



IAEA

International Atomic Energy Agency

IAEA Ministerial Conference

Nuclear Safety & Reliability through International Cooperation

global leadership in **nuclear safety**



WANO

WORLD ASSOCIATION OF NUCLEAR OPERATORS

Jacques Regaldo, Chairman of WANO

IAEA, St-Petersburg 28 June 2013



To maximise the safety and reliability of nuclear power plants worldwide by working together to assess, benchmark and improve performance through mutual support, exchange of information, and emulation of best practices.



WANO mission

WANO Programmes

WANO's activities are concentrated in four main programmes:

1. Peer Reviews
2. Operating Experience
3. Professional and Technical Development
4. Technical Support and Exchange

The programmes work together to drive continuous performance improvement



Peer Review Programme

Peer Reviews help members compare their operational performance against standards of excellence through an in-depth, objective review of their operations by an independent team from outside their organisation.

- Pre-Startup Peer Reviews

WANO is tasked with providing all new units with a pre-startup review before initial criticality.

- Corporate Peer Reviews

WANO carries out corporate peer reviews to examine how decisions made at a member's headquarters affect nuclear safety across the company and how the corporate office supports the stations.

- Follow-up Peer Reviews

Follow-up reviews examine the implementation of the areas for improvement identified during peer reviews.

- Japan : Long term shut-down & restart Peer Reviews

WANO evolution after Fukushima

Scope expansion

Design:

Continuous Design Improvement Process

Emergency Preparedness

Spent Fuel Storage

New Entrants:

Ability to monitor the licensing process, ...

The nuclear landscape :

441 NPPs under operation worldwide

> 60 NPPs under construction

In > 30 countries

Hundreds more proposed

→ Importance of WANO's role

→ Pre start-up office in Hong-Kong

New Entrants & new projects:

New plants :

China, India, Korea, Japan, Russia, Ukraine, ...

New companies :

China, India, ...

New countries :

UAE, Jordan, Belarus, Poland, Vietnam, Saudi Arabia, Turkey...

A stronger commitment to Safety to recover the Trust !

International Cooperation

IAEA, WANO, INPO, NEA ...

Open mind to learn from each other



High level of Safety

Organisations dealing with Nuclear Safety

IAEA 1957

OECD / NEA 1957

INPO 1979

WANO « 1 » 1989

JANTI 2006

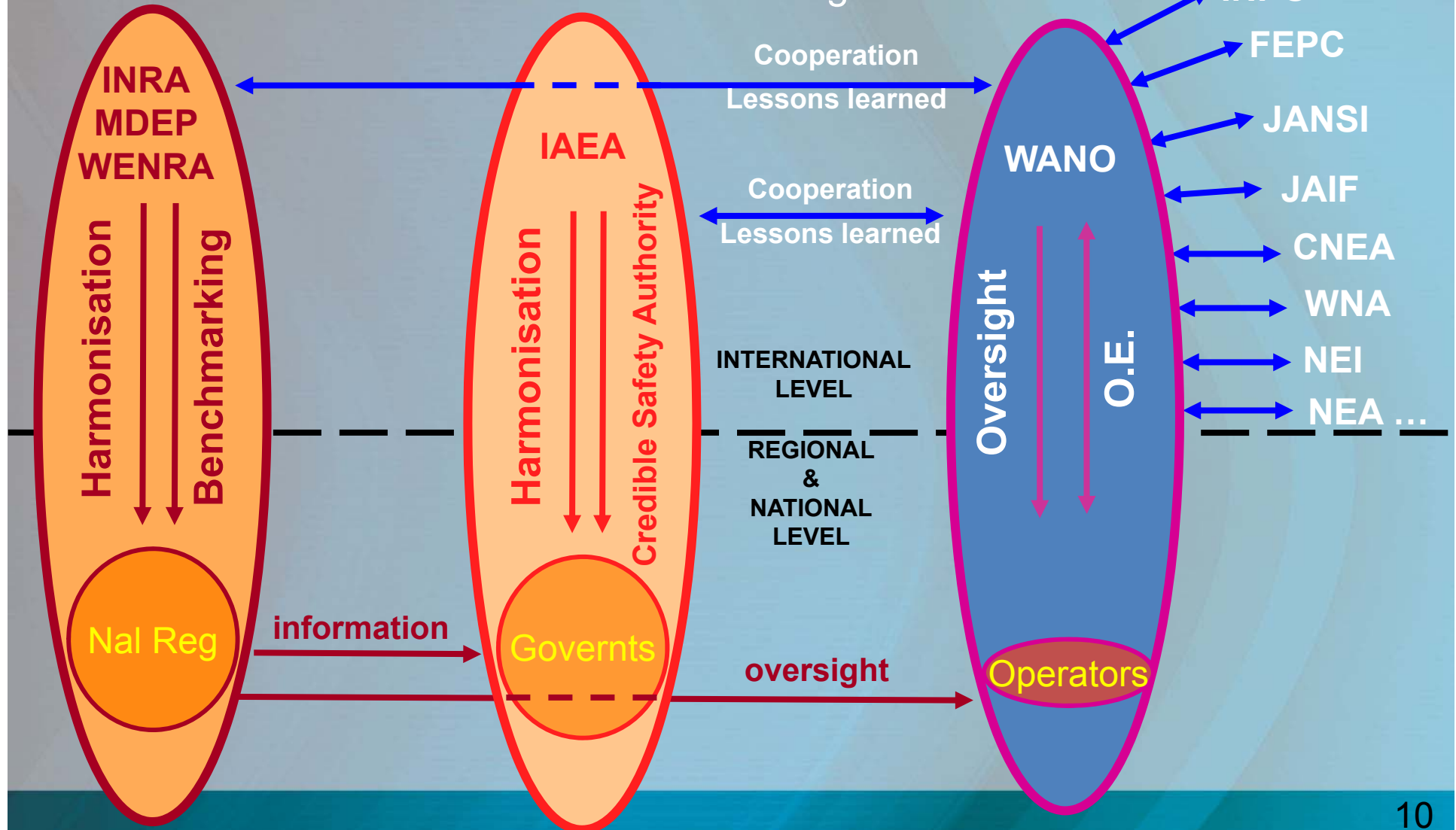
WANO « 2 » 2010 BGM

WANO « 3 » 2011 after Fukushima

JANSI 2013 after Fukushima

International Safety Organisations

Coordination with IAEA and other organisations



A stronger commitment to Safety to recover the Trust !

Nuclear acceptance shaken by Fukushima

Credibility of Regulators :

Independence

Credibility of Operators :

Skills, Transparency & Financial capacity



High level of Safety

Cultural barriers to Nuclear Safety

“... It was a disaster “made in Japan”, its fundamental causes can be found in the ingrained conventions of Japanese culture ...

- Reflexive obedience
- Reluctance to question authority
- Devotion to sticking with the program”

Kiyoshi Kurokawa

Chairman

of the DIET Independent Investigation Commission



TEPCO CPR including safety culture aspects to be carried out in autumn 2013

Cultural barriers to Nuclear Safety

Based on the lessons learned from the accident, to enhance the nuclear safety so that a similar accident never happen again:

- It is necessary for operators themselves to engage in continuing measures to improve safety, and to engage in an untiring pursuit of the world's highest levels of safety with questioning attitudes.
- Safety improvement must not become a self-centered, self-satisfied activity of the operator alone. Rather, it requires constant evaluation from different perspectives.

Mr Yagi - FEPC
during the 2013 WANO BGM

We all rely on each other to improve safety !



Thank you

W A N O

<http://www.wano.info>