

We bring together Town Planning, Masterplanning, Urban Design, Landscape Architecture (and a little Architecture) to ensure we create places that people feel good about.

The Urbanists Mission

Who we are



Mark Farrar



Daniel Smith

What we're going to cover

- A brief overview of Sustainable Drainage Systems (SuDS) and why it's important
- Welsh Government recommendations for changing the current system and potential implications
- Next steps for SuDS, summary and our lessons learnt

What are SuDS?

Sustainable **D**rainage **S**ystems to manage surface water that take account of water **quantity** (flooding), water **quality** (pollution) **biodiversity** (wildlife and plants) and **amenity** (people)

Why is it necessary?



'Water is a **valuable resource** and managing it in an integrated way can provide multiple benefits. From ensuring we have enough to thrive in supplying to homes, businesses and food production as well as for nature we also have to anticipate and **mitigate for the climate risks of flooding or drought.**

In particular, we want to avoid drainage infrastructure being overwhelmed with the environmental implications of storm overflow discharges, so we can improve and increase biodiversity and habitats.'

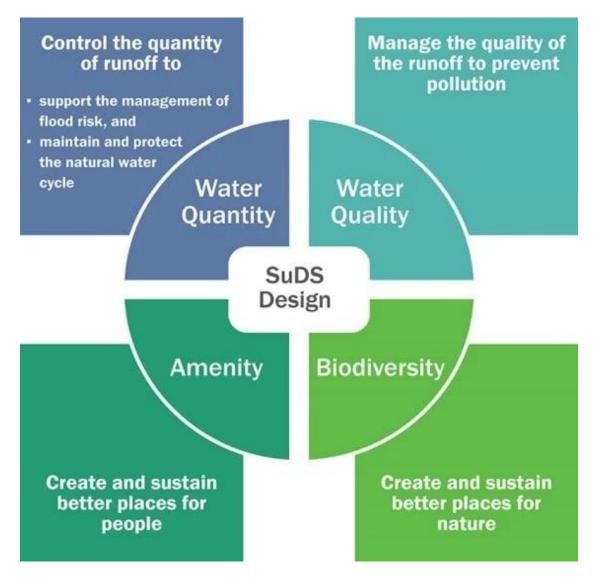
Ministerial foreword: The review for implementation of Schedule 3 to The Flood and Water Management Act 2010 (2022)

Understanding the four (4) pillars of SuDS

- 1. Water Quantity
- 2. Water Quality
- 3. Amenity
- 4. Biodiversity

But how about a fifth?

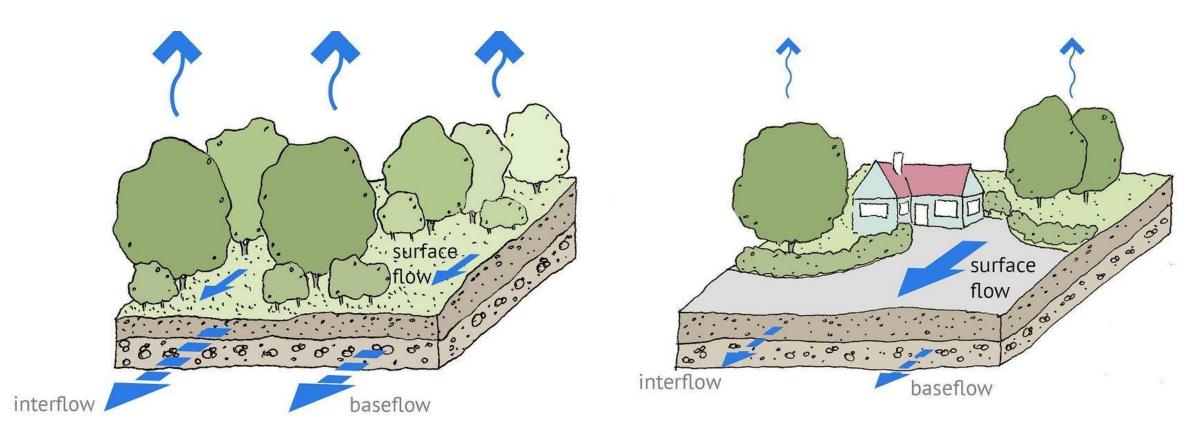
1. Cost...



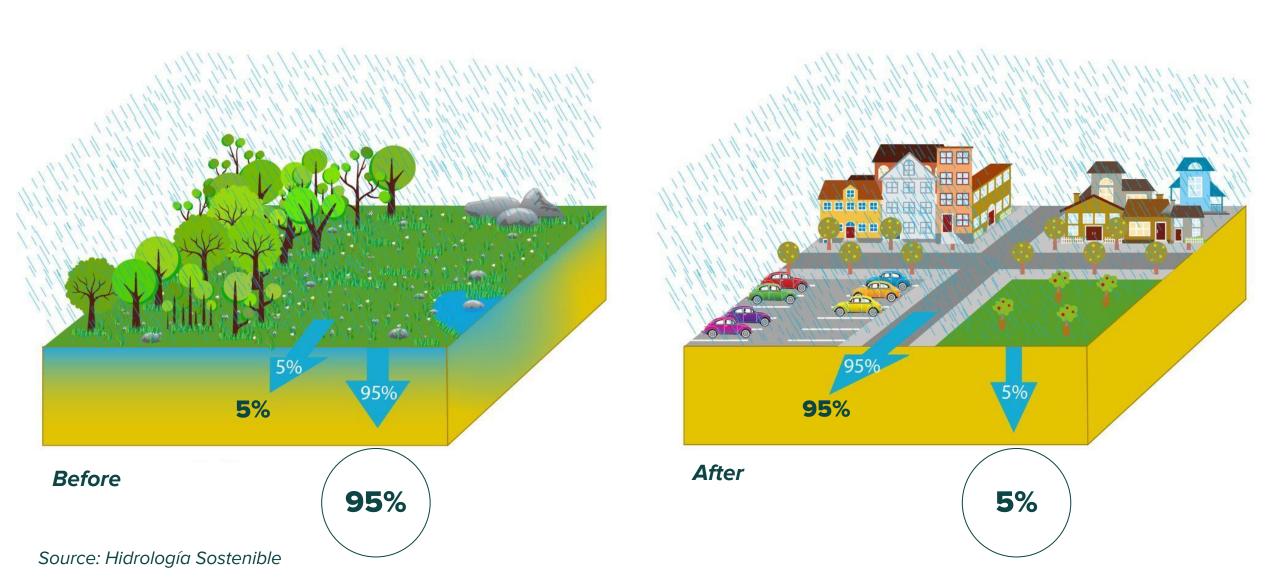
Source: Devon Council

The natural vs urban

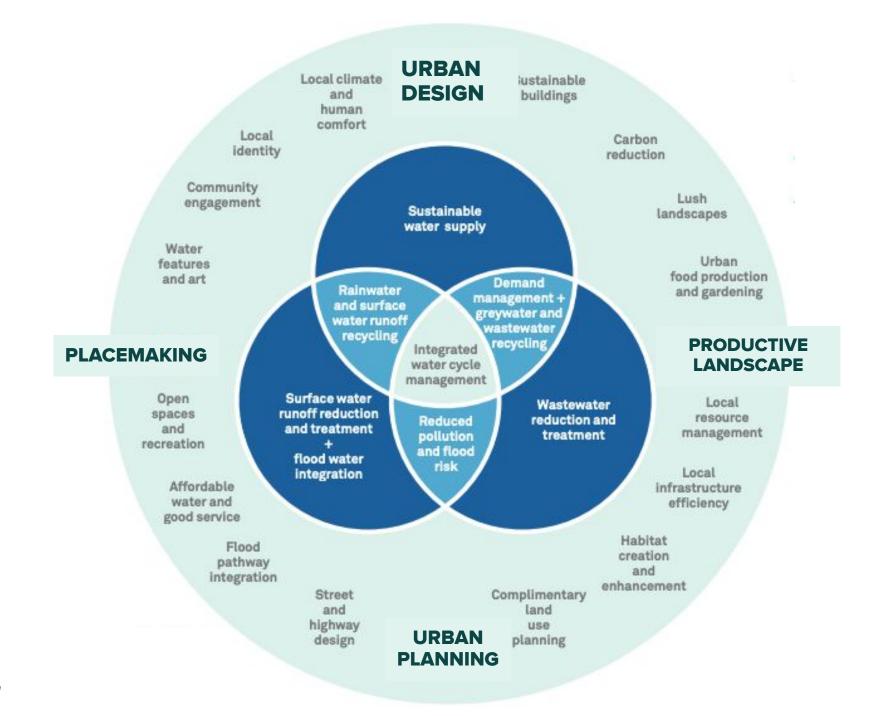
Evapotranspiration



Or put another way



Bringing together a holistic approach



Source: Water Sensitive Urban Design



What does a joined up SuDS offer?





Enhance biodiversity



Heat island



Amenity

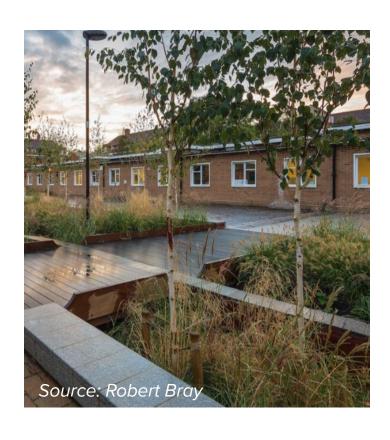


Health & wellbeing



Reduce flooding

What can go wrong? - the good, bad and ugly







Welsh Government Post-Implementation Review of Schedule 3 of the Flood and Water Management Act 2010

Background

- Welsh Government led review of how the SuDS / SAB process has been working over past 4 years
- "eagerly awaited by our partners involved in delivering housing"
- To outline and prioritise recommendations to address issues raised through consultation
- Inform the WG approach to the use of SuDS to provide wildlife habitat

Welsh Government

Sustainable Drainage Systems (SuDS) Schedule 3 Post Implementation Review

Post Implementation Review Report

Reference: 287773-ARP-00-00-RP-ZX-0001

P02 | 2 May 2023



c Photo credits: Top Left: Caerphilly Council & Llanmoor Homes. Top right: The Urbanists. Bottom left: Arup & Walters. Bottom right: Bellway Home

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken t any third party.

Job number 28777

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Outcomes and recommendations

• 17 emerging themes grouped into 4 categories:

Governance and Resources;

Consistency;

Technical requirements; and,

Affordability and Enforcement

- Recommendations based on these themes
- Categorised into: short, medium and long term

A. Governance & Resource	B. Consistency
Performance indicators	•Guidance
•Resources	•Determination periods
•Skills gap	•Application process (including alignment with
	Planning)
	•Alignment with highways
C. Technical Requirements	D. Affordability & Enforcement
•Proportionality	•Fees
•Technical standards	•Enforcement
•Biodiversity and amenity	•Appeals
	•Adoption
	•Funding of long-term maintenance
	•Inspections
	•Bonds

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	*Donas

A. Governance & Resource	B. Consistency
Significant resources and skills gap Resource sharing SuDS leadership	 Recurring theme through the review Determination periods causing project delays Pre-application process should be formalised with advice which can be relied upon later in the process Alignment with planning determination process
C. Technical Requirements	D. Affordability & Enforcement
 Proportionate risk-based approach is required to the application of technical standards, without disproportionately burdening small developments Retrofit SuDS needs guidance Biodiversity and amenity standards should be updated to align with Wales biodiversity policy 	 Fees - SABs consider fees should be increased Guidance needed on minor amendments, enforcement, appeals, adoption, and non-performance bonds Priority is to have an approach to funding long-term maintenance with can be sustained

Outcomes and recommendations - short term actions

- Introduce standard legal forms;
- Combine all guidance into one clear document;
- National commuted sums approach rates, period;
- Consider a service charge approach levied by SABs for benefitting properties;
- Clear list of scenarios which do **not** require SAB approval to support a proportionate risk-based approach; and,
- Provide a clearer and more appropriate pre-application approach, to be consistent across Wales.

Further recommendations - medium to long term Consistency

- 'Sunset clause' any planning approved or validated prior to 07/01/19 which has not started construction by 07/01/25 will then require SAB consent;
- SABs to prepare Local guidance (to be consistent format);
- Review the determination periods and 'deemed approval';
- Validation deadline should be set;
- Combined SAB and planning applications;
- Drainage Strategy showing SAB compliance with planning apps
- Consider making pre-application advice binding;

Further recommendations - medium to long term

Consistency and Technical

- SAB pre-app mandatory for major development;
- Combine planning and SAB pre-app processes;
- Allow minor / non material amendments post consent;
- SuDS in adopted highway guidance;
- Digital submission process (portal) with tiered application form;
- Amend SuDS standards for amenity and biodiversity;
- Review fees;
- Prepare guidance (enforcement)

Further recommendations

Amenity and Biodiversity

- Key recommendation to strengthen the requirements;
- Specific national guidance (linked to wellbeing);
- NRW's DECCA framework (Diversity, Extent, Condition, Connectivity, and Adaptability);
- WG COP15 Biodiversity Deep Dive and PfG commitments;
- PPW Achieving net benefit for biodiversity principles for planning applicants - assess, avoid, minimise, mitigate, compensate;
- Single response from LAs on both Planning and SAB; and
- Designing to maximise benefits.

Further recommendations - medium to long term Affordability

- Review fee structure;
- Minor amendments (following approach to planning);
- National commuted sums approach schedule of rates, and consider limiting to 30 years;
- Require LA income (commuted sums) to be used for SuDS maintenance; and,
- Guidance on bonds.

Summary planning recommendations

- WG to consider and take forward TBD;
- Limited application to England due to different approaches but some points could influence how the English system is set up;
- Key recommendations 6 12 months, 1 year to 5 years;
- WG to confirm next steps in taking forward recommendations;
- New guidance;

Summary landscape recommendations

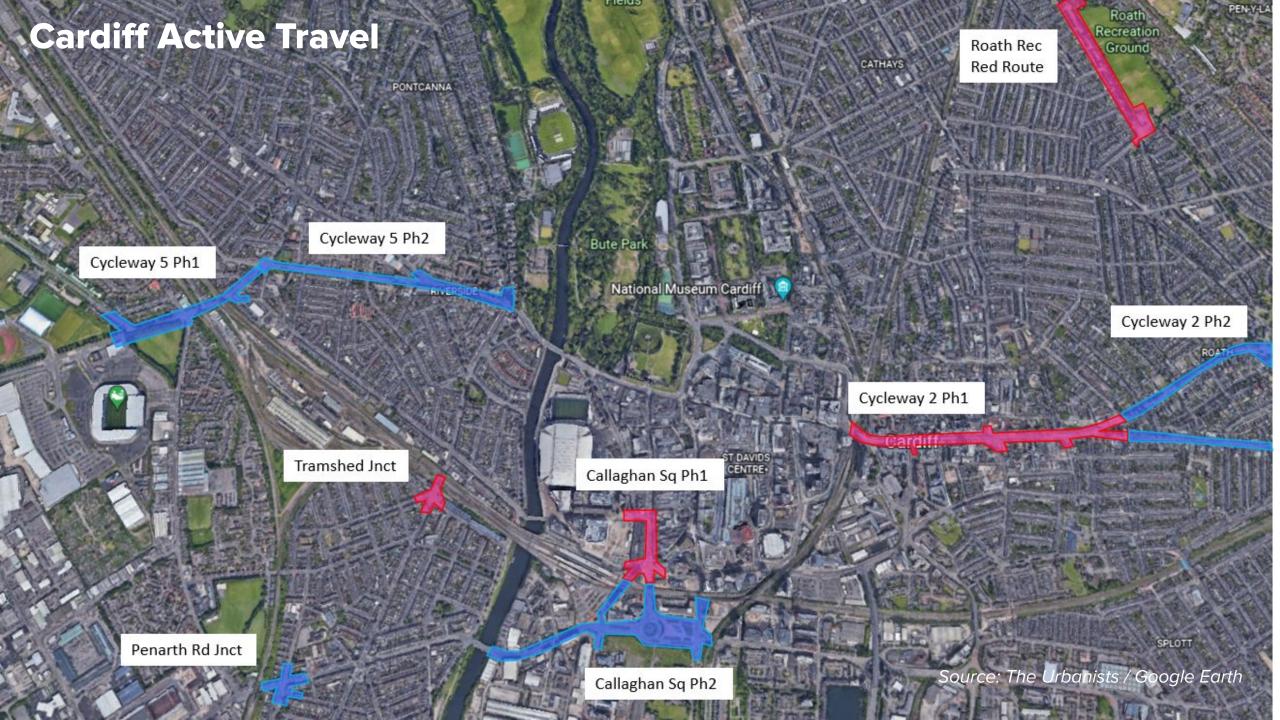
- A placemaking led approach from the start
- Prioritising Green and Blue Infrastructure together
- Right plant right place to enhance biodiversity, and ensure climate resilience
- Getting the soil spec correct as important as planting
- Early costs reviews to help inform design feasibility
- Accepting that not everybody is embracing SuDS in the same way and balancing competing priorities
- Building in post installation reviews to keep learning

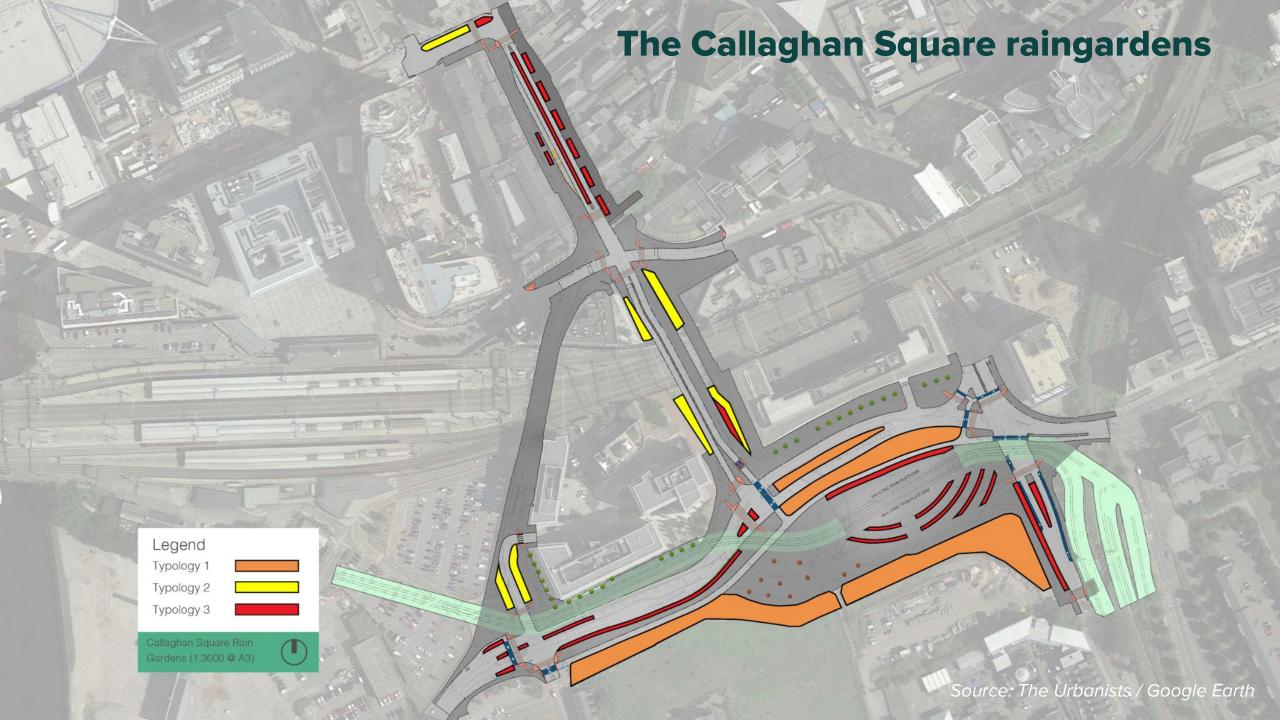


Kampus by **ExA**

Project Case Studies

- Cardiff Active Travel
- Cardiff Arena
- Kingsway Yard, Swansea
- Swansea Residential Site
- Llangollen Four Great Highways





Cardiff Arena



Shrubs & Herbaceous Planting:-

Allium aflatunense
Anemone hupehensis var.japonica
Deschampsia caespitosa "Goldschleier"
Digitalis purpurea
Dryopteris felix mas
Libertia grandiflora
Molinia caerulea
Salvia 'May Night'
Salvia purplespires
Sisyrinchium striatum

Climbing Plants:-

Hedera colchica 'Paddy's Pride' Hydrangea anomala subsp. petiolaris Parthenocissus tricuspidata 'Veitchii Rosa 'Madame Alfred Carrière' Trachelosermum jasminoidies

Trees:-

Amelanchier-serviceberry Prunus-avium-Plena Zelkova-serrata





Llewellyn Road Residential



THANK YOU

Q&A