

**RTPI Seminar – SUDS FOR PLANNERS**  
Optic Centre, St Aseph, 21<sup>st</sup> November 2008

**SUDS AND PLANNING  
- TOOLS FOR PLANNERS**

# Traditional drainage



Rapid conveyance of water and pollutants

- Urban Creep
- Climate Change
- System Ageing



# Main drivers

- Building Regulations
- TAN15, W&F Bill



- WFD
- EA Recommendations
- Bathing Water Quality



- Carbon Emission
- Nature Conservation
- Recreation

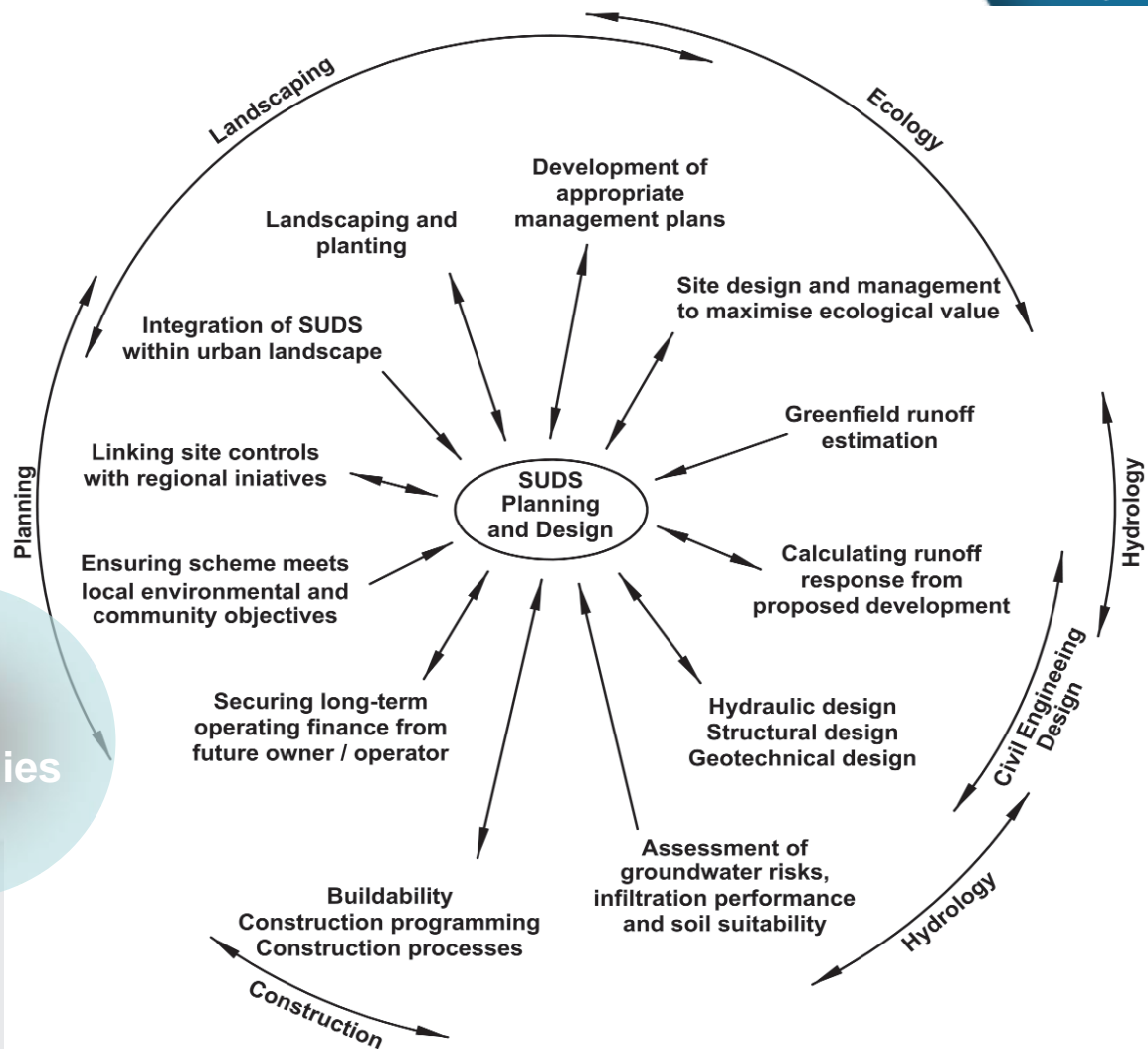


# SUDS elements

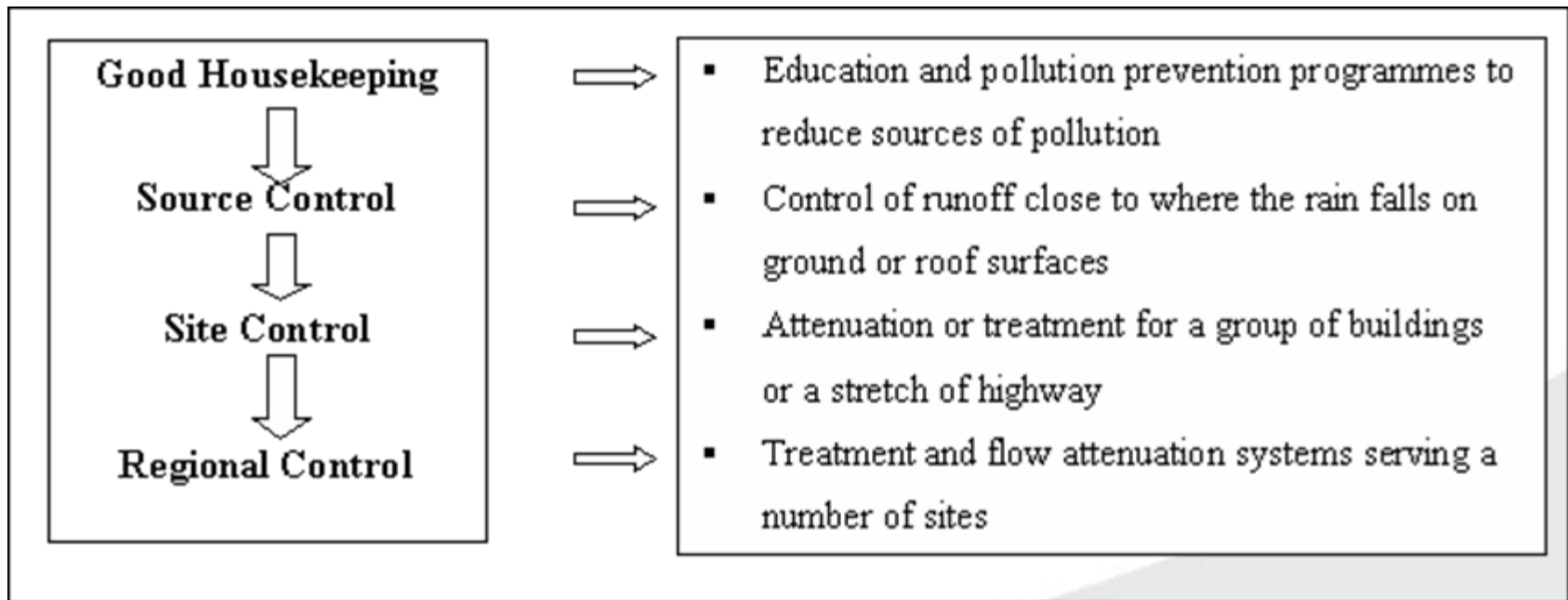


# SUDS context

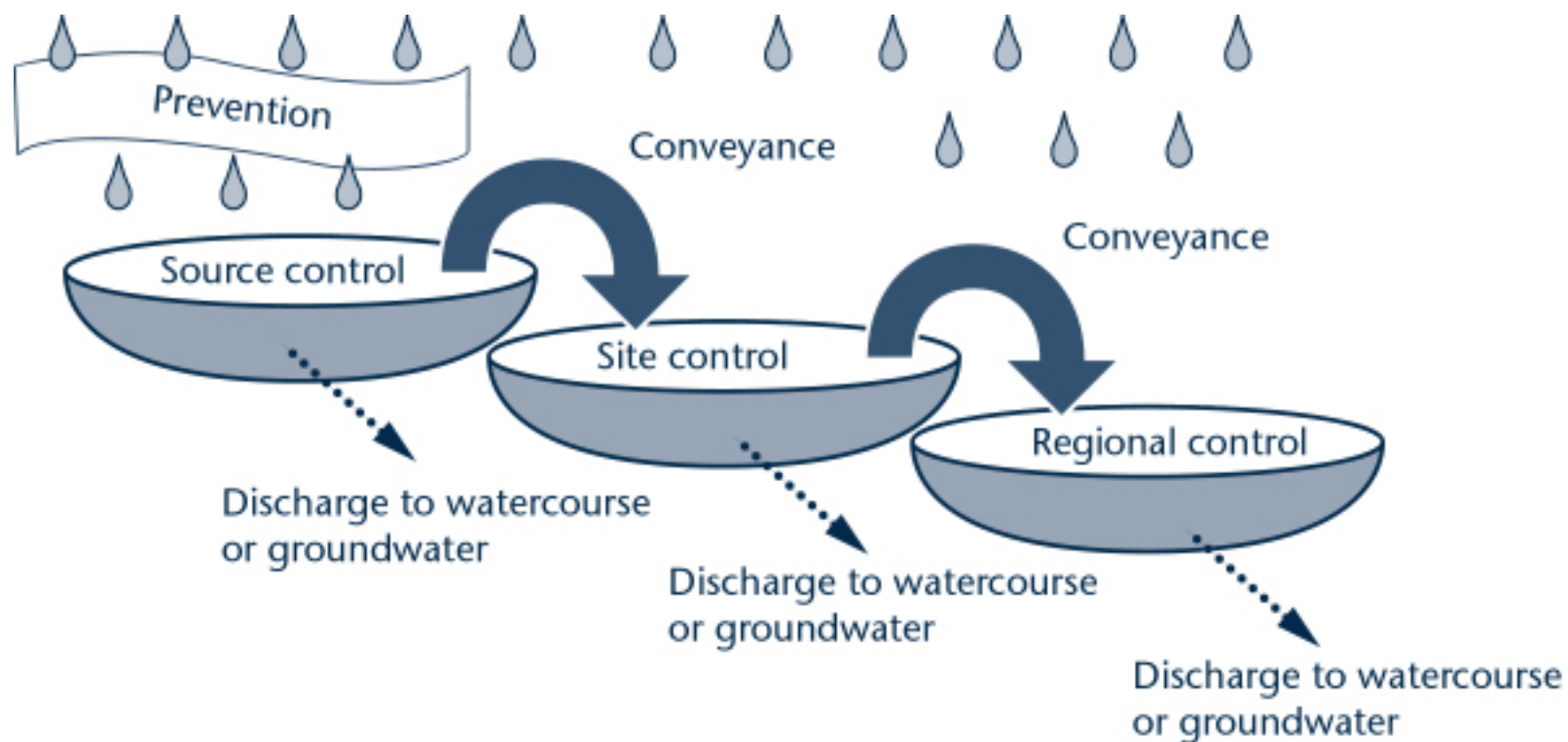
- Integrated Urban Drainage
- Multidisciplinary Approach
- Adoption / Maintenance
- Partnership of Stakeholders



# SUDS philosophy

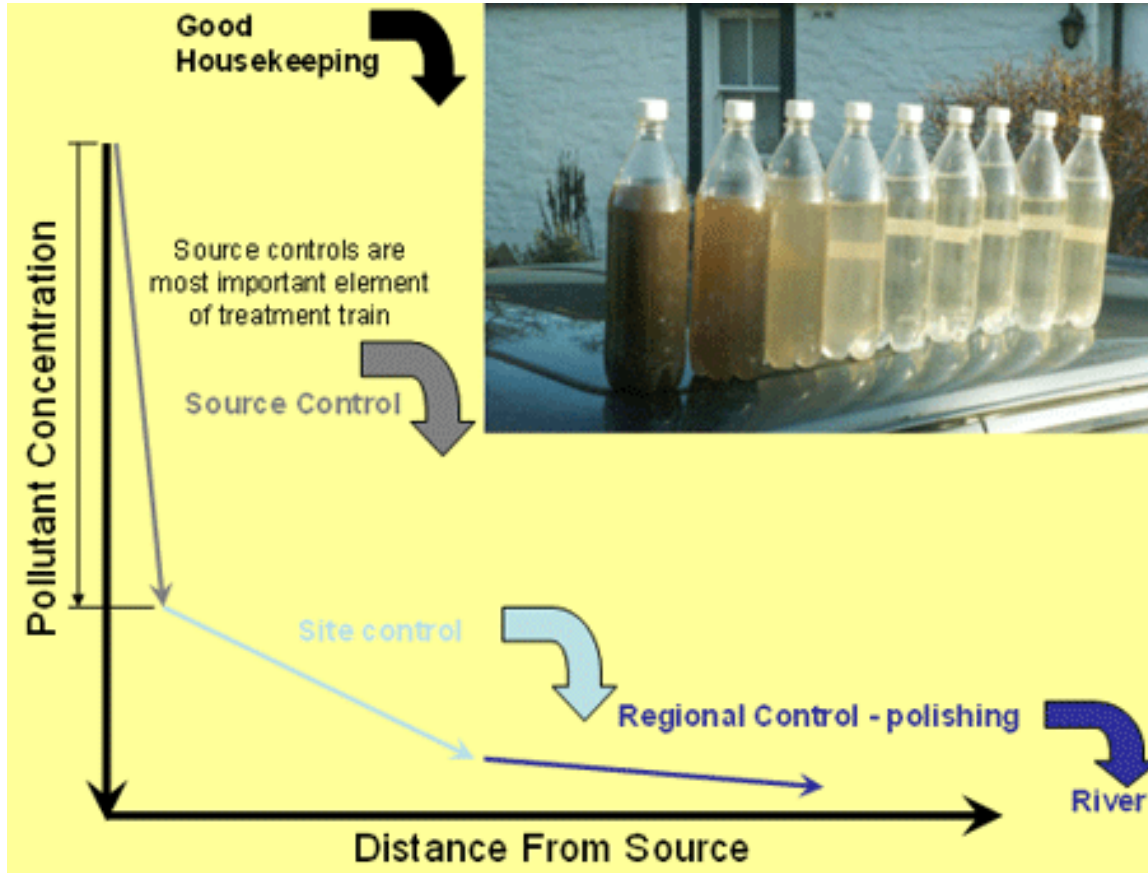


# SUDS management train



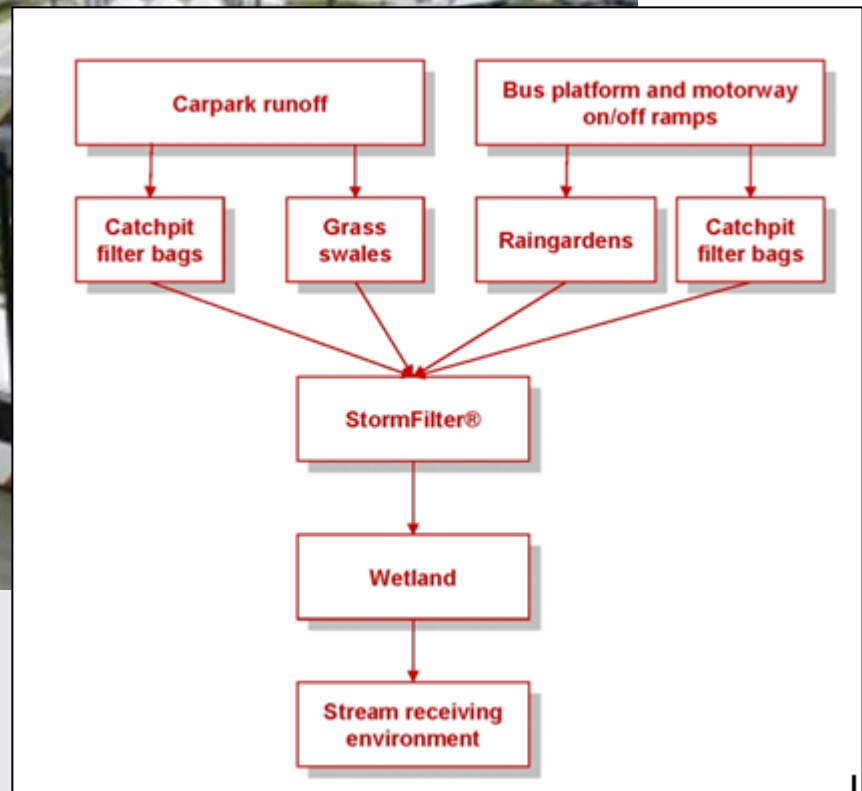
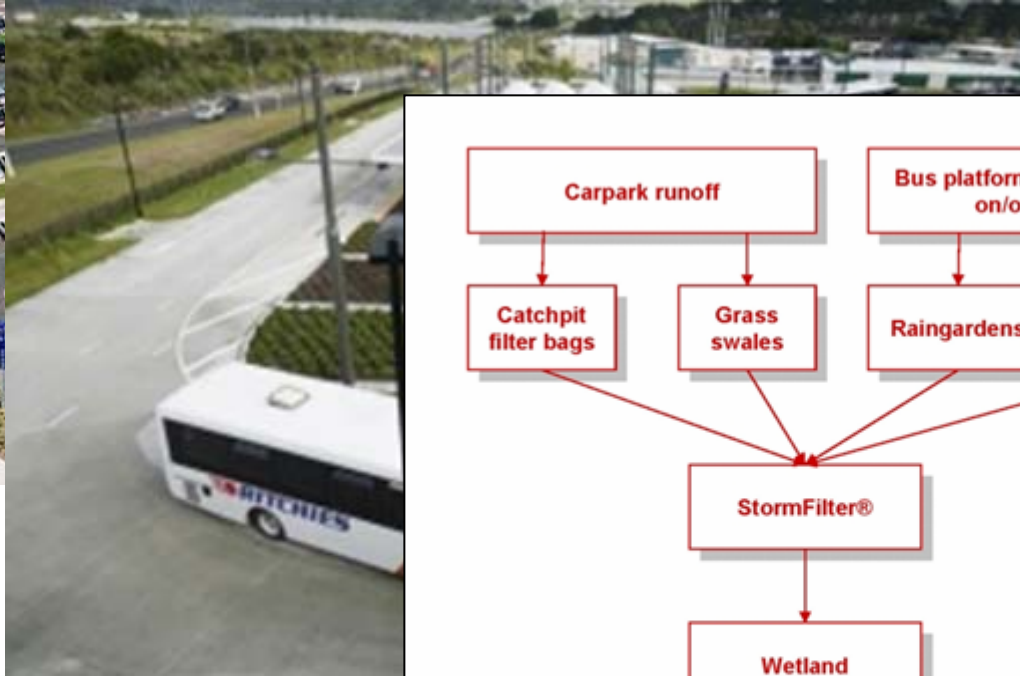
Source: CIRIA

# SUDS treatment train



Source: SEPA

# Application - Car parks



# Application – Coastal water protection



# Application – Urban retrofit



# SUDS selection tool

Planning Application

REGIONAL SUDS GROUP  
FOR NORTH WALES

ATKINS

## Sustainable Drainage Systems


### SUDS Checklist

Planning Application Number:

Applicant Name:

NEXT ▶

# SUDS selection tool



Planning Application

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## Site Characteristics

Which of these best describe your site? choose one option from each line.

Greenfield     Brownfield     Both

Large (>5ha)     Medium (1-5ha)     Small (<1ha)

Residential     Industrial     Commercial     Mixed

Level (<1:500)     Moderate (1:500)     Steep (>1:500)     Varied

◀ PREVIOUS    NEXT ▶

# SUDS selection tool



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Planning Application Number:  
Applicant Name:

## Initial site information:

Greenfield site, Large (>5ha), Commercial, Level of site (<1:500)  
Groundwater table > 1.5 m  
Site is not in GPZ  
Soil permeability is good  
No watercourse within the site  
Public sewer adjacent to the site  
No landfill adjacent to or within the site  
Included or adjacent to the SSSI site

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The following SUDS techniques are applicable for your site:

## Infiltration SUDS

With no watercourse in the vicinity consider infiltration or connection to the public sewer  
Firstly consider infiltration or connection to the watercourse before contacting sewerage undertaker to agree discharge to the public sewer  
Potential pollution risk from the site runoff - consult CIRIA 697 guidance for treatment train approach (2 levels of treatment required)  
Consult relevant natural preservation regulatory body before proceeding with surface water drainage design

## Porous pavements

With no watercourse in the vicinity consider infiltration or connection to the public sewer  
Firstly consider infiltration or connection to the watercourse before contacting sewerage

# SUDS North Wales Group

- Established in 2005



- Stakeholders: Local Authorities, EA, Welsh Water, WAG
- Remit:
  - Discuss issues and challenges
  - Identify SUDS 'champions' in particular organisations
  - Keep abreast of good practice and policy
  - Provide vehicle of dissemination of best practice
  - Provide links with other regional and national groups



**REGIONAL SUDS GROUP**  
FOR NORTH WALES



**SuDS Wales**  
*sustainable drainage systems*



&

National SUDS Working Group

# Conclusions

- Exciting but challenging time for SUDS (SWMP, W&F Bill)
- **Planners key stakeholders for integrated water management**
- Practitioners gaining confidence ('can implement' attitude)
- Integrated approach required (partnerships):
  - Integration of water resources management
  - Integration of decision making levels
  - Integration of wide range of measures
  - Integration of stakeholders and public
- Tools to assist planners - SUDS regional networks vehicle to assist