

Department of Nuclear Safety and Security

IEC

Incident and Emergency Centre



IAEA

International Atomic Energy Agency

Incident and Emergency Centre (IEC)

Mission

Global focal point
for emergency preparedness and response
for nuclear and radiological safety or security
related emergencies, threats or events of
media interest
and
world's centre for coordination of international
emergency preparedness and response
assistance

Roles and Responsibilities in Response (1)

- Notification and official information exchange
 - Through officially designated Contact Points

Convention
on Early Notification
of a Nuclear Accident
and
Convention on Assistance
in the Case
of a Nuclear Accident
or Radiological Emergency

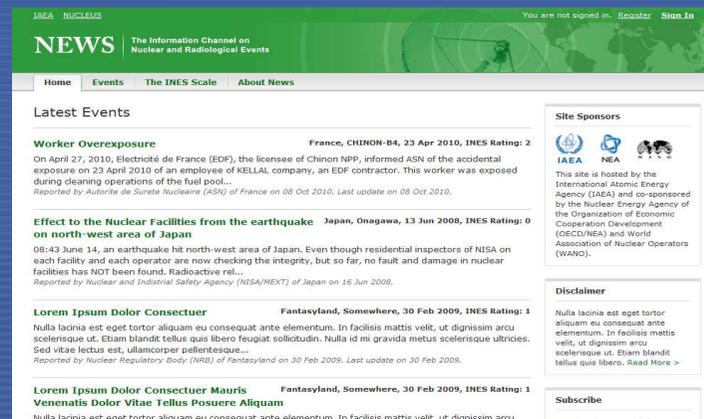


INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1987



Roles and Responsibilities in Response (2)

- Provision of public information
 - Timely, clear, correct and easily understandable



Roles and Responsibilities in Response (3)

- Assessment of potential emergency consequences and prognosis of possible emergency progression

IAEA Action Plan on Nuclear Safety

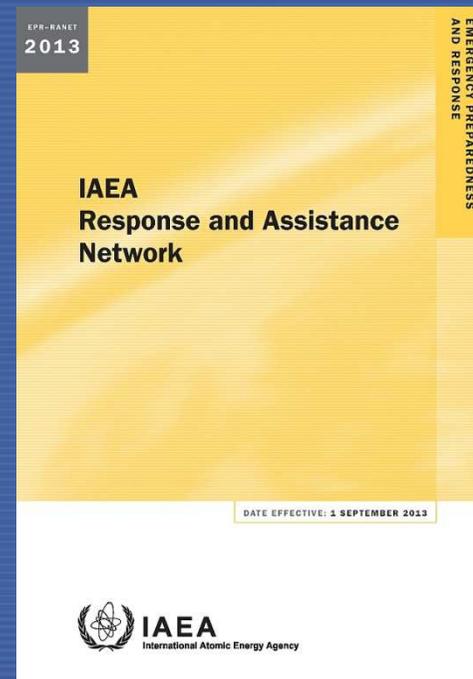
‘Enhance transparency and effectiveness of communication and improve dissemination of information’

- “The IAEA Secretariat to provide Member States, international organizations and the general public with **timely, clear, factually correct, objective and easily understandable information** during a nuclear emergency on its **potential consequences, including analysis of available information and prognosis of possible scenarios** based on evidence, scientific knowledge and the capabilities of Member States.”

Roles and Responsibilities in Response (4)

- Provision of assistance on request
 - Provide/facilitate and coordinate

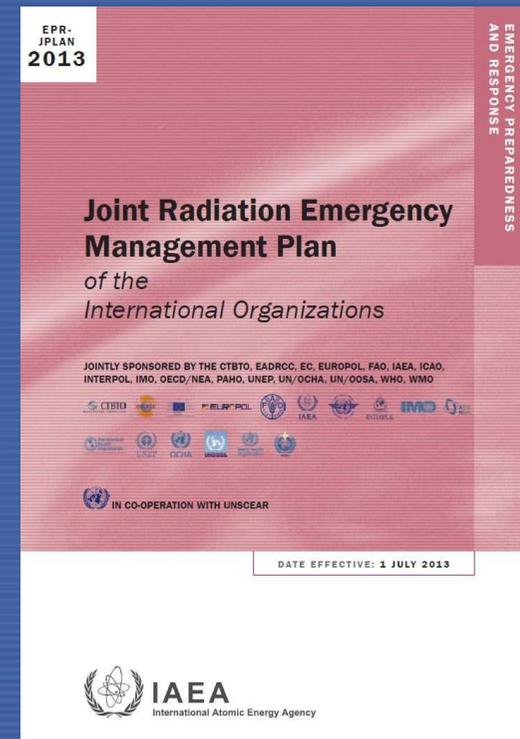
23 Member States registered in RANET



Roles and Responsibilities in Response (5)

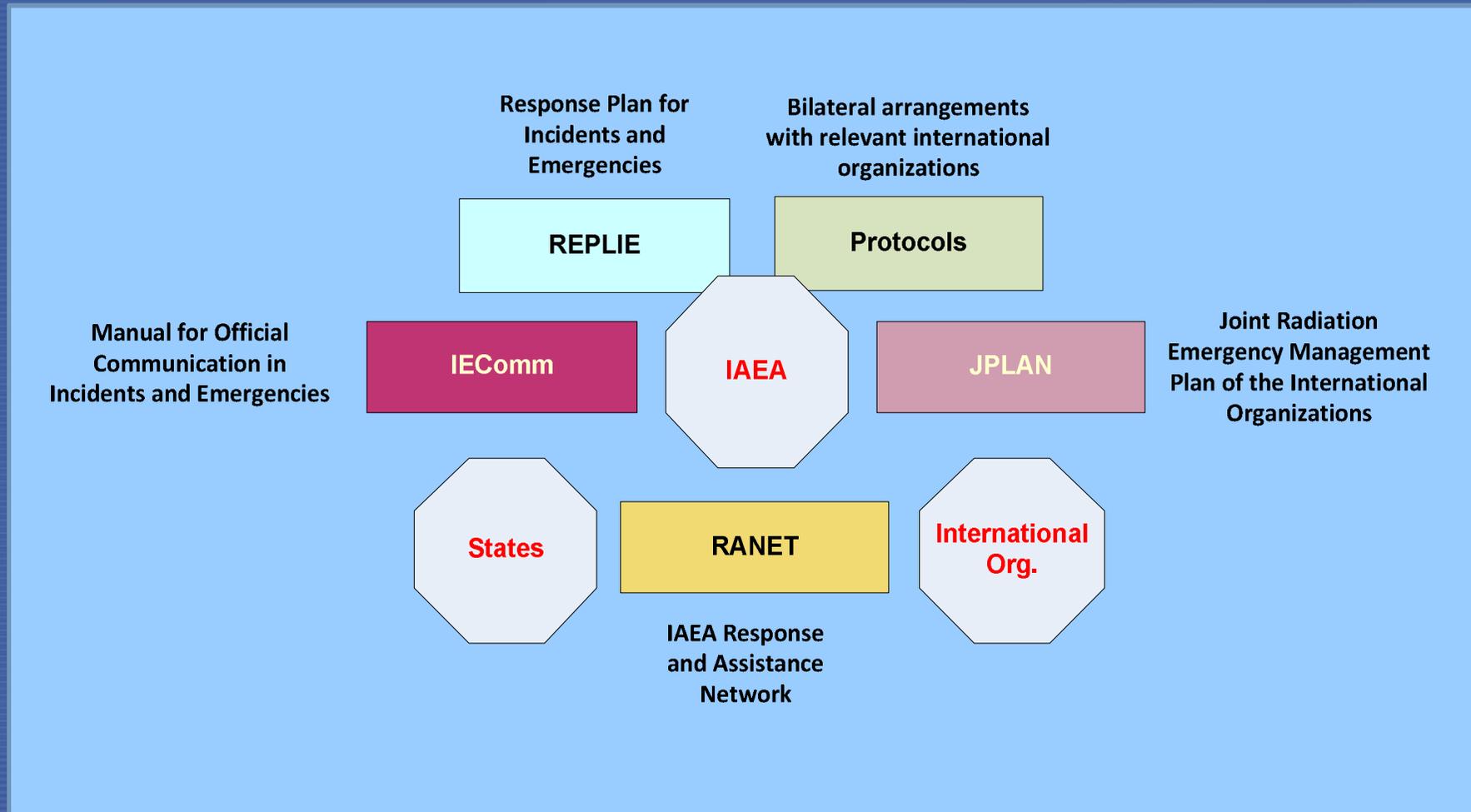
- Coordination of inter-agency response
 - Achieve synergy, speak with 'one voice'

16 International Organizations members
of the Inter-Agency Committee on
Radiological and Nuclear Emergencies
(IACRNE)



International EPR Framework

Operational arrangements and protocols



Response Structure

24/7 Coverage

Director General

DDG-NS

IES Steering Group
Policy matters and oversight

Warning Point
Security Control
Centre of UNSSS

On-Call System
Initial response to
incoming message

IEC

On-Duty System
Call-out list

ON-CALL:

- Emergency Response Manager
- Logistics Support Officer
- Radiation Safety Specialist
- Nuclear Installation Safety Specialist
- Nuclear Security Specialist
- External Event Specialist
- Public Information Officer

Examples of IEC Responses (1)

Response to the accident at TEPCO's Fukushima Daiichi Nuclear Power Plant, 2011

- Full Response Mode – March 11- May 3, 2011
 - 54 days (24 h)
 - 230 IAEA's staff worked in IEC in shifts
- Basic Response Mode
 - May 4 – December 21, 2011
- Normal/Ready Mode
 - Since December 21, 2011
 - Liaising with PM Japan and counterparts in Japan related to assessment matters and monitoring data
 - Continuing to prepare/publish Status Summary Reports **including IAEA assessment**



Examples of Responses (2)

- Assistance mission to Cambodia (with RANET involvement), 2012
 - Request for assistance under Assistance Convention for brachytherapy source recovery in a hospital



Examples of IEC Responses (3)

- Assistance mission to Trinidad and Tobago (with RANET involvement), 2012
 - Request for assistance for medical assessment and advice following overexposure of 223 patients in private radiotherapy clinic (2008-2010)

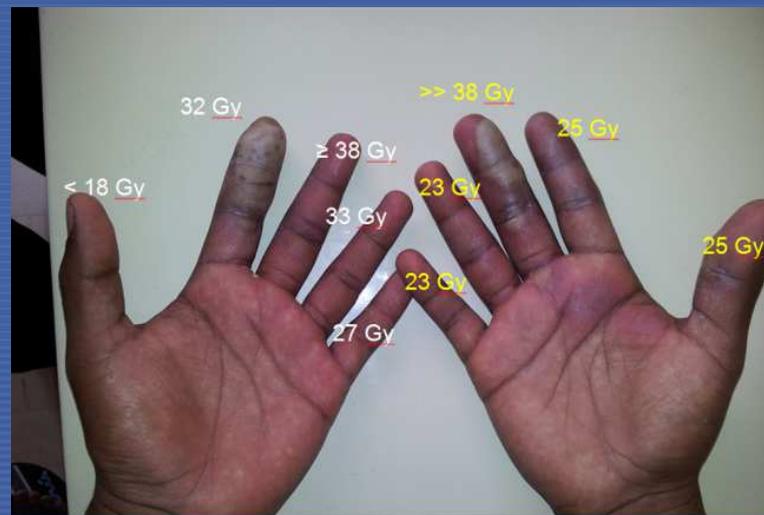


Became IAEA Member State in 2012



Examples of IEC Responses (4)

- Assistance missions to Peru (with RANET involvement), 2012-2013
 - Requests for assistance under Assistance Convention for dose reconstruction, medical advice and treatment



Examples of IEC Responses (5)

- Assistance mission to Sierra Leone, 2013
 - Recovery and safe storage of an orphan radioactive source



Roles and Responsibilities in Preparedness

- Emergency Preparedness and Response (EPR) standards, guidance and tools
- EPR capacity building
- Emergency Preparedness Review (EPREV)
- IAEA's in-house and inter-agency preparedness

Standards, Guidance and Tools

IAEA SAFETY STANDARDS SERIES

Preparedness and Response for a Nuclear or Radiological Emergency

JOINTLY APPROVED BY IAEA, ILO, OECD/NEA, PAHO, OCHA, WHO

REQUIREMENTS

No. GS-R-2

INTERNATIONAL ATOMIC ENERGY AGENCY

IAEA Safety Standards
for protecting people and the environment

Arrangements for Preparedness for a Nuclear or Radiological Emergency

JOINTLY APPROVED BY IAEA, ILO, OECD/NEA, PAHO, OCHA, WHO

Safety Guide

No. GS-G-2.1

INTERNATIONAL ATOMIC ENERGY AGENCY

IAEA Safety Standards
for protecting people and the environment

Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency

JOINTLY APPROVED BY IAEA, ILO, OECD/NEA, PAHO, OCHA, WHO

General Safety Guide

No. GS-G-2

INTERNATIONAL ATOMIC ENERGY AGENCY

2011 Cytogenetic Dosimetry: Applications in Preparedness for and Response to Radiation Emergencies

2006 Dangerous quantities of radioactive material (D-values)

2012 Considerations in Emergency Preparedness and Response for a State Embarking on a Nuclear Power Programme

2005 Preparation, Conduct and Evaluation of Exercises to Test Preparedness for a Nuclear or Radiological Emergency

2006 Manual for First Responders to a Radiological Emergency

2012 Cytogenetic Dosimetry: Applications in Preparedness for and Response to Radiation Emergencies - Training Materials

2012 Considerations in Emergency Preparedness and Response for a State Embarking on a Nuclear Power Programme - Training Materials

2006 Preparation, Conduct and Evaluation of Exercises to Test Preparedness for a Nuclear or Radiological Emergency - Training Materials

2009 Manual for First Responders to a Radiological Emergency - Training Materials

2012 Lessons Learned from the Response to Radiation Emergencies (1945-2010)

2005 Generic procedures for medical response during a nuclear or radiological emergency

2009 Method for Developing Arrangements for Response to a Nuclear or Radiological Emergency

2013 Actions to Protect the Public in an Emergency due to Severe Conditions at a Light Water Reactor

2013 Communication with the Public in a Nuclear or Radiological Emergency

2011 Generic Procedures for Response to a Nuclear or Radiological Emergency at Triga Research Reactors

2002 Medical Preparedness and Response

2012 Communication with the Public in a Nuclear or Radiological Emergency - Training Materials

Incident and Emergency Centre Public Information Officers Toolkit

Incident and Emergency Centre Emergency Planners Toolkit

Incident and Emergency Centre Responders Toolkit

The Radiological Accident in Goiânia

INTERNATIONAL ATOMIC ENERGY AGENCY, VENUE, 1988

Accidental Overexposure of Radiotherapy Patients in Bialystok

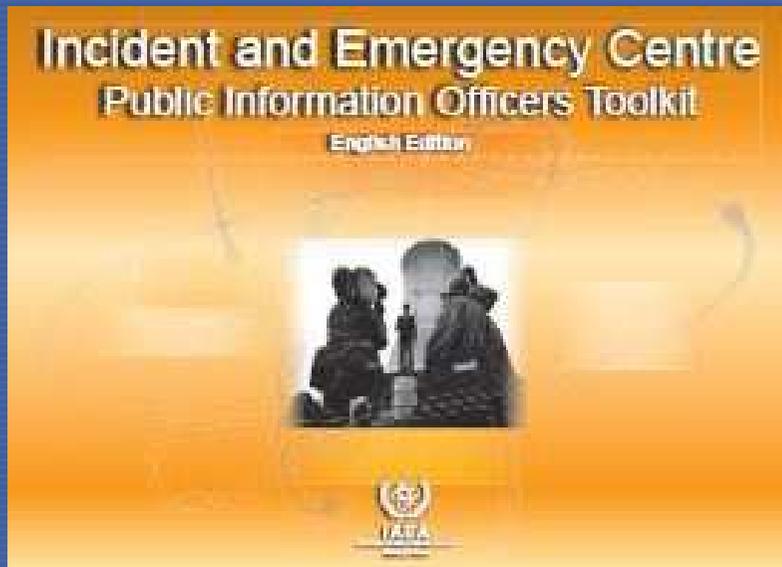
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The Radiological Accident in Cochabamba

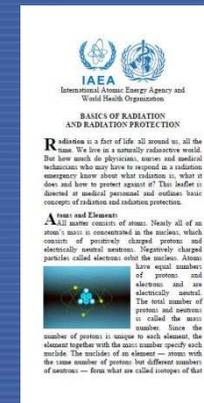
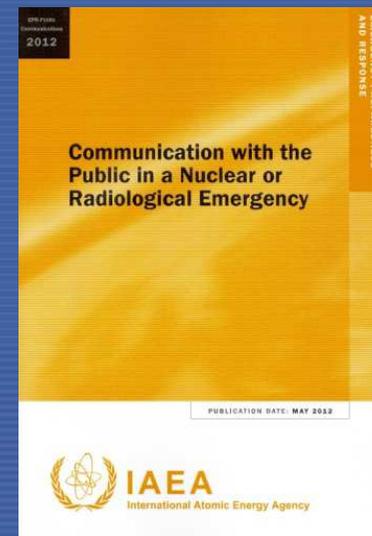
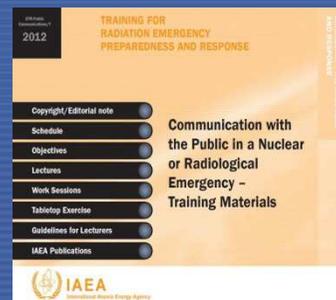
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Public Information Officers Toolkit



- Communication with the Public in a Nuclear or Radiological Emergency
 - EPR-Public Communications, 2012
 - CD with lectures, work sessions and exercise for 1-week course
 - Explanatory materials



Capacity Building in EPR

- Strategy: Train-the-Trainers approach
 - National follow-up courses encouraged
- Standardized training materials
 - Ensures compatibility of approaches
- New training tools
 - E-learning, portable digital tools
- Emphasis on practical aspects
 - Functionality, drills, exercises
- IAEA training materials in UN languages available for Member States' application



Activities Within Nuclear Safety Action Plan

- Review and strengthen IAEA Safety Standards and improve their implementation
- Strengthening Emergency Preparedness Review (EPREV)
- Strengthening international EPR framework
- Enhancing effectiveness of communication



Thank you !