

IRSN

INSTITUT
DE RADIOPROTECTION
ET DE SÛRETÉ NUCLÉAIRE

Faire avancer la sûreté nucléaire

Create efficient means for technical understanding between regulatory and implementing functions

*Expression of Interest
related to Topic:
Fission-2011-1.1.2*

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Système de management
de la qualité IRSN certifié

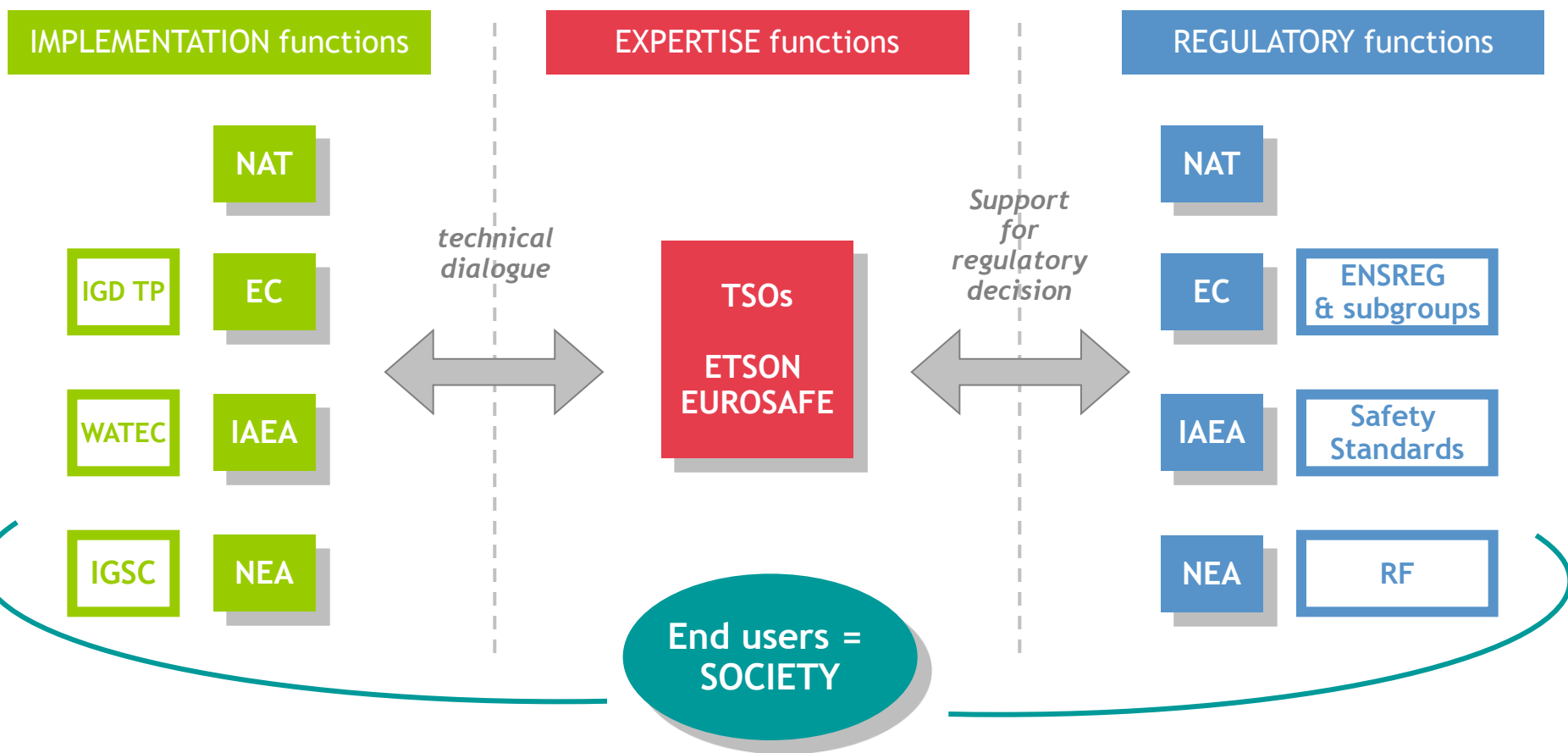
Context

■ Topic: Fission-2011-1.1.2: Support for regulatory functions in the area of geological disposal - coordinating action limited to regulatory authorities and/or duly appointed TSOs

- *action should address the specific needs of regulatory authorities, such as how to assimilate results from [latest] research, harmonisation of applicable criteria and guidance...*
- *how regulators can interact in a more structured way with implementers in order to better define regulatory requirements*
- *means of facilitating a more efficient interaction with IGD-TP the platform's activities and at the same time maintaining regulatory independence from the platform's principal vision*
- ...

Stakeholders cartography

How to create understanding and enhance level of Safety



Objectives (IRSN proposal)

OVERALL OBJECTIVE

- Create efficient means for technical understanding between regulatory and implementing functions so as to harmonise application of the future European directive on waste safety and achieve a high level of safety

Conditions for achievement : create and develop expertise function within Europe

- Establish a coordinated european (and possibly international) workforce ensuring a sustainable capability to provide a technical and independant expertise in the field of waste management safety and radiological protection
- Safety being science based, establish independent research programmes, in the field of geological disposal and, where needed, more globally on waste management,
- Ensure competence building and transfer of knowledge on waste safety and RP

Expected outcomes

- Establish a coordinated european (and possibly international) workforce ensuring a sustainable capability to provide a technical and independant expertise in the field of waste management safety and radiological protection
 - develop the network based on TSOs (ETSON) and bodies that include expertise function in their mission or research in support of expertise
 - identify the areas where technical guidance (safety principles and technical dispositions to manage hazards) is needed in priority and the ways and manpower to develop these guidances in due time and articulate these developments with other initiatives (international) to optimise resources and achieve harmonisation; this action requires interaction between TSOs, NSA, WMOs and other stakeholders (NGOs in particular)
 - define the TOR for the functioning of this network WRT former objectives and to its global role in expertise function (support to EC, to national regulators, interactions with regulatory forums, relation with other stakeholders...)

Expected outcomes

TSO ACTIVITIES

Safety being science based, research programmes, in the field of geological disposal and, where needed, more globally on waste management,

Builders and operators ACTIVITIES

SYSTEMS DEVELOPMENT, TECHNOLOGIES DEVELOPMENT,

SAFETY DEMONSTRATION, SPECIFIC SAFETY RESEARCH

BASIC RESEARCH, ACCIDENT PHENOMENOLOGY REPRESENTATION, METHODOLOGIES FOR SAFETY

SAFETY EXPERTISE, SAFETY ASSESSMENT METHODOLOGIES, SPECIFIC SAFETY RESEARCH

Independence

- The from EC
- define the TOR of
- with/ and support
- former objectives

Expected outcomes

■ Ensure competence building and transfer of knowledge on waste safety and RP

- propose a plan for the development of harmonised methods for reviewing the safety case (how to evaluate that the various hazards are sufficiently and correctly handled and that regulatory expectations are met?)
- propose a plan for developing training related to these methods, developing skills necessary for technical review of the safety case
- evaluate the ways and manpower to harmonise methods and developing training (in connection with ENSTTI)

Preparation of the proposal

Interested organisations

France	IRSN	Institut de Radoiprotection et de Sûreté Nucléaire	TSO/ETSON
Belgium	BELV	BELV	TSO/ETSON
Lithuania	LEI	Lietuvos Energtikos Institutas	TSO/ETSON
Czech Republic	UJV	Ústav Jaderného Výzkumu Řež (Nuclear Research Institute Rez NRI)	TSO/ETSON
Finland	VTT	VTT Technical Research Centre of Finland	TSO/ETSON
Slovaquia	VUJE/DECOM	Nuclear Power Plant Research Institute/DECOM	TSO/ETSON
Japan	JNES	Nuclear Energy Safety Organization	TSO
France	ASN	Autorité de sûreté nucléaire	Regulatory
Finland	STUK	Radiation and Nuclear Safety Authority Finland	Regulatory
Sweden	SSM	Swedish Radiation Safety Authority	Regulatory
Belgium	AFCN	Agence Fédérale de Contrôle Nucléaire	Regulatory
United Kingdom	EA	Environmental Agency	Regulatory
Canada	CNSC-CCSN	Commission canadienne de sûreté nucléaire	Regulatory
United States	EPA	Environmental Protection Agency	Regulatory
	ENSTTI	European Nuclear Safety Training Tutoring Institute	

Preparation of the proposal

- Part B under preparation in coordination with AFCN
- Tasks under development related to:
 - Identification of the needs for harmonized technical guidance (safety principles and technical dispositions to manage hazards) - dialogue with authorities/regulatory bodies
 - Harmonisation of a technical review process of the safety case (expertise function) and identification of related needs in :
 - Specific R&D activities in order to maintain and develop technical skills of the reviewer; dialogue with IGD-TP and EC...
 - Ensuring transfer of competencies and development of scientific and technical capacities; dialogue with ENSTTI, IAEA...
 - How to practically interact with other groups: dialogue with already well established groups (EPG, NEA/RWMC, IAEA/SSR, GEOSAF) as well as with the public

Preparation of the proposal

Planning

- 28 January : draft proposal to partners (delayed)
- 21 February : comments from partners and decision
- March: meeting
- 7 April: deadline for submission