



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

Technical Meeting on Conceptual Site Models in the Management of Radioactively Contaminated Land

Virtual participation via Microsoft Teams

19 – 23 August 2024

Ref. No.: EVT2304438

Information Sheet

Introduction

Contaminated sites and areas requiring environmental improvement exist across the world. Sites requiring remediation, and possibly long-term control, include mining and processing sites, early nuclear research facilities, power plants and waste sites, and areas with elevated naturally occurring radioactive materials.

The basis of characterization, assessment, remediation and monitoring is the conceptual site model (also known as a CSM). A conceptual site model represents the characteristics of a site and shows the possible relationships (pathways) between the contaminant sources and receptors. It is developed at the outset of any process to understand the potential impacts of contaminants on people and/or the environment and is continually updated throughout activities to evaluate and remediate the site.

The conceptual site model is used to identify uncertainties and gaps to inform characterisation tasks and underpin the approach to risk assessment, remediation and monitoring. Additionally, the conceptual site model serves as a crucial communication tool for all interested parties and therefore may take different formats depending on its use and audience.

Whilst the use of a conceptual site model is widespread in industries to address conventional contaminated land, there appears to be limited use to address radioactively contaminated land or sites with elevated naturally occurring radioactive materials. Therefore, the IAEA seeks to promote good practices, facilitate information sharing, and identify gaps and barriers in the use of the conceptual site model.

Objectives

The objective of this meeting is to determine the extent, context of use, and approaches to conceptual site models in Member States. This will inform future IAEA activities within this technical area.

The meeting will facilitate the sharing of experiences and best practices in the use of conceptual site models for the characterization, assessment, remediation, and monitoring of radioactive contaminants in the environment.

The information collected from the meeting will contribute to a new IAEA publication on the characterization of radioactively contaminated land. This publication will replace outdated IAEA publications and provide guidance on developing and implementing characterization plans.

Target Audience

The meeting is aimed at practitioners in Member States who are responsible for, or actively involved in, the use of conceptual site models for the management of radioactive contaminants in the environment.

Working Language(s)

English.

Expected Outputs

- The knowledge of Member States is enhanced on the use of the conceptual site model for the management of radioactive contaminants in the environment.
- Meeting report to summarize good practices, lessons learnt, gaps and barriers in the use of the conceptual site model.
- Outline of key points to be included in the new IAEA publication on the characterization of radioactively contaminated land.

Topics

To ensure a successful meeting, participants are strongly encouraged to propose presentations for inclusion at the meeting. Topics may include:

- **Case Studies:** Analysing real-world examples where conceptual site models have been successfully employed for the management or remediation of contaminated land.
- **Integration of multiple data sources:** Exploring how various data sources such as geophysical surveys, soil sampling, and historical records are integrated into conceptual site models to enhance accuracy and reliability.
- **Stakeholder engagement and communication:** The use of conceptual site models as tools to communicating complex technical information in a clear and accessible manner and facilitate effectively work with interested parties.
- **Use of software tools:** The development of software tools to create and manage the conceptual site model throughout the lifetime of a project.
- **Learning from related industries:** The use of conceptual models in technical disciplines related to the management of contaminants in the environment e.g. exposure modelling for radon, development of environmental baselines prior the construction of new facilities, etc.

Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State or invited organization, participants are requested to submit their application via the InTouch+ platform (<https://intouchplus.iaea.org>) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **22 July 2024**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):
 - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
 - Persons without an existing NUCLEUS account can register [here](#).
2. Once signed in, prospective participants can use the InTouch+ platform to:
 - Complete or update their personal details under ‘Complete Profile’ and upload the relevant supporting documents;
 - Search for the relevant event under the ‘My Eligible Events’ tab;
 - Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating Authority’ (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
 - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
 - Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
 - Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and technical matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

Papers and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed above.

Participants who wish to give presentations are requested to submit an abstract of their work. The abstract will be reviewed as part of the selection process for presentations. The abstract should be in A4 page format, should extend to no more than 2 pages (including figures and tables) and should not exceed 750 words. It should be sent electronically to Kim Baines, the Scientific Secretary of the event (see contact details below), not later than **22 July 2024**. Authors will be notified of the acceptance of their proposed presentations by **31 July 2024**.

In addition to the registration already submitted through the InTouch+ platform, participants have to submit the abstract, together with the Form for Submission of a Paper (Form B), to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA not later than **22 July 2024**.

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:

www.iaea.org/events/EVT2304438

Enclosure: Form for Submission of a Paper (Form B)