

# IAEA Roles and Responsibilities in Nuclear or Radiological Emergency Preparedness and Response

IAEA's IEC – ILO Webinar  
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**IAEA**

International Atomic Energy Agency

# Basis for Secretariat's EPR

- IAEA's Statute
- Early Notification Convention
- Assistance Convention
- IAEA safety standards
- Relevant decisions of policy-making organs
- International agreements
- Best international practice



# Incident and Emergency Centre (IEC)



**IEC**  
Incident and  
Emergency Centre

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

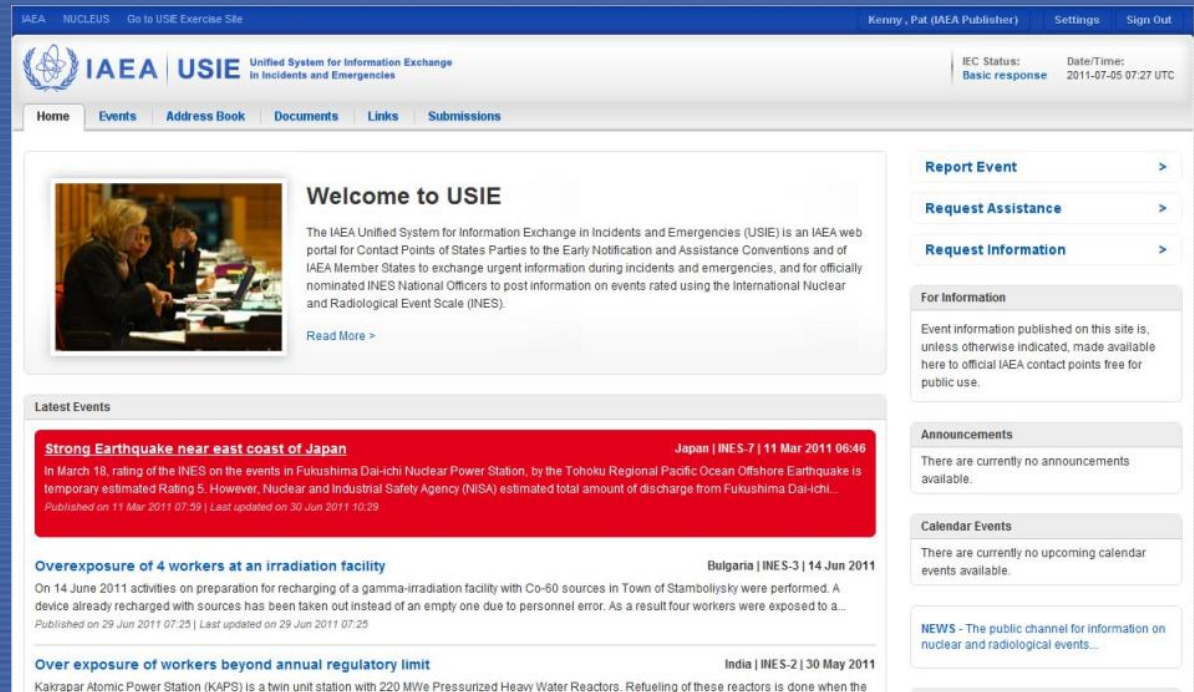


# Roles and Responsibilities in Response (1)

- 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

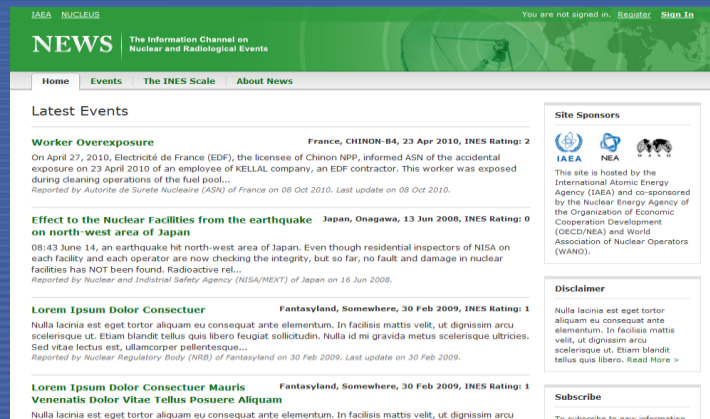
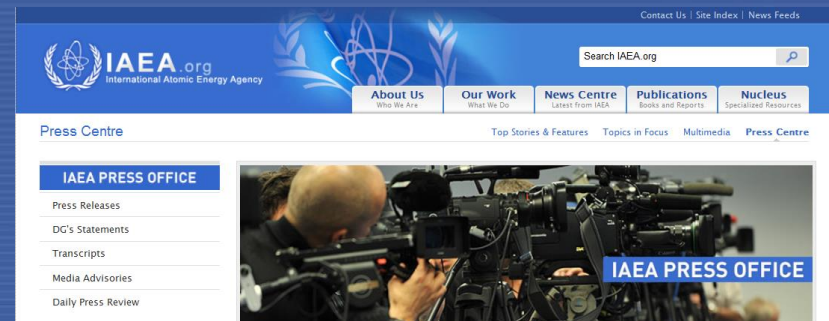
 INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1987



The screenshot shows the IAEA USIE (Unified System for Information Exchange in Incidents and Emergencies) website. The header includes the IAEA logo and the text "IAEA USIE Unified System for Information Exchange in Incidents and Emergencies". The user is logged in as "Kenny, Pat (IAEA Publisher)". The main content area features a "Welcome to USIE" message with a photo of people working at a computer. Below this is a "Latest Events" section with three entries: "Strong Earthquake near east coast of Japan" (Japan | INES-7 | 11 Mar 2011 06:46), "Overexposure of 4 workers at an irradiation facility" (Bulgaria | INES-3 | 14 Jun 2011), and "Over exposure of workers beyond annual regulatory limit" (India | INES-2 | 30 May 2011). The right sidebar contains navigation links for "Report Event", "Request Assistance", and "Request Information", along with sections for "For Information", "Announcements", "Calendar Events", and "NEWS".

# 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

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## 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.”

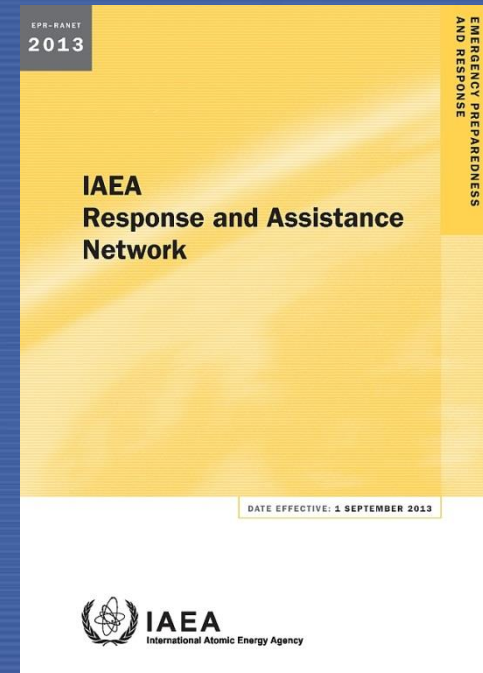
# Roles and Responsibilities in Response (4)

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

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28 Member States registered in RANET

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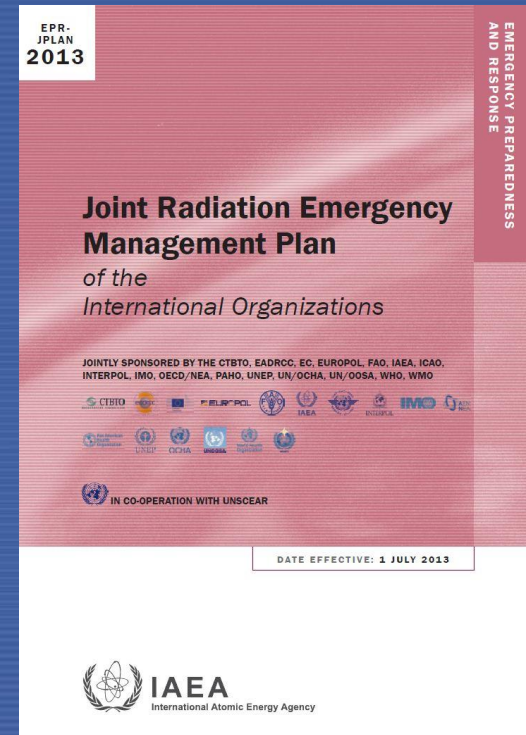
# Roles and Responsibilities in Response (5)

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

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

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# Examples of IEC Responses

## 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**



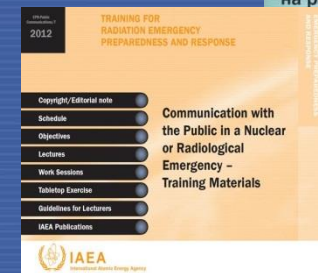
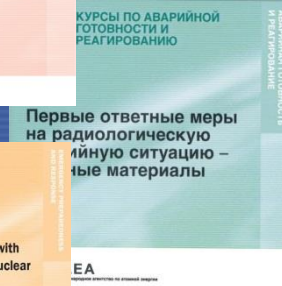
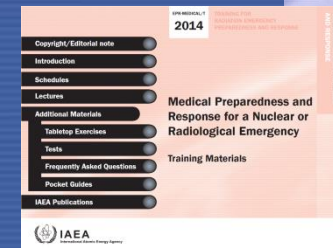
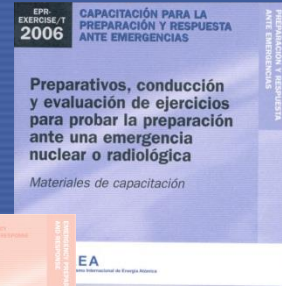
# Roles and Responsibilities in Preparedness

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



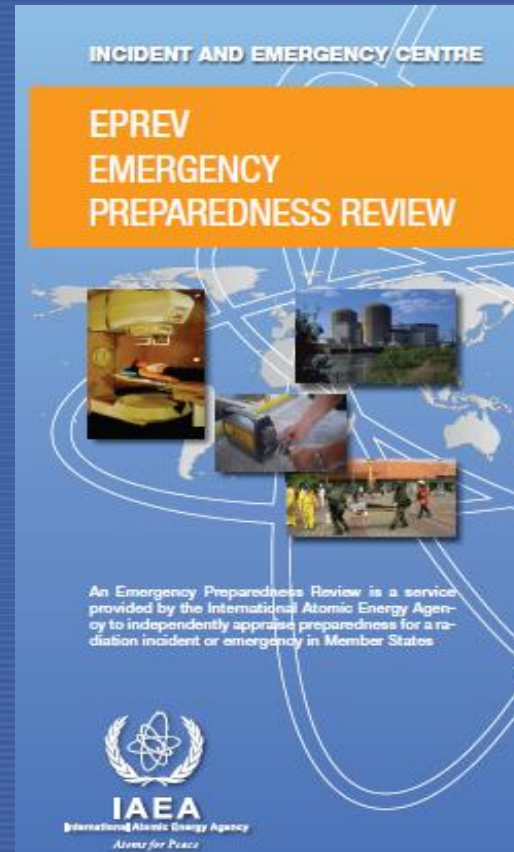
# Capacity Building in EPR

- 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



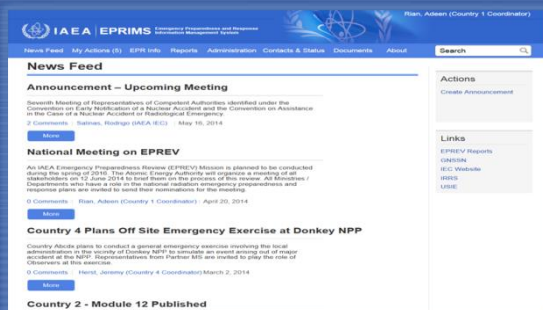
# Emergency Preparedness Review (EPREV)

- To independently appraise national capabilities in emergency preparedness and response
- Service since 1999
- Some 40 missions conducted

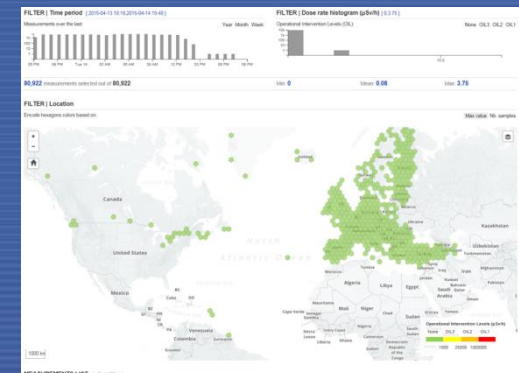


# IEC Information Source

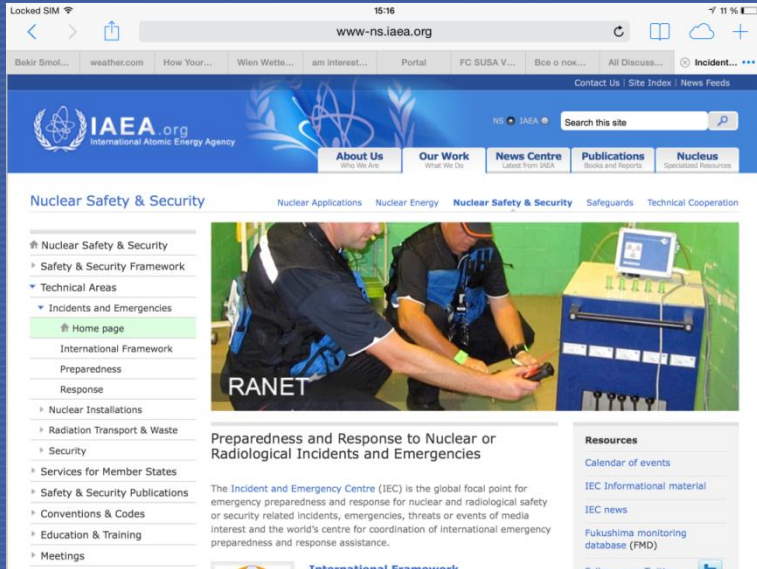
- **EPRIMS** (Emergency Preparedness and Response Information Management System): improve access and promote EPR information exchange
- **EPNET** (Emergency Preparedness Network): strengthen transparency and information exchange
- **IRMIS** (International Radiation Monitoring Information System): share routine and emergency monitoring data
- **USIE** (As referred on Slide 4)



The screenshot shows the IAEA EPRIMS website interface. The header includes the IAEA logo and navigation links like 'Home', 'My Actions (5)', 'EPR Info', 'Reports', 'Administration', 'Contacts & Status', 'Documents', and 'About'. A search bar is present. The main content area is titled 'News Feed' and lists several announcements, including 'Announcement - Upcoming Meeting', 'National Meeting on EPREV', and 'Country 4 Plans Off Site Emergency Exercise at Donkey NPP'. Each announcement includes a brief description and a 'More' link.



# Follow IEC-related news



On the website:  
[iec.iaea.org](http://iec.iaea.org)

On Twitter:  
[@iaeaiec](https://twitter.com/iaeaiec)



# Thank you!

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[iec-information@iaea.org](mailto:iec-information@iaea.org)  
[@IAEAIEC](https://twitter.com/IAEAIEC)