



ALLIANCE Webinar:
**Assessing impact of production, use
and disposal of radiopharmaceuticals
on members of public and the
environment**

2nd June 2022 – 9:30-16:30 CET

Organisers:

Laura Urso & Philipp Hartmann, Federal Office for Radiation Protection (BfS), Germany
Almudena Real, Spanish Research Center for Energy, Environment and Technology (CIEMAT), Spain
Jordi Vives i Batlle, Belgian Nuclear Research Center (SCK-CEN), Belgium



Introduction

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<http://www.er-alliance.eu>

<https://radioecology-exchange.org/>

What is radioecology?

“Radioecology is a highly multidisciplinary scientific discipline situated at the crossroads between environmental radioactivity, whether natural or man-made, and its consequences on both, human and the environment. It deals with radioactivity as a stressor requiring risk assessment, but also as a tracer of biogeochemical and ecological processes.”

From <https://www.iur-uir.org/en/radioecologie>

Objectives of the European Radioecology ALLIANCE

- Coordinate and promote research in Radioecology since 2009
- Act as a Research Platform:
 - Definition of Priorities
 - Definition of Research Programmes and Resources
 - Assessment of the results obtained
 - Promotion and Communication
- Make its information public
- Act as partner in the EJP-CONCERT (Horizon 2020) and PIANOFORTE (Horizon-Europe)



A Major Tool: the Strategic Research Agenda (SRA)

- Within the objectives of the ALLIANCE:
 - Develop a **long term vision** on the needs and implementation of Radioecology (decades)
 - **Sustainable** after FP7 projects
- Adequate **processes** for defining long term needs and short term priorities are vital
- An adequate **SRA is an important tool**
 - Not: as extensive as possible
 - Better: as **relevant** as possible
 - Usefulness for science and society
 - Shared by stakeholders and researchers
 - Realistic from an operational and scientific point of view

SRA: 3 Challenges for Radioecology

1. Predict human and wildlife exposure in a robust way by quantifying key processes that influence radionuclide transfers and exposure
2. Determine ecological consequences under realistic exposure conditions
3. Improve human and environmental protection by integrating radioecology

<https://radioecology-exchange.org/content/strategic-research-agenda>

How is the ALLIANCE organised?

- **Board of Directors**

Consists of a minimum of eight members appointed by the General Assembly, including at least fifty percent of members drawn from the Founding Members.

- **Bureau** (Chosen by the Board of directors; elected for 3 years):

- a president;
- a vice president;
- a secretary;
- a treasurer.



Hildegard Vandenhove
President
SCK-CEN (Belgium)



Nick Bereford
Vice-President
CEH (UK)



Almudena Real
Secretary
CIEMAT (Spain)



Rodolphe Gilbin
Treasurer
IRSN (France)

- **General Assemblies** (on an annual basis)

One representative of each legal entity Member (one vote).

Interaction with Others?

- The Radioecology ALLIANCE is only one of the six European Platforms in the domain of radiation protection
- Active cooperation with:
 - The International Commission on Radiological Protection (ICRP): Liason organization
 - The International Union of Radioecology (IUR): MoU.
 - EC-EURATOM funded projects: RadoNorm (2020-2025); PIANOFORTE (2022-2027)
 - The other European Platforms (MELODI, EURADOS, EURAMED, NERIS and SHARE): **MEENAS Consortium**



How to Join the ALLIANCE?

- The ALLIANCE warmly **welcomes new members**
 - Priority for European organisations active in domain of radioecology
 - But open to interested parties from other countries
- More information (statutes, application letter, latest news):
 - www.er-alliance.org
 - Application to: application@er-alliance.org
- Decision: via General Assembly of the ALLIANCE
- Modest Membership fee: 1.000 €/annum (2022)

- The **European Radioecology ALLIANCE** has been created to **develop a vision on research needs** for a longer term in radioecology and to **foster cooperation**.
- An **SRA and associated processes** for updating are **vital** to maintain **visibility** of radioecology and to **get sufficient priority** in scientific programming.
- The ALLIANCE is **open to new members**.

<http://www.er-alliance.eu>

<https://radioecology-exchange.org/>

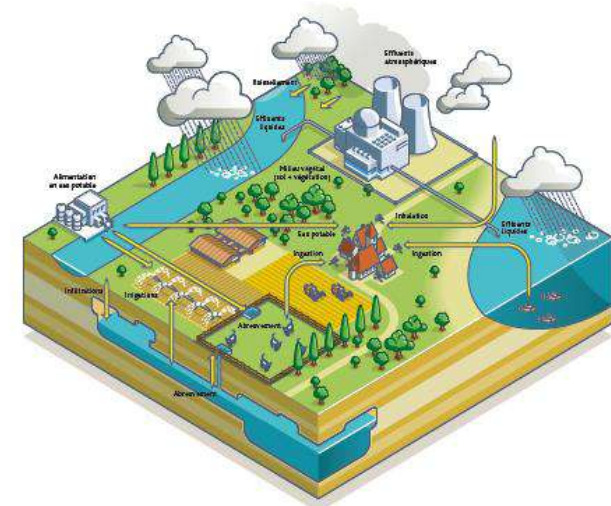


Let's start the webinar!

Strategic Vision for Challenge 1

Predict human and wildlife exposure in a robust way by quantifying key processes that influence radionuclide transfers and exposure

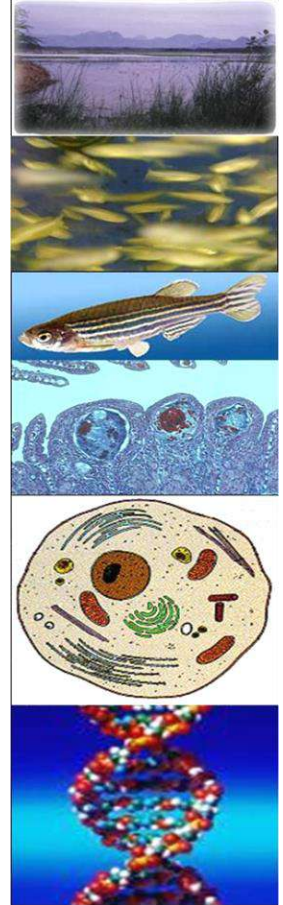
Our strategic vision is that over the next 20 years radioecology will have achieved a thorough mechanistic conceptualisation of radionuclide transfer processes within major ecosystems (terrestrial, aquatic, urban), and be able to accurately predict exposure to humans and wildlife by incorporating a more profound understanding of environmental processes.



Strategic Vision for Challenge 2

Determine ecological consequences under realistic exposure conditions

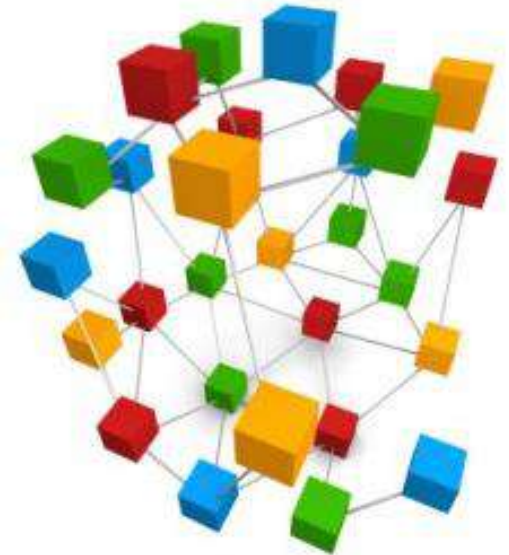
Our strategic vision is that over the next 20 years radioecology will have gained a thorough mechanistic understanding of the processes inducing radiation effects at different levels of biological organisation, including the consequences on ecosystem integrity, and be able to accurately predict effects under realistic conditions.



Strategic Vision for Challenge 3

Improve human and environmental protection by integrating radioecology

Our strategic vision is that over the next 20 years radioecology will develop the scientific foundation for the holistic integration of human and environmental protection, as well as their associated management systems.



The MEENAS Consortium

Collaborate in order to

- promote the integration and the efficiency of European R&D in radiation protection to better protect humans and environment;
- advance scientific excellence;
- develop and implement the joint R&D roadmap;
- maintain and develop European research capacity;
- encourage scientific education and training and foster key research infrastructures in the field of radiation protection;
- foster collaboration with sister organisations and networks by open interaction with the wider research community and stakeholders.



- The European Radioecology Alliance Association, the "ALLIANCE". Founded in 2009
 - Why an ALLIANCE?
 - Objectives
 - Membership
- Strategic Research Agenda
- Interaction with other associations
- Participation in EC funded projects
- Conclusions

REPUBLICQUE FRANÇAISE
LIBERTÉ • ÉGALITÉ • FRATERNITÉ
PREFET DES HAUTS DE SEINE

SOUS-PREFECTURE D'ANTONY
Bureau du Cabinet et Police administrative
Associations
98, avenue du Général De Gaulle
92100 ANTONY
Tel: 01 56 45 38 11

Le numéro W921002908
est à rappeler dans toute
correspondance.

Récépissé de Déclaration de CREATION
de l'association n° W921002908

Vu la loi du 1er Juillet 1901 relative au contrat d'association ;
Vu le décret du 16 Août 1901 portant règlement d'administration publique pour l'exécution de la loi précitée ;

LE SOUS-PREFET D'ANTONY

donne récépissé à Monsieur le Trésorier
d'une déclaration en date du : **20 septembre 2012**
faisant connaître la constitution d'une association ayant pour titre :
ASSOCIATION ALLIANCE EUROPEENNE EN RADIOECOLOGIE

dont le siège social est situé : 31 avenue de La Division Leduc
BP 17
92282 Fontenay-aux-Roses

Déclaration prise le : **06 juillet 2012**

Pièces fournies : Statuts
Procès-verbal
liste des dirigeants

Antony, le 21 septembre 2012

Le Sous-Prefet d'Antony
Pour le Préfet des Hauts de Seine
Le Chef de Bureau,
Annexes : 10/12
* 10/12

La loi du 1er juillet 1901 relative au contrat d'association (Loi du 1er juillet 1901, article 3)
Les associations sont tenues de faire connaître, dans les trois mois, leurs changements survenus, dans leur administration ou leur direction, ainsi que toutes les modifications apportées à leurs statuts.
Ces modifications et changements ne sont opposables aux tiers qu'à partir du jour où ils ont été déclarés.
Les modifications et changements mentionnés ci-dessus, constatés sur un registre tenu par le préfet ou le préfet délégué, aux autorités administratives ou judiciaires, cessent de produire effet à la demande
de l'association.
Lorsque l'association a été déclarée en opposition à l'Etat, et, en cas de nécessité, ceux qui auront contracté avec elle sont tenus de l'indiquer.
NOTA :
L'association ou l'association déléguée des modifications portant sur le statut, l'objet, le siège social d'une association est facultative. Elle ne peut être exigée des tiers qui ne l'ont pas été par les services
administratifs de l'Etat ou de son délégué.

La loi du 1er juillet 1901 relative au contrat d'association, son règlement et ses décrets, relatifs à la déclaration relative à cette association ainsi que les modifications apportées à ses statuts, sont les documents productifs et les données de l'Etat
administratif. L'Etat ne doit pas être tenu de leur donner acte de leur dépôt. Celui-ci peut être exigé des préfets ou des préfets délégués en l'accomplissement du siège de cette association, pour les données à caractère
personnel concernant les personnes physiques déclarées comme étant chargées de sa direction ou de son administration.

Founding Members of the ALLIANCE

1. Bundesamt für Strahlenschutz (**Bfs**), GERMANY
2. Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (**CIEMAT**), SPAIN
3. Institut de Radioprotection Et De Surete Nucleaire (**IRSN**), FRANCE
4. Center for Ecology and Hydrology (**NERC-CEH**), UNITED KINGDOM
5. Norwegian Radiation and Nuclear Safety Authority (**DSA**), NORWAY
6. Studiecentrum voor Kernenergie; Centre d'Étude de l'énergie Nucléaire (**SCK-CEN**), BELGIUM
7. Stralsakerhetsmyndigheten (**SSM**), SWEDEN
8. Säteilyturvakeskus (**STUK**), FINLAND