

UK good practice in integrated water management

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Overview

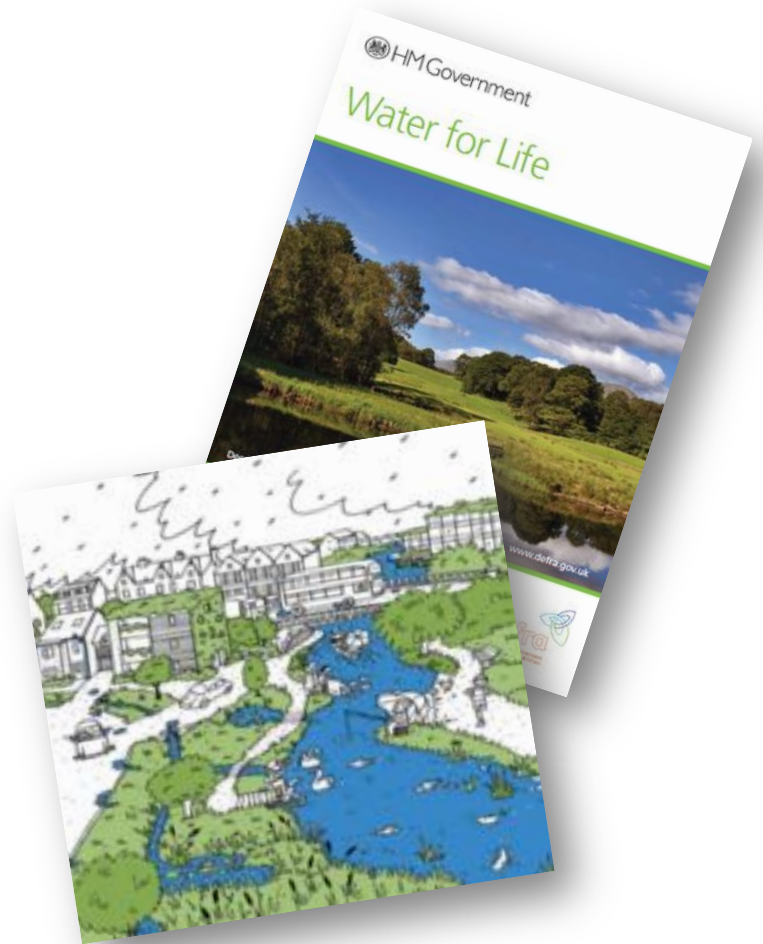


- The context
- What's in a term
- Who's doing what
- Some examples
- Further information

The context



- Challenges and opportunities
- Legislation and policy
 - Water for life
 - Water Cycle Studies
- Land use planning
 - New & existing developments
- Engagement & partnerships
- Catchment Partnerships
- Scales



What's in a term



Integrated water (resource) management *“the coordinated development and management of water, land and related resources in order to maximise the resultant economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems”* (Global Water Partnership, 2000).

Water Sensitive Urban Design (WSUD) Integrating water cycle management with the built environment through planning and urban design. By managing surface water, wastewater, as well as water supply and demand (CIRIA, 2013).

Sustainable Drainage Systems objectives manage the impacts from development on the quantity and quality of runoff and provide amenity and biodiversity opportunities (CIRIA, 2015).

www.ciria.org | www.susdrain.org | www.wsud.co.uk

What's being achieved



Who's doing what?



- Water companies
 - Catchment management
 - Retrofitting SuDS
- Local authorities
 - Supplementary Planning Documents
 - Managing local flood risk
- Regeneration
 - Water management strategies
- Catchment partnerships
 - Urban (CABA) partnerships



Urban catchment demonstrator



- To deliver:
 - Changes to places and spaces
 - Engagement and behavioural change
 - Showcase and test technology
- Working with regeneration
- Looking at:
 - Water efficiency
 - Retrofit SuDS
 - Greywater and rainwater



North West Cambridge



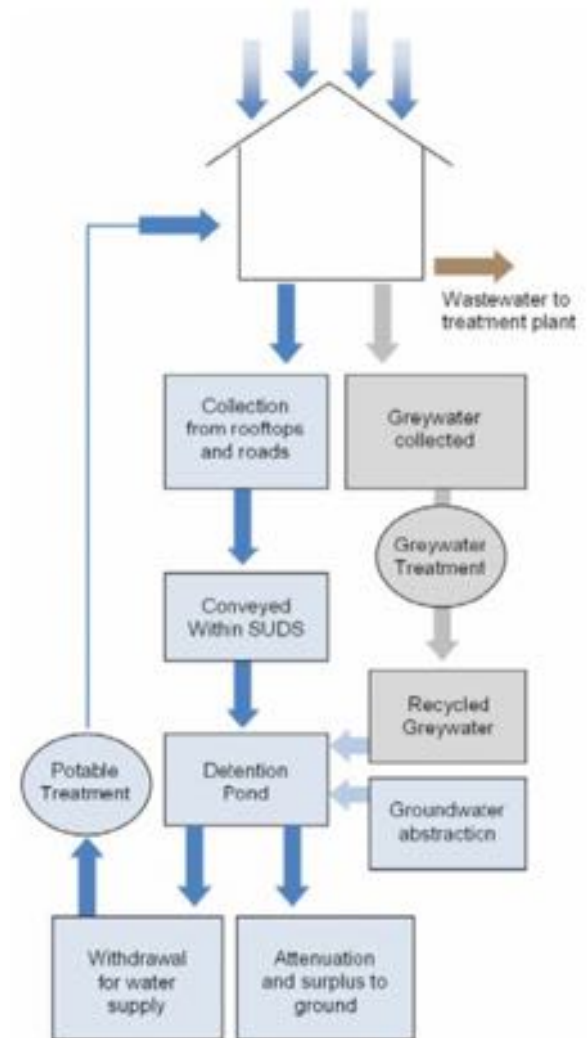
- Mixed community of
 - 3000 homes
 - 100 000m² development
 - Public amenities.
- High BREEAM rating
- Good water performance
 - Water efficiency (80 l/h/d)
 - Smart metering
 - Greywater & RWH (individual and communal)
 - Landscape for drought and deluge
 - SuDS (+exceedance)



Rackheath eco-town



- Eco-town East England
- Sensitive water catchment
- Council working in partnership
- Water Cycle Study providing
 - Evidence base
 - Focus for engagement
 - Basis for water mgt
- Master plan
 - SuDS
 - Water recycling – Water neutral
 - Green infrastructure



Further information



- Sink or Swim
 - Planning advice for IWM
 - Supporting case studies
- CIRIA
 - Animation
 - Ideas booklet
 - Scoping study
- CIWEM
 - CIWEM briefing report
- Centre for Water Sensitive Cities



Thank you



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