

SUBR:IM SUSTAINABLE URBAN BROWNFIELD
REGENERATION: INTEGRATED
MANAGEMENT

Welcome and introduction to SUBR:IM

David Lerner (University of
Sheffield)

EPSRC Engineering and Physical Sciences
Research Council



SUBR:IM SUSTAINABLE URBAN BROWNFIELD
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MANAGEMENT



Forest Research An agency of the Forestry Commission

The University of Sheffield

BRE

GMGU Greater Manchester Geological Unit

UNIVERSITY OF CAMBRIDGE

The University of Reading

OXFORD BROOKES UNIVERSITY

KING'S College LONDON University of London

The University of Manchester

UnS University of Surrey Guildford

The London Borough of **Barking & Dagenham**

THE MERSEY FOREST

ENVIRONMENT AGENCY

ICI

CL/AIRE

Lattice

BPF OFFICE OF THE DEPUTY PRIME MINISTER

RICS FOUNDATION

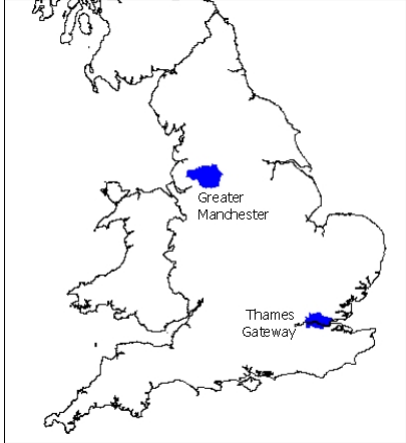
THAMES GATEWAY LONDON PARTNERSHIP

EPSRC Engineering and Physical Sciences
Research Council

Environment Agency

SUBR:IM

*SUSTAINABLE URBAN BROWNFIELD
REGENERATION: INTEGRATED
MANAGEMENT*



Greater
Manchester

Thames
Gateway

Projects within SUBR:IM

- Re-conceptualising brownfields
- Investors
- Development industry
- Governance
- Multi-level decision making
- Property investment
- Metrics
- Technical solutions
- Acid tar lagoons
- Risk reduction with charcoal
- Remediation and greening
- Novel composts
- Climate change
- Quality
- Design for deconstruction
- Wetlands
- Flooding and climate change

SUBR:IM

Facts and figures

- What does SUBR:IM mean?
- Managed from the University of Sheffield
- 17 Projects
- Investigators: 23
- Research staff: 11
- Research students: 11
- Steering group: 16
- Active collaborators: 41

SUBR:IM

Programme of Day

- Morning:
 - Introduction
 - Presentations – Brownfield Issues: practice, policy and technical
- Lunch and Poster Session
- Afternoon
 - Guest speaker: Professor John Handley OBE
 - Presentations: Developing solutions
- Finish 4.00pm

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SUBR:IM Projects

SUBR:IM

Project E- Robust Technical Solutions

- Investigating the long term performance of stabilisation/solidification methods for remediating contaminated land. It has undertaken a generic assessment of the sustainability of individual remediation methods in the UK and a comparative investigation of their relative sustainability.



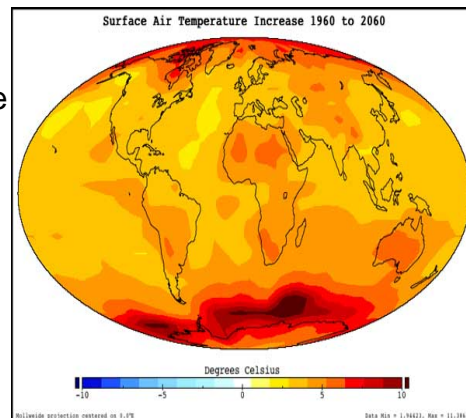
Abir Al-Tabbaa and Michael Harbottle (University of Cambridge)

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Project I- Impacts of climate change on pollutant linkage

This project:

- quantifies the short- and long-term impacts of climate change on contaminated land and containment systems
- evaluates the effects of climate change on pollutant linkages
- develops adaptation design strategies and examines adaptive response of key brownfield stakeholders



Abir Al-Tabbaa and Sinead Smith (University of Cambridge)

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Project M: Heritage, Conservation and Sustainable Communities

- Examines the ways in which brownfield sites are understood and defined in the development process
- Assess the role that heritage can play in the regeneration of brownfield sites and the development of sustainable communities
- Explores the significance of conservation to the effectiveness of brownfield regeneration



Mike Raco and Laura Keogh (King's College London)

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Project N: Design for Deconstruction

- Examines how the design of a building may be altered to maximise the yield of reusable components without adversely affecting the economic viability and practicality of the construction and operational stages of the buildings life cycle.



Buick Davison and Ahsan Khan (University of Sheffield)

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Project O: Brownfields, Flooding and Climate Change

- Examines whether flood redevelopments can be designed to reduce the impacts of flooding while providing security to occupants and not mobilising contaminants and sediments. Estimate the possible effects of climate change on the above.



David Lerner and Jacqueline Diaz Nieto (University of Sheffield)

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Project P: Wetland habitat systems on brownfield land

- Assesses the ecological status and functioning of a range of created wetland habitats on brownfield sites in England with a view to evaluating the main factors responsible for their success or failure.



Tom Nisbet, Penny Johnes and Kirsten Wright (Forest Research and University of Reading)

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(Some) SUBR:IM Outputs

- A broad range of academic and non academic articles and conference papers.
- A SUBR:IM book.
- Submission to the Royal Commission on Environmental Pollution's study on the urban environment.
- Presentation to HM Treasury on economic incentives for brownfield development.
- Patent on charcoal project pending.
- End User Outputs

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From Problem Spaces to Liveable Places: An Integrated Approach to Sustainable Brownfield Regeneration (Eds. T. Dixon, D. Lerner, & M. Raco

Unique features:

- Comprehensive overview of policy and practice in brownfield regeneration in the UK;
- An integrated, theoretically-grounded approach, which combines science and social science disciplines to highlight best practice;
- Practical examples.
- Suggestions for future trends examined; and research on brownfield regeneration and sustainable communities.
- It will also be supported by a website (www.subrim.org.uk).

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Chapter	Working Title
Part 1	Introduction
Chapter 1	Introduction
Chapter 2	Integrated Brownfield Regeneration; A Theoretical Framework
Part 2	Regeneration
Chapter 3	Brownfield Regeneration: Problems and Policies
Chapter 4	Actor Networks: The Brownfield Merry GoRound
Chapter 5	Heroes or Villains?: The Role of the Development Industry in Brownfield Regeneration
Chapter 6	Delivering Brownfield Regeneration: Practice Makes Perfect?
Part 3	Remediation
Chapter 7	Greening Brownfield Land
Chapter 8	Novel Special-purpose Composts for Sustainable Remediation
Chapter 9	Climate Change, Pollutant Linkage and Brownfield Regeneration
Chapter 10	Robust Technical Solutions
Chapter 11	The Creature Lurks Within?: Restoring Acid Tar Lagoons
Part 4	Problem Spaces to Liveable Spaces: Joined-Up Solutions
Chapter 12	Quality in Land Remediation
Chapter 13	Metrics for the assessment of the Sustainability of Brownfield Regeneration Projects
Chapter 14	The Future: Is Brown the New Green?

Forthcoming End User Guidance

- SUBR:IM Overview
- Role of the Development Industry in Brownfield Regeneration
- Community Engagement
- Attitudes to sustainability and Monitoring
- RAF Guide
- Policy, Governance and Delivery
- Risk
- Sustainability of Remediation
- Biological Results of Laboratory Work
- Composts
- Greenspace and Brownfield Regeneration (x2)
- Quality Indicators
- Quality Performance
- What are acid tar lagoons and what are the remediation options?
- Climate Change

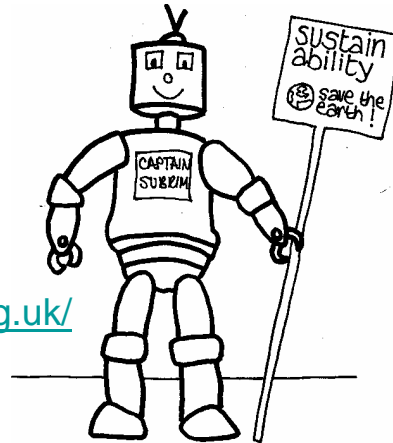
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More information

Project websites:

www.subrim.org.uk

<http://www.acidtarlagoons.org.uk/>



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