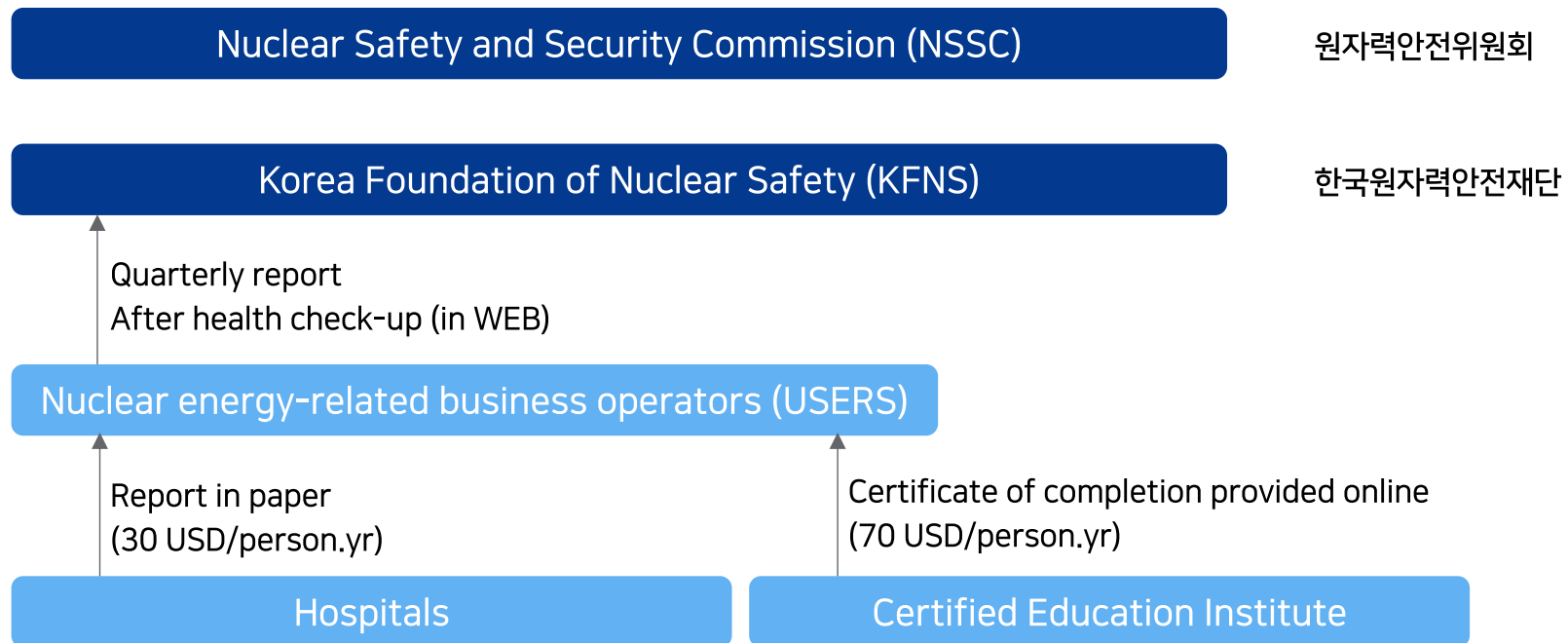
- *In Korea universities, students are designated as frequent visitor to observe the x-ray imaging.*
- *X-ray imaging is performed by the professors, who is a radiation worker.*
- *X-ray imaging of human is prohibited; only phantoms must be used.*

■ Reporting unit period

- **Quarter reporting** if using TLD or OSL
- Monthly reporting if using film badge
(Currently, there are no company providing film badge dosimetry service in Korea)
- Exceptionally, **non-destructive testing companies** evaluate and report **monthly**.

Health and Training Management

- Management system of health check-up data
 - Annual blood tests at a general hospital.
 - Report online at KFNS including scanned blood test report.
- Management system of radiation workers education.
 - Annual training at NSSC-certified education institutes.
 - Report online at KFNS.
- All costs are paid by USERS



Radiation License System



Radiation-related licenses

- Managed by NSSC.
- Classification according to handling object and amount.
- USERS must hire a licensee before applying for a radiation use permit.

RI or RG

- RI
 - Radioactive Isotope handler
- SRI
 - Senior Radioactive isotope Handler
- **Special License for the Radioisotope Handler**
 - For medical doctors

Nuclear reactor

- RO
 - Reactor Operator
- SRO
 - Senior Reactor Operator

Nuclear fuel

- RM
 - Reactor nuclear fuel Material handler
- SRM
 - Senior Reactor nuclear fuel Material handler



Thank you