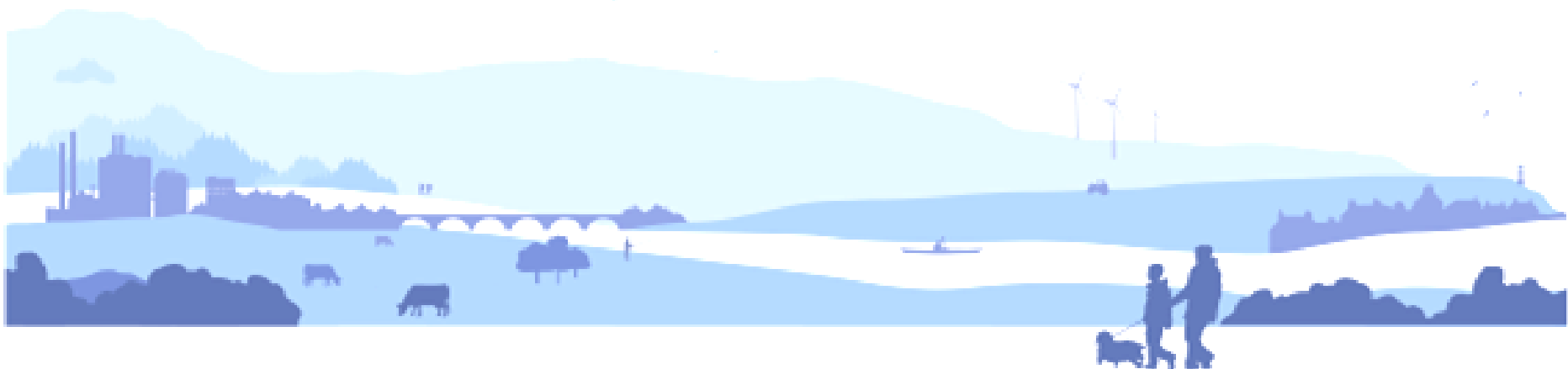


Obstacles to fish movement RBMP2 Objective setting

FFAG 22 May 2015

Carla Ward
RBMP Co-ordinator

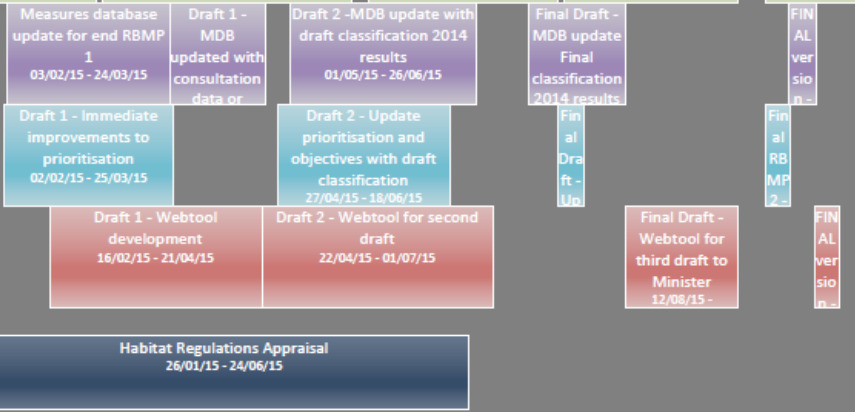






28.05.2012 15:13

Overall RBMP2 project plan



Communications and Engagement 01/12/14 - 31/03/16

2.4.2 RBMP Consultation Digest
09/04/15 - 30/06/15

Draft classification dataset
30/04/15

| | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Fish barriers Technical Working Group (TWG) set up to include RBMP, WEF, EQ Co-ordination Unit, EQ ESIU, Fish ecology and Water Unit | TWG | | | | | | | | | | | | | | | | | | | |
| Agree/ document process for managing information flow for classification and tracking | TWG | | | | | | | | | | | | | | | | | | | |
| Discuss Spotfire prioritisation tool requirements with ESIU including barriers, morph and diffuse | RBMP, ESIU, Water unit | | | | | | | | | | | | | | | | | | | |
| Improve automated method to check impacts of u/s and d/s barriers on waterbody status and timing of measures | ESIU | | | | | | | | | | | | | | | | | | | |
| Get 2014 list of barriers causing waterbody failures (draft classification) | ESIU | | | | | | | | | | | | | | | | | | | |
| Information using Spotfire tool (based on 2014 data) Environmental benefit) | ESIU, RBMP | | | | | | | | | | | | | | | | | | | |
| Information available for sector leads to check by 14 April to CW as it should be based on data that went | RBMP | | | | | | | | | | | | | | | | | | | |
| Information on first cut data on barriers prioritisation at (draft classn) Will require confirmed objective 2 or Cycle 3 - by May 20 or date TBC | RBMP, sector leads, WEF | | | | | | | | | | | | | | | | | | | |
| Information for objective setting when available, discuss before end of May? | RBMP, TWG | | | | | | | | | | | | | | | | | | | |
| Information on process based on new list and improved methods. Incorporate scenario choice, feedback from consultation, sector leads, WEF. Supply Draft 2 data to EQ by 28/05/15 or 15/06/15 (tbc) | RBMP/ TWG | | | | | | | | | | | | | | | | | | | |
| Draft 3: Update with final 2014 classification only if possible to include in prioritisation process. Extent of changes unknown. May require sector lead input with tight timescales and depends on RBMP and other resource | RBMP/ TWG | | | | | | | | | | | | | | | | | | | |
| Draft 3: Final critical changes to objectives, between 06/10/15 to 13/10/15 (5 days) | RBMP/ TWG | | | | | | | | | | | | | | | | | | | |

Detailed fish barrier task planning

Progress update

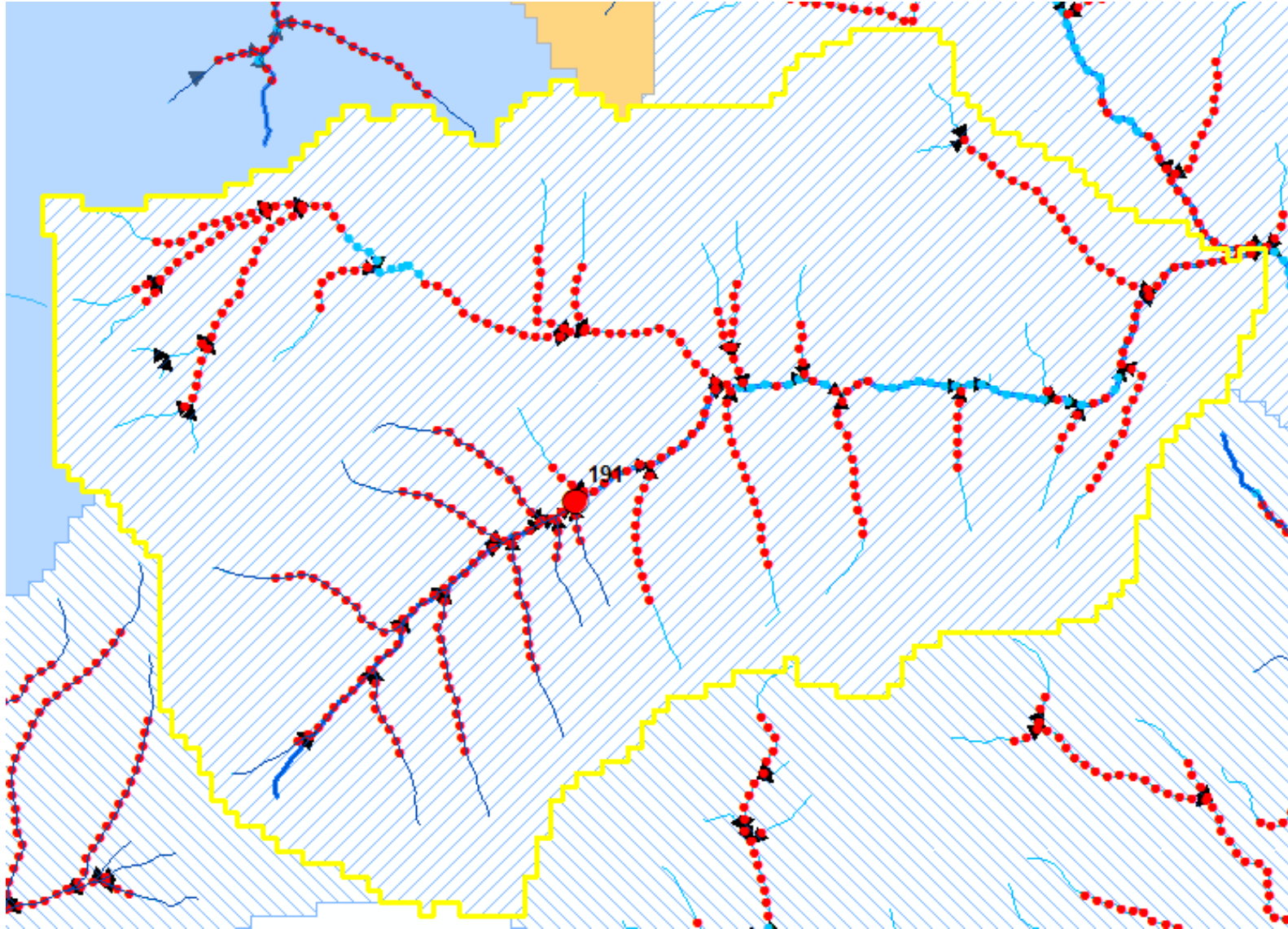
- Technical Working Group
- Classification – Prioritisation – Restoration
- Environmental benefit balanced with practical delivery
- Working on the list, with new classification results



Incorporating slope into classification – the method

- Points were generated at an interval of 50 metres along the length of the digital river network
- Calculated the percentage slope for each point (excluding points on lochs)
- Location of sampling sites (>1600 SEPA and fishery trust) analysed for slope statistics and presence of salmon fry/ parr
- Salmon fry and parr do not occur on rivers with a maximum slope $> 10\%$
- Conservative approach, evidence based

Point dataset symbolised by slope value
red: > 10% slope, blue <= 10% slope



Prioritisation - Improving data

- Engagement on RBMP2 consultation
- Focus on physical condition and fish barriers with local authorities and key responsible authorities
- Fish ecology screened for high priority ones to visit
- WEF active and pre-application projects
- Currently collating it all to produce appropriate objectives for the final plan



- GIS informatics tool developed to help

Prioritisation with GIS informatics tool

Fish Barriers
Page

Select Metric to Shape Points: Click Button to reset filters:

Barrier Type Reset Filters

Select Barrier or WB:

Type to search in list

(All) 366 values

- 1 : River Bladnoch(Tarf Water t...
- 10006 : Pennyland Burn
- 10009 : Cample Water (u/s Chri...
- 10011 : Laggan Burn
- 10012 : Clauchrie Burn (Nith ca...

Map Chart

Layers

Color by: Priority Cate.

- 1
- 2
- 3
- 4
- 5
- (Empty)

Active

Active?

Asset

Asset?

FIXED?

GEP

Historic

Historic?

New

(Empty)

Fish Barrier Classification:

- High
- Good
- Moderate
- Poor
- (Empty)

Barrier Type:

Type to search in list

(All) 9 values

- Active
- Active?
- Asset
- Asset?
- FIXED?

Sector:

Type to search in list

(All) 13 values

- 0
- Aquaculture
- Distillery
- Flooding
- Forestry

Delivery Mechanism:

Type to search in list

(All) 5 values

- 0
- CAR
- Further investigation
- Pilots/WEF
- WEF

Objective:

- 0

| ID | Total Score | Water Body | Priority Cate |
|-------|-------------|----------------------|---------------|
| 415 | 50.00 | 23332 : River De... | 5 |
| 478 | 50.00 | 20821 : Loch Ola... | 5 |
| 3002 | 50.00 | 10376 : Gogo W... | 4 |
| 3288 | 50.00 | 23071 : Rothes... | 5 |
| 20689 | 50.00 | 23265 : River Do... | 4 |
| 163 | 100.00 | 3700 : Water of L... | 1 |
| 465 | 100.00 | 20823 : Abhainn... | 5 |
| 20463 | 100.00 | 10651 : Dryfe W... | 4 |
| 119 | 150.00 | 5298 : Caddon... | 4 |
| 20573 | 150.00 | 20131 : Abhainn... | 5 |
| 3218 | 200.00 | 23638 : River Tr... | 5 |
| 138 | 250.00 | 10076 : Avon Wa... | 5 |
| 440 | 250.00 | 23323 : Kinnerni... | 5 |
| 3282 | 250.00 | 23332 : River De... | 5 |
| 20688 | 250.00 | 10548 : Dargall L... | 5 |
| 3343 | 300.00 | 5263 : Maidenhal... | 4 |
| 20149 | 300.00 | 10188 : Black W... | 5 |
| 20596 | 300.00 | 10597 : Glen Bur... | 5 |
| 3446 | 350.00 | 10643 : Pennyla... | 5 |
| 3575 | 350.00 | 3005 : Gogar Burn | 5 |
| 360 | 400.00 | 23345 : River De... | 5 |
| 513 | 400.00 | 23071 : Rothes... | 5 |
| 3188 | 400.00 | 6833 : Allan Wat... | 5 |

Select Catchment:

Type to search in list

(All) 155 values

- Aberdeen South Coastal
- Abhainn Ghriomarstaidh
- Allan Water
- Appin Coastal
- Ardoour Coastal

Select AAG:

Type to search in list

(All) 10 values

- Argyll
- Clyde
- Forth
- North East Scotland
- North Highland

Select Team:

Type to search in list

(All) 42 values

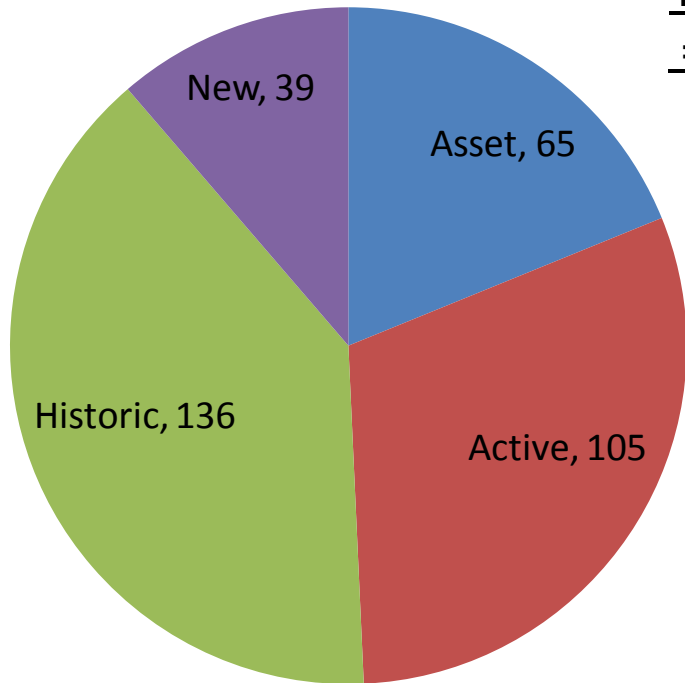
- Angus & Dundee
- Angus & Dundee, Perth
- Ayr
- Ayr, Renfrew & Inverclyde
- Avr. South Lanarkshire

Ready Unread messages (1) ... 472 of 3,994 rows 0 marked 44 columns Working Table

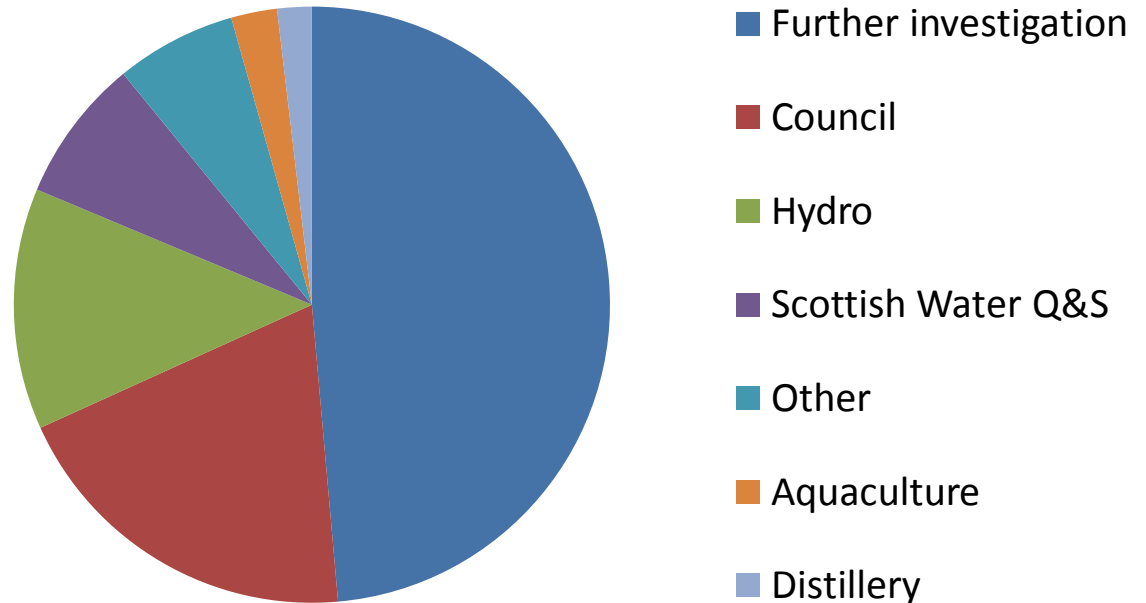
Fish barrier data at 18 May 2015

TYPES & numbers

Total requiring objectives set
= 345



SECTORS



Current tasks

- Technical stage of prioritisation done
- 345 barriers we need to set objectives for
- Currently doing Manual stage – considering other factors
- Sector leads, WEF
- Some focused additional engagement
- Owners and use
- **OBJECTIVES** for RBMP2 – by mid June

Restoration - During Cycle2

- Plan for delivery phase being developed