



## What is LANDFoRM

*Local Authority Network on Drainage and  
Flood Risk Management*

Paul Shaffer, CIRIA





## What?

*Network objectives*

- Provide a platform for sharing knowledge and experience
- Facilitate two-way communication between LAs and key stakeholders
- Provide tools and support mechanisms
- Ensure LAs are kept updated on developments





## Why?

### Drivers

- Appreciation of flood risk management (FRM)
- Making Space for Water (IUDM, strategic overview)
- Land use planning essential to managing flood risk
- Many Local Authorities provide a FRM function
- LAs are key to several individual facets:
  - Management of FRM infrastructure
  - Contingency planning
  - Sustainable drainage
  - Strategic overview?
- It's good to talk(!)...

**personalities, people, planning, politics and purses**



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## Who?

### Strategic Advisory Group

- Local Government Association
  - LA representation
  - Policy
- Planning Officers Society
- County Surveyors Society
- Regional SUDS groups
- Maritime Councils
- Defra (FRM & WQ)
- DCLG...
- Environment Agency (FRM & WQ)
  - Royal Town Planning Institute
  - Town & Country Planning Association
  - Research community
  - CIWEM
    - Rivers and coastal group
    - Policy
  - CIRIA
- Corresponding members
  - Mouchel Parkman
  - Atkins...

**But who are you?**



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## Who?

Network funders...



# Environment Agency





*It could be you?*

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## How?

Mechanisms

- **Website “portal”**
  - Information
    - Policy and regulation
    - Technical information
  - News
  - E-forum...
- **Events**
  - Half day seminars
    - **Dissemination**  
(4 presentations and Q&A)
    - **Consultation**  
(facilitated workshops)
  - Accessible training
  - **Not** always in London
  - Feedback will be sought...

Please check out the website:  
[www.ciria.org/landform](http://www.ciria.org/landform)



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## How?

### Engagement

- Tell your friends and colleagues
- Visit the website
- Attend seminars
- Register for the e-forum
- Provide funding for further seminars and services



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## Future events?

- Flood risk management: **New development**
  - Implementation of PPS25
  - Assessing flood risk – SFRAs etc
- Flood risk management: **Existing developments**
  - Lessons learnt from Pitt review
  - Retrofitting solutions
  - Working together...



**Please use the feedback form and/or e-forum to provide suggestions on topics.**



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# *Delivering sustainable drainage*

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## *What is sustainable drainage?*

- Sustainable drainage is an approach, concept or philosophy
- Mimic nature and deal with runoff as close to source as possible
- Many approaches to managing surface water: infiltration, storage and conveyance
- SUDS provide a holistic approach
  - Manage quantity of runoff (flood risk mgt)
  - Manage quality of runoff (water quality)
  - Provide amenity/biodiversity benefit (place making)

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## Conventional systems

### Challenges

#### Water quantity

- Flood risk
- Erosion
- Low flow problems

#### Water quality

- Pollution of streams by surface runoff
- CSO pollution of receiving water bodies



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## Drivers for SUDS

- **Climate Change**
  - Stern warning on impacts of weather
- **Water Framework Directive**
  - Water quality regulations
- **Planning policy statements**
  - Sustainable development
  - Flood risk management
- **Building Regulations & The Code**
  - Encouragement



Charing Cross tube station  
BBC


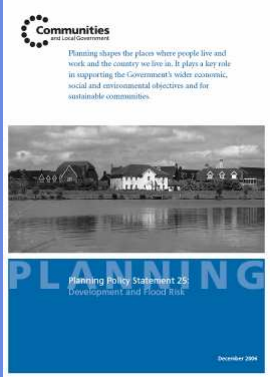






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## What does PPS25 say

### Managing surface water

- SUDS provide an **opportunity** to deliver multiple objectives
- Manage flood pathways to manage risk
- Local Planning Authorities and Regional Planning Bodies should promote SUDS
- Use planning conditions and agreements to encourage developers
- Local government should work with other stakeholders to encourage sustainable drainage





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## Some challenges

- Adoption and ownership – who does what?
- Role for stakeholders?
- What about existing problems
  - Urban creep (*crazy paving etc*)
  - Integrated Urban Drainage Management
    - Technical challenges
    - Softer social/institutional issues (engagement etc)
- Implementation of Surface Water Management Plans
- Delivering those **multiple objectives**
- Improving confidence and competencies...



*Now we can see what's been done in Oxford.*



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