

WENRA

Building European common approach to nuclear safety and interaction between WENRA and ENSREG

3rd GNSSN Steering Committee Meeting
Vienna, 5-6 December 2013
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WENRA

01 WENRA

Basic facts

- Association of the Heads of nuclear regulatory authorities of the EU countries with NPP and Switzerland
- Original Terms of Reference signed on 4 February 1999 (10 countries)
 - Revised on 14 March 2003 (17 countries)
 - Revised on 26 March 2010
- Independent club of regulators
- European center of competence for Nuclear Safety

www.wenra.org

01 WENRA

Policy statement

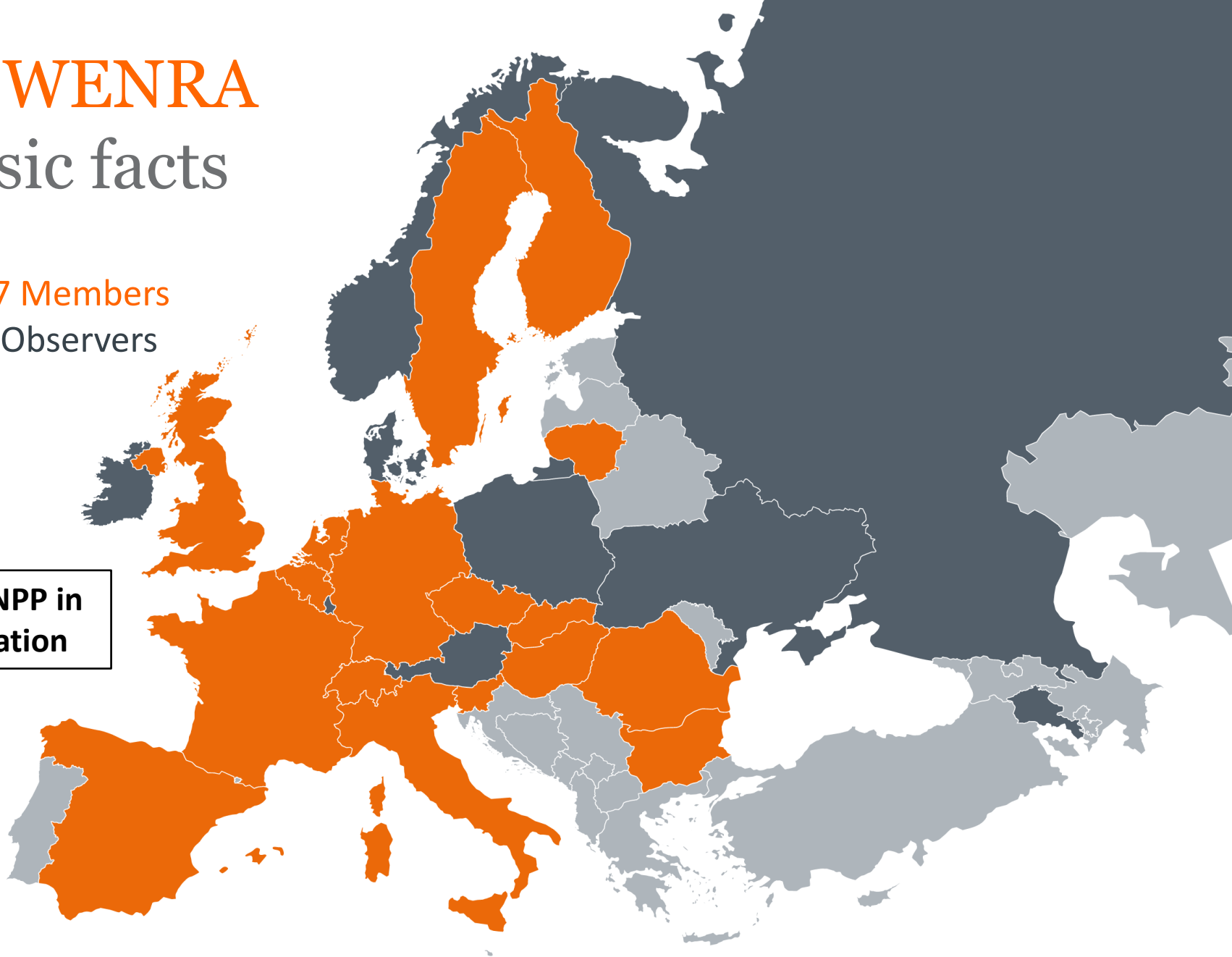
- “We the heads of the national Nuclear Safety Authorities, members of WENRA commit ourselves to continuous improvement of nuclear safety in our respective countries.”
- “Nuclear safety and radiation protection are based on the principle of the prime responsibility of the operators. The role of national regulators is to ensure that this responsibility is fully secured in compliance with the regulatory requirements.”
- “In order to work together, we created the Western European Nuclear Regulators’ Association (WENRA)” ...

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Basic facts

- 17 Members
- 9 Observers

137 NPP in operation



01 WENRA

Main Objectives

- To **develop a common approach** to selected nuclear safety and radiation protection issues and their regulation, in particular within the European Union
- To provide the European Union Institutes with an **independent capability** to examine nuclear safety and its regulation in applicant countries
- To **serve as a network** of chief nuclear safety regulators exchanging experience and discussing significant safety issues
- WENRA plenary meeting 2/yr

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Technical Working Groups

Two technical Working Groups have been established to **harmonize safety approaches** with the aim to continuously improve nuclear safety:

RHWG Reactor Harmonization Working Group

WGWD Working Group on Waste and Decommissioning

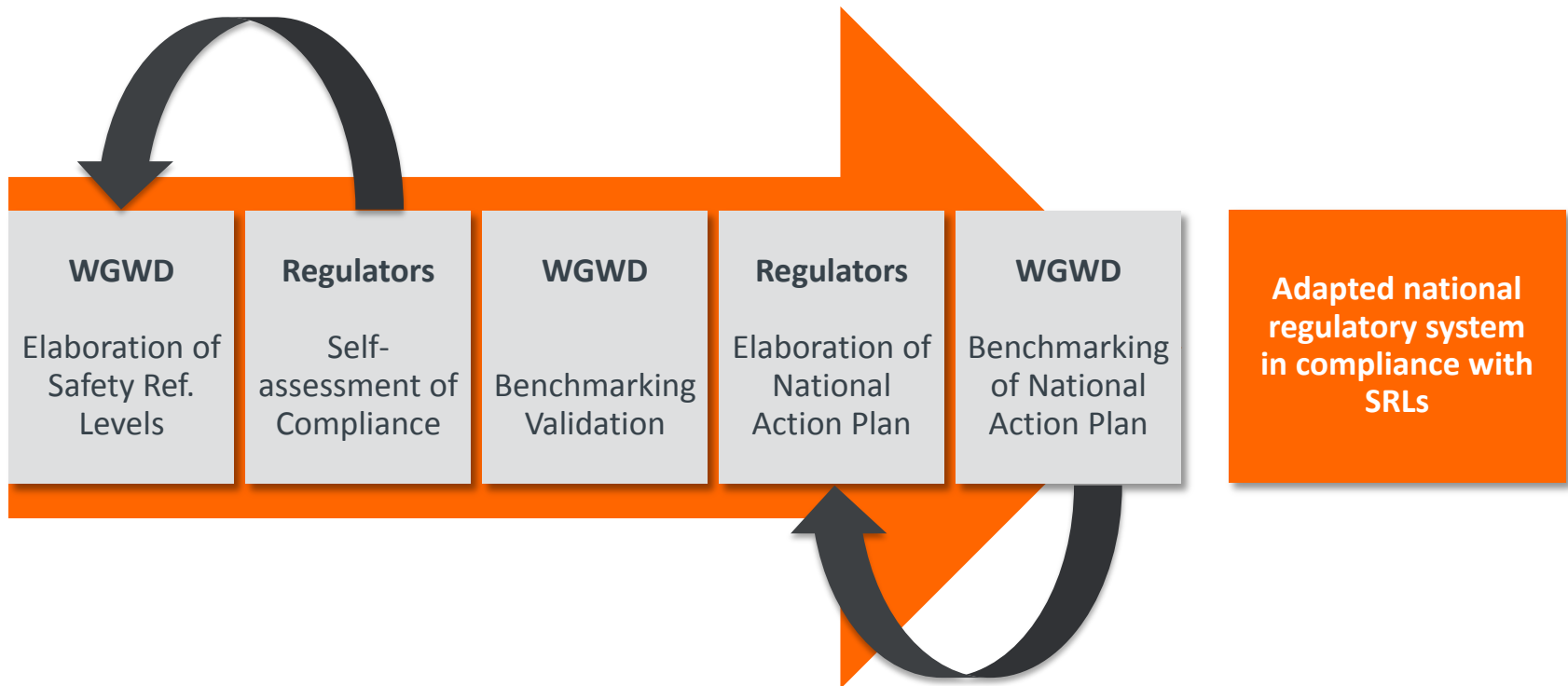
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Technical Working Groups, Methodology

1. Formulation of **Safety Reference Levels** (SRLs)
 - use of IAEA standards, best national practices
2. **Self-assessment** = national assessment of SRLs implementation
 - in legal system and in practice at NPPs
3. **Benchmarking** = common validation of national self-assessments
4. **Review of SRLs**
 - based on benchmarking experience and stakeholder comments
5. Development of **National Action Plans** for adaptation of legal requirements according to benchmarking results

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Harmonization process



02

WENRA Working Group on Waste and Decommissioning WGWD

02 WENRA WGWD

WGWD activities

Originally

Harmonization of requirements in the field of radioactive waste and spent fuel storage and decommissioning

2008

Reference Levels for radioactive waste disposal facilities

2013

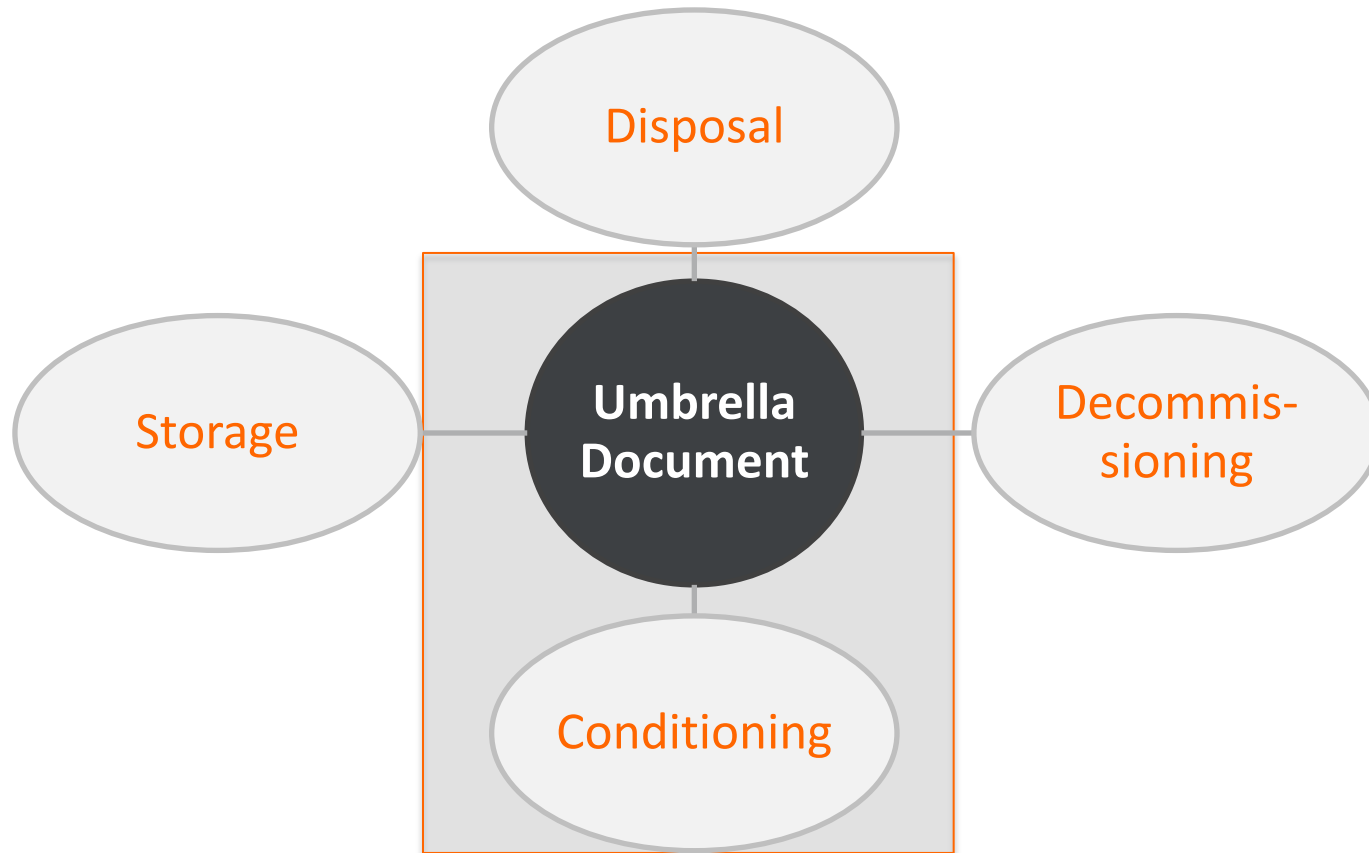
Program on implementation of RL on decommissioning, disposal and storage, umbrella document in drafting process

Members

Senior experts of regulatory bodies of all member countries, meetings approx. 2/yr and subgroups

02 WENRA WGWD

WGWD activities



03

WENRA Reactor Harmonization Working Group RHWG

03 WENRA RHWG

RHWG activities

Originally

- Harmonization of requirements in the field of reactor safety
 - Working on safety reference levels for existing reactors
 - Also safety expectations for new reactors

Members

- Senior experts from all WENRA countries
- Meetings 3/yr and subgroups

03 WENRA RHWG

RHWG activities, existing NPP

2003

Pilot study on Safety Reference Levels

2006

Report on Harmonization

2007/2008

Safety Reference Levels for existing NPP on 18 selected issues
(issues see last sheet)

2011

Report on progress to harmonization

2013

Review of SRLs in the light of Fukushima accident
=> for comments on WENRA web-page

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SRL updating process

- After Fukushima review of the SRLs with regard to the lessons learnt from the accident
- Establishment of ad-hoc Working Groups under consideration of ENSREG recommendations derived from stress test

Ad-hoc Working Groups (post Fukushima):

- Natural hazards
- Containment integrity
- Accident management
- Periodic safety review
- Mutual assistance

03 WENRA RHWG

RHWG activities, existing NPP

2011

Pilot study on Long Term Operation

2011

Task force on stress test specification

2012

Benchmarking of inspection practices

2013

Position paper on PSR

2013

Recommendation on flaw indications found in Belgian reactors

03 WENRA RHWG

RHWG activities, new NPP

2009

Safety Objectives for new NPP

2010

WENRA statement on Safety Objectives for new NPP

2013

Report on **Safety of new NPP**

04

WENRA – ENSREG interaction

04 WENRA – ENSREG interaction



Founded 2007

Founded 1999

Senior officials from the national regulatory authorities

Senior officials from the national regulatory authorities

27 EU countries + Observer (Commission, Council, Switzerland, Norway and IAEA)

16 EU countries with NPP and Switzerland + Observer (AM, AT, DK, IE, LU, NO, PL, RU, UA)

High-level group at EC level

Voluntary and independent club

Strives for continuous improvement of RS

Strives for harmonization on high level

Advises/Reports to EU Commission

Self-commitment, reports to the public

Formulating directives for nuclear safety

Working on the technical content

In principle:

Setting **directives** and perform actions on EU level

Setting harmonized **technical standards**

04 WENRA – ENSREG interaction

Example Stress test

11-3-2011 Fukushima accident

15-3-2011 Meeting with Commissioner Oettinger

25-3-2011 European Council requires stress test

5-4-2011 **WENRA** task force defines stress test specification

13-5-2011 **ENSREG** and Commission agreed in stress test declaration

1-6-2011 Start stress test

31-12-2011 Final national reports followed by peer reviews

18-3-2012 **WENRA** establishes ad-hoc WGs based on stress test insights

26-4-2012 **ENSREG** summary report

13-11-2013 **WENRA** update of Safety Reference Levels

05

Conclusions

05 Conclusions

- WENRA and ENSREG are networking on a European level
- Both are pillars of nuclear safety in Europe
- Striving for harmonization and improvement of nuclear safety
- Stress test and update of Safety Reference Level as example for networking within EU

Thank you

WENRA

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WENRA SRL

RHWG Issues

A	Safety Policy
B	Operating Organization
C	Management System
D	Training and Authorization of NPP staff
E	Design Basis Envelope for Existing Reactors
F	Design Extension of Existing Reactors
G	Safety Classification of Structures, Systems and Components
H	Operational Limits and Conditions
I	Ageing Management
J	System for Investigation of Events and Operational Experience Feedback
K	Maintenance, In-service inspection and Functional Testing
LM	Emergency Operating Procedures and Severe Accident Management Guidelines
N	Contents and updating of Safety Analysis Report
O	Probabilistic Safety Analysis
P	Periodic Safety Reviews
Q	Plant Modifications
R	On-site Emergency Preparedness
S	Protection against Internal Fires
T	Natural hazards (new issue after Fukushima)