

**Glasgow City Council**

# **Tollcross Surface Water Management Plan (SWMP) – Public Consultation**

17<sup>th</sup> December 2020

Dr Doug Lewis Amey Consulting Technical Director

Laura Galloway GCC Flood Risk Officer

# Welcome!

Thank you for your interest in the Tollcross Surface Water Management Plan (SWMP)

This presentation will inform you of the main steps currently being undertaken as part of this SWMP. We also aim to receive your views and feedback, which are crucial for the success of this project.



# We'd love to get your feedback



We would like to know...

- Have you witness any flooding in your area or are you aware of any problems related to surface water in your area?
- What are your thoughts regarding the proposed options?
- Other issues you would like to comment

Please, you can respond:

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- Emailing us at [GCCRainReady@amey.co.uk](mailto:GCCRainReady@amey.co.uk)
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Amey, Precision House  
McNeil Drive, Eurocentral  
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We will record and review carefully all of your comments, so you can help us improve the Surface Water Management Plan

ameyconsulting

**WHAT DO YOU THINK?**

live locally  
 work in the area  
 other: \_\_\_\_\_

Firstly, a few quick questions...

Are you aware of flooding in your area?  YES  NO

Before today did you know what a Surface Water Management Plan is?  YES  NO

Had you heard of SuDS (Sustainable Drainage Systems) before today?  YES  NO

Thinking more about what has been presented today, to what extent do you agree with the below statements?

I understand the new approach to dealing with rainwater that the Surface Water Management Plan is proposing.  STRONGLY DISSEE  DISSEE  NEUTRAL  STRONGLY DISSEE

The proposal suggested for the Surface Water Management Plan will help reduce the flooding risk locally.  STRONGLY DISSEE  DISSEE  NEUTRAL  STRONGLY DISSEE

Introducing SuDS will also bring greater benefits to local green spaces for people, nature and wildlife.  STRONGLY DISSEE  DISSEE  NEUTRAL  STRONGLY DISSEE

About today's event...

Do you think it was well advertised?  YES  NO

Did you find the event useful?  YES  NO

Have you felt able to express your views on the project?  YES  NO

Finally...

Is there any additional work or improvements which you would like to see alongside any proposed SuDS (e.g. outdoor play, seating or signage)?

Would you be interested in disconnecting the rainwater drainage on your property from the current drainage system and introducing a small scaled SuDS (like a water but or raingarden) to your home or business?  YES  NO

If you have answered yes, please leave your details below.

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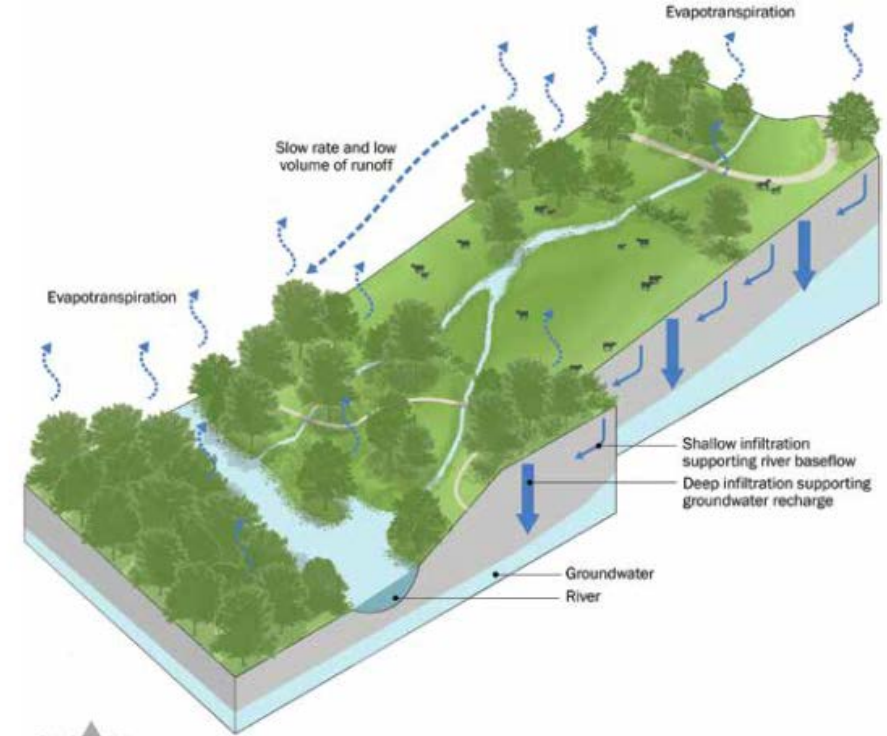
**TURN OVER TO LEAVE NOTES OR COMMENTS**



# Why?

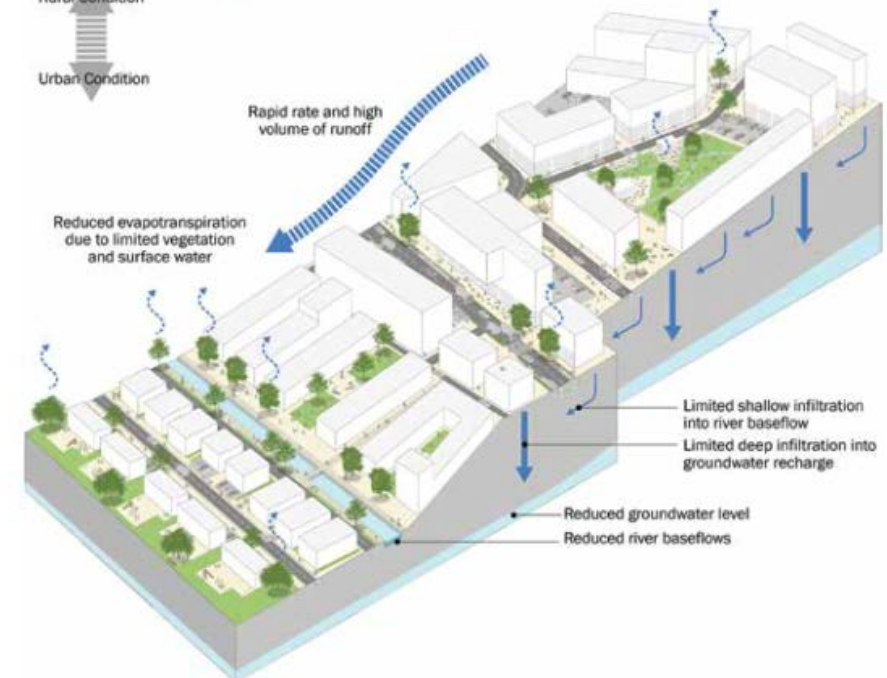
The Tollcross area has been identified as having the potential to flood, particularly as weather changes due to **climate change** and **city growth**.

A SWMP evaluates the causes of flooding within the area and identifies opportunities to reduce the occurrence and impact of flooding on the local community.



Rural Condition

Urban Condition

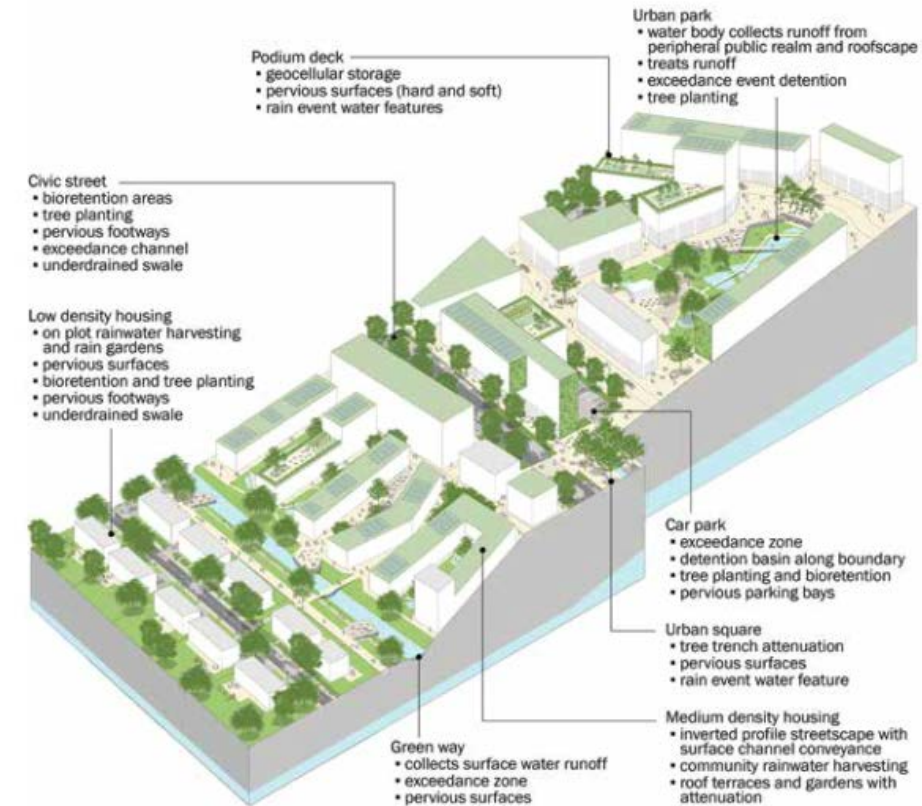
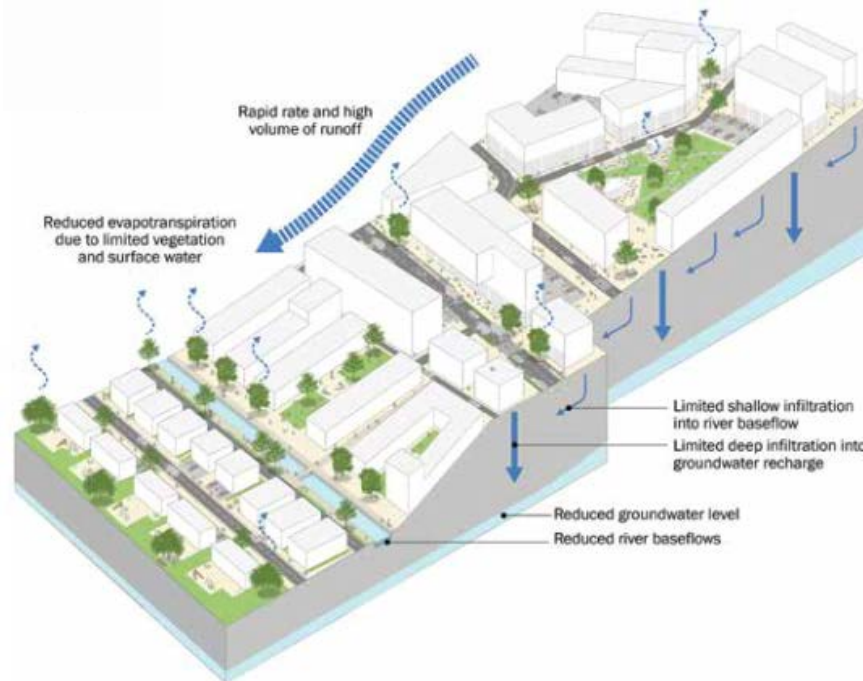


# How?

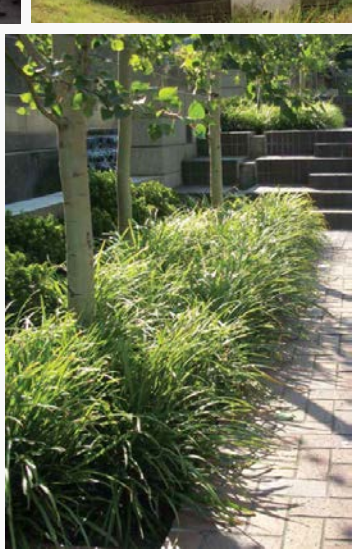
## SUSTAINABLE URBAN DRAINAGE SYSTEMS

The strategy that we follow now is to minimise the impact by **imitating the natural drainage processes using Sustainable Drainage Systems (SuDS)**.

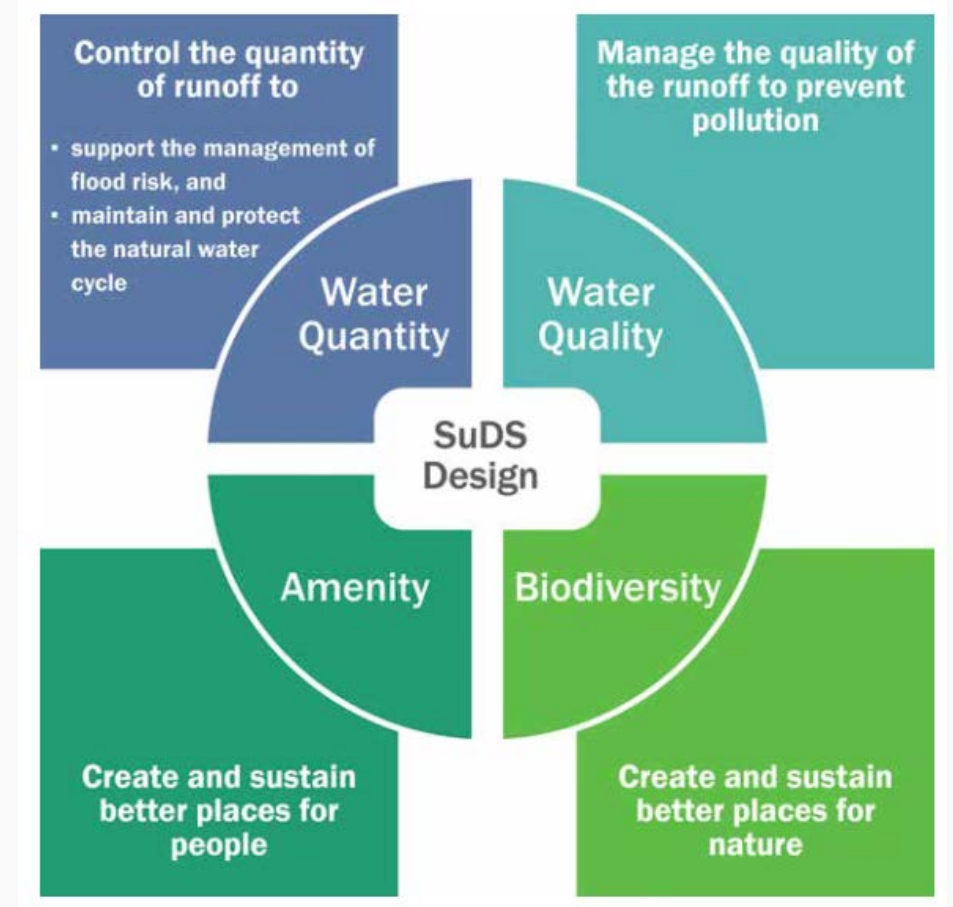
SuDS have innovative designs that collect, store and treat (reduce pollution) runoff flows, before releasing it slowly back into the river environment.



# SUSTAINABLE URBAN DRAINAGE SYSTEMS

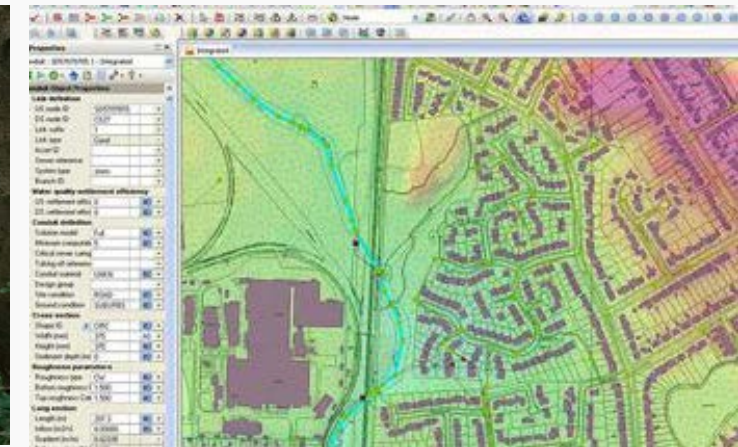
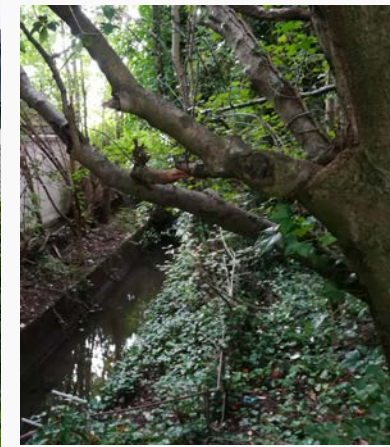
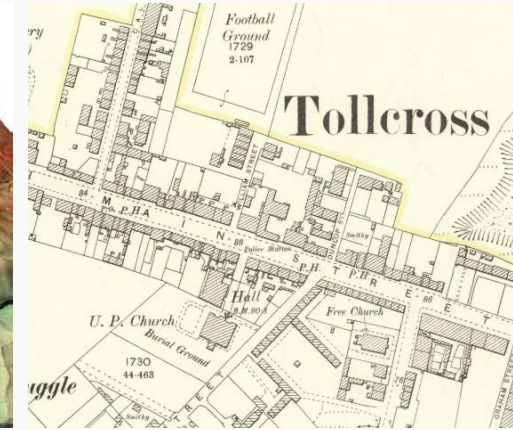
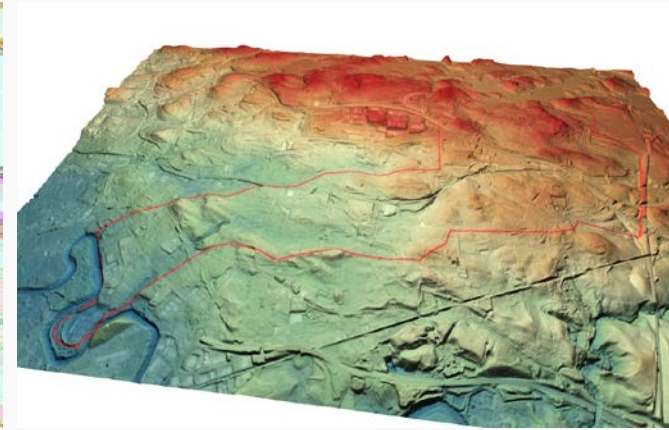
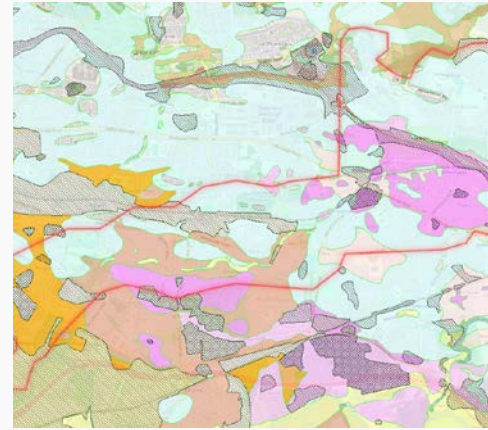
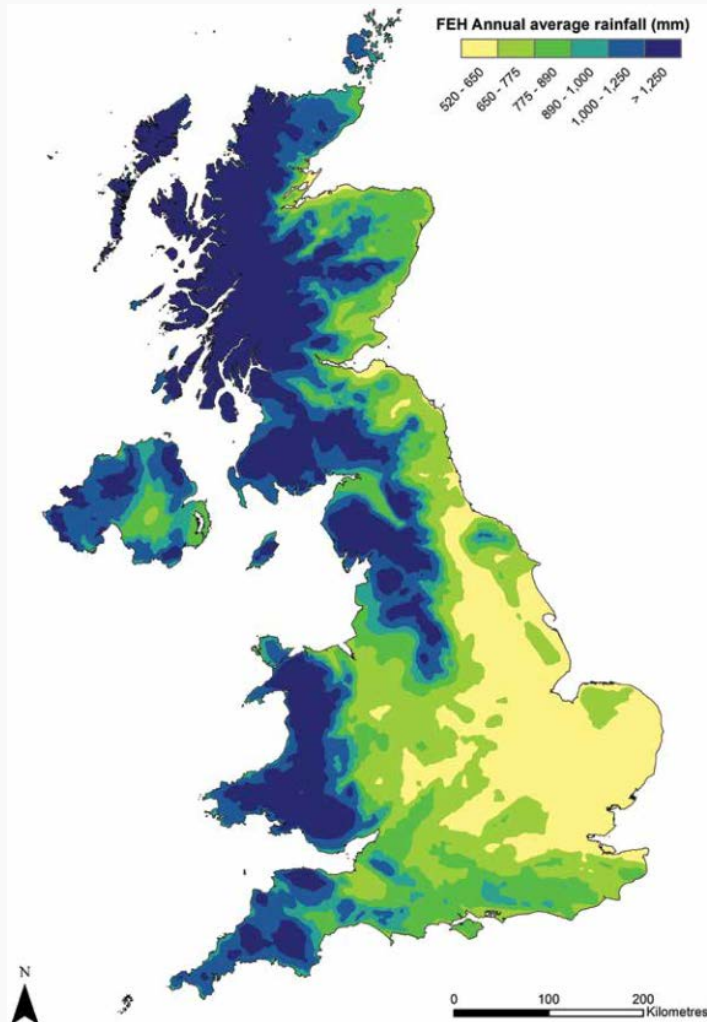


# SuDS Benefits



# What's going on in Tollcross?

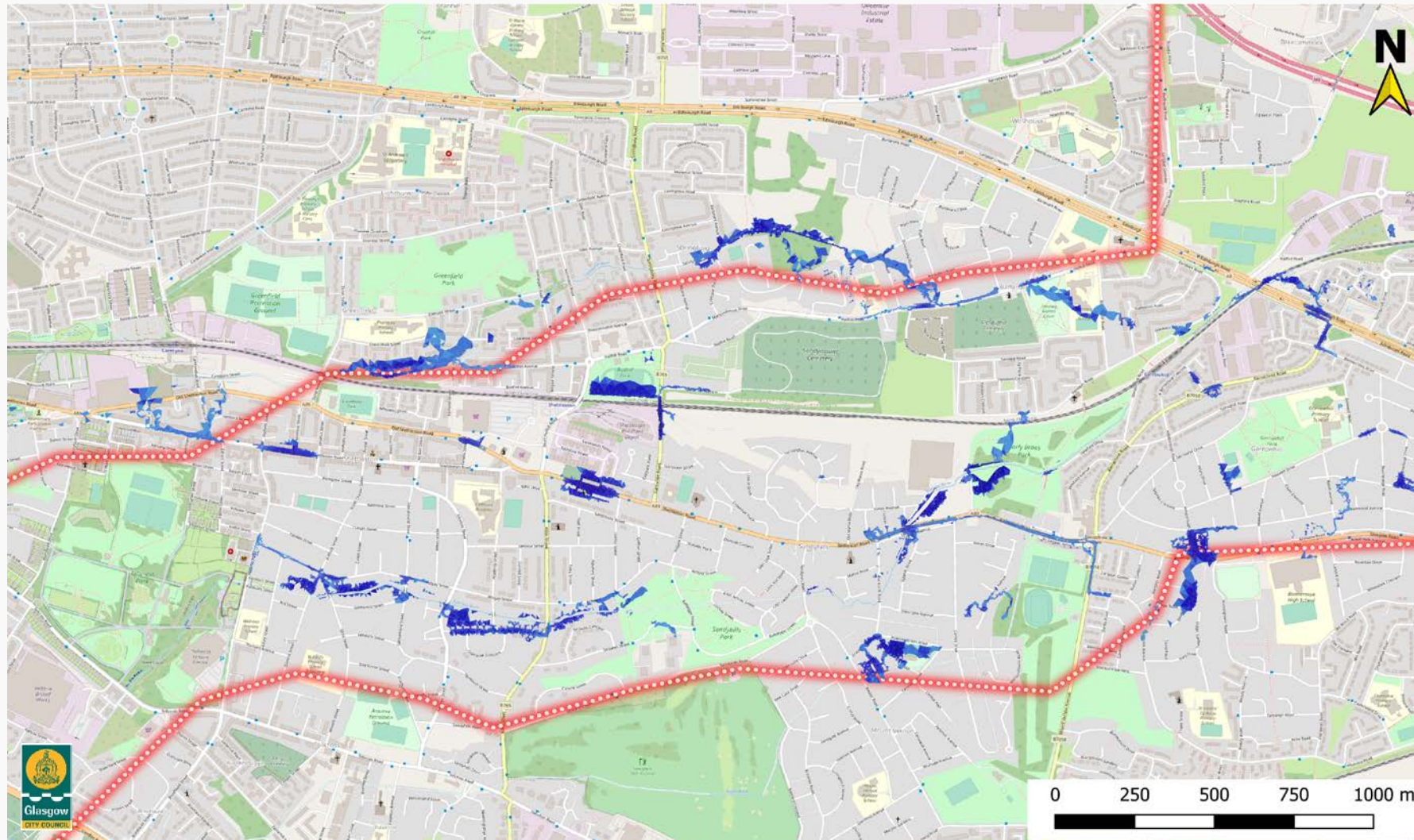
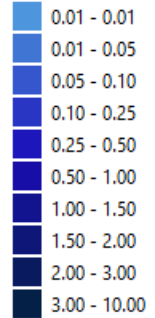
We collected and analysed the available data covering a wide range of features, and using computer models we predict which areas are most likely to flood during heavy rainfall events.





# Predicted Flooding Areas 200 year event

Legend:  
1 in 200 years Rainfall  
Event Flood depth (m)



# What are we proposing?

A number of strategies have been developed which target flooding at specific locations within Tollcross area.

A selection of the key strategies are presented in the following slides.

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# Budhill Park

Sewer network predicted to start flooding at 5 year rainfall events along Gartocher Road & Terrace and from Park to underpass



# Budhill Park



Proposal is a new surface water drainage system to collect runoff from roofs and roads to the north, Day centre buildings, and east around Gartocher Terrace, Hallhill Road and Mansionhouse Drive.

Runoff is directed into basin / swales within Budhill Park.

Then discharge into Camlachie Burn to the west or into the existing combined sewer network.



# Strowan Street & Sandyhills Park

Flooding predicted along Ardgay Street and Tollcross Burn to the west of Sandyhills Park for 10 year events. Lack of capacity of the combined sewer network.



High rainfall, short duration events

# Strowan Street and Sandyhills Park



Proposal is a new surface water drainage system to collect runoff from roofs and roads around Comrie Street/Sandyhills Road, Strowan Street and Sandyhill Housing association flats.

Runoff is directed into a series of basins located in different green areas including Sandyhills Park.

Discharge into Tollcross Burn to the north.

# Early Braes Park

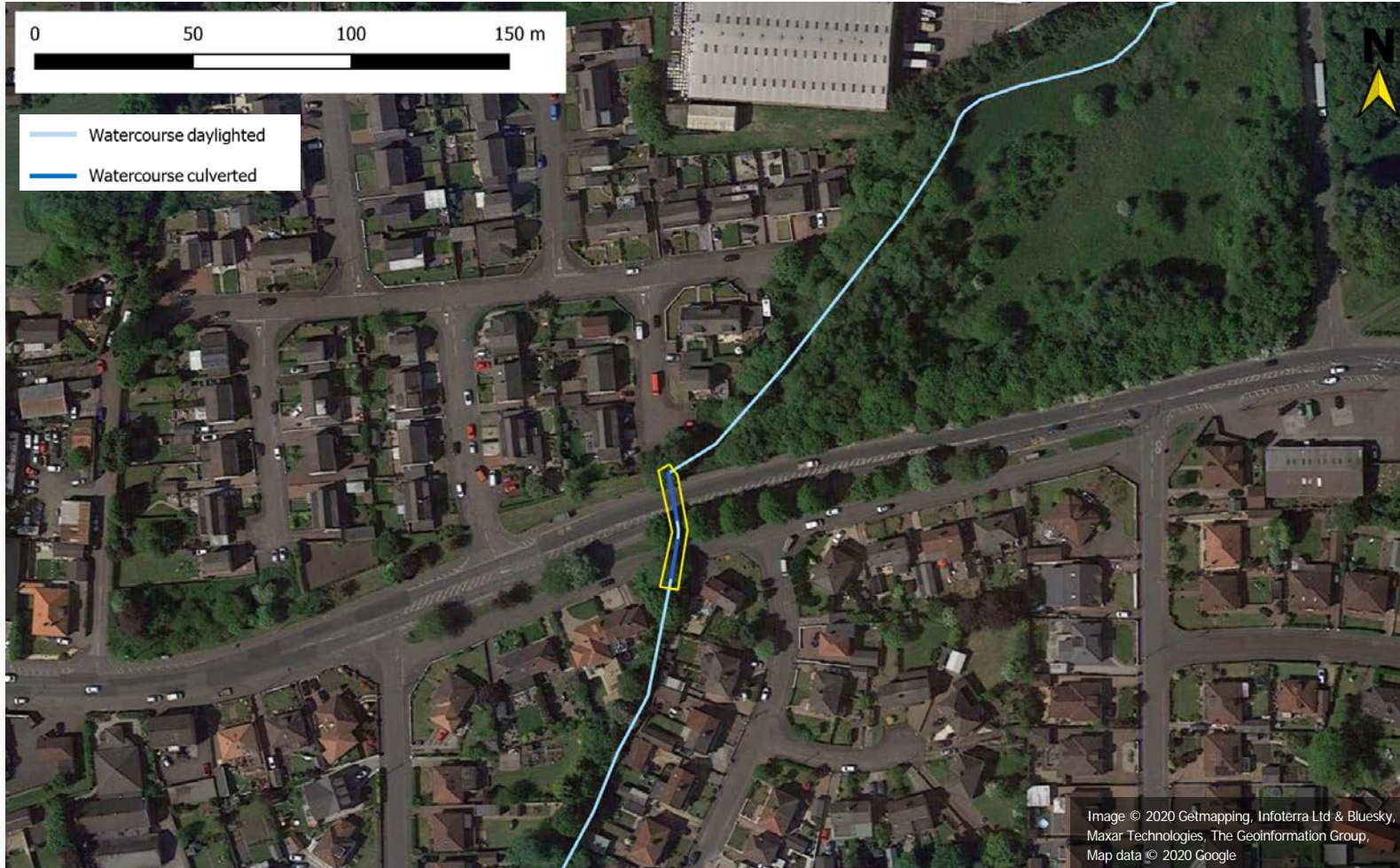
Currently, SuDS features are being implemented in Early Braes Park to disconnect roads and roofs around Pendeen Rd and Crescent.

Predicted flooding at Early Braes Park for 10 year events due to watercourse culvert lack of capacity.





# Early Braes Park



Sediment removal from the road culvert with renovation beneath Baillieston Road will improve the watercourse capacity.

# High rainfall short storms

Affected areas located at the top of drainage system. These upper drainage network areas have been reviewed for the potential to implement source control features.

These source controls would likely be located within private properties or highway areas, and their purpose is to manage rainfall close to where it falls.

Examples are rainwater harvesting and green roofs.



The following potential areas and flood zones have been identified:

- Ardgay Street with Killin Street
- Ardgay Street with Eckford Street
- Gartocher Terrace with Budhill Park
- Swinton Crescent
- Dyke Street
- Gargrave Ave with Mount Vernon Ave





# Thank you!

Any questions?

**We'd love to hear your suggestions and feedback!**

**Glasgow City Council**

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17<sup>th</sup> December 2020

Dr Doug Lewis