

Flood Risk Management (Scotland) Act 2009:

# Publication of Final Reports & Local Flood Risk Management Plans

Climate Change & Sustainability Committee – 16 November 2022

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# Introduction

- ▶ Background
- ▶ Public Consultation Update
- ▶ Publication of FRM Plans
- ▶ Final Reports (Cycle 1)
- ▶ Local FRM Plans (Cycle 2)
- ▶ Conclusions/Next Steps



North Muirton, Perth (1993)

# Background – Previous Flooding



Perth (1993)



Comrie (2012)



Alyth (2015)



# Background – Previous Flooding



**Queen St, Perth (12 Aug 2020)**



**Queens Ave, Perth (8 Sept 2022)**

# Background – Current/Future Flood Risk

- ▶ 2018 National Flood Risk Assessment (SEPA)
- ▶ Numbers of properties at risk of flooding increased – due to advances in assessment; not because the physical risk has changed.
- ▶ **In Perth and Kinross:-**
  - ▶ Estimated **8,700** properties currently at risk of flooding.
    - ▶ 1 in 12 residential properties
    - ▶ 1 in 7 businesses
  - ▶ By 2080, approx. **12,000** properties at risk due to climate change.



# Background – Flood Protection Works



**Perth (Tay Street)**



**Water of Ruchill, Comrie**



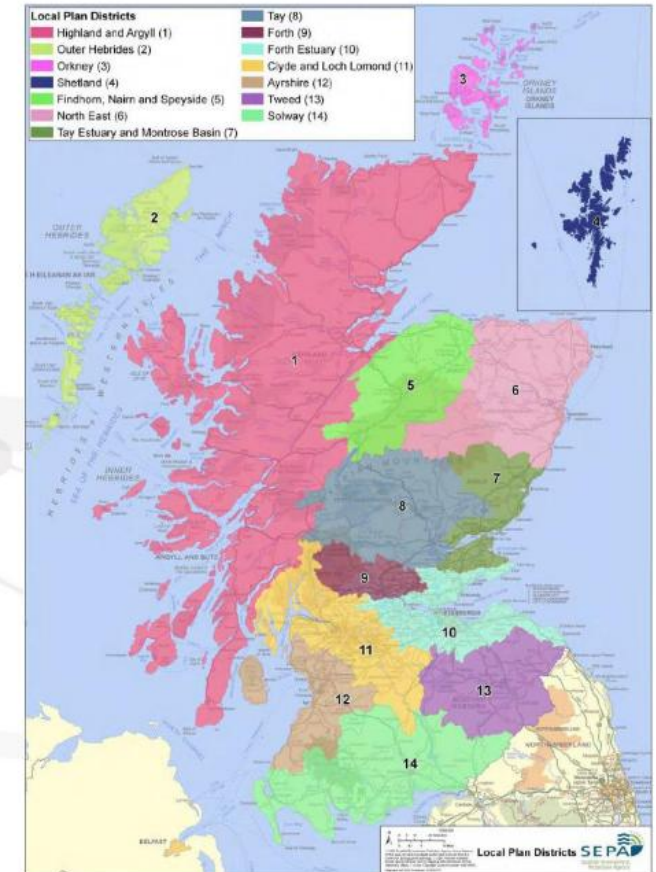
**Almondbank**

# Background - Responsibilities

- ▶ Although certain public bodies are expected to take a proactive role in managing and, where achievable, lowering overall flood risk **the ultimate responsibility for avoiding or managing flood risk still lies with land and property owners.**

# Background – Local Plan Districts

- ▶ 14 Local Plan Districts (LPDs) in Scotland
- ▶ Local Plan District Partnerships - SEPA, Scottish Water, Local Authorities, National Parks & Forestry
- ▶ Lead Local Authorities
- ▶ Tay Estuary & Montrose Basin
- ▶ Tay (Lead Authority)
- ▶ Forth
- ▶ Forth Estuary

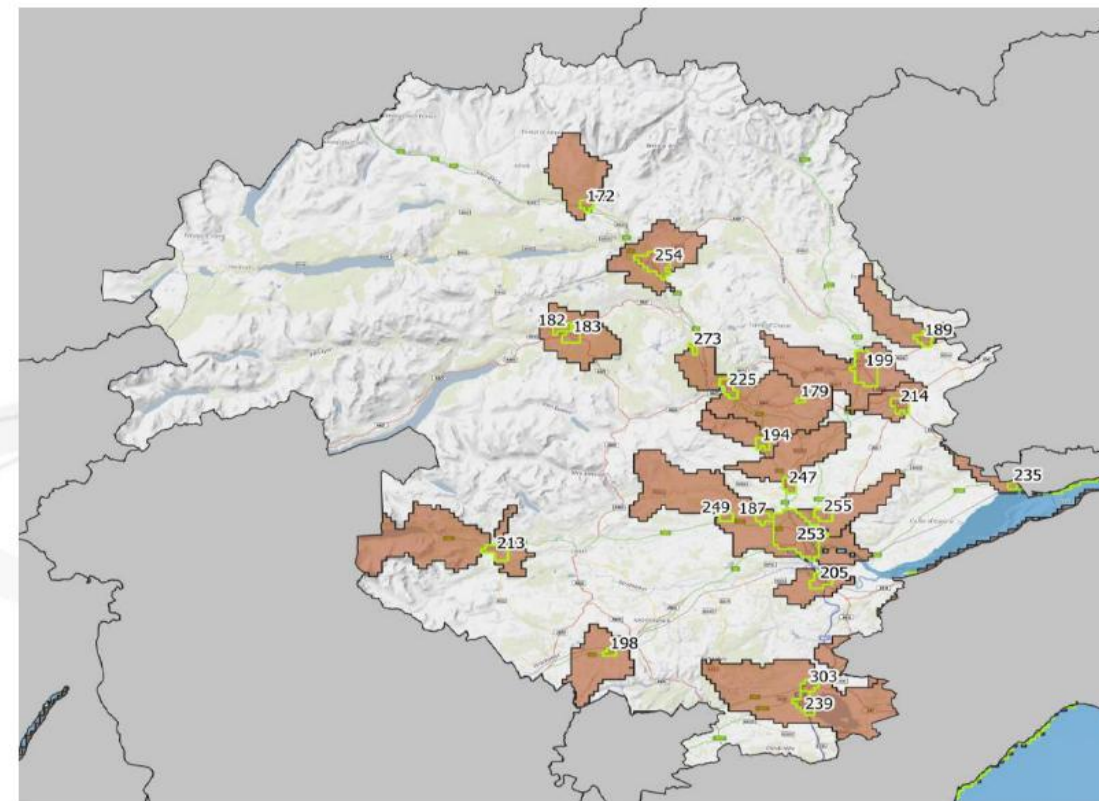




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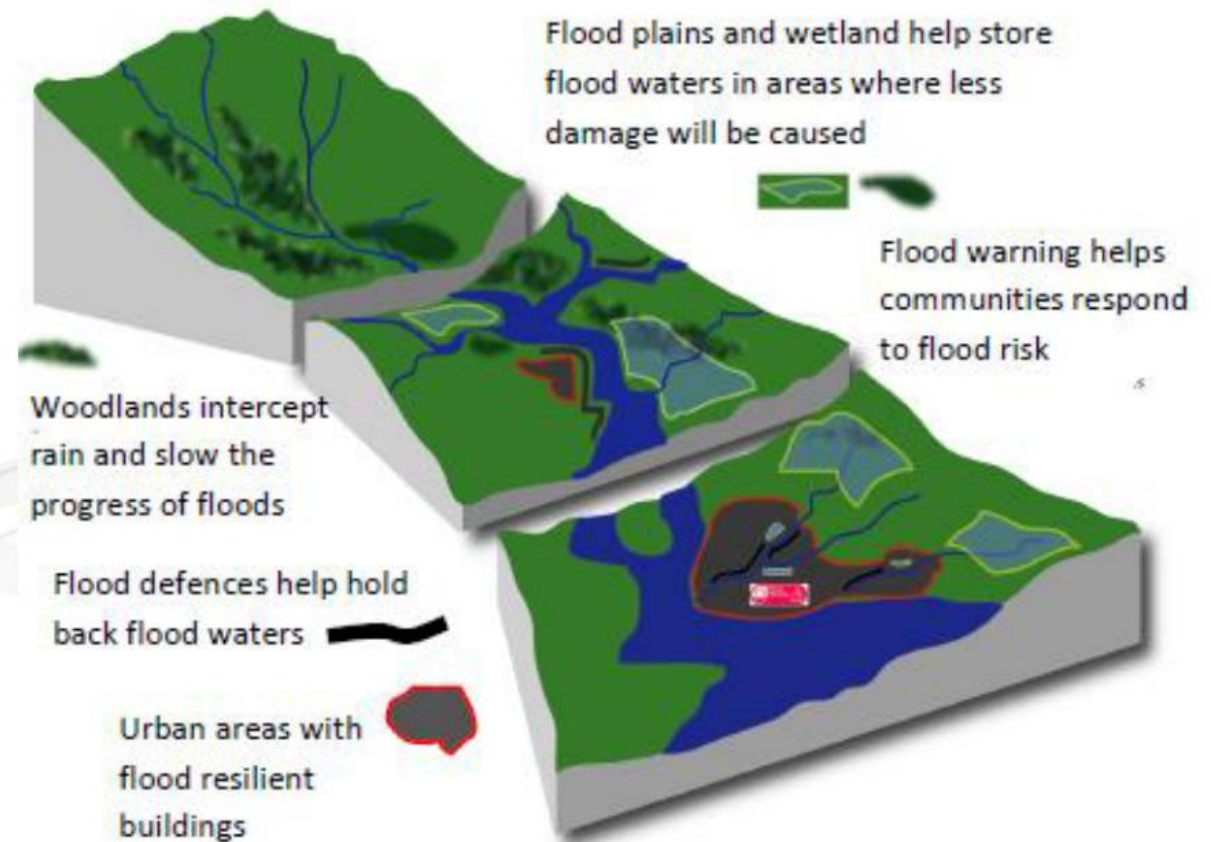
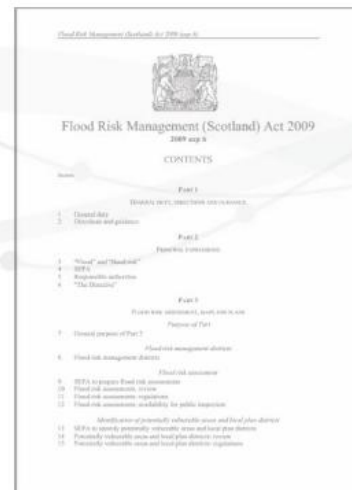
# Background – Objective Target Areas

- ▶ Objective Target Areas (OTA's)
- ▶ Identified by the 2<sup>nd</sup> National Flood Risk Assessment.
- ▶ Hotspots of flood risk within PVAs, where specific objectives and actions are needed to reduce the risk of flooding.
- ▶ Focus of action and national investment.
- ▶ Perth & Kinross Council has 22 OTAs (18 Tay, 1 TEAMB, 1 Forth, 2 Forth Estuary)



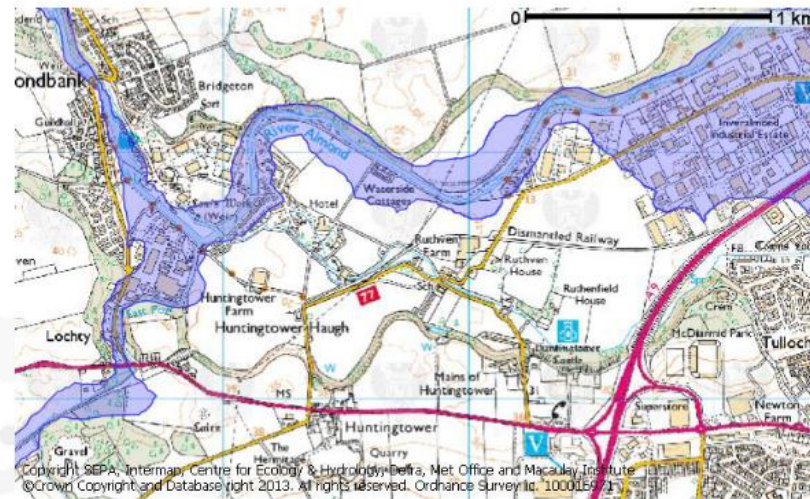
# Background – Sustainable Flood Risk Management

- ▶ Joined up and coordinated
- ▶ Catchment management approach
- ▶ Actions to tackle flood risk
- ▶ Range of structural and non-structural actions





# Background - Outputs



Flood Risk Management  
(Scotland) Act 2009:

Local Flood Risk Management Plan  
Tay Local Plan District



Published by: Perth & Kinross Council  
22 June 2016

National Flood Risk Assessment

Flood Maps

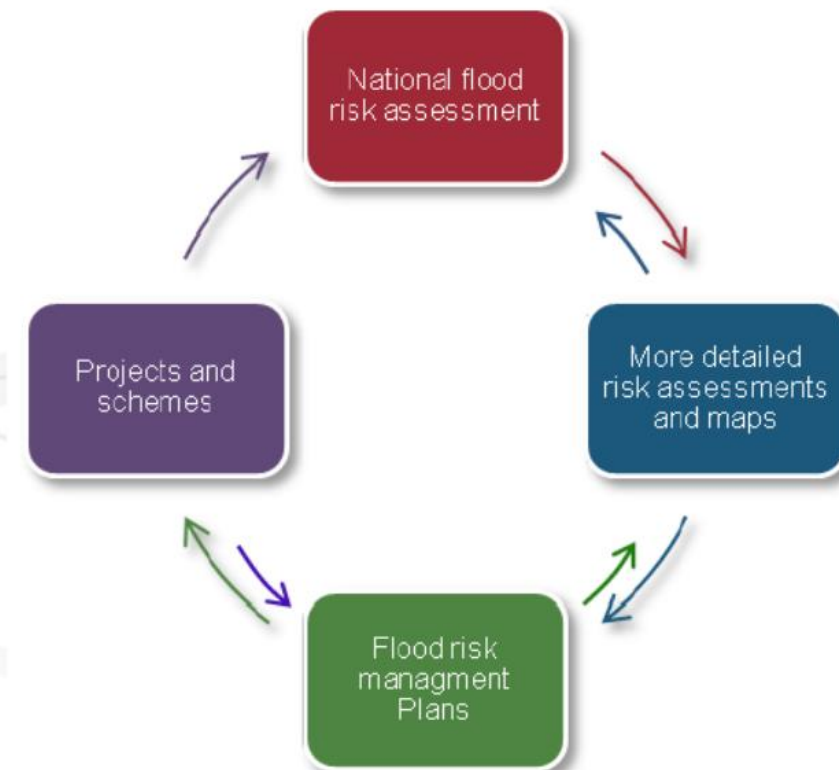
Flood Risk Management Plans

# Background - Flood Act - Timetable

## National Framework – Cycle 2

- ▶ National Flood Risk Assessment Dec 2018
- ▶ Flood Maps Dec 2020
- ▶ Flood Risk Management Plans Dec 2021
- ▶ Local Flood Risk Management Plans **Dec 2022**
- ▶ Implement Actions 2022-28

The process of risk assessment, mapping and planning repeats every 6 years.



# Background - Current Priorities

- ▶ Proposed Cycle 2 actions approved by E&I Committee 19 May 2021 ✓
- ▶ **Public Consultation** held Jul – Oct 2021 ✓
- ▶ SEPA published **Cycle 2 Flood Risk Management Plans** in Dec 2022 ✓
- ▶ Drafting **Cycle 1 Final Reports** (2016-2022)
  - ▶ progress reports, RAG status of actions
- ▶ Drafting **Cycle 2 Local Flood Risk Management Plans** (2022-2028)
  - ▶ Objectives and actions for managing flood risk
  - ▶ Strategic Environmental / Habitats Regs Assessments
- ▶ **Report to Climate Change & Sustainability Committee – Dec 2022**



# Update on Public Consultation

- ▶ Arrangements approved by E&I Committee on 19 May 2021
- ▶ National web-based exercise carried out jointly with SEPA and local authorities
- ▶ Phased approach:
  - ▶ Phase 1: 21 Commenced Dec 2020; Catchment Characterisation Information
  - ▶ Phase 2: 30 July – 31 Oct 2021; Proposed Objectives & Actions (for 2022-28)
- ▶ 35 responses received relevant to Perth & Kinross Council
- ▶ Responses used by SEPA to inform published FRM Plans and the Council's proposed Local FRM Plans (to be published Dec 2022)

# What Did Consultees Say?

- ▶ Common themes:
  - ▶ On-going flooding of increasing frequency in various areas – mainly in Perth.
  - ▶ Flood affected area was outside of a PVA.
  - ▶ Timescales – seeking clarification or requests to accelerate works.
  - ▶ Increased flood risk due to development.
- ▶ Any concerns raised are considered to have been addressed by the development of SEPA's FRM Plan, and the actions set out in the proposed Local FRM Plans (e.g. flood studies, flood schemes and on-going flood risk management responsibilities)

# Publication of SEPA's FRM Plans

- ▶ SEPA published Flood Risk Management Plans on 22 December 2022
- ▶ Cover 14 Local Plan Districts in Scotland
- ▶ Set out objectives & actions to be implemented by SEPA and responsible authorities in Cycle 2 (2022-2028)
- ▶ Perth & Kinross Council input to 4 districts (Tay, TEAMB, Forth & Forth Estuary)
- ▶ Actions consistent with those reported to E&I Committee on 19 May 2021
- ▶ FRM Plans can be viewed on SEPA's website: **[www2.sepa.org.uk/frmplans/](http://www2.sepa.org.uk/frmplans/)**



# Final Reports - Cycle 1 (2016-2022)

- ▶ **Interim Report** – mid point of 6 year cycle (2-3 years after publication of Local FRM Plan)
  - ▶ Published in March 2019: [www.pkc.gov.uk/frmplans](http://www.pkc.gov.uk/frmplans)
- ▶ **Final Report** – end of 6 year cycle (5-6 years after publication of Local FRM Plan)
  - ▶ To be published by Lead Local Authority prior to end Dec 2022
- ▶ Developed in partnership with SEPA and responsible authorities
- ▶ Sets out progress made in implementing the actions in the Local FRM Plan, any actions not implemented and any other action taken.

# Final Reports – RAG Status

- ▶ Assessment of progress against dates in June 2016 Local FRM Plan.
- ▶ Actions allocated green, amber or red status:-
  - ▶ **GREEN** – Action has been completed.
  - ▶ **AMBER** – Action has commenced but has not progressed as quickly as planned.
  - ▶ **RED** – Action has not commenced.

# Final Report – Tay LPD Conclusions

- ▶ Introduction of the Flood Act has initially led to improved partnership working and data sharing between SEPA and the responsible authorities. However, this has been affected by the Covid-19 pandemic and the cyber-attack on SEPA
- ▶ The published Tay Local FRM Plan has remained current and relevant.
- ▶ Progress summary (Tay District) – **182 selected actions** (**156 green**; **22 amber**; **4 red**)
- ▶ Since publication in June 2016, in general, good progress has been made over the initial 4 years of the first cycle, despite a relatively slow start.
- ▶ Progress was initially delayed by the response required to Storms Frank and Desmond, which required additional actions to be implemented. Staff resources were required to complete on-going investigations into flood schemes and to carry out public consultation.



# Final Reports – Tay LPD Conclusions

- ▶ Procurement of sufficient consultancy services initially also proved problematic.
- ▶ With relatively few flood events since early 2016, more steady progress was made, however, this changed in March 2020 with the start of the national Covid-19 lockdowns, and the severe flooding of August 2020 further exacerbated this situation.
- ▶ All flood studies are complete or are on-going, with only two to commence.
- ▶ Progress on the larger and more complex flood protection schemes has been further delayed. The large flood protection scheme in Almondbank was completed in 2018 and the construction of a further scheme in Comrie has commenced.
- ▶ The responsible authorities involved in progressing the Tay LRM Plan are also working in other local plan districts and their resources have to be split accordingly.

# Local FRM Plans – Cycle 2 (2022-2028)

SEPA - **FRM Plans** (2021-2027) (published Dec 2021)

Lead Local Authorities - **Local FRM Plans**:

- ▶ Period 2022-2028
- ▶ To be published by 31 Dec 2022
- ▶ Supplementary Part – consistent with FRM Plan
- ▶ Implementation Part – responsibilities, timescales & funding arrangements.
- ▶ Developed in partnership
- ▶ Informed by public consultation

Action (ID):	<b>FLOOD PROTECTION STUDY (80040005)</b>		
Objective(ID):	Reduce economic damages to residential and non-residential properties in Pitlochry from the River Tummel and small watercourses (8004)		
Delivery Lead:	Perth and Kinross Council		
Priority:	National: 25 of 168	Local Authority: 1 of 6	Within LPD: 2 of 7
Status:	Not Started	Planned Delivery Period:	2016 - 2018
Description:	A flood protection study has been recommended for Pitlochry to assess whether flood storage, sediment management, modification of conveyance and installation/ modification of fluvial control structures could reduce flood risk. The study should also consider property relocation. The study should build on the previous study carried out by Perth and Kinross Council in 2007 and consider flooding from small watercourses as well as the main river. The study should take a catchment approach and consider the potential benefits and dis-benefits and interaction between actions upstream and downstream.		
Coordination Arrangement:	The study is programmed to commence in the 2016/17 financial year. Perth and Kinross Council will engage a consultant to investigate the fluvial flood risk and identify potential options for managing that risk. The study will be coordinated through the LPD Partnership and with other related actions.		
Related Actions:	Awareness raising, self-help, maintenance, strategic mapping & modelling		
Funding Arrangement:	The study will be subject to funding from Perth and Kinross Council's revenue budget.		

# Local FRM Plans – Contents

- ▶ Catchment Characterisation
- ▶ Objective Setting:
  - ▶ The outcome from the 2<sup>nd</sup> National Flood Risk Assessment;
  - ▶ Any on-going actions in current Local FRM Plans;
  - ▶ The outcome from Cycle 1 flood studies.
  - ▶ e.g. *“Reduce the risk of river flooding from the Craigie Burn in Perth.”*
- ▶ Selected Actions
- ▶ Prioritisation
- ▶ Responsibilities, timescales & funding arrangements.



# Local FRM Plans - Actions

## **General Actions (apply across the Local Plan District):-**

- ▶ Awareness raising, the provision of data to support climate resilience, links with emergency planning, flood forecasting and warning, developing guidance, flood mapping, land use planning, maintenance (of drainage networks, and watercourse clearance and repair works) and self-help (including individual property flood measures).

## **Specific Actions (apply to OTA's, where relevant):-**

- ▶ Flood Protection Scheme or Works, flood studies, surface water management plans, maintain flood protection scheme, community engagement, community resilience groups, maintain flood warning, adaptation planning and sewer flood risk assessment.

# Flood Schemes (Cycle 1)

- ▶ Flood Protection Schemes – 2016 national priority list included 42 schemes.
- ▶ Scottish Govt 80% capital grant
- ▶ Perth & Kinross 20% capital programme
- ▶ Perth & Kinross Flood Schemes:
  - ▶ Comrie (No 7; £28M)
  - ▶ Milnathort (No 19; £2M)
  - ▶ South Kinross (No 28; £4M)
  - ▶ Scone (No 34; £0.8M)
  - ▶ Bridgend, Perth (N/A; £0.3M)

Priority	Council	Scheme
1	Falkirk Council	Grangemouth FPS
2	Dundee City Council	Broughty Ferry
3	Inverclyde Council	Inverclyde FPS - Glenmosston Burn
4	Inverclyde Council	Inverclyde FPS - Covas Burn
5	Dundee City Council	Dundee
6	Orkney Islands Council	Kirkwall
7	Perth & Kinross Council	Comrie
8	Fife Council	Kinness Burn
9	Inverclyde Council	Inverclyde FPS - Bouverie Burn
10	North Ayrshire Council	Millport Coastal
11	East Lothian Council	Musselburgh
12	North Ayrshire Council	Upper Gamock FPS
13	East Dunbartonshire Council	Park Burn
14	Comhairle nan Eilean Siar	South Fords
15	Argyll & Bute Council	Campbeltown
16	Scottish Borders Council	Hawick
17	Angus Council	Arbroath
18	Dumfries & Galloway Council	Dumfries/ River Nith/ Whitesands FPS
19	Perth & Kinross Council	Milnathort
20	The Highland Council	Smithton and Culloden
21	Dumfries & Galloway Council	Stranraer work item 4 & 6
23	The Highland Council	Caol and Lochyside
24	Dumfries & Galloway Council	Langholm
25	Dumfries & Galloway Council	Newton Stewart/ River Cree
26	Glasgow City Council	White Cart Water Phase 3
27	East Ayrshire Council	New Cumnock
28	Perth & Kinross Council	South Kinross
29	West Dunbartonshire Council	Gruggies Burn
30	North Ayrshire Council	Mill Burn Millport
31	Highland Council	Drumnadrochit
32	Aberdeenshire Council	Stonehaven
33	Aberdeenshire Council	Huntly
34	Perth & Kinross Council	Scone
35	Stirling Council	Bridge of Allan
37	East Lothian Council	Haddington
38	Moray Council	Newmill
39	Glasgow City Council	Camlachie Burn
40	Stirling Council	Stirling
41	Inverclyde Council	Quarrier's Village
42	Stirling Council	Callander

# Local FRM Plans – Flood Schemes

- ▶ Scottish Govt/COSLA **Review of Capital Grant Funding** on-going.
- ▶ **Cycle 1 Flood Schemes:**
  - ▶ Comrie, Milnathort & South Kinross on-going (funding in place);
  - ▶ Scone paused (will progress at a later stage).
- ▶ **Cycle 2 Flood Schemes:**
  - ▶ Pitlochry, Aberfeldy, Blackford & Bridgend, Perth;
  - ▶ No clarity on funding or timescales;
  - ▶ Progress remains subject to funding.



# Local FRM Plans – Flood Studies

- ▶ 10 Flood Studies:
  - ▶ On-going: Dunkeld, Perth (IFOS), Alyth, Craigie Burn (Perth)
  - ▶ To commence: Scone, Perth (ICS), Bridge of Earn, Luncarty, Blair Atholl & Methven
- ▶ 7 Surface Water Management Plans:
  - ▶ On-going: Milnathort, Perth, Blairgowrie & Rattray
  - ▶ To commence: Scone, Comrie, Kinross & Aberfeldy
- ▶ Final draft Local FRM Plans will set out timescales.

# Conclusions / Next Steps

- ▶ Report to Climate Change & Sustainability Committee in December 2022
  - ▶ Committee to approve Final Reports and Local FRM Plans
  - ▶ Publish Final Report and Local FRM Plan by 31 December 2022
- ▶ Continue to implement actions set out in FRM Plans and Local FRM Plans.
- ▶ Cycle 2 Interim Report June 2024 – June 2025
- ▶ Commence Cycle 3 - Review/update NFRA, flood maps, FRM Plans and Local FRM Plans.

# Thank You

## Any Questions?

