

A Partnership Approach to Sustainable Drainage

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Greener Grangetown







Dŵr Cymru Welsh Water

A True Partnership Approach







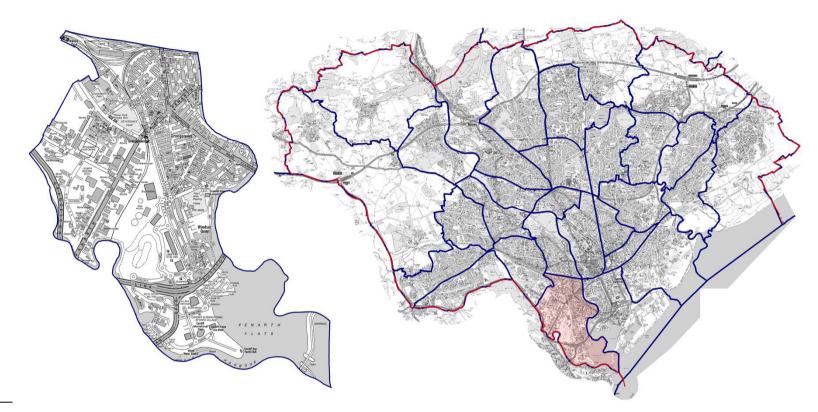
- A signed memorandum of agreement
- A project board with equal representation
- An equally funded design/consultation process







Grangetown in Context



Grangetown is a thriving urban community of almost 20,000 residents, with a population density of almost twice the average of the city, and with one of the most culturally diverse communities of any Council ward in Wales.







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Project Aims



- Sustainable Water Management
- **Removal of Surface Water from Sewer** Network
- **Demonstrate Wider Benefits**
- Toolkit for Future Projects
- To assess the success of partnership working









Challenges

- Quantification of benefits
- Direct funding is from 3 different organisations with different drivers and responsibilities.
- Stakeholder engagement -Most culturally diverse council ward in Wales, with 92% of children attending the local school with English as their second language.
- Combined Sewers









Grangetown:Wide Street









Grangetown: Narrow Street









Grangetown: Block end









River Taff Ebankment, Taff Trail Cylcle route



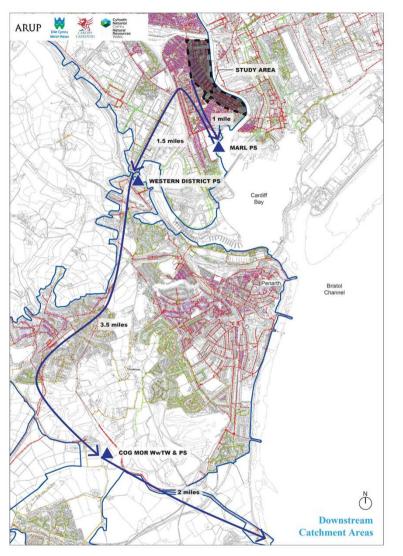
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Unsustainable Drainage



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The interventions









Resident Consultation Drawing











Before and after: Narrow Street



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Before and after – Wide Street



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Before and after



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Before and after



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Wider benefits

Assessment Criteria	National Flood and coastal erosion risk management strategy	A sustainable Wales – better choices for a better future	One Wales: One planet & Cardiff: One Planet City	DCWW strategic direction statement	Draft Cardiff surface water management plan	Sustainable Development (Wales) Bill	Environment (Wales) Bill	Heritage (Wales) Bill	Planning (Wales) Bill	Climate Change Strategy for Wales	Active Travel (Wales) Bill	Housing Bill	Regeneration Bill	Wales infrastructure investment plan
Community Pride			+			+		+	+			+	+	
Outdoor Experience							+	+			+			
Health and wellbeing		+	+	+		+		+		+	+			
Transport and Connectivity										+	+			+
Community engagement		+	+		+	+	+	+		+	+		+	+
Sustainable Behaviours	+				+	+	+	+	+	+	+	+		+
Managing Surface Water	+			+	+				+			+		+
Biodiversity			+	+			+	+		+				
Water Efficiency				+	+				+			+		
Carbon Footprint				+			+			+		+		
Climate Change Resilience	+		+	+	+	+	+			+				+
Green Spaces	+				+	+		+		+			+	+
Water Quality				+						+				
Economic Effect	+		+	+		+	+	+	+	+	+	+	+	+
Operational Management	+	+		+						+				
Partnership Working		+	+		+	+	+	+	+	+	+	+	+	+

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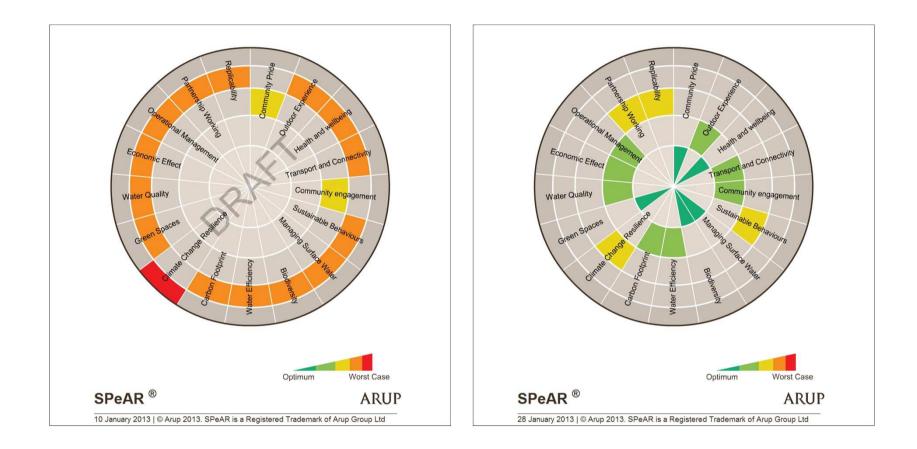


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The benefits









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Headline Benefits

- Removing 155,000m² of impermeable surface area
- Releasing capacity for between 6,000 and 12,000 new homes
- Realising annual monetarised benefits in the order of £250,000
- Payback period of 12 years
- 16,500m² increase in green space
- Potentially 400 additional trees









What next?

Continuing Consultation & ConversationDesign

- •Monitoring & WISDOM project
- •March 2015 start on site
- •Future phases in Cardiff & beyond



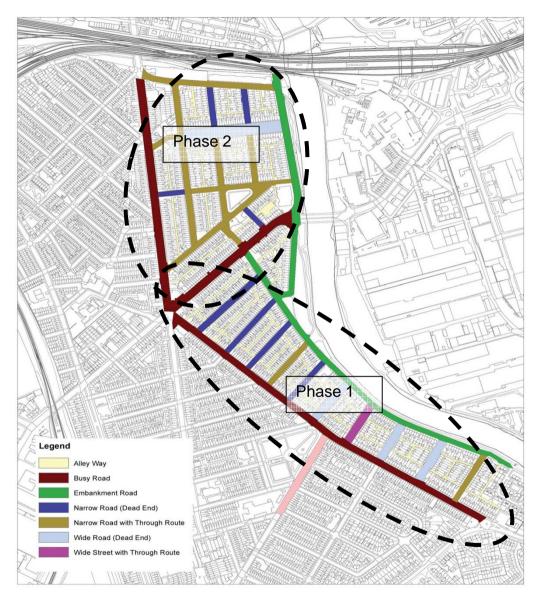




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The Future ?

To make Greener Grangetown an exemplar scheme for water sensitive sustainable drainage, in Cardiff, Wales & beyond: Water Sensitive City

To encourage greater partnerships within the public, private & not-for-profit sector – combining both expertise & funding

To change people's perception of water, *as an asset*







River Taff trail towards Taff Embankment



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