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# CIWEM Urban Drainage Group Annual Conference 2022

8 – 10 November 2022

Hilton Birmingham Metropole

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# Collaborative Drainage Planning Supported by 2Di Modelling

Dom McBennett & Francisco Simon



# Introduction

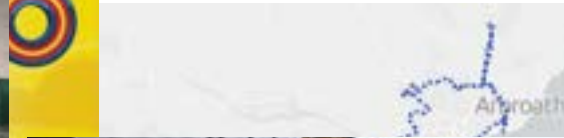


**Communities**  
**Engagement**  
**Partnership**  
**Stakeholders**  
**Collaboration**  
**lead**





# Dundee Partnership

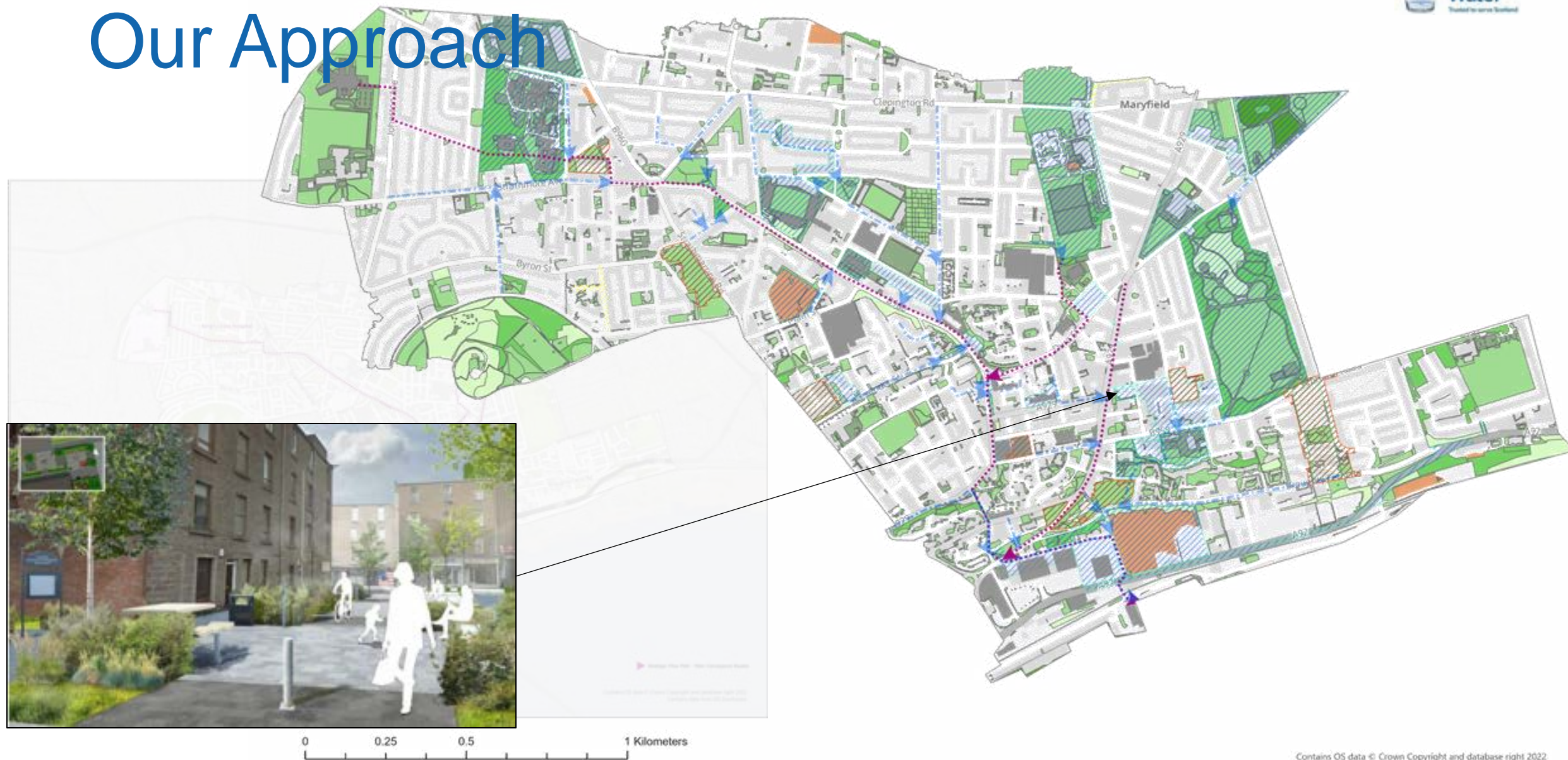


Dundee





# Our Approach

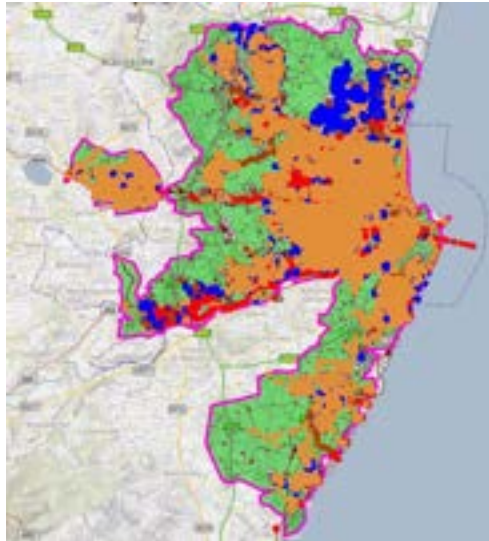


# How – 2Di Modelling

- Supporting Strategic Catchment Planning at different scales

Increased level of detail

**City Scale**



**Aberdeen 2Di (180km<sup>2</sup>)**

**District Scale**



**Edinburgh – Craigleith 2Di (10km<sup>2</sup>)**

**Neighbourhood Scale**

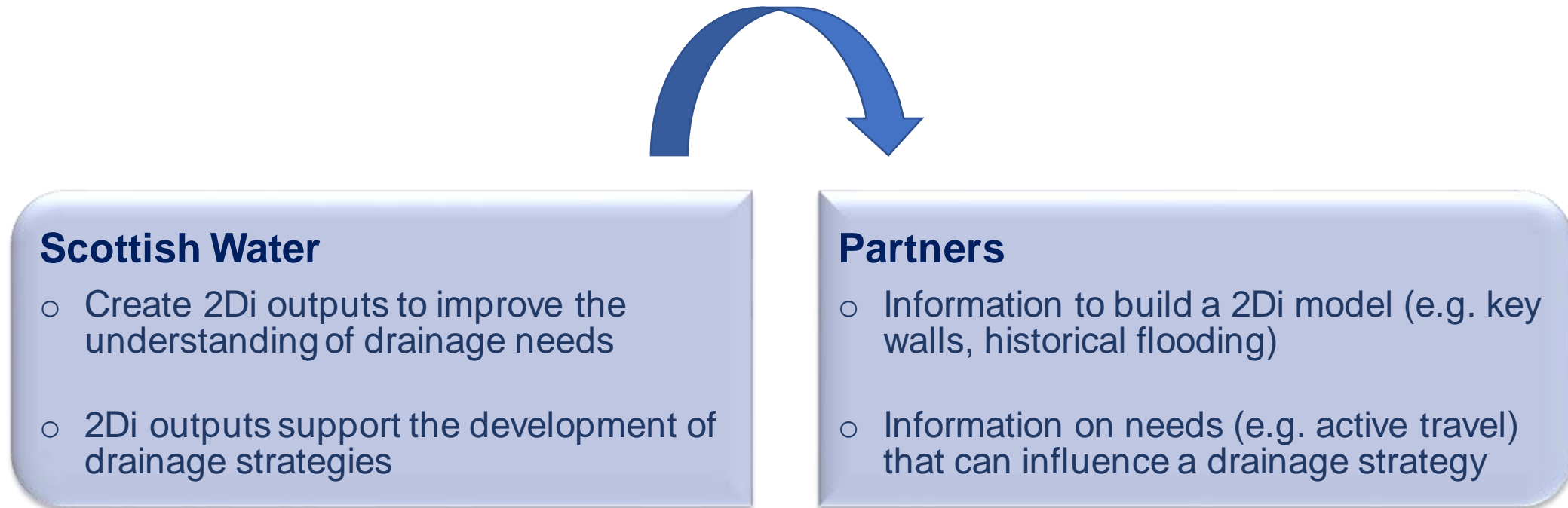


**Dundee – Douglas 2Di (1.7km<sup>2</sup>)**



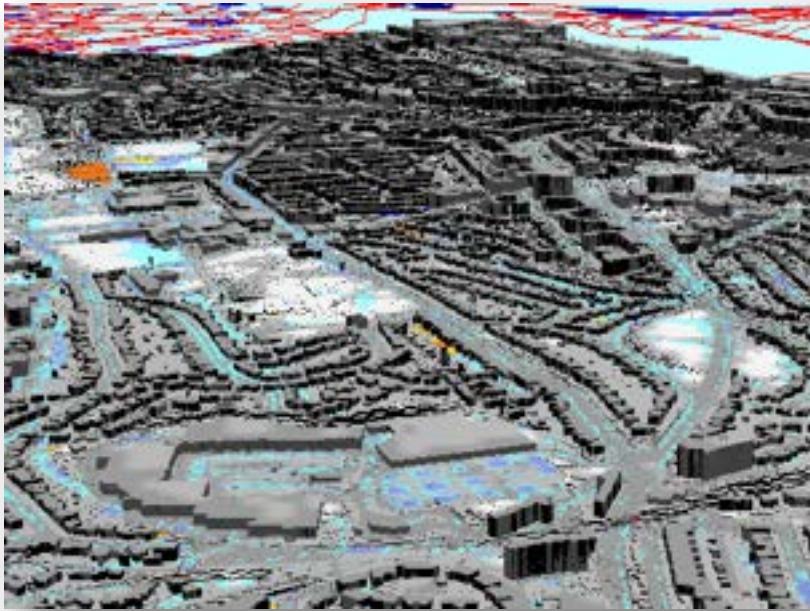


# 2Di Modelling: Joint Effort



# 2Di: Supporting Joint Decision Making

- Tool to Assess Drainage Needs, Craigleith 2Di



Watercourse  
Flooding



MH and Gully  
Flooding



# 2Di: Supporting Joint Decision Making

- Strategic Catchment Planning, Aberdeen City



# Case Study: Benefits of collaborating

- Community led park development
- Opportunity for SuDS
- Springboard for drainage strategy development
- Plan to reduce flood risk
- Support future development





# Douglas Community Park, Dundee 2022



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## Q&A Session

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