



Enhanced Protection of People and the Environment from Ionizing Radiation – Future challenges



V. Sucha
Deputy Director General,
European Commission Joint Research Centre

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012

Competences within the EU



- *In the nuclear field, the state of play in EU is defined by the EURATOM treaty and related Directives.*
- *3 major of Directives*
 - **The Basic Safety Standard Directive (Workers/Public) 1996**
 - **Nuclear Safety Directive (2009)**
 - **Radioactive Waste and Spent Fuel Management Directive (2011)**

Protecting people and environment

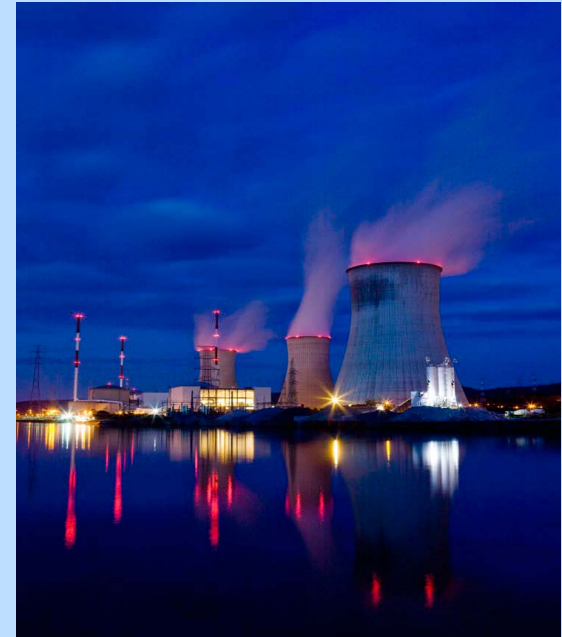


What is needed

- Prevention
- Monitoring / Emergency Preparedness
- Corrective Measures / Rehabilitation

How

- Legislation development and Implementation
- Harmonization
- Enhanced Cooperation



Research & Development -Human resources and training - Public Awareness

Fukushima put at test our capabilities at the EU level to act collectively and efficiently in case of nuclear emergencies.

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012



The EU Dedicated Environmental Radiological Monitoring Tools and Emergency Warning Systems

ECURIE

The **EC** network for Early Notification and **U**rgent
Information **E**xchange - better preparedness and
response to trans-boundary events

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012

The EU Dedicated Environmental Radiological Monitoring Tools and Emergency Warning Systems

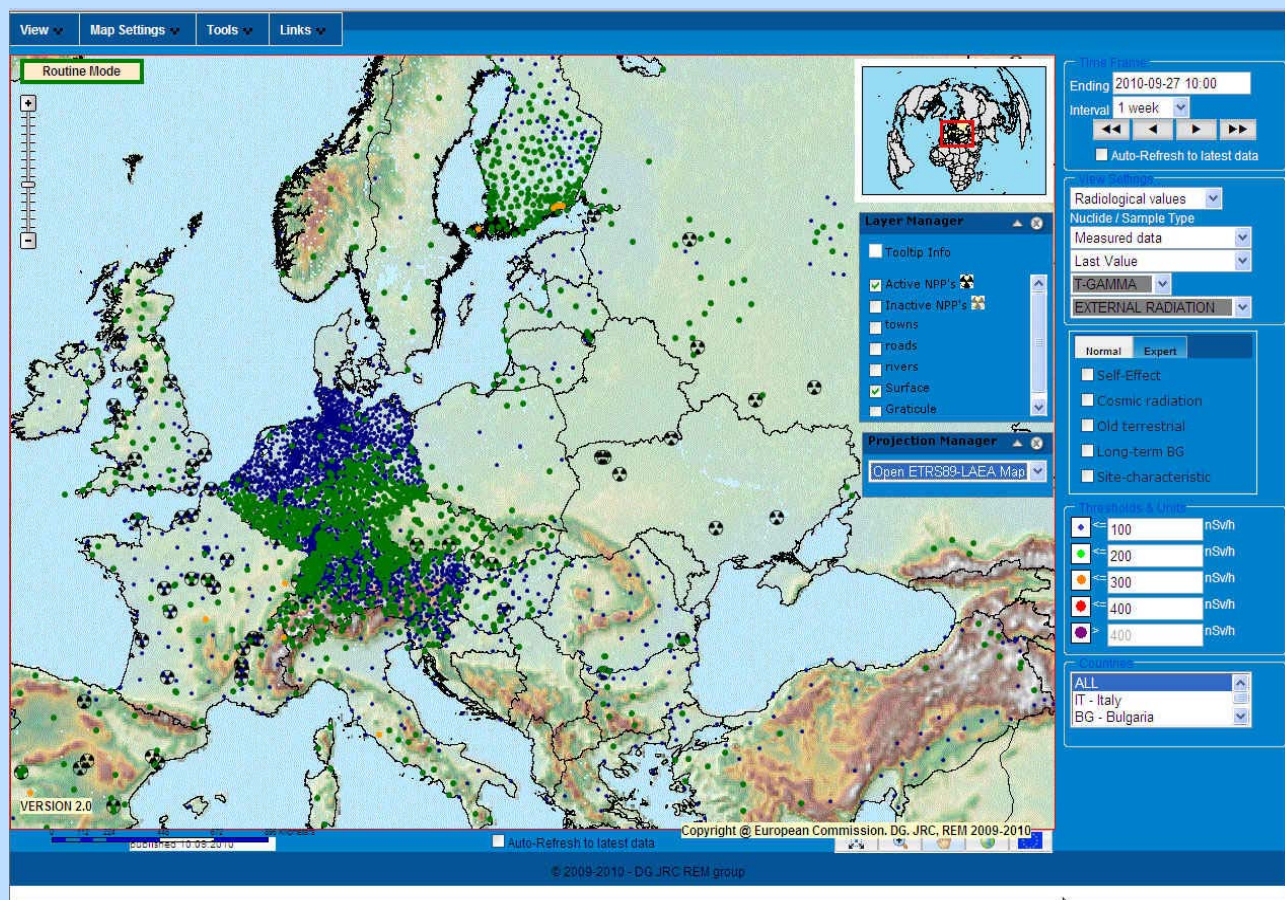
EURDEP

= a standard data format
for radiological data
monitoring

35 European countries,
> 4400 stations with
regular transmissions

<http://eurdep.jrc.ec.europa.eu>

EURDEP → IAEA for
monitoring at world-
wide level (IRMIS)



EU RESEARCH ON RADIATION PROTECTION



EU Framework Programme for Research supports bottom up projects
In the field of RP:

- ***Health Effects of Low Doses: MELODI*** platform of 15 involved EU research centres, included in Network of Excellence **DoReMi**
- ***Radio-ecology, rehabilitation affected areas:*** research on Europe's response to radiological emergency and rehabilitation (former EURANOS project), now included in European Network of Excellence **STAR** (STrategy for Allied Radioecology)
- ***EC Reference Centre for radioactivity measurements:*** under development at the Joint Research Centre for harmonizing and standardizing environmental (air, soil, water) and food measurements
- ***Reduction of medical exposures***

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012



Stress tests: Commission mandate

- **15 March 2011: High Level Conference**
- **24-25 March 2011: European Council:**
 - **comprehensive and transparent risk and safety assessments**
 - **similar stress tests should be carried out in the neighbouring countries and worldwide**
 - **revision of the legal and regulatory framework**



Nuclear Stress Test Results



- **High level of safety, no urgent decisions needed**
- **Best practice example**
- **Significant and tangible improvements identified implemented or planned**
- **Areas for further harmonization at EU level identified, including emergency preparedness**
- **Global EU Action Plan agreed in June 2012; National Action Plans to be developed by end of 2012**



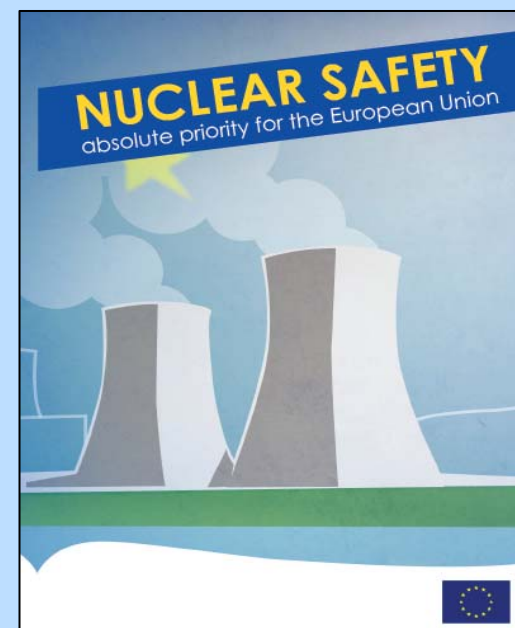
Commission final report adopted on October 4, 2012

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012

EU Action Plan



- **Peer review of national action plans at EU level: early 2013**
- **Commission Report on the progress will be prepared by summer 2014**



Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012

Looking forward



- **Implementation of stress tests recommendations: national responsibility**
- **EU institutions: decisions on common safety policy and legislative initiatives**
- **On-going process: promoting a comprehensive global safety approach in cooperation with national regulatory authorities and the IAEA**
- **Strong support for regional and trans-boundary emergency preparedness and response**
- **EU Action Plans are regional contribution to the IAEA Action Plan on Nuclear Safety**

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012



Thank you

Fukushima Ministerial Conference on Nuclear Safety , Koriyama City, 15-17/12/2012