



**IAEA**

International Atomic Energy Agency  
*Atoms for Peace and Development*

# Webinar on Food Safety in a Nuclear or Radiological Emergency

23 October 2018

## **IAEA Role in Nuclear or Radiological Emergency Preparedness and Response**

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Emergency Preparedness Coordinator

IAEA's Incident and Emergency Centre

# Incident and Emergency Centre (IEC)

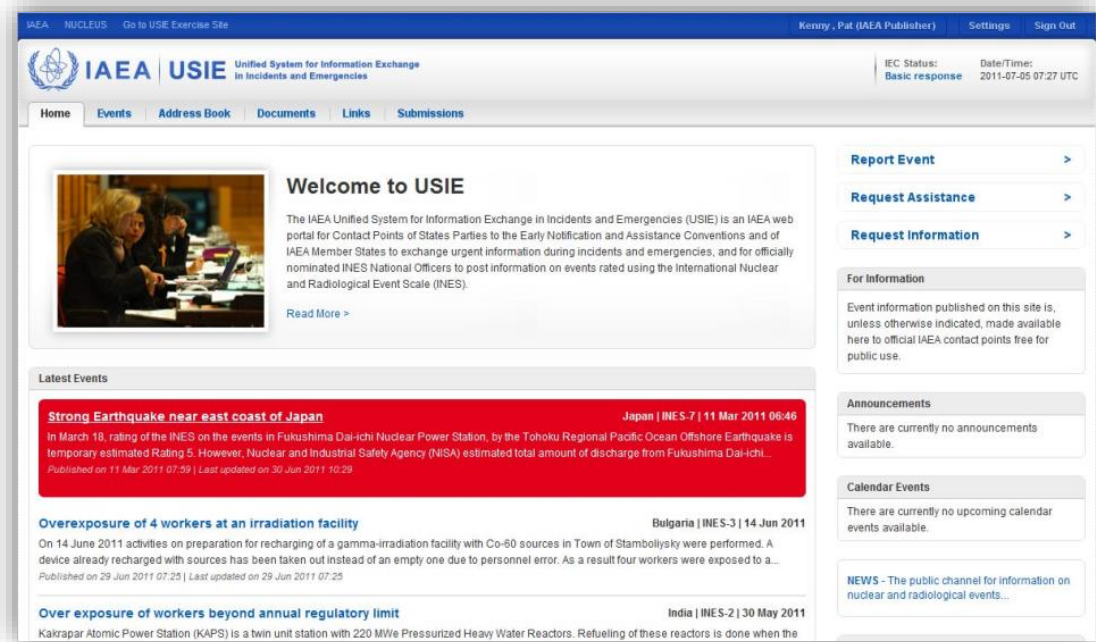
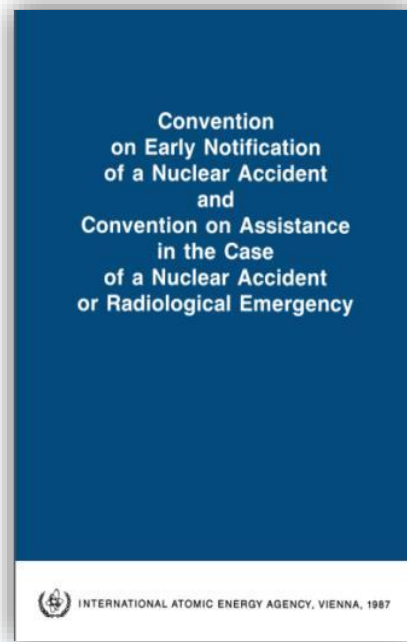
Global focal point for emergency preparedness and response for nuclear and radiological safety or security related emergencies, threats or events and world's centre for coordination of international emergency preparedness and response assistance



**IEC**  
Incident and  
Emergency Centre

# Roles and Responsibilities in Response (1)

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



IAEA NUCLEUS Go to USE Exercise Site Kenny, Pat (IAEA Publisher) Settings Sign Out

IEC Status: Basic response Date/Time: 2011-07-05 07:27 UTC

Home Events Address Book Documents Links Submissions

### Welcome to USIE

The IAEA Unified System for Information Exchange in Incidents and Emergencies (USIE) is an IAEA web portal for Contact Points of States Parties to the Early Notification and Assistance Conventions and of IAEA Member States to exchange urgent information during incidents and emergencies, and for officially nominated INES National Officers to post information on events rated using the International Nuclear and Radiological Event Scale (INES).

[Read More >](#)

#### Latest Events

**Strong Earthquake near east coast of Japan** Japan | INES-7 | 11 Mar 2011 06:46  
In March 18, rating of the INES on the events in Fukushima Dai-ichi Nuclear Power Station, by the Tohoku Regional Pacific Ocean Offshore Earthquake is temporary estimated Rating 5. However, Nuclear and Industrial Safety Agency (NISA) estimated total amount of discharge from Fukushima Dai-ichi...  
Published on 11 Mar 2011 07:59 | Last updated on 30 Jun 2011 10:29

**Overexposure of 4 workers at an irradiation facility** Bulgaria | INES-3 | 14 Jun 2011  
On 14 June 2011 activities on preparation for recharging of a gamma-irradiation facility with Co-60 sources in Town of Stambolysky were performed. A device already recharged with sources has been taken out instead of an empty one due to personnel error. As a result four workers were exposed to a...  
Published on 29 Jun 2011 07:25 | Last updated on 29 Jun 2011 07:25

**Over exposure of workers beyond annual regulatory limit** India | INES-2 | 30 May 2011  
Kakrapar Atomic Power Station (KAPS) is a twin unit station with 220 MWe Pressurized Heavy Water Reactors. Refueling of these reactors is done when the

**Report Event >**

**Request Assistance >**

**Request information >**

**For Information**

Event information published on this site is, unless otherwise indicated, made available here to official IAEA contact points free for public use.

**Announcements**

There are currently no announcements available.

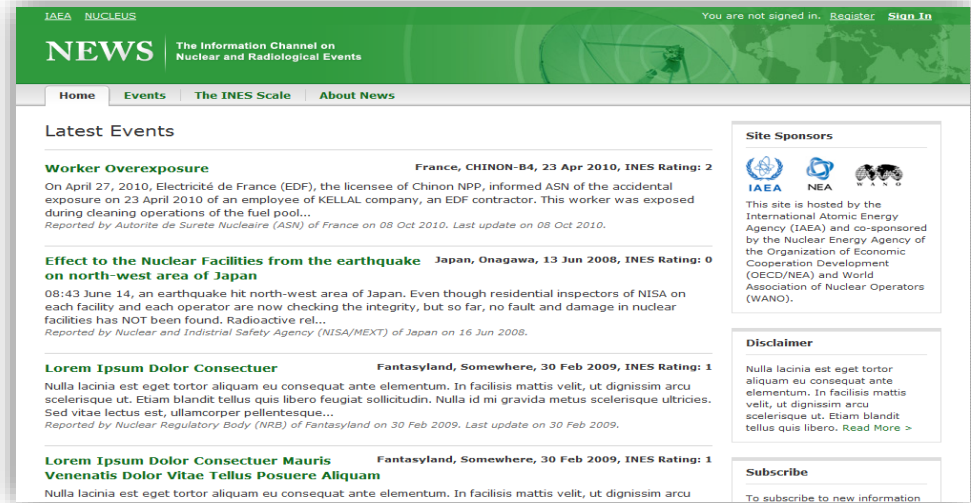
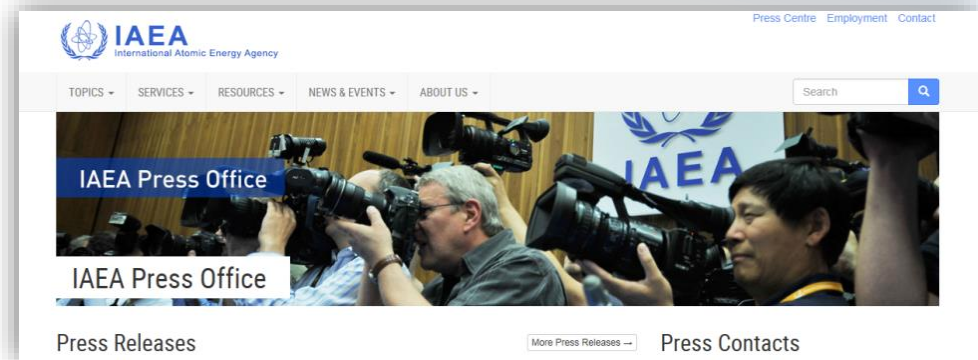
**Calendar Events**

There are currently no upcoming calendar events available.

**NEWS - The public channel for information on nuclear and radiological events...**

# 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

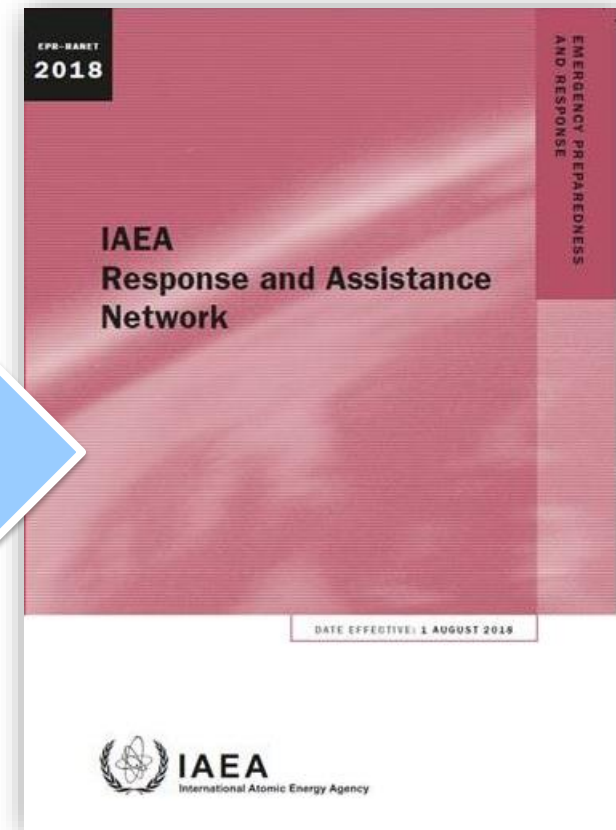
“Enhance transparency and effectiveness of communications and improve dissemination of information”

- The IAEA Secretariat to provide Member States, international organizations and the general public with **timely, clear, factually accurate, objective and easily understandable information** during a nuclear emergency on its **potential consequences, including analysis of available information and progression of possible scenarios** based on evidence, scientific knowledge and capabilities of Member States
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# Roles and Responsibilities in Response (4)

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

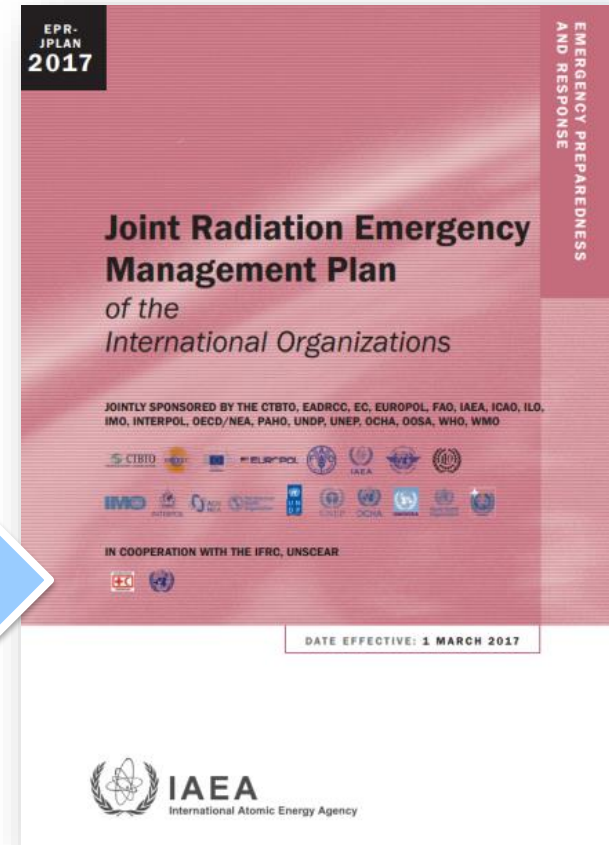
**33 Member States  
registered in RANET**



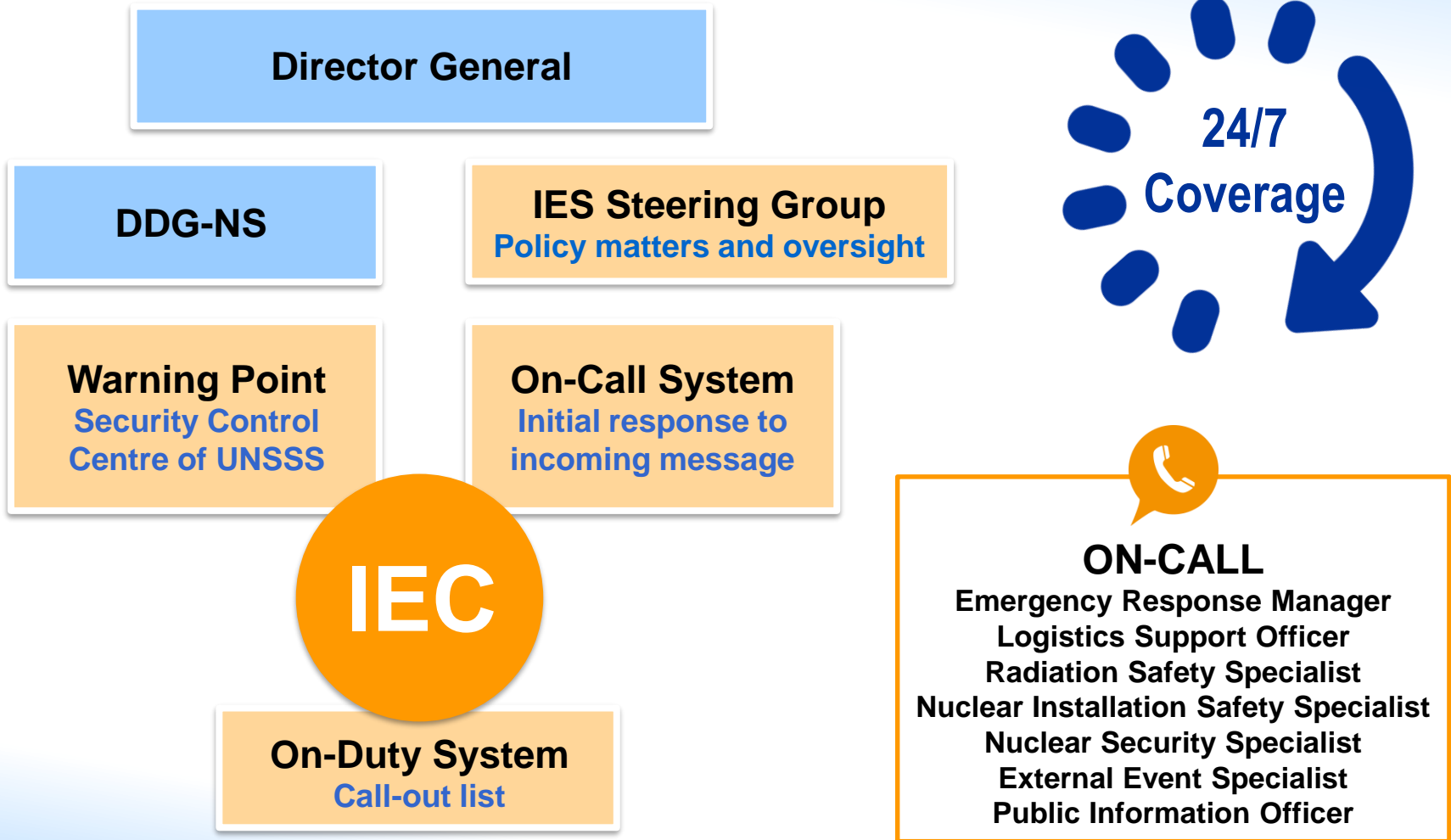
# Roles and Responsibilities in Response (5)

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

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



# Response Structure





# 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

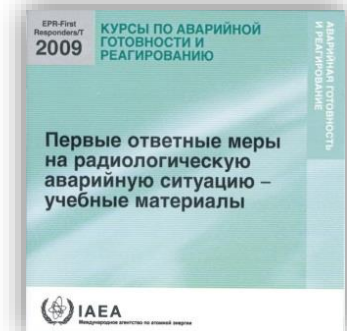
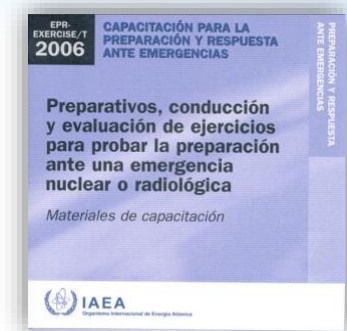
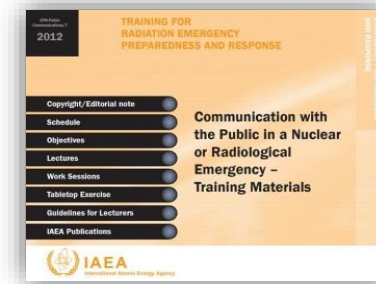
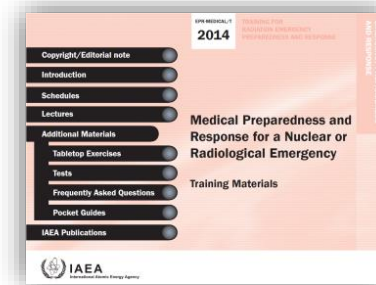
# Standards, Guidance and Tools

<p><b>IAEA Safety Standards</b> for protecting people and the environment</p> <p><b>Preparedness and Response for a Nuclear or Radiological Emergency</b></p> <p>Jointly sponsored by the FAO, IAEA, CAC, ILO, WHO, INTERPOL, OECD/NEA, WHO, CTBTO, UNITAR, UNCTAD, WHO, WFP</p>  <p><b>General Safety Requirements</b> No. GSR Part 7</p> 	<p><b>IAEA Safety Standards</b> for protecting people and the environment</p> <p><b>Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency</b></p> <p>Jointly sponsored by the FAO, IAEA, CAC, ILO, WHO</p>  <p><b>General Safety Guide</b> No. GSG-2</p> 	<p><b>IAEA Safety Standards</b> for protecting people and the environment</p> <p><b>Arrangements for Preparedness for a Nuclear or Radiological Emergency</b></p> <p>Jointly sponsored by the FAO, IAEA, CAC, ILO, WHO</p>  <p><b>Safety Guide</b> No. GS-G-2.1</p> 	<p><b>IAEA Safety Standards</b> for protecting people and the environment</p> <p><b>Arrangements for the Termination of a Nuclear or Radiological Emergency</b></p> <p>Jointly sponsored by the FAO, IAEA, CAC, ILO, WHO, INTERPOL, OECD/NEA, WHO, WFP</p>  <p><b>General Safety Guide</b> No. GSG-11</p> 
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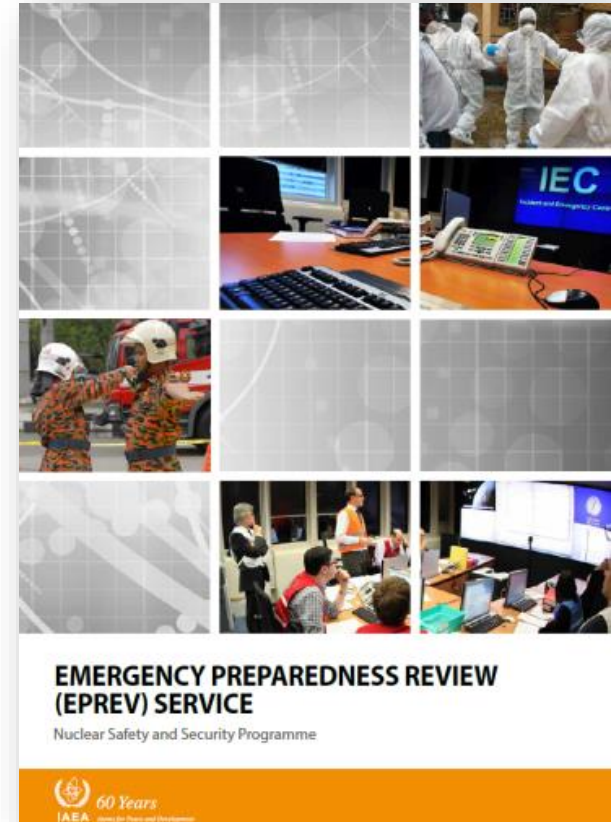
# Capacity Building in EPR

- 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



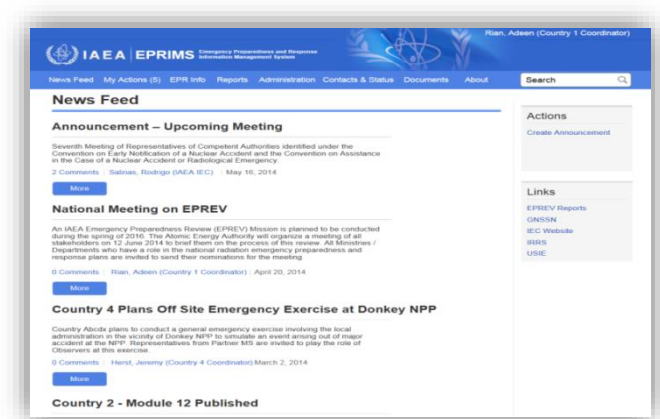
# Emergency Preparedness Review (EPREV)

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



# EPRIMS: Emergency Preparedness and Response Information Management System

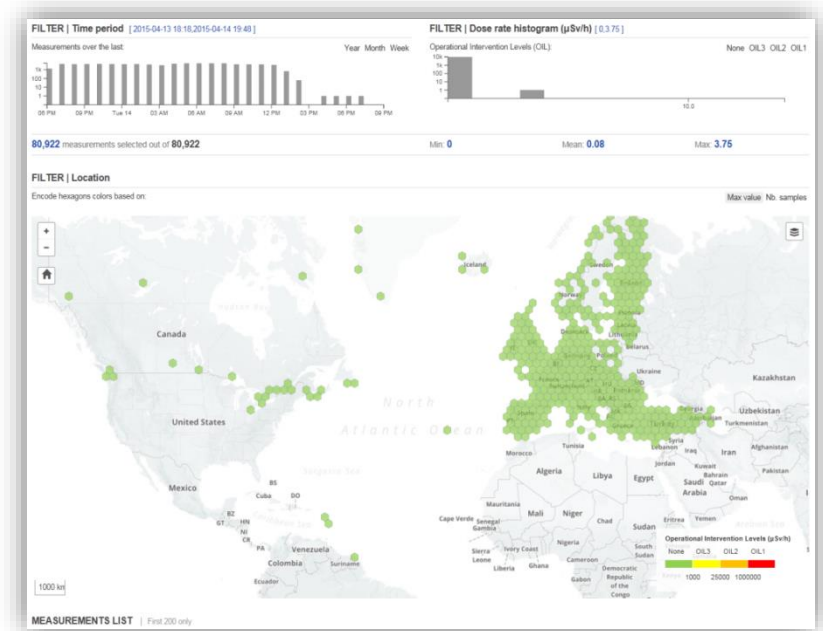
- Improve access to relevant EPR information during an emergency
  - Used by IAEA Incident and Emergency System
  - In line with Agency's extended role on assessment and prognosis
- Promote information exchange on national EPR arrangements in the preparedness stage



<https://iec.iaea.org/eprims/>

# IRMIS: International Radiation Monitoring Information System

- Emergency monitoring data sharing
- Share routine and emergency monitoring data
- Based on IAEA emergency information standard (IRIX)
  - same standard used in USIE
- Value, time, area filters
- For mobile and fixed monitoring stations



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





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*Thank you!*