Sustainable and Risk Based Land Management SRBLM – The book
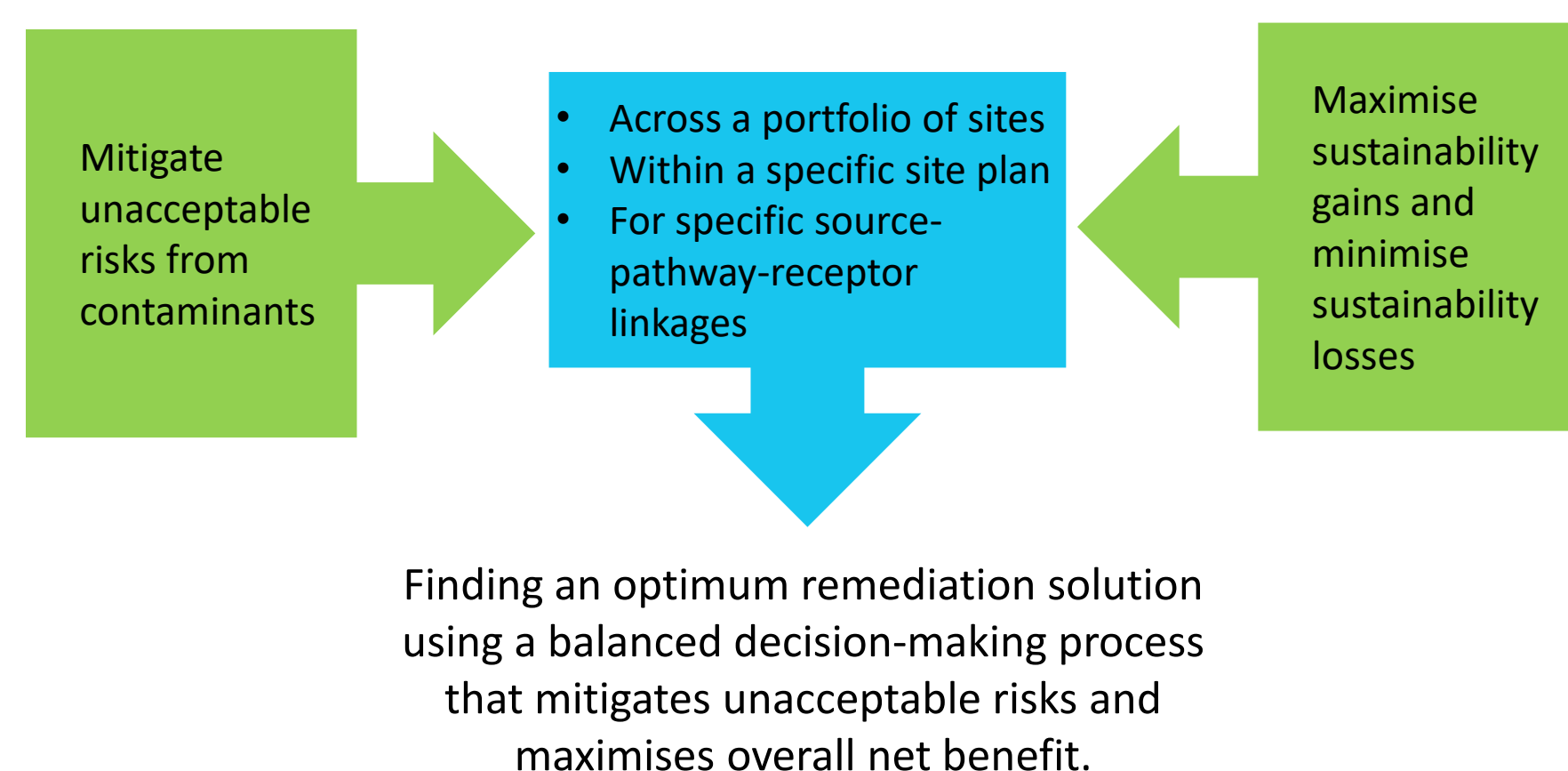
environmental technology

Sustainable and Risk-Based Land Management (SRBLM) encompasses a range of best practice remediation techniques designed to effectively manage and remediate contaminated land, while emphasising sustainability and minimising environmental impact, as well as reducing the risk to human health and the wider environment. The book *Sustainable and Risk-Based Land Management in Practice* by Paul Bardos, explores this approach in depth.

Aim

The book will provide a single coherent narrative that explains sustainable and risk based land management from the concepts of land contamination and what triggers action on contaminated sites through to the processes of site investigation, risk assessment, risk management, and the achievement of sustainable approaches to risk management. It also includes a detailed treatment of remediation technologies and how they are implemented, taking particular account of achieving the goals of a circular economy, both in terms of the use of land and the use of soil. It provides an authoritative grounding across all of these topics with extensive citations to sources of more detailed information.

Mitigate unacceptable risks from contaminants

- Across a portfolio of sites
- Within a specific site plan
- For specific source-pathway-receptor linkages

Maximise sustainability gains and minimise sustainability losses

Finding an optimum remediation solution using a balanced decision-making process that mitigates unacceptable risks and maximises overall net benefit.

Chapter	Description
Chapter 2 Land contamination	Describes what is meant by land contamination, contaminated sites and contaminated land, the types of contaminants that exist and their properties.
Chapter 3 What is SRBLM	Introduces the concept of sustainable and risk-based land management and its key importance for managing historically contaminated sites.
Chapter 4 Stakeholders	Describes the parties with an interest in a contaminated site, who play a role in the decisions that are made throughout the different stages of its management, and how they should be engaged with.
Chapter 5 The conceptual site model	Describes the CSM which is at the centre of the information flow that is needed to support efficient and robust contaminated site decision making and evolves over the site management process.
Chapter 6 Site investigation	Describes the process by which information is gathered for a site to understand the risks it poses and how this underpins the CSM and sustainable & risk based decision making & implementation.
Chapter 7 Risk assessment	Describes the processes of risk assessment, including how thresholds are set and how assessments vary for human health, ecological and water receptors.
Chapter 8 Risk management	Describes how the risk assessment findings are used to make decisions about how best to mitigate any unacceptable risks found.
Chapter 9 Sustainable remediation	Describes how sustainability assessment is used to optimise decisions about how best to mitigate unacceptable risks.
Chapter 10 Remediation options	Describes the range of remediation processes that can be applied for risk management and how they are optimally deployed.
Chapter 11 Carrying out remediation	Describes the various stages of how remediation is deployed in practice and how it can be integrated with wider considerations like the circular economy.
Chapter 12 Conclusions	Sets out the idea of "appropriateness" in remediation and an overall framework for decision making.

Case studies and Sponsorship

The book seeks a series of case studies, both to provide real world context and to offset production costs to support a low (<US$10) asking price, via Amazon, to maximise its accessibility. The idea of the book's case studies is that the case study in the book will be short (about a page) and be placed in different chapters of the book according to their topic. That way the reader will be able to see a "real world" example of what they have been learning about from the book. The book case study will include a link to the sponsor's own website where the sponsor provides more detailed information about the case study. This can also be used to showcase the sponsor and allow the reader to make contact directly.

Facts and Figures:

4 years to write, 20 international peer reviewers, 1000 citations, supporting website with comprehensive training materials underway

Case studies : target 20 at least

The book is to be marketed at $9.99 by using sponsorship

Updated version in 5 years

Languages: English and Chinese so far – open to other offers.

Expected 2025

The benefits to the sponsor will vary according to their interests, but could be one or more of the following:

- Promotion of their work to new audiences to raise new business
- Promotion of their work to potential new recruits, e.g. students or early career stage professionals
- Promotion to alert new partners or collaborators
- Offering clients an independently assessed case study
- Supporting discussions with regulators, especially where contaminated sites management is not their regulatory specialism
- Supporting market entry in new geographical areas
- Contributing to supporting a common level of understanding of the state of the art around the world
- Demonstrating an investment for social benefit and the "public good".

Our **mission**

- To provide a single, concise and coherent narrative explaining the contaminated site management process, supported by real life case studies that can open out to more detailed information on sponsors' web sites.
- To provide this on a virtually free to access basis ($9.99) via a global platform.

Our **vision**

- To educate and inform students and early career stage practitioners; to support professionals from other backgrounds seeking contaminated sites knowledge and to help experienced professionals by benchmarking and providing citable sources.
- To advance international practice for all stakeholders regardless of their economic circumstances.