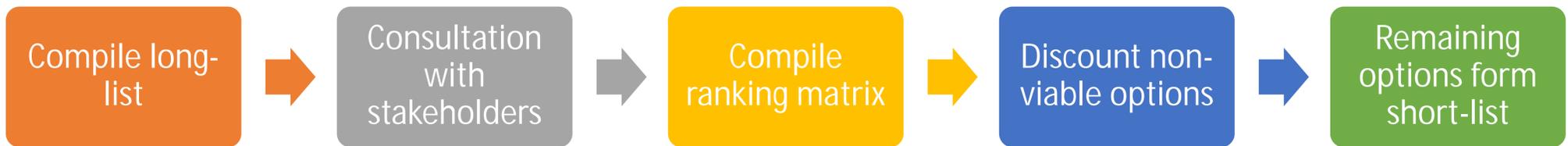


## Board 9: Long-List of Options - Conclusions

### Introduction

The options shown in boards 6 to 8 were the list of all possible options that could be considered for a flood scheme in Newton Stewart.

An initial screening of options to highlight those with the greatest merit was carried out, and a short-list of options was formed using the process shown below.



### Consultation with Stakeholders

This process takes place throughout the scheme design.

A community event was held with Cree Valley Community Council in August 2017 to discuss possible options.

An event where all stakeholders to discussed long-list options and decided upon the short-list was held in September 2017, with the following organisations:

- Cree Valley Community Council
- Cree Valley Flood Action Group
- Scottish Environment Protection Agency (SEPA)
- Scottish Natural Heritage (SNH)
- Forestry Commission
- RSPB
- Galloway Fisheries

During this period, the Newton Stewart Flood Protection Scheme newsletter was launched, providing the wider public with information on scheme progress.

A number of written queries have also been received, and taken into consideration in the design.

### Compile Ranking Matrix

A process by which all options can be compared with each other is to rank them to a set of established engineering criteria.

The criteria used, and presented to the stakeholders to assist in decision making, were:

- Technical feasibility
- Economic benefits
- Environmental aspects
- Social impact

The ranking matrix was also used to screen for options where unacceptable risks were perceived to be present.

### Discount Non-Viable Options

The following long-list options were considered non-viable by the stakeholders at the meeting held in September 2017:

- Option 1: Upstream storage at Glenhapple
- Option 3: Upstream storage at Frankie Hill
- Option 4: Installation of obstructions on the Penkiln Burn
- Option 8: Removal of A75 embankment
- Option 10: Removal of gravel berm
- Option 11: Removal of in-line weir (town centre)
- Option 12: Removal of in-line weir (upstream)
- Option 13: Reconnect Penkiln Burn & River Cree upstream
- Option 14: Remove Mill Island
- Option 15: Remove sediment from key structures
- Option 16: Divert Penkiln Burn
- Option 17: Dredging of river
- Option 18: Disconnect former mill lade
- Option 23: Upstream forest management

Reasons for discounting options included the following:

- Minimal impact on flood risk in town
- Prohibitively costly/complex engineering work
- Concerns regarding environment
- Concerns regarding structure stability

### Remaining Options Form Short-List

Those options which remain formed the short-list.

Short-list options are subject to more detailed analysis and computational modelling.

To provide further information, each short-list option is described in detail on boards 11 to 20.