

Plan:

What is "gentle remediation"

What are the barriers to uptake?

The SUMATECS project

Developing decision support systems for selecting gentle remediation approaches

Conclusions

☆ University of Brighton

What is "gentle remediation"

Contaminated land remediation or stabilisation using *in-situ* techniques that do not significantly impact soil function or structure, such as phytoremediation, *in-situ* immobilisation, etc.

Subject of intense R&D for a number of years

☆ University of Brighton







What are the barriers to uptake?

A number of (gentle) *in-situ* remediation options are available, and thus some form of decision support is required to allow the user to make an informed decision on which is the most suitable technique(s) for the site requiring remediation or management.

Site management and/or remediation should also be affordable, feasible, effective & sustainable, factors which also need to be built in to the decision support process.

☆ University of Brighton













Developing decision support systems for selecting gentle remediation approaches

Initial results from questionnaire survey indicates lack of stakeholder knowledge both on potential and application of gentle remediation methods, and of decision support tools that can be used to support gentle remediation approaches.

Tools need to be easy to use, incorporate sustainability measures, and consider potential use of gentle remediation technologies as part of integrated site solutions i.e. in combination with other methods, using zoned approach?

Longer-term work focussed on producing "bolt-on" tool to be run in conjunction with CLR-11 and existing national decision support tools / frameworks

University of Brighton



Acknowledgements

SNOWMAN-ERANET programme for project funding, and the U.K. Environment Agency (UK) for detailed discussions and advice

Project Consortium

BOKU - University of Natural Resources and Applied Life Sciences (AT) Austrian Research Centers GmbH – ARC (AT) Hasselt University (HAU) (BE) Luleå University of Technology (SE) Saxon State Agency for Environment and Geology (DE) Ruhr-University Bochum (RUB) (DE) INRA (Institut National de la Recherche Agronomique) (FR) INERIS (Institut National de l'Environnement industriel et des RISques) (FR) INERTEC (FR) Université de Technologie de Compiègne (FR) University of Brighton (UK) Czech University of Life Sciences Prague (CZ) UniFi (University of Florence) (IT) **University of Brighton**