

IRPA 12

**IMPLEMENTING THE
REGULATORY AUTHORITY
INFORMATION SYSTEM
(RAIS)**

Buenos Aires, Argentina, 19-24 October, 2008

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IAEA

International Atomic Energy Agency

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- Regulatory Authority Information System
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Background

Safety Functions

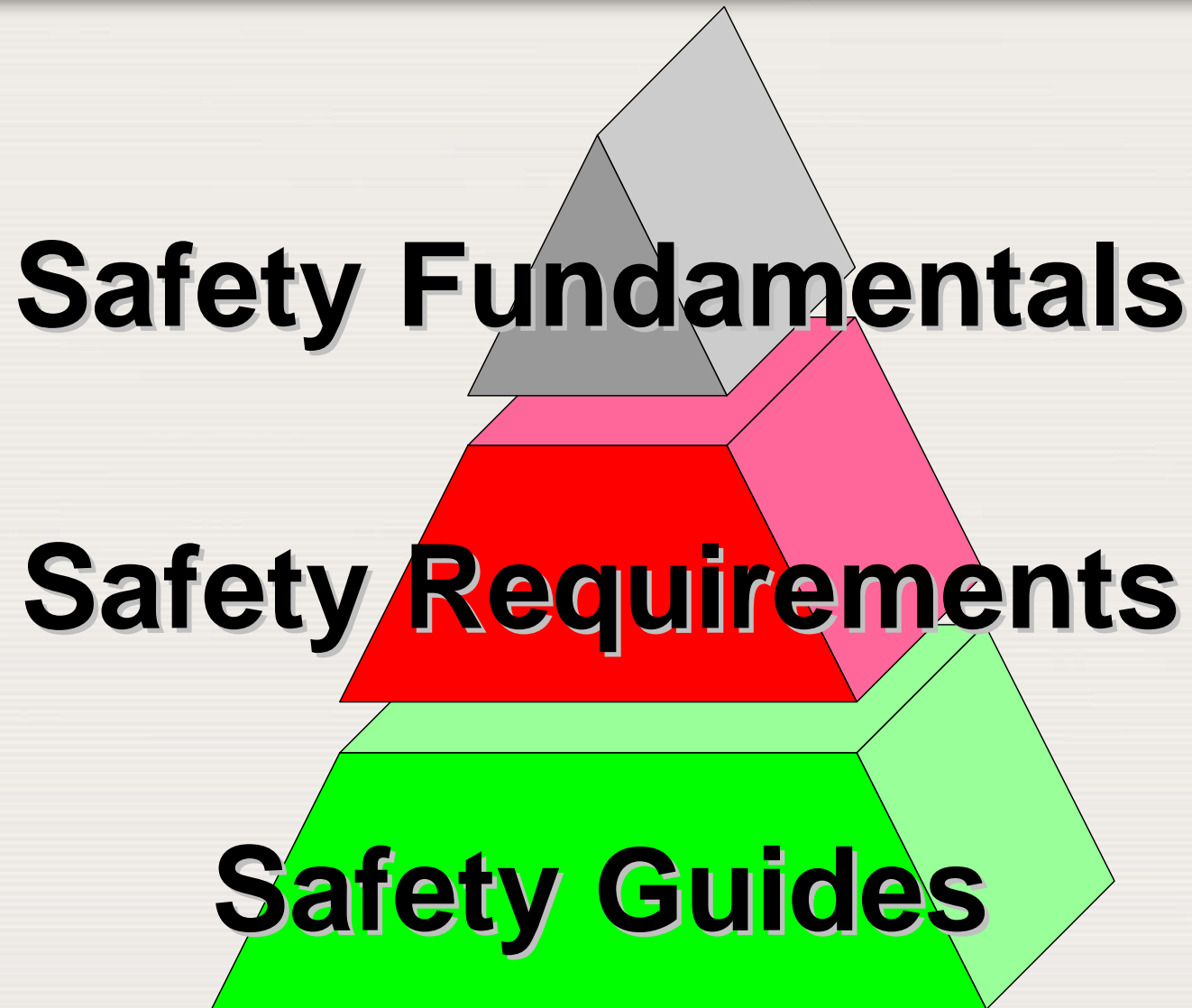
**IAEA Safety
Functions
(Article III.A.6)**

**Facilitate and
service international
conventions and
other undertakings**

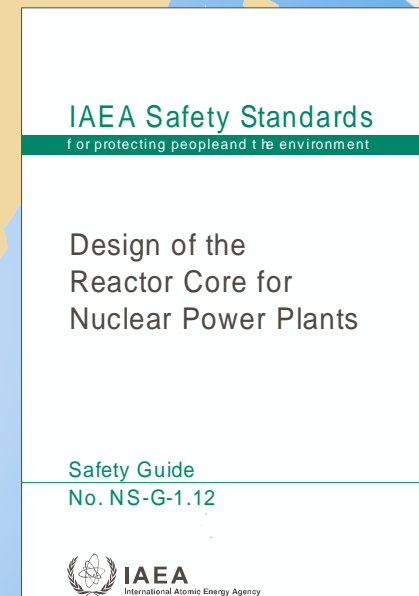
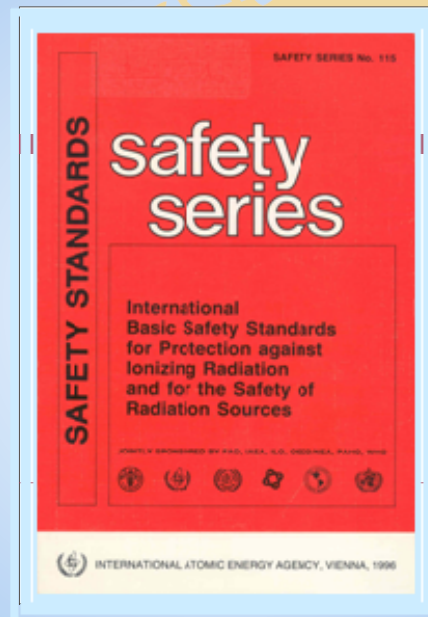
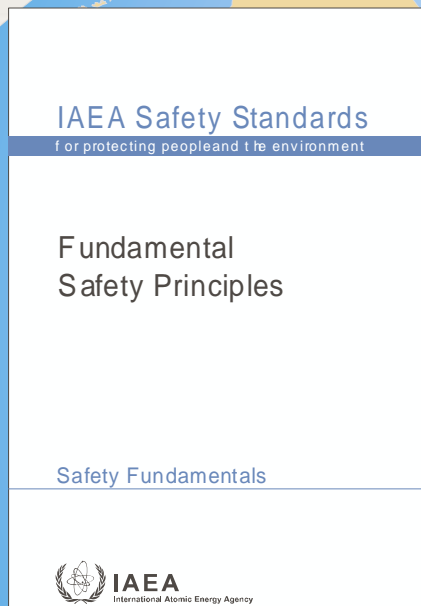
**“To establish or adopt...
[in consultation ...]
standards of safety for
protection of health &
minimization of danger
to life and property”**

**“...and to provide
for the
application of these
standards...”**

Safety Standards Categories



Safety Standards Categories (Cont'd)

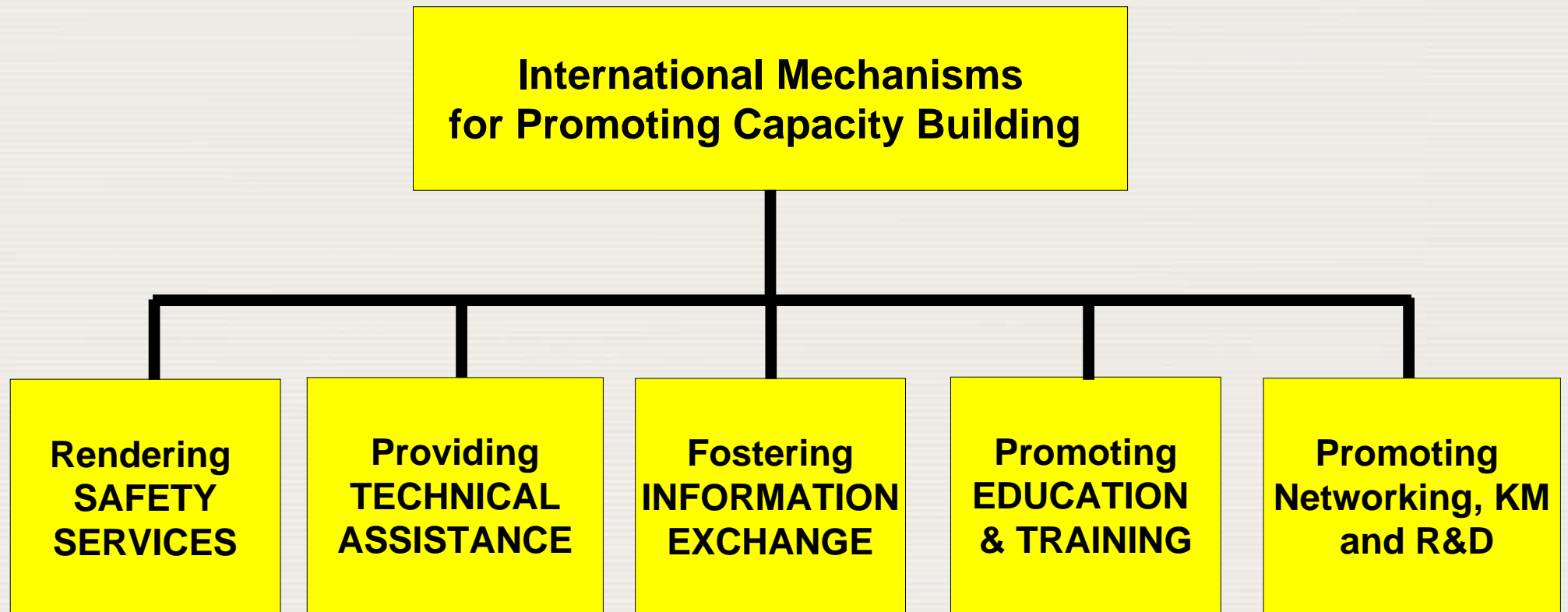


Fundamental safety objective and principles for protecting people and environment

Requirements that must met to ensure protection of people and environment – 'shall'

Recommended ways of meeting the requirements

Provisions for the application of standards



Regulatory Authority Information System

RAIS - Objectives

- Provision of a system offering cradle-to-grave control of radiation sources, facilities and practices in accordance with international standards and guidance, including the Code of Conduct
- Promotion of a consistent and common approach to the regulatory control of radiation sources, whilst offering flexibility to match national regulatory systems

RAIS: What is it for?

- Information management tool related to the regulatory control of radiation sources
- Management of daily regulatory activities carried out by regulatory bodies:
 - National register of facilities and sources
 - Authorization
 - Inspection
 - Enforcement
 - ...
- Performance indicators and quality management of the regulatory programme

RAIS: What's its basis?

RAIS development is based on :

- International Standards (BSS, GS-R-1);
- Code of Conduct on the Safety and Security of Radioactive Sources;
- guidance on Categorization and the Security of Radioactive Sources (IAEA Safety guide RS-G-1.9 IAEA-TECDOC 1355); and
- Feedback and experience from Member States.

RAIS: What's its scope?

RAIS covers:

- Infrastructure information (e.g. State's administrative infrastructure, regulatory body etc);
- Facilities;
- Radiation sources and associated equipments;
- Authorization;
- Inspection;
- Enforcement; and
- Additional items: incidents, worker exposure, service providers.

RAIS: What's its features?

- Default data structure compatible with international standards and ready to use
- Extensive customizability to respond to specific needs of the countries, with due account of their national legislative and regulatory framework
- Internal data consistency checking
- Data protection and data confidentiality
- User friendliness
- Single-site / Multiple site environment
- Wide spectrum on technology support: MS Access, SQL server, Web
- Tools to assist regulatory bodies in the supervision, management and quality assurance of their regulatory programme.

RAIS: What's its status?

Staged Approach:

- MS-Access version (in all IAEA languages) released in 2004
- SQL extensions version released in May 2006 and translated in all IAEA languages
- RAIS Web Portal, released in October 2008

RAIS: What's its status (Cont'd)?

Distribution to 117 countries



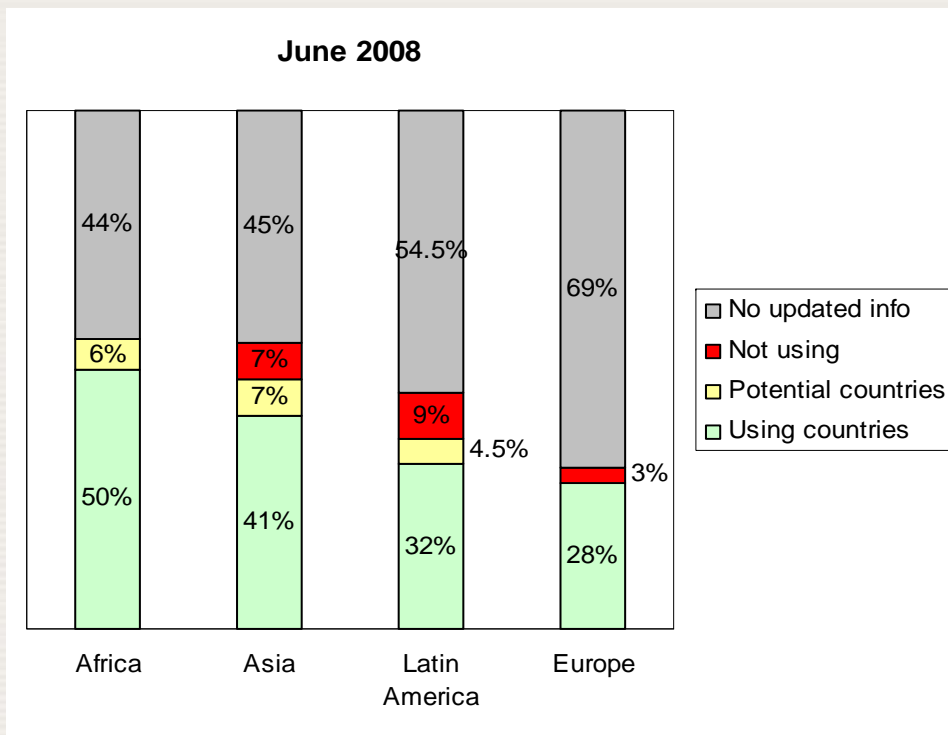
RAIS: What's its status (Cont'd)?

IAEA Support

- Training of more than 200 persons
- Workshops organized in Europe (Austria, Turkey, Russia), Africa (Ghana, Morocco, Egypt, Tunisia), Asia (India, Yemen), Latin America (Chile, Argentina)
- On-going technical assistance for RAIS installation and customization
- Network of RAIS users (Workshops, web site, regional assistance ,...)

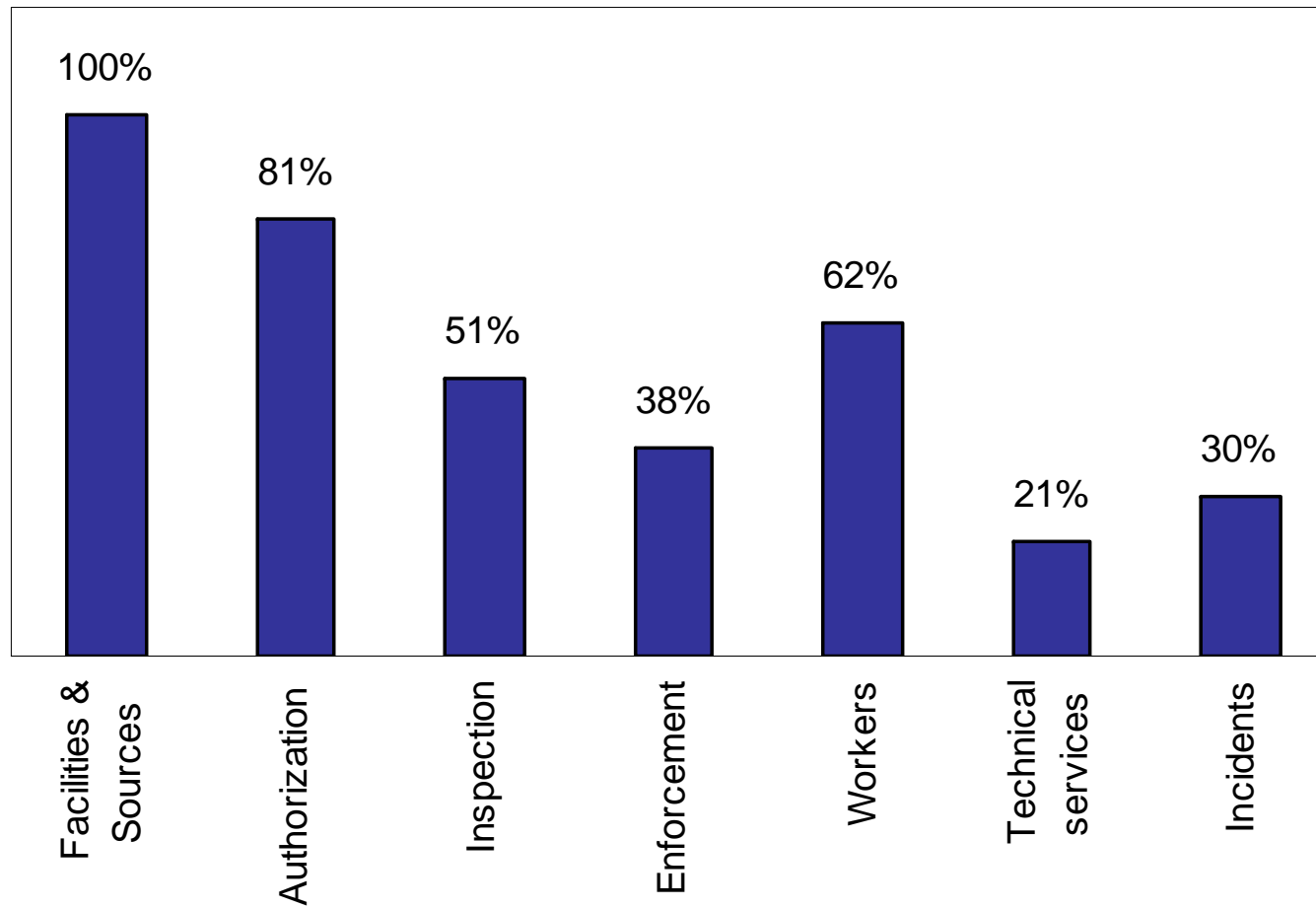
RAIS: What's its status (Cont'd)?

- Recent reports by 57 MS (Questionnaire Q2/2008)
- 47 MS are using RAIS
- 5 MS will not use RAIS
- 5 MS considering to use RAIS in the future
- No updated info from 62 MS

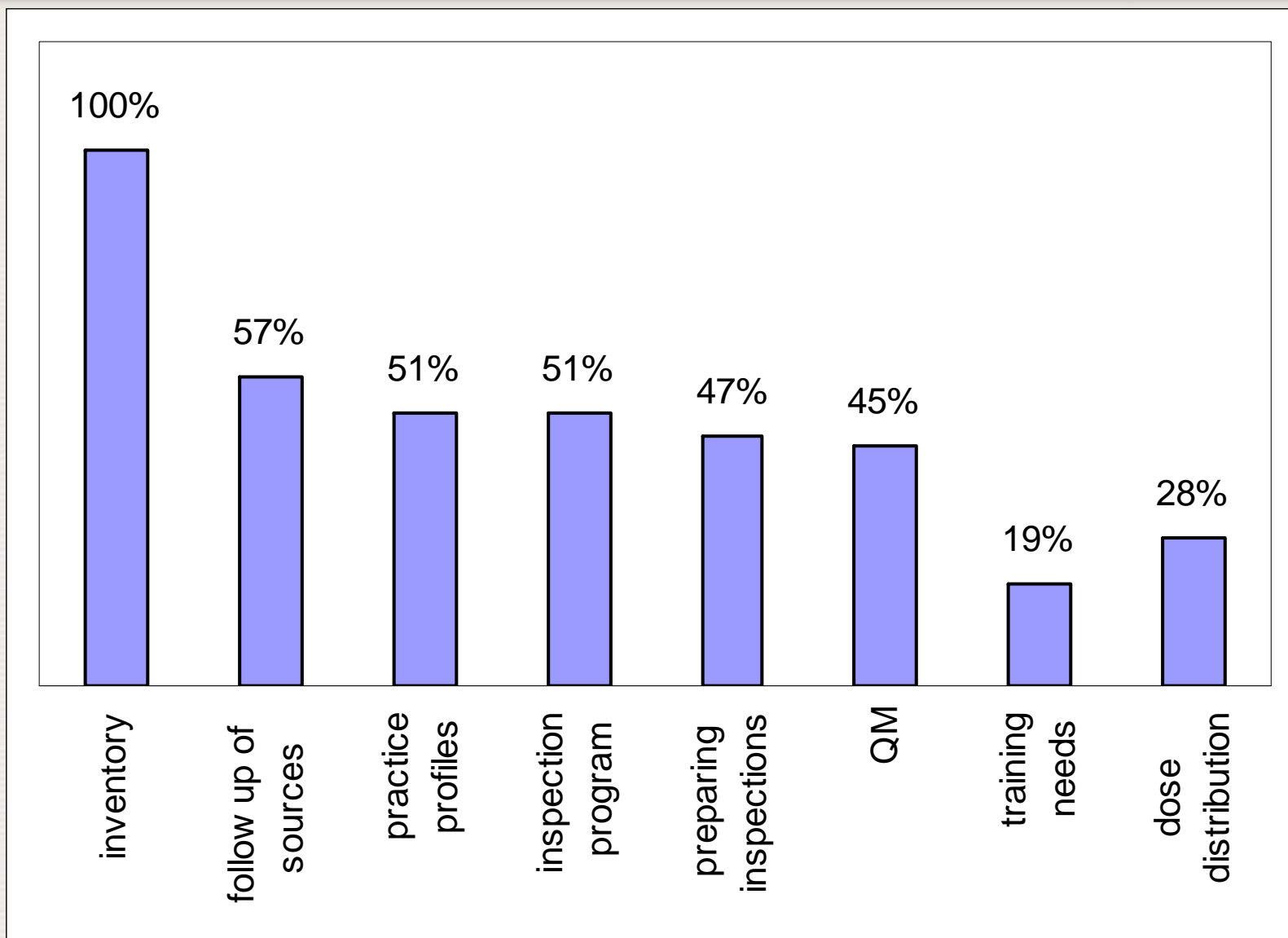


RAIS 3.0: Scope of use

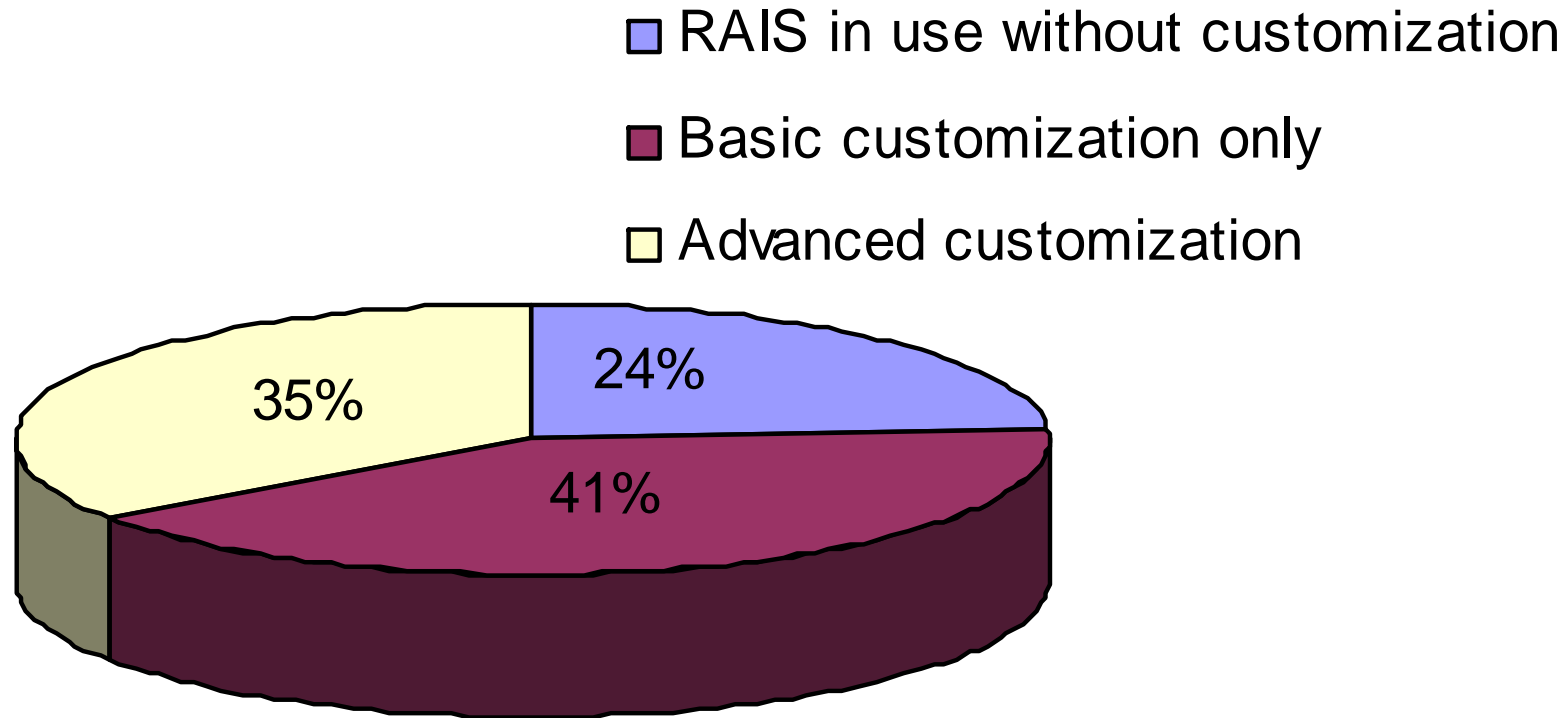
Data reported by 47 countries using RAIS - Status: 18 July 2008



RAIS 3.0: Advanced use



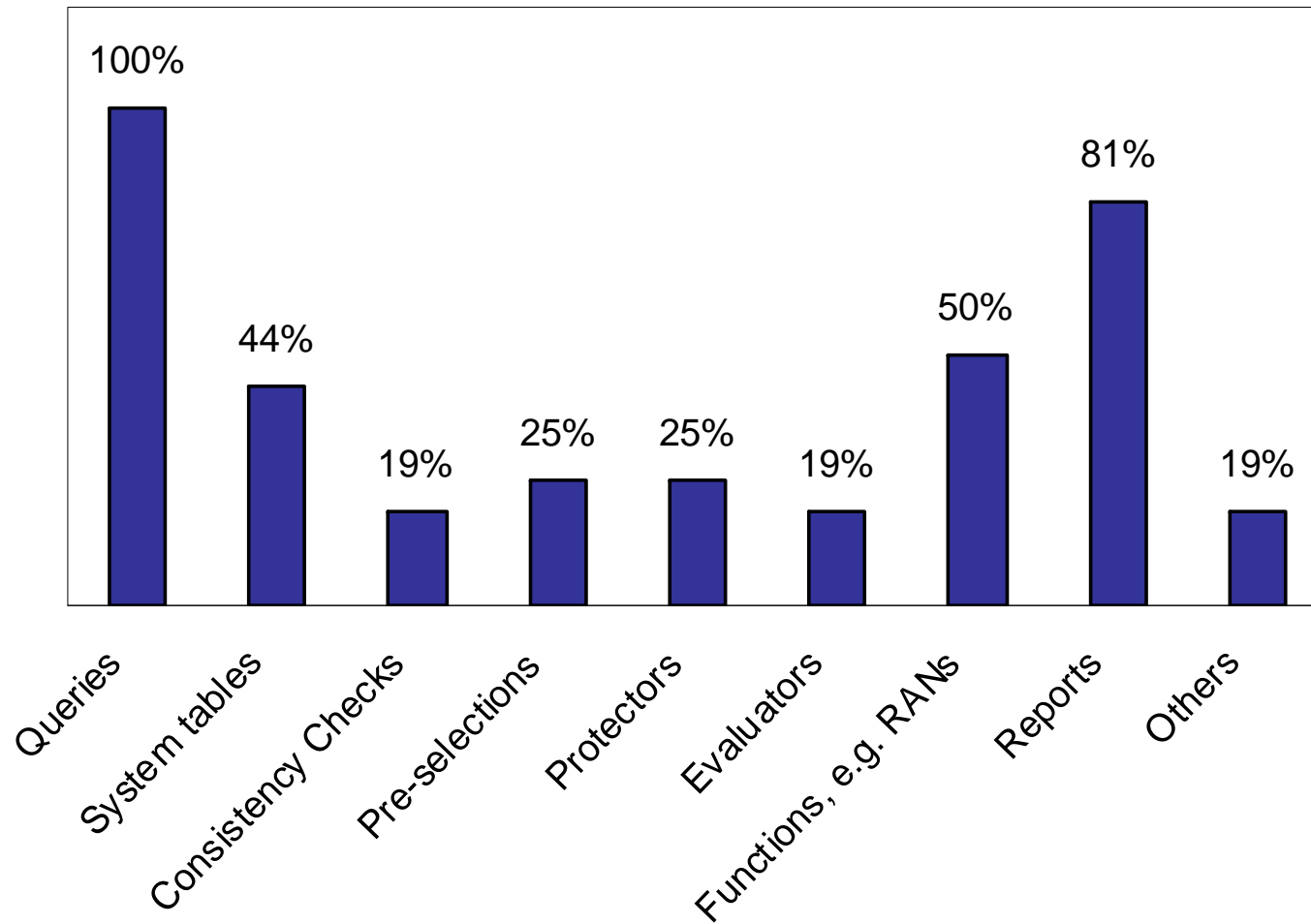
RAIS 3.0: customization



Data reported by 47 countries using RAIS - Status 18 July 2008

RAIS 3.0: customization (cont'd)

*35% of the countries make use of RAIS Advanced customizability
Data reported by 47 countries using RAIS - Status: 18 July 2008*



RAIS: Web Portal

Why move towards RAIS Web Portal?

- Remote access of the regulatory authority staff members, such as inspectors in the field or regional offices of the regulatory authority
 - It can also be used within the regulatory authority's intranet as a replacement for the MS Access RAIS front-end
- Remote access by other relevant authorities such as the Health, Environmental, Transport or Customs authorities, to the relevant parts of the data for their own purposes

RAIS: Web Portal (cont'd)

Why move towards RAIS Web Portal?

- Access by authorized representatives of facilities to their own facility's data
- A means for communication between facilities and the regulatory body
- A means for on-line submission of inventory data, application of authorization and other issues, subject to validation by regulatory authority officers and legal acceptance in each of the using countries' legislative system
- A means for information dissemination to the public such as published laws, regulations, statistical and other information related to safety and public concern

RAIS Web Portal – New Features

- Enhanced access control through “function roles” and “data roles”
- On-line submission of information by registered licensees, with explicit validation by the regulator
- Provides more information on regulatory activities to the public, e.g. published laws and regulations, statistics on authorization/inspection, etc. (enhancement of “guest” access)

RAIS Web Portal – New Features (cont'd)

- Improvement of the incident module through the integration of the RADiation EVents Database (RADEV)
- Connection with the International Catalogue of Sealed Radioactive Sources (ICSRS) for downloading information on:
 - Manufacturers
 - Sealed sources' models
 - Associated equipments' models

Development of RAIS Web Portal

- Review of existing web-sites
- Technical Meeting with interested countries in September 2006
- Software Requirements Specification in June 2007
- Development started in December 2007
- Release of RAIS Web Portal in Q3 2008

RAIS Web Portal – Training

Regional training workshops

- Europe Region 3 – 7 Nov. 2008 (Vienna)
- Asia Region 8 – 12 Dec. 2008 (Qatar)
- English speaking African countries: Q1 2009
?

- Other regional training workshops will be organized in 2009.

DEMONSTRATION