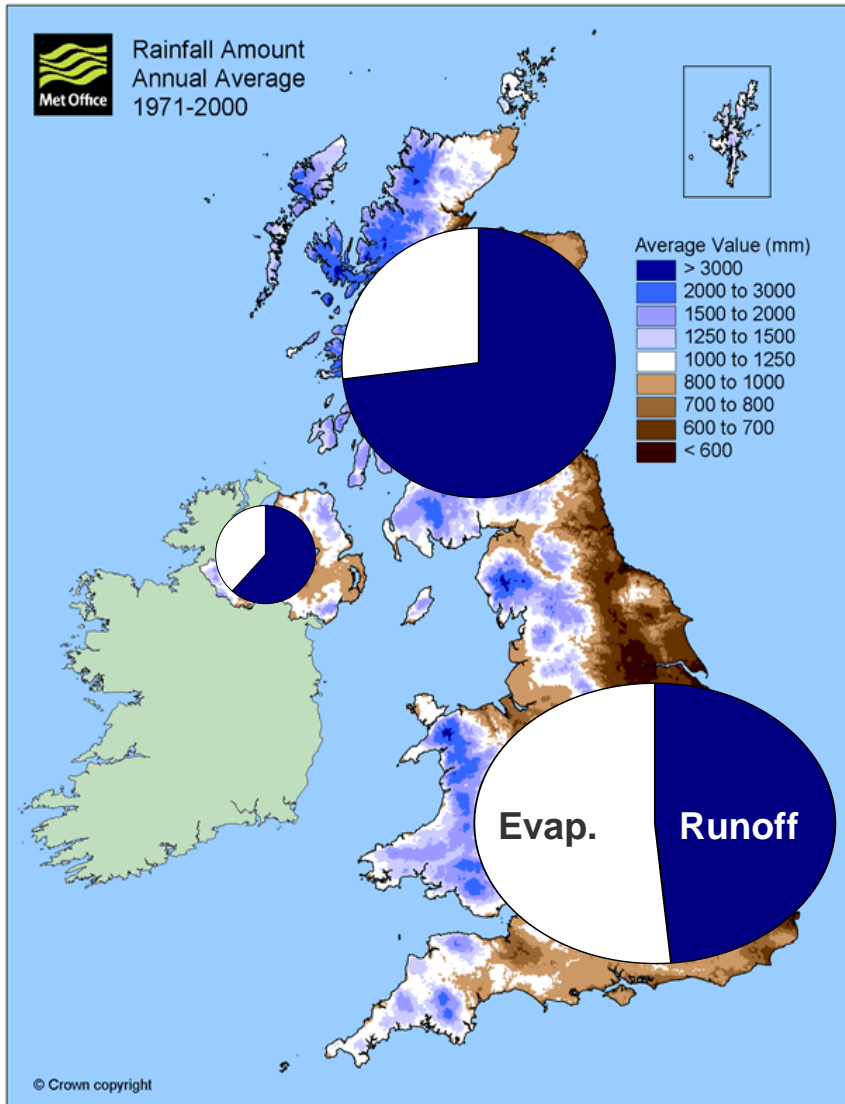


Natural Flood Management in Scotland

Dr Roy Richardson
Principal Policy Officer
Scottish Environment Protection Agency

Rainfall Distribution

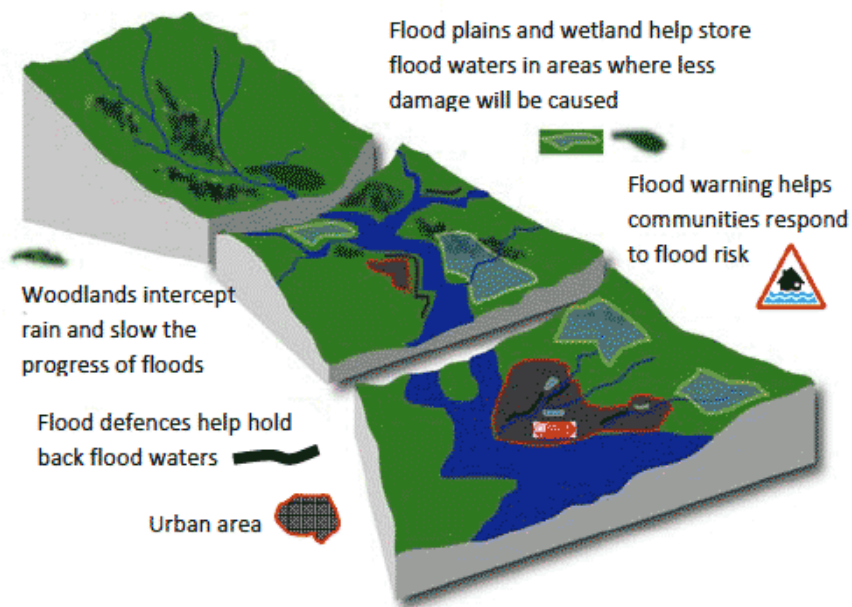


	Average Rainfall Depth (mm)	Run Off Volume (Km ³)
Scotland	1435	83
Northern Ireland	1060	9
England & Wales	895	66



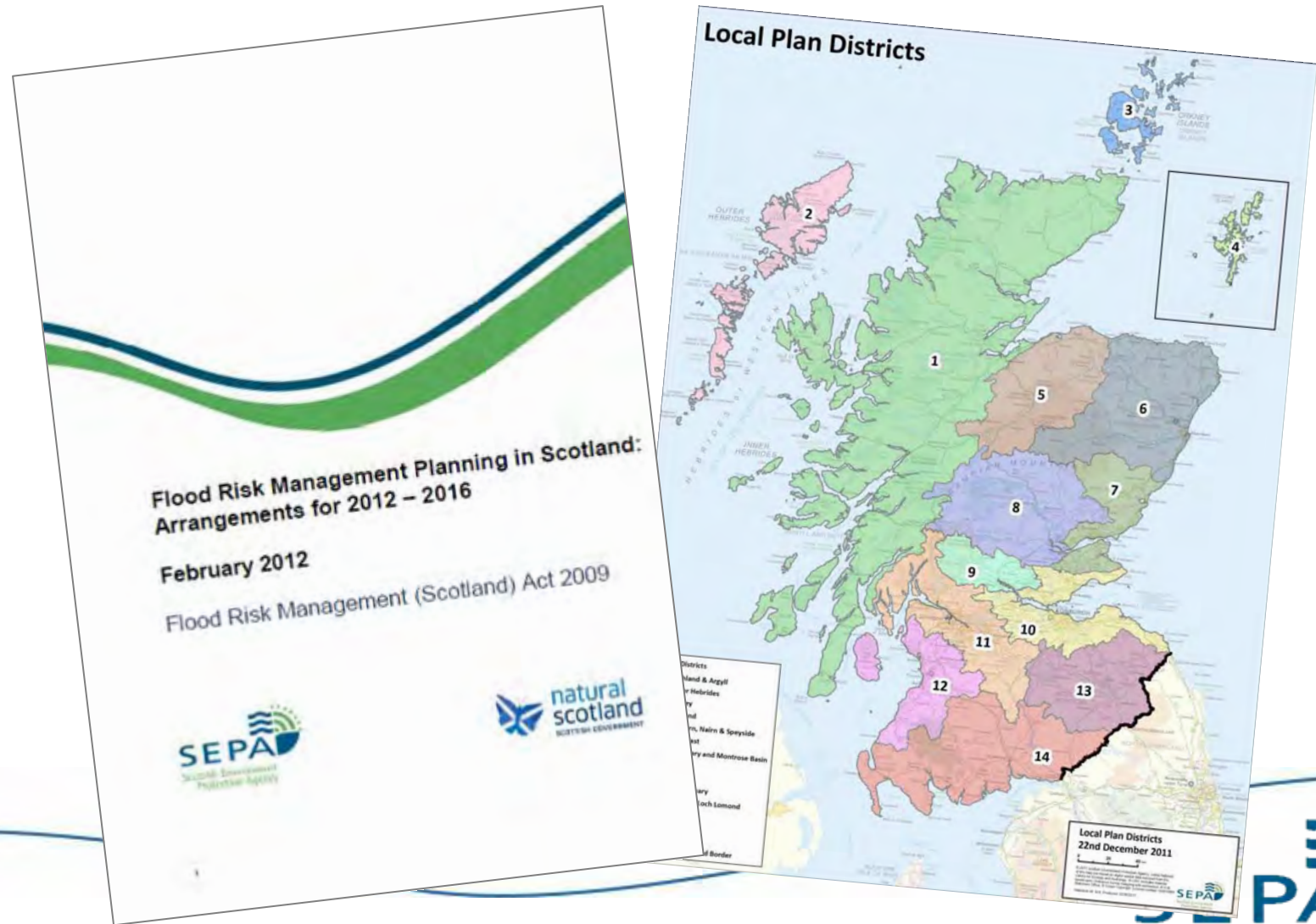


Flood Risk Management



- plan-led
- risk-based
- catchment approach
- integrated across all sources
- considers all actions
- collaboration between SEPA, local authorities and Scottish Water

Flood Risk Management in Scotland



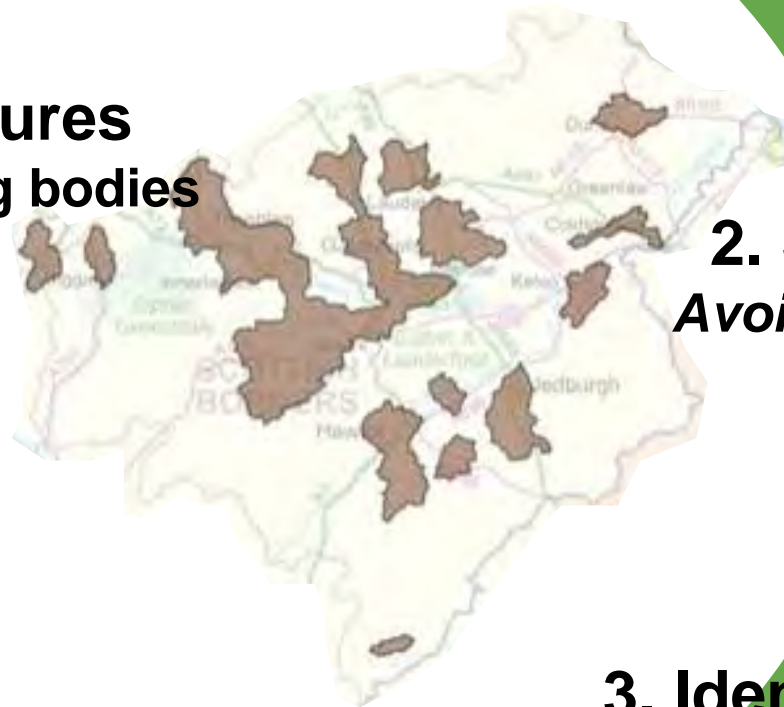
1. Define the problem
Mapping and assessments

2. Set Objectives
Avoid, Protect, Prepare

3. Identify Measures
What's practical and feasible?

4. Appraisal of Measures
Costs and Benefits

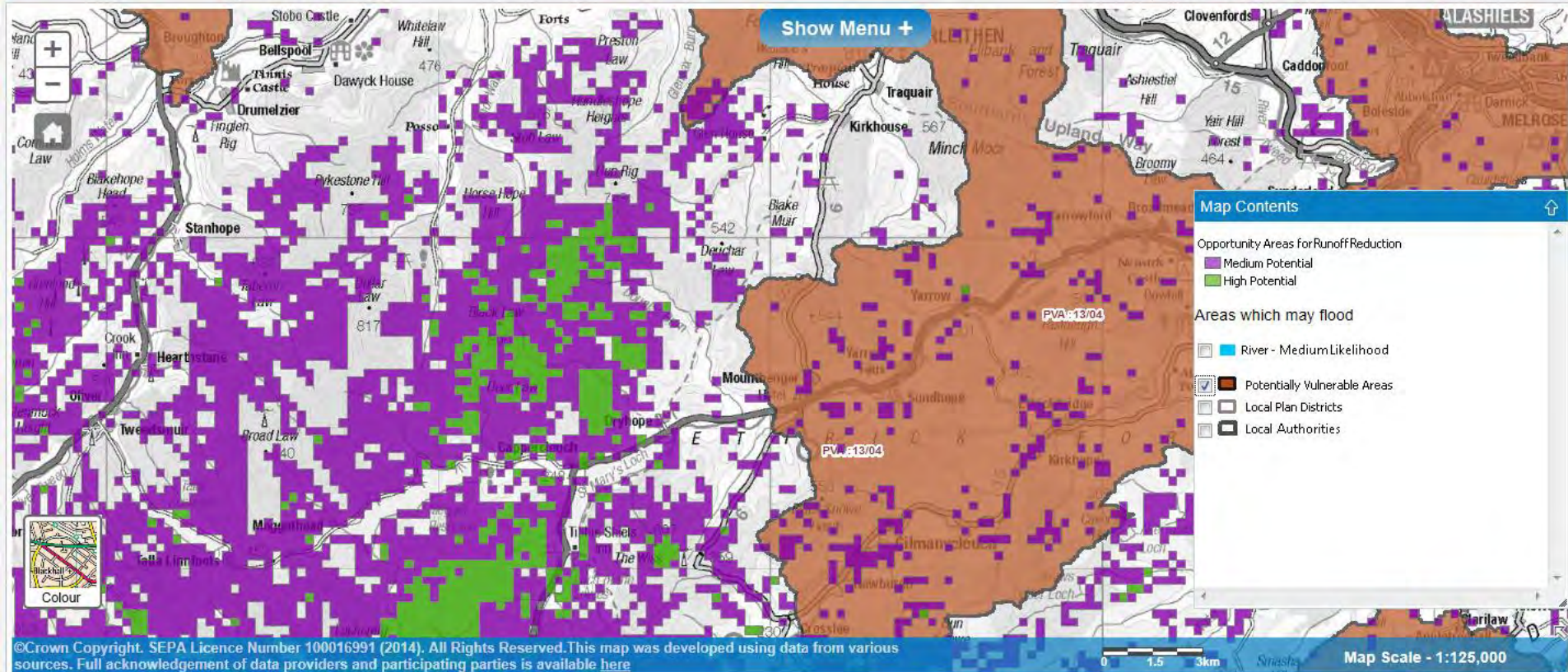
5. Prioritise Measures
Agreement with funding bodies



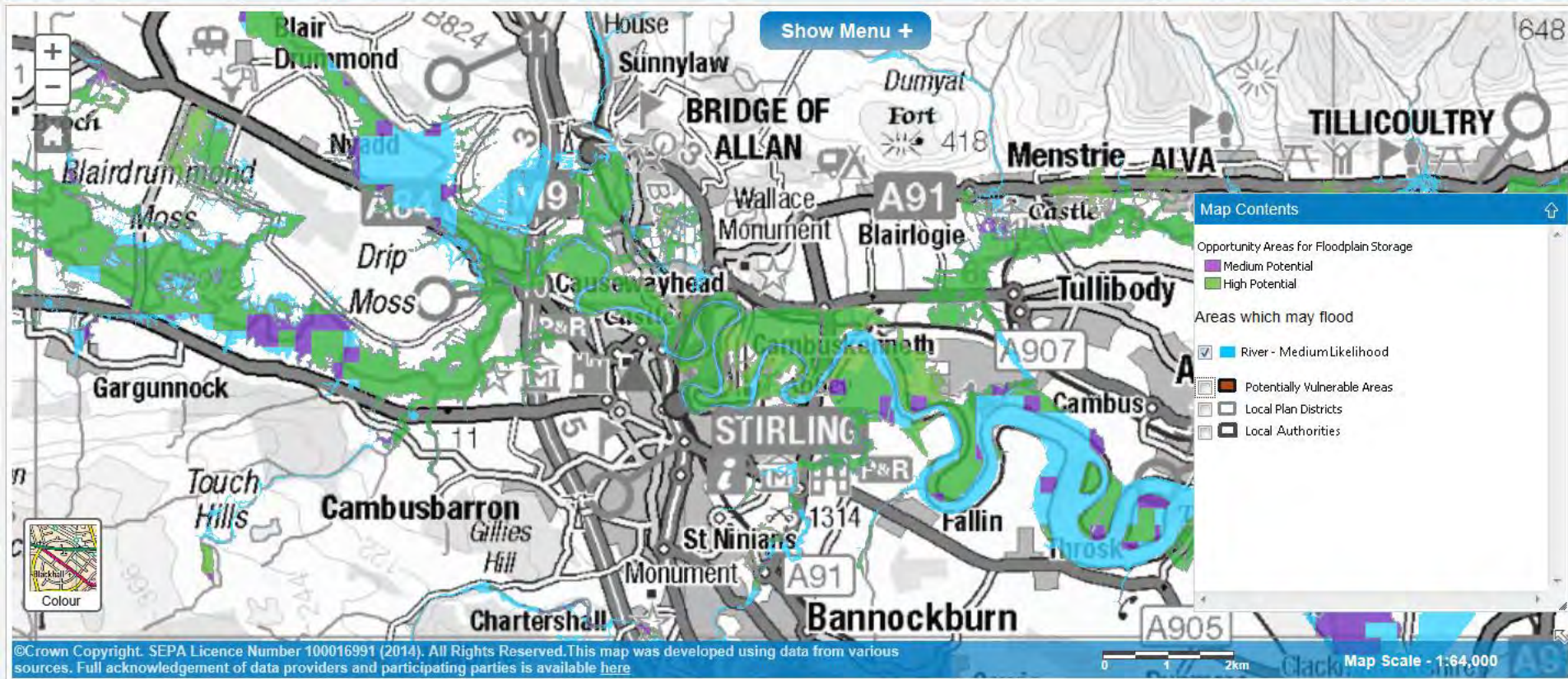
New Flood Maps



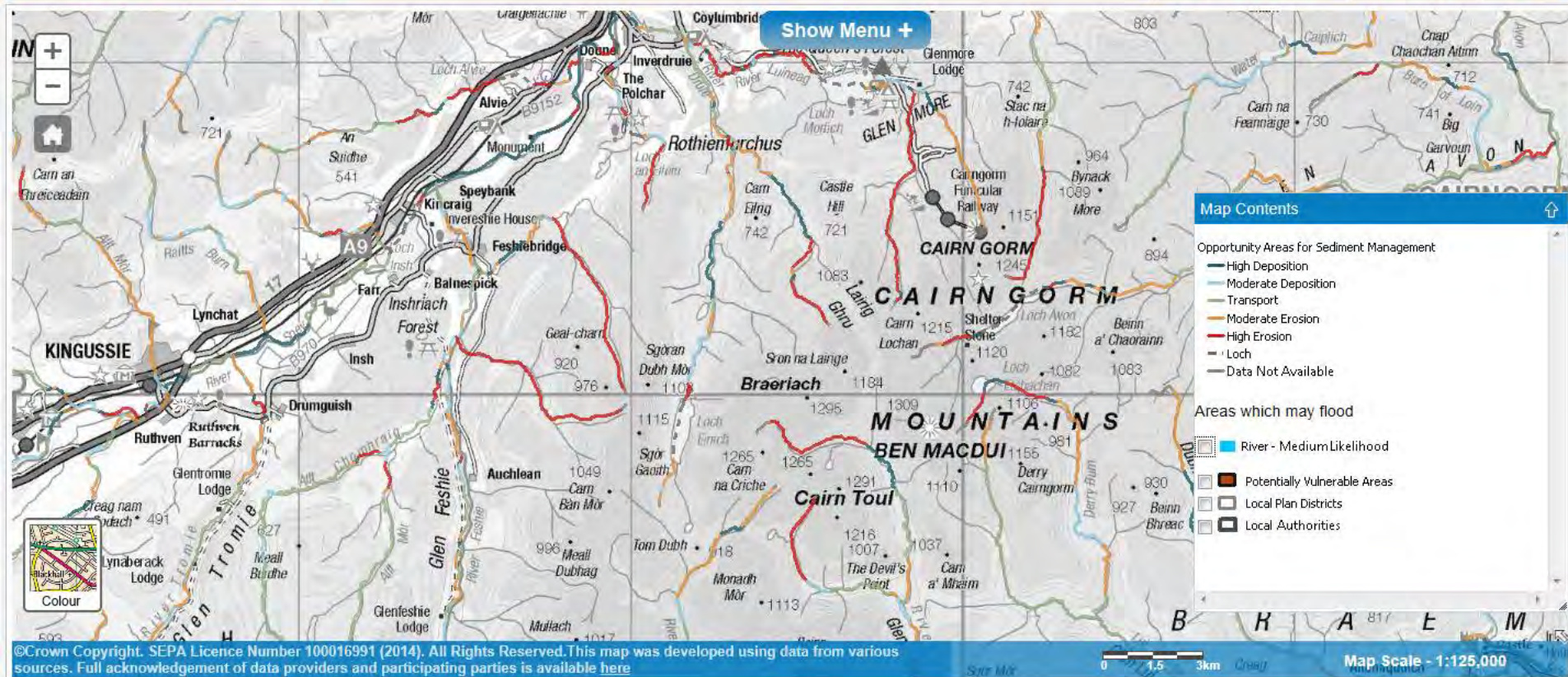
Runoff Reduction



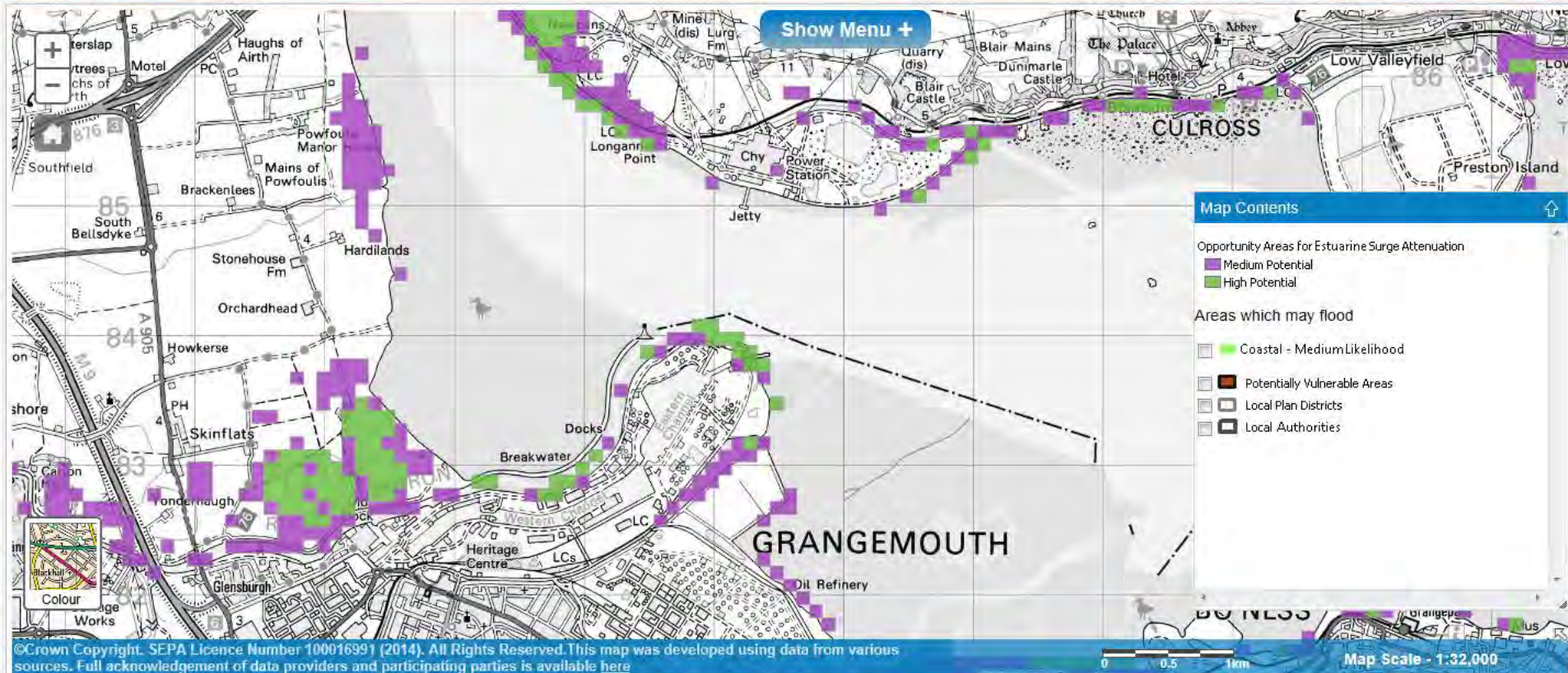
Floodplain Storage



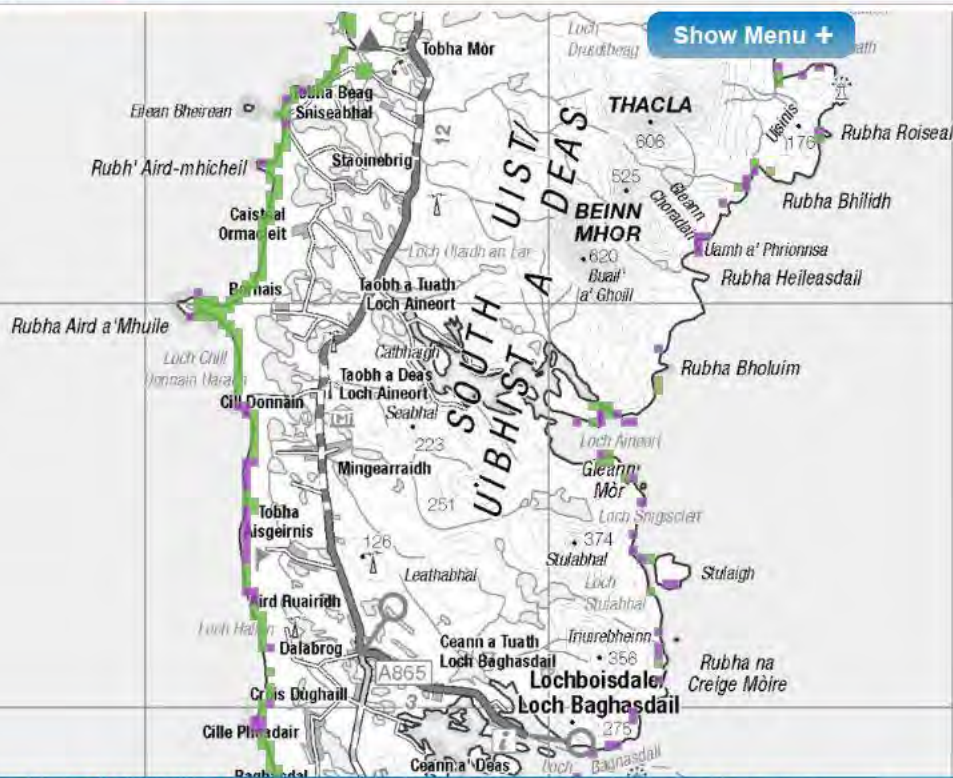
Sediment Management



Estuarine Surge




Wave Energy Dissipation



Show Menu +



[Map Contents](#)

Opportunity Areas for Wave Energy Dissipation


 Medium Potential
 High Potential

Areas which may flood

 Coastal - Medium Likelihood

  Potentially Vulnerable Areas

 Local Plan Districts

 Local Authorities

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Map Scale - 1:125,000

NFM Measures



Pilot Catchments



Links to WFD

- Priorities for 2nd RBMPs in Scotland, include;
 - Diffuse Agricultural Pollution
 - Hydro-morphology
- 4 Restoration/NFM Pilot Catchments
 - River Nith, Dee, South Esk & Glazert Water
- 14 Diffuse Pollution Priority Catchments
- Water Environment Fund

Other Work

- SEPA - NFM Handbook 2014
 - summary of measures, engagement, step-by-step guide
- CREW project CRW2012/6 – “LAND MANAGEMENT FOR INCREASED FLOOD RESILIENCE”
- EA/Defra Projects – including “Working with Natural Processes” RnD programme

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