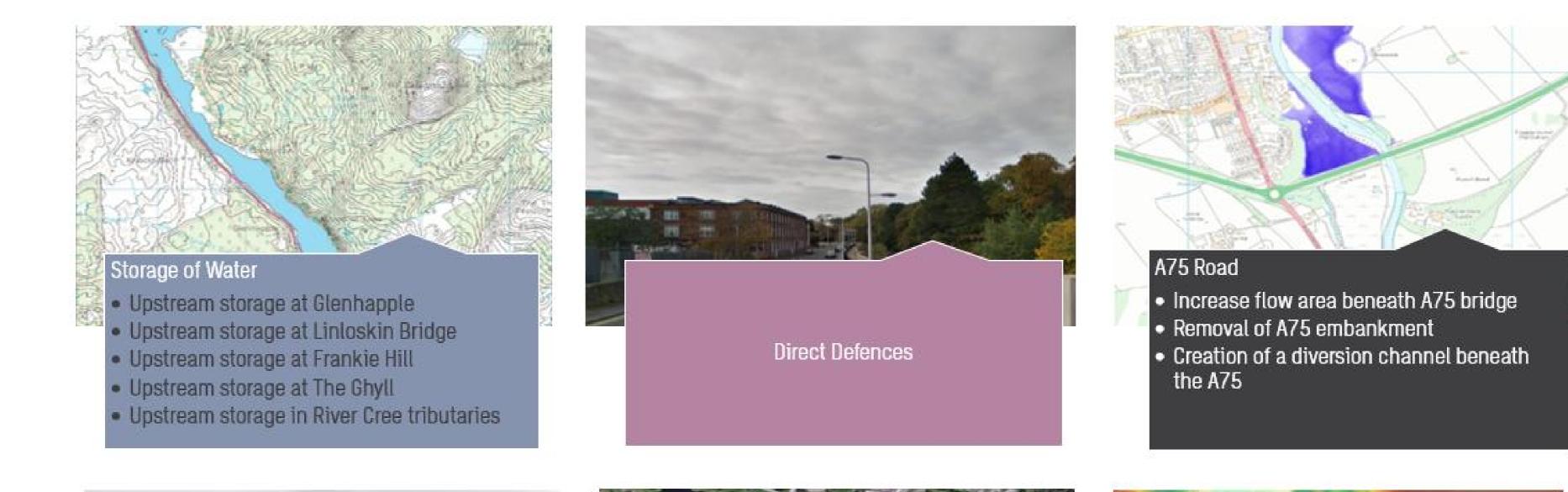
# Newton Stewart FLOOD PROTECTION SCHEME

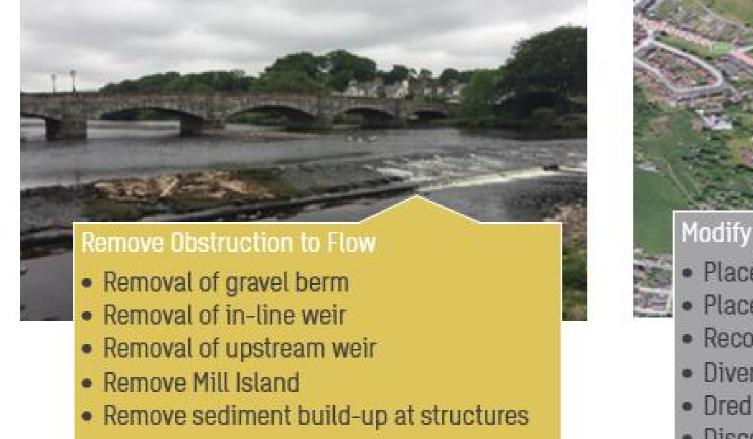


## Board 2: Progress to Date – Long List to Preferred Option

Long-List Options

The Long-list comprised the 'list of all possibilities' – no matter how likely they were to progress.







#### Modify River Channel

- Placement of obstruction (River Cree)
- Placement of obstruction (Penkiln Burn)
  - Reconnect Penkiln Burn upstream
  - Diversion of Penkiln Burn
  - Dredge Channel
  - Disconnect former mill lade



#### Reprofile Land

- Reprofile land at Broomisle
- Reinstate flood banks in upper catchment
- Reprofiling of land around pumping station
- Mitigation of forest management

All of these options were considered and narrowed down to a short list at the VM1 meeting. Several options were proven not to reduce flood risk, or unsuitable due to other constraints.

### The Short List included the below options which were discounted:

Installation of Obstructions on	Upstream Storage at	Additional Flood Relief Culverts
the River Cree	Linloskin Bridge	Beneath A75
Storage area was found to be significantly	Obstructions placed in river slowed flow	Ground levels near to the A75
below what would be required to impact	at less intense stormed, but were	embankment eliminated any impact
flooding within the town.	ineffective during extreme events.	additional culverts would provide.
Reinstate Storage Area at Water	Upstream Storage at The	Upstream Storage in
of Minnoch	Ghyll	River Cree Tributaries
Storage area was found to be significantly below what would be required to impact	Presence of former lead mine a pollution risk. High cost of relocating roads, services	Small number of impoundments yielded no improvement. Prohibitively high

number of impoundments required.

Further investigations, modelling , and public and stakeholder engagement followed, allowing the selection of a preferred option.

## The Preferred Option

The preferred option comprises a combination of options:

- Direct defences at locations to be determined during outline design
- Increase flow area beneath A75 bridge
- Two stage channel to facilitate increased flow area, extending upstream to pumping station
- New Sparling Bridge to tie-in with the above interventions

