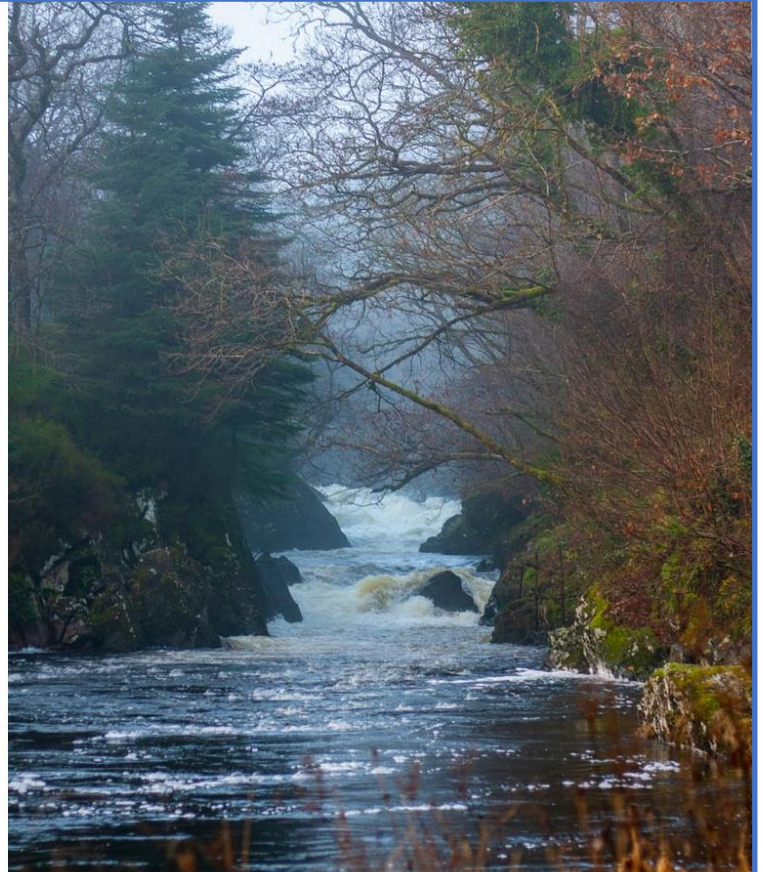


Fisheries Management Plan

An example for Fisheries Management Planning

Scottish Fisheries Coordination Centre
5 October 2022



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FISHERIES MANAGEMENT PLANS

User Guide

A guide to complete the Fisheries Management Planning Project.

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1. Introduction

Fisheries Management Planning provides a framework for District Salmon Fishery Boards (DSFB's) to document and undertake evidence-based management of Atlantic salmon and sea trout and their fisheries. Fisheries Management Planning is essentially a process by which fisheries managers can set out the limiting factors within the fishery and the actions required to overcome them.

District Salmon Fishery Boards have statutory responsibilities as set out in the Salmon and Freshwater Fisheries (Consolidation) (Scotland) Act 2003. As fisheries managers, the role of DSFB's includes the management of exploitation within the fishery to ensure that action is taken within the district to maximise the output of wild, healthy juveniles, and an adequate number of adults are able to reach their spawning grounds to successfully reproduce.

A grant from Crown Estate Scotland and Marine Scotland has become available to allow for the production of fishery management plans at a District Salmon Fishery Board level by local fisheries managers. Many different districts are at different stages of the planning process or have plans due for review in different years. This project will standardise the planning process so that it is consistent across Scotland. This will enable some key issues and actions to be identified at local and National scales. The final plans will be accessible publicly, and intended for use by local fishery managers and associated audiences.

2. Format of the plan

The final fishery management plan for each contributor will exist as an ArcGIS Storymap. A Storymap is a webpage that allows map-based data to be displayed and interacted with by an audience. This also allows for narrative text, images and videos to be imported as well. Some DSFB's and Trusts have already used this platform, but some example storymaps can be found on [ESRI's website](#). The storymap can be embedded in a webpage, so contributing organisations will be able to embed this material within their website.

3. Required Software and Files

The storymap will be hosted on Marine Scotland's ArcGIS account, so contributors will only require a computer with internet access to complete the text portions of this. Microsoft Excel will be required to complete the template with the management actions, which will then be transformed into a points-based map layer.

A google Drive account would be useful for hosting some images. A free account can be set up to give 15GB of storage space.

4. Phase 1 - Priorities For Management Action

4.1. Populating the Excel Spreadsheet

The main component of the Phase 1 is to compile the “Fishery_Management_Planning_Actions_V1.0” excel file which will have been emailed to you. If you do not have this or are experiencing trouble, please contact sean@fms.scot. This document should be filled out with as many actions as you feel are necessary, even if you do not have the resources, or powers to deliver them. Each row will represent an action and will have an associated point on a map. These actions can be specific, such as “remove this weir”, or more general such as “undertake bailiff patrols to prevent illegal exploitation”. Although we hope to relate the actions to high-level pressures, the emphasis on this project is on the management actions. When filling out the excel template, it may be useful to consider this, as opposed to starting by thinking about the pressures and what actions would fall under them. Additionally, **if you are creating a plan for more than one district please create a separate excel file per district.**

See more detail for each column of the spreadsheet below;

Title

Please give the action a short title. This does not need to include a large amount of detail, but should give an indication of what the action entails. We recommend that the title is an active one that reflects the action. For example, “Tree Planting on the Dighty Burn” would be more appropriate title than “Climate Change”, which is more reflective of the pressure.

Description

This field allows you to go into more detail about the action. Here you can give an overview of the history of the issue, and work to date, future work planned etc. This will be one of the main fields on display when people view the storymap, so try to have this field written as if you are giving information about the action in a post on your website or a report to the public.

Pressure

There will be a drop-down menu with pressures which correspond to those detailed in the previous pressures mapping project. Please select the most relevant pressure affecting wild salmon or select “other” if none of them fit the action. Where one pressure is causing others (e.g. Himalayan Balsam causing bank erosion and loss of habitat quality), the pressure which is the primary driver should be selected. If you feel there are multiple pressures involved and one is not clearly driving the others, select “multiple”. The next field will allow you to go into more detail.

Pressures	Description
Aquaculture	All issues relating to aquaculture; sea lice impacts, genetic introgression, spread of disease originating from farms should be included. Other disease such as saprolegnia or RSD should be included under “Disease”.
Disease	Please detail this for diseases affecting wild fish. Diseases originating from aquaculture should be listed as “Aquaculture”
Illegal Exploitation	Include Netting and Rod and Line, and any other methods of illegal exploitation of fish stocks.
Instream and Riparian Habitat	Pressures impacting on Habitat quality instream and/or in the riparian zone.
Invasive Non-native Species	Include all non-native species here. Even if the invasives are causing a different pressure) e.g. Himalayan balsam damaging instream and riparian habitat, please

	categorise the pressure as INNS, as Himalayan balsam is the primary driver.
Marine Developments	Please include pressures relating to marine developments such as offshore wind farms.
Multiple	Where there is more than one key pressure that the management action will address, select multiple.
N/A	Please use this where a Pressure is not applicable. An example of this may be for an Action relating to Angling Development to encourage children to take up angling, it is not addressing a pressure on fish populations but is encouraging more people to take up the sport. N/A could be selected for other education projects in general where they have not been driven by a specific pressure on fish populations.
Obstacles to Fish Passage	This encompasses obstacles in upstream and downstream directions. We ask that beaver impacts are included under "Obstacles to Fish Passage", as that will be the main pressure they create. However, we would stress that we wish to capture the estimated cost of identifying, assessing, and mitigating these barriers. Where habitat is more of a concern, please see Instream and Riparian Habitat. For these activities, in the Proposed Management Action section please select "Managing Species Interactions", as this will allow us to separate out the management actions resulting from beaver activities.
Other	Where the pressure does not fall into one of the main groups identified, select other. In the Multiple Pressures column you will be able to give it a name.
Predation	Pressure arising from predation of fish, this can be mammalian, avian, piscine or other predation.
Water Quality	Any pressure affecting water quality, this can be point-source pollution, silt, run-off from agriculture etc.
Water Quantity	Pressures relating to the amount of water, likely to include abstractions but can also detail high flow events.
Water Temperature	Any pressure on salmon or sea trout which has arisen from water temperature, which can either be hot or cold temperatures.

Multiple Pressures

If you feel that the action will address more than one pressure, please list them here in this free txt field. If you selected "other" in the previous field, then you can list it here.

Current Status

There will be a drop-down menu with the status of the action. Please see the table below for more detail on the different categories.

Current Status	Description
----------------	-------------

Not Possible	The action cannot be completed. This may be due to a number of reasons, but we still wish to record actions that cannot be completed, as this will be worth highlighting to government. If the action would benefit fish or the fishery but cannot be completed please list it here.
Planned	If an action has been considered but no material steps taken towards initiating the action.
Initiated	Initiated should be listed for actions which have had some form of advancement, be that a funding application filled out or stakeholder meetings held.
Ongoing	Some actions such as undertaking piscivorous bird counts may be an annual activity, and can be listed as ongoing. This category can also be used for actions which have had funding confirmed, and works are currently ongoing.
Complete	Complete should be used for actions which have been completed, and no further action is necessary.

Priority

Drop down menu with low, medium and high values. Please assign appropriately.

Objective

In this free text field please detail the objective of your action. The objective will be used to measure the success of the action upon review, please ensure that the objective you set will be measurable. If your action is a catchment wide one to increase coverage of riparian woodland for example, your objective could be as simple as "To increase Riparian Woodland coverage in the District", or more specific such as "To work with Estate X to increase the Riparian Tree cover on River Y". How specific you want to be will be at your discretion, as being specific may be advantageous to some organisations, but prohibitive in terms of resource to others.

Proposed Management Action

Please detail the management action from the drop-down menu. We have tried to encapsulate possible actions, but have had to have a key in order to fit the character limit for drop downs in excel. See below for the key.

Letter	Corresponding Action	Description
A	Angling Development	Encouraging the uptake or continuance of Angling for those who are not regularly participating in the sport.
B	Barrier Mitigation	Mitigating the impacts of barriers to fish passage, in upstream, downstream or both directions. Measures such as installing or maintaining a fish pass, trap and transport, or complete removal can be included.
C	Campaigning	Organizing and/or educating the general public about the importance of a particular topic or issue, usually in order to crease support for a particular change or outcome.
D	Collaboration	Working in partnership with other organisations to achieve your objective.

E	Enforcement	Enforcing legislation in relation to salmon and sea trout. Typically this will involve bailiff patrols to prevent illegal exploitation by rod and line or net.
F	Improving Instream Habitat	Any action which will improve fish habitat within a watercourse.
G	Improving Riparian Habitat	Any action in the Riparian zone, which is defined as an area adjacent to running freshwater.
H	Land Management	Any action which will change or attempt to influence how land resources are used, developed or managed. This can also include directly assisting landowners with land management practices.
I	Lobbying	In a professional capacity, attempting to influence, or advising those who wish to influence, the UK Government, Parliament, the devolved legislatures or administrations, regional or local government or other public bodies on any matter within their competence (includes SEPA, NatureScot, FLS, Marine Scotland, etc).
J	Managing Predators	Managing the impact that predators have on salmon and sea trout populations. Examples can include scaring piscivorous birds or deploying seal scarers. Where Mink is the predator in question, please use Control of Invasives as the Management Action.
K	Managing Species Interactions	This should be used primarily for actions relating to beavers, as the interaction between beavers and salmon or sea trout will have to be managed. More detail about the issue being caused and the strategy can be included in other columns. Where the interactions between salmon and other species have to be managed in a way that does not relate to predation, please use this column but in the description make it clear that the action is not related to beavers.
L	Monitoring	Undertaking scientific work to better understand an issue. Electrofishing falls into this category. Outputs of Monitoring work may be published in Annual Reports, websites, blog posts etc, but are NOT intended to be published in academic journals.
M	Peatland Restoration	Management measures that aim to restore the original form and function of peatland habitats to favourable conservation status.
N	Raising Awareness	Working to highlight an issue to the wider public, or targeted groups. This may be with the ultimate aim of influencing opinion on a certain issue or topic. This differs from lobbying in that lobbying is targeting government, whereas raising awareness is more geared towards the
O	Controlling Invasive Species	Undertaking work to remove invasive species or to mitigate their impact.

P	Research	Undertaking scientific work which is intended to be published in an academic journal. This will likely be work undertaken in collaboration with a University.
Q	Riparian Tree Planting	Undertaking tree planting in the area adjacent to a watercourse. This action should be selected where riparian tree planting will be the main action that achieves the objective, there may be other aspects involved such as land management but if the outcome is to be riparian tree planting, then that's what should be selected.
R	Stocking	Select this for where stocking will be the main action. This can involve stocking of any life stage of salmon or sea trout.
S	Water Flow Management	This action should be selected in instances where the flow of a river will be managed or changed. An example might be re-designing the flow regime in a river within a certain water budget, or it could be to reduce or stop abstraction from a river or watercourse.

Strategy

Please Detail the strategy you will use in support of the Proposed Management Action to achieve the Objective. The Strategy should include steps that will be taken to achieve the objective.

Scale

Different actions will take place at different scales. In the excel template we are using number to correspond to different catchment scales. This is so that later on points on the map can be displayed in different sizes corresponding to scale at which the action will take place.

Number	Scale	Description
1	Targeted Location	Targeted location should be selected for actions which are in a specific location, e.g. the removal of a barrier, addition of large wood structures to a river, bankside protection.
2	Coastal	Coastal should be selected for actions occurring in the coastal zone.
3	River	River should be selected when the action will be taking place over the majority or the whole of a watercourse.
4	Catchment	Catchment should be selected when an action will be taking place in an entire catchment within a district
5	Whole District	Whole District should be an action which will be occurring right across the fishery district.

Resources

Here you can post any links to resources such as webpages, reports or papers related to the management action. For example, if you have conducted a study on fish migration and the action is in relation to improving fish passage at a barrier you could link to a report from your study.

Resources could contain much broader information however, as long as they are in some way related to the action or the need for the action to take place.

Data Requirements

Please list any data or reports which you would need in order to inform the action. For example, hydromorphology surveys may be required for a river restoration project, or you may need access to the Scottish River Temperature Monitoring Network to inform tree planting. Please include data which is publicly available as well as that which would need to be collected specifically for the action.

Lead Organisation

Please detail the organisation which will take the lead on the project and assume overall responsibility.

Potential Partners

Please detail any partner organisations which would also be involved in the action. Involvement can be as much as contributing money to the project or participating in stakeholder meetings. If you have any funding organisations in mind for the project please list them as a potential partner. Where the action requires the involvement of a regulatory authority please list them here.

Capital Cost (£)

Please detail an estimate of the capital cost required to undertake the action. Some activities may require follow up maintenance or monitoring, please do not include that in this capital cost estimate. Please **do not** include a £ sign, as this will prevent further analysis. Where you cannot estimate a cost, please leave the cell blank. Where the action is being undertaken in partnership or a consortium, please list funding that your organisation is providing to the project, and include funding which has been provided by other agencies such as the Nature Restoration Fund (in other terms, money which would go through your organisation's bank account!). What should not be listed is costs which are borne entirely by other organisations, and funding which is not coming through your organisation for the action.

In-kind Contributions (£)

Please detail the cost of any in-kind contributions that your organisation will make towards the action. This can include in-kind contributions of staff time, but please **list a monetary figure** instead of days or hours, but **do not** include a £ sign, as this will prevent further analysis. Where you cannot estimate a cost, please leave the cell blank.

Maintenance Required

This will be a drop down with Yes or No. Examples where maintenance are required may be checking on tree planting projects, subsequent thinning or removal of tree tubes. Please also include follow up monitoring as maintenance, such as electrofishing to monitor the success of an action.

Annual Cost (£)

Please detail an estimate here of any annual maintenance costs for the action. If the action is an annual activity such as undertaking bird counts then staff costs to undertake the work annually which would be detailed here. Please **do not** include a £ sign, as this will prevent further analysis. Where you cannot estimate a cost, please leave the cell blank. Where the action is being undertaken in partnership or a consortium, please list funding that your organisation is providing to the project,

and include funding which has been provided by other agencies such as the Nature Restoration Fund (in other terms, money which would go through your organisation's bank account!). What should not be listed is costs which are borne entirely by other organisations, and funding which is not coming through your organisation for the action.

Funding Available

Please detail from the drop down whether the action is funded or not. If you are in the process of making a funding application please mark the action as unfunded unless you have been contacted to inform you that your application was successful. Partially funded has been included where one or some aspects of an action may be funded while others are not.

Completion Date

Please estimate how soon the action will be completed. Annual will be available for regular actions with no defined end point, and in the drop down there will be other options for within 1-5 years. An option for longer than 5 years has been included to capture more long-term actions, but contributors should focus on actions which will be undertaken within the 5-year lifespan of the plan. There will also be a N/A option, please only select this for actions which are **not possible** to be completed within the lifespan of the FMP plan due to financial, staff or other resources.

Challenges and Constraints

Please use this section to detail any challenges or constraints to undertaking the action. This can include financial, resource, legislative or other barriers which will either prevent the action from being undertaken, impede progress or make the action more difficult to undertake.

Easting

Please give the 6 digit Easting for the action. Please **DO NOT** include the preceding letters as ArcGIS will only read 6 figure grid references.

Northing

Please give the 6 digit Northing for the action. Please **DO NOT** include the preceding letters as ArcGIS will only read 6 figure grid references.

Image URL

You are also able to display images associated with Management Actions. Uploading images directly to ArcGIS online will use up a lot of data, especially when pooled across all contributing organisations. In order to save space, you can use a web address to point to an image. In practise, this would mean creating a folder in [google drive](#) (you can get up to 15GB of storage for free) and then entering the "Share" URL into this cell. See [this article](#) for more guidance.

Large bodies of text can be entered directly into cells in the excel template. However, this can also be done in MS Word and copied and pasted over into the excel template. Once the excel template is complete, please email a copy of this to sean@fms.scot. If you make any revisions, please also send Sean the revised copy. SFCC will produce a tool to summarise actions at a national level.

We have found that multiple actions at the catchment scale being on the River Mouth do not always display properly. Therefore, for actions which are at a catchment scale please choose an appropriate location for them, being considerate of how many points close together on the map will appear. Where you do not have coordinates to hand, you can use gridfinder.com to generate them for a

specific point, or to convert lat/lon to British National Grid. For any Actions which affect multiple rivers that feed into a sea loch, the point can be placed in the sea loch.

There are also some other columns available for reviewing the plan in future. These should be left blank for the moment, but descriptions of what will be included in these fields is below:

Review Status

Status of the Action on the date of review.

Review Status	Description
Not Possible	The action cannot be completed. This may be due to a number of reasons, but we still wish to record actions that cannot be completed, as this will be worth highlighting to government. If the action would benefit fish or the fishery but cannot be completed please list it here.
Planned	If an action has been considered but no material steps taken towards initiating the action.
Initiated	Initiated should be listed for actions which have had some form of advancement, be that a funding application filled out or stakeholder meetings held.
Ongoing	Some actions such as undertaking piscivorous bird counts may be an annual activity, and can be listed as ongoing. This category can also be used for actions which have had funding confirmed, and works are currently ongoing.
Complete	Complete should be used for actions which have been completed, and no further action is necessary.

Review Progress

This drop-down will detail any progress made since the first iteration of the plan, or the last review date. This field will be the main one used to measure any advancement of actions taking place.

Progress	Description
No Progress	No progress made since the initial action was detailed in the plan, or the action has regressed to a stage where "Review Progress" has gone down a stage from the initial "Current Status".
Some Progress	Some progress has been made, "Review Status" has advanced since the initial "Current Status".
Completed	The action has been completed. If the action is an annual activity and work has been undertaken as per your objectives, you can mark the Progress as complete as you have achieved the objective (even if the action till still need to be undertaken every year)

Review Cost

Please detail total cost of the action. Include both capital and annual costs.

Review Description

This is a free text field that will allow you to detail a narrative around the action, and developments that have taken place since the initial plan or a last review.

Review Challenges

Please detail any challenges that were encountered with this action. Although challenges are recorded earlier, we recognise that there may be unforeseen challenges that arise, and this field allows you to capture those.

Last Reviewed

There will be a drop down menu to select the year in which that action has last been reviewed.

4.2. Importing the Spreadsheet into ArcGIS

The next step is to transform the data into a layer which can be viewed online. Save the excel file as "FMP_Your_District", but replacing your district with the real name of the district you are working on. Please email the excel file to sean@fms.scot, and Sean will then transform the data into a feature layer which you will then be able to edit.

4.3. Creating the Actions Map

Consistent across all FMP's will be the web map with Management Actions. In the ArcGIS online environment, you will be invited to a Fisheries Management Plan group. Sign in with your organisational account, or an account which has been provided to you. After logging in, select "Groups" at the top of the page. Click on the "FMP – [Your District]" Therein will exist the feature layer of management actions, a template storymap, and a template web map.

Open the template web map, click add data, and select the FMP – Actions Layer for your district. You will then be met with all your management actions displayed as points. You can choose to display these in a number of ways, some of which will be detailed below. It is possible to display two fields at once, where one is a text value and another is a numerical value. For example, "Pressure" and "Cost" can be combined to display the pressures as a colour, and the cost as the size of the corresponding point.

This process has been designed to be flexible, you may choose the display which you feel best fits your aims. However, we would recommend displaying as in figure 3 using “Pressure” and “Scale”. Where there are many overlapping points and some become difficult to identify, we would recommend just displaying by “Pressure”.

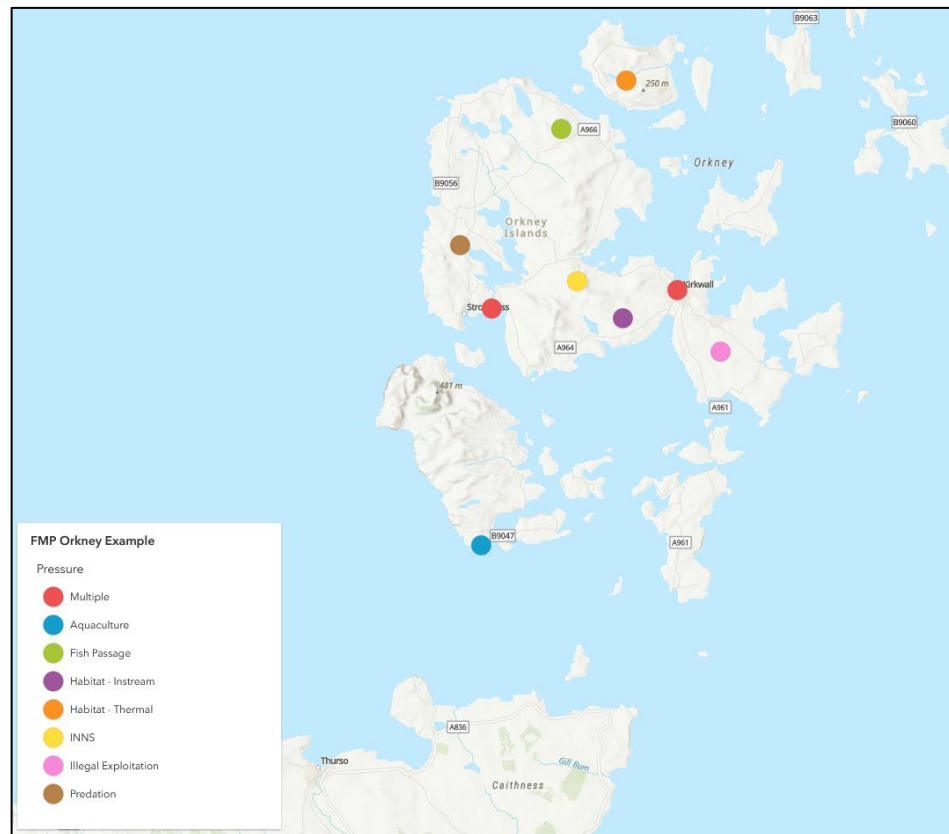


Figure 1. Map displaying points by associated Pressure only.

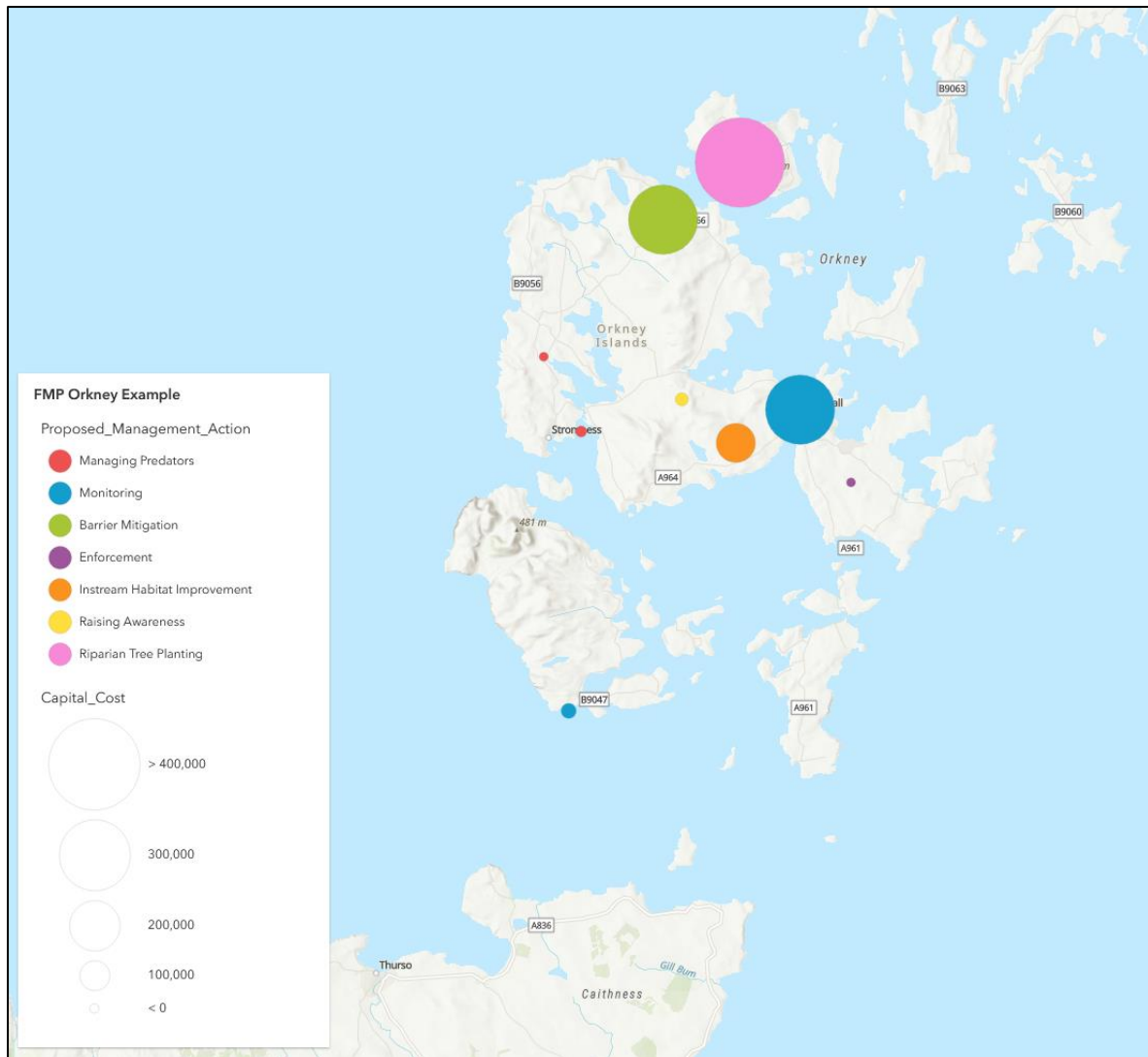


Figure 2. Map displaying points using a combination of Proposed Management Action (colour of points) and Capital Cost (size of points).

There are multiple combinations of possible displays which can be seen in the table below. We recognise that different areas have different priorities, and may wish to choose different ways of displaying points. However, **we would recommend using “Proposed Management Action” and “Scale”**, as these are informative of the actions which are undertaken, and to what scale across the district.

Category	Type of Display
Proposed Management Action	Types (unique Symbols)
Priority	Types (unique Symbols)
Pressure	Types (unique Symbols)
Proposed Management Action & Scale	Types and Size
Priority & Scale	Types and Size
Pressure & Scale	Types and Size

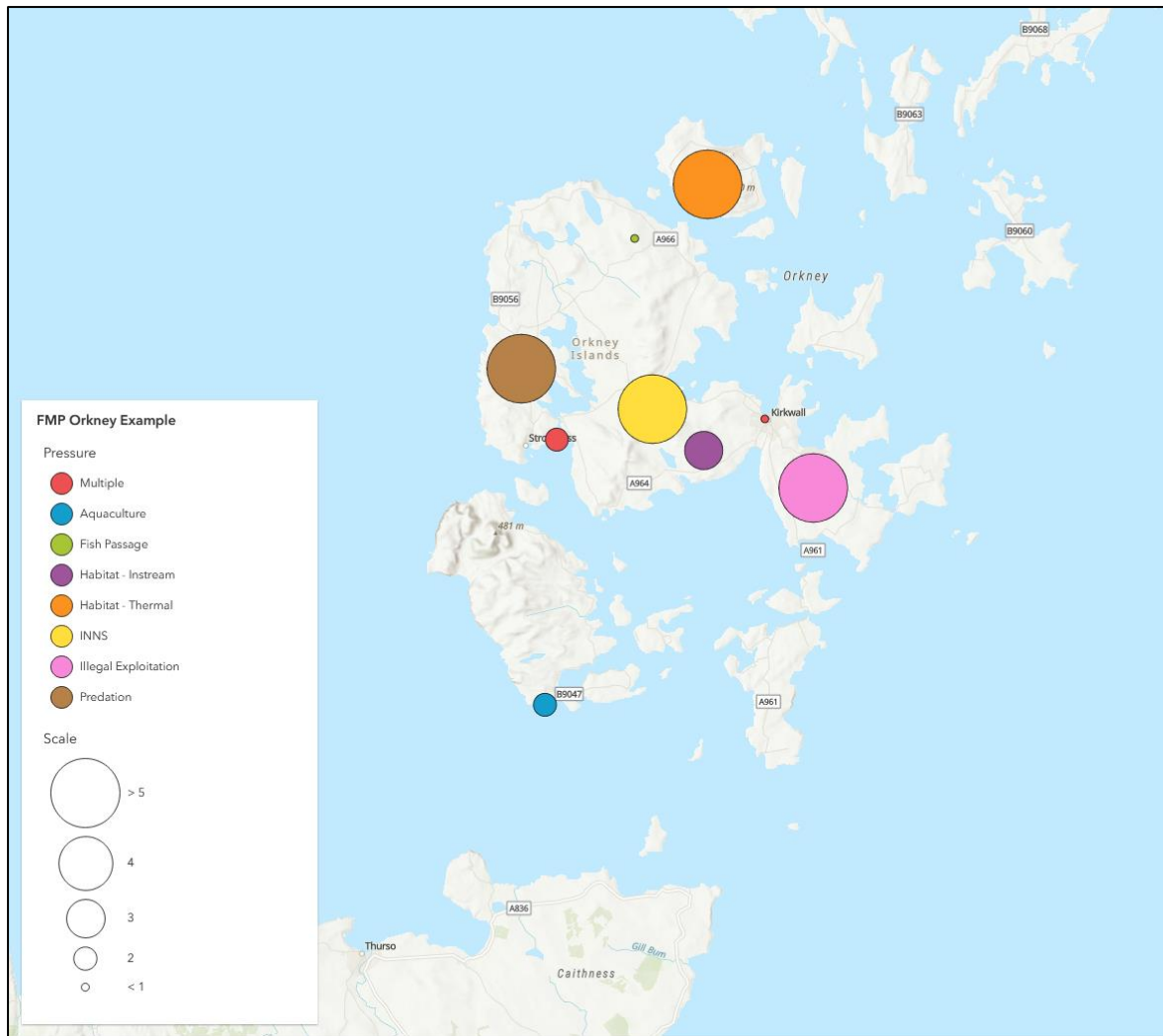


Figure 3. Map displaying points by the associated Pressure (colour of points) and the scale at which they take place (size of point relating to targeted location, River, whole district etc).

We are aiming to configure the feature layer in such a way that the numerical values for Scale will instead display the corresponding text values of Targeted Location, Coastal, River, Catchment and Whole District, but this requires further development.

Next, we will configure the pop up menu. By default, when a point is selected a pop-up will appear with data present from all the columns in the Excel template.

4.4. Configuring Pop-Ups

Click on the “Configure Pop-Ups” button on the right hand side of the map viewer (highlighted in pink, Figure 4). This will bring up a smile view with some options. If you click on “Fields” it will expand that view so you can see all the “Columns” of the excel spreadsheet that you filled in. By default all of the columns are set to display, but you can prevent any from displaying by clicking on the X to the right of the columns name. We would recommend removing “ObjectID” (this is a column added by

ArcGIS to help with data management in the background) and columns associated with the Review as they will be empty for the foreseeable future.

If you were able to set up images on google drive, you can set these to display in pop-ups. On the main pop-up view, click on add content at the bottom. Then, select image. You will then be met with a series of options, but all we need to do is on URL, click the curly brackets and then select Image_URL from the drop down menu. This will use the URL provided in the excel template to display an image at the bottom of the pop-up. Don't worry if there isn't an image for any particular point, as the rest of the pop-up will display as intended.

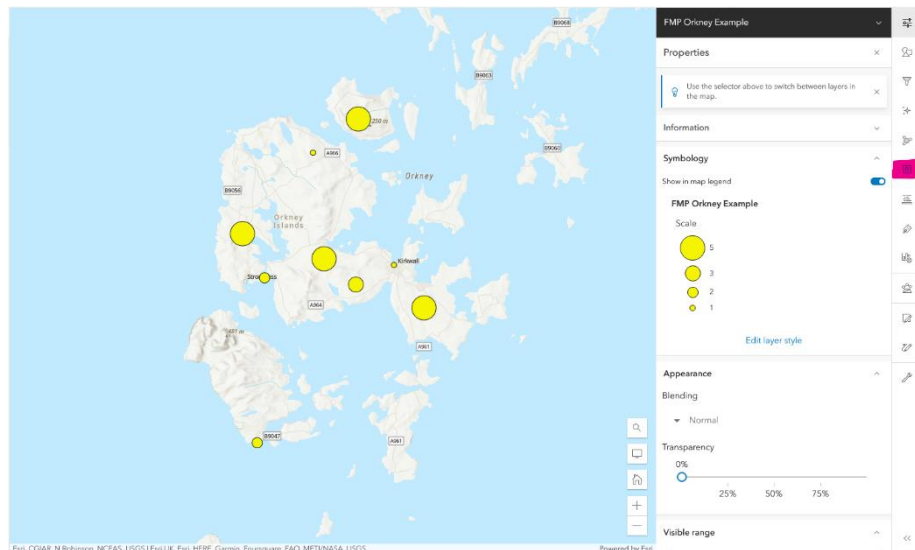


Figure 4. Map view with the "Configure Pop-Ups" button highlighted in pink on the right.

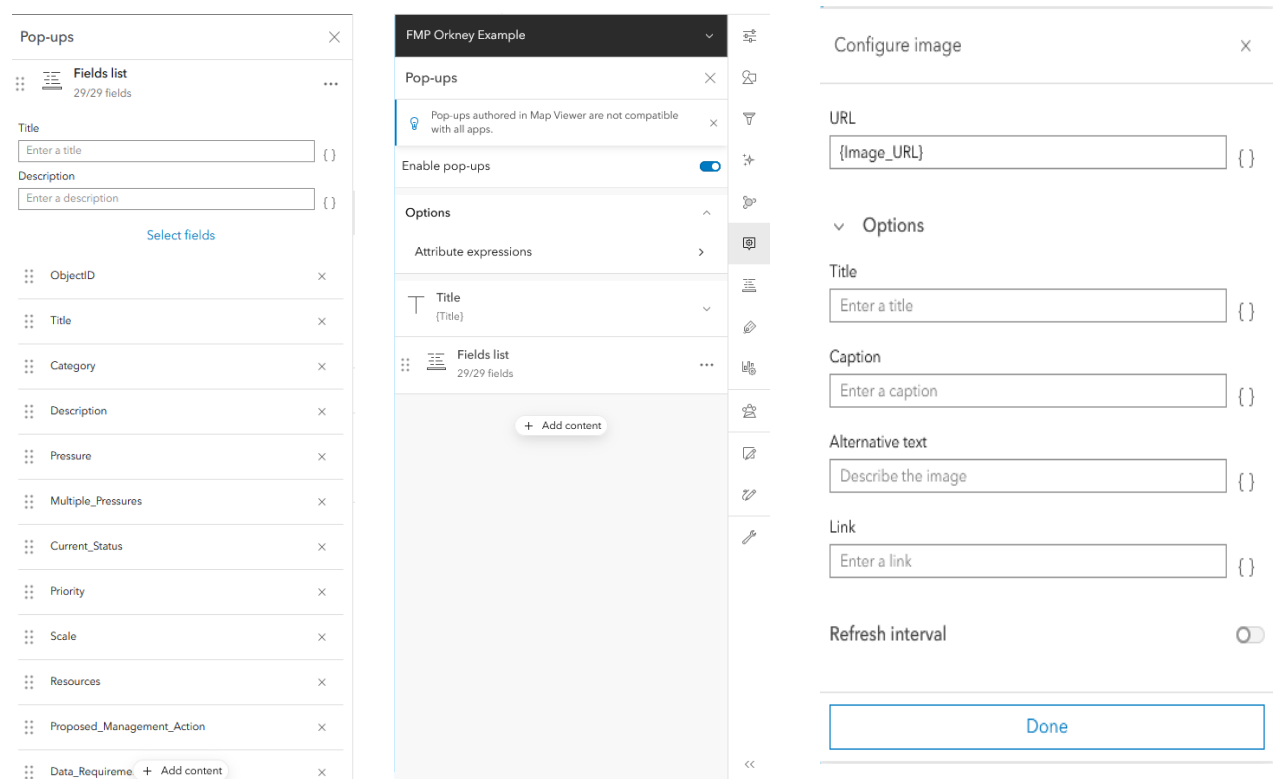


Figure 5. Screenshots from the Configuring Pop-Ups views, with the image on the right showing the view for configuring an image.

Also worth noting is that in the pop-ups, for numbers ESRI can default to show 6 decimal places, which can be quite distracting! However, when configuring pop-ups you can also configure the number of decimal places displayed, as well as a thousands separator. On the configure pop-ups view, click on the field that shows a number (Annual Cost, for example). This will open another pop

up where you can select the number of decimal places (see below). You can also edit the Display Name to remove the underscore (this underscore is needed for background processing purposes).

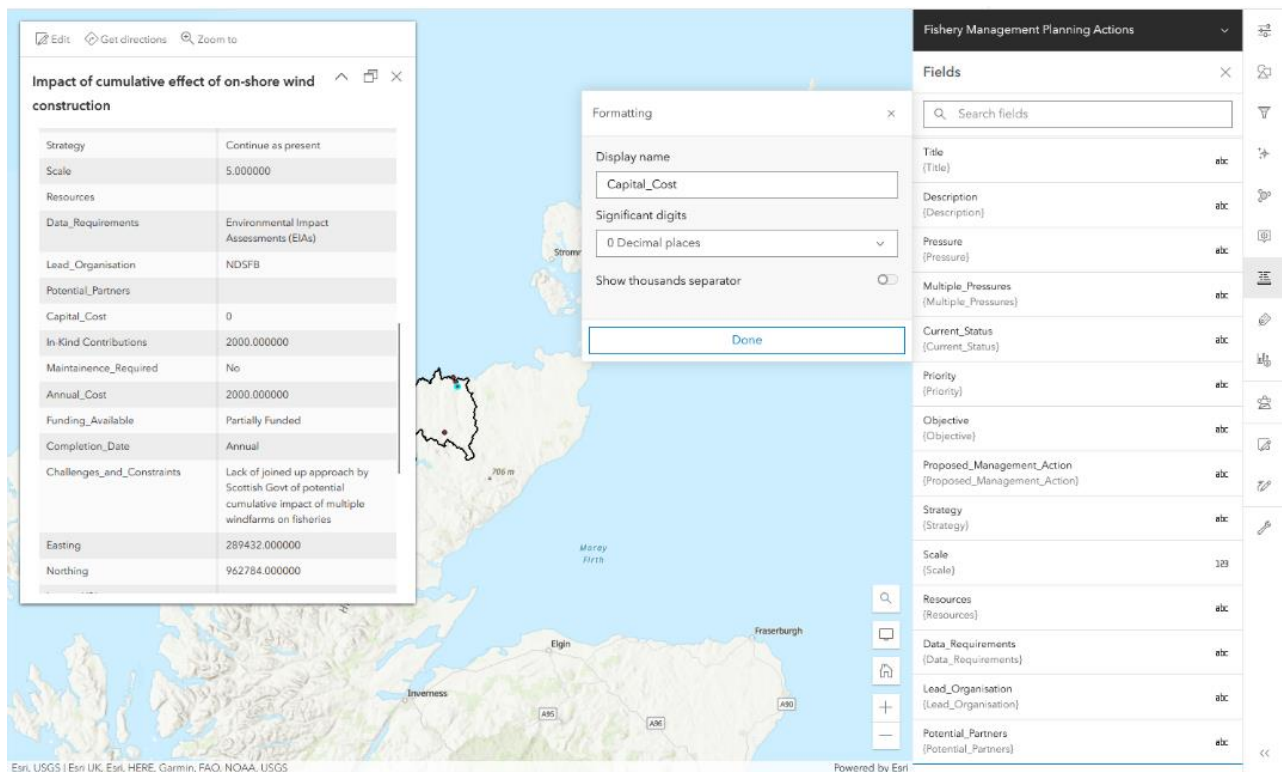


Figure 6. Pop-up view showing how to configure the number of decimal places that a pop-up shows, as well as the title in order to remove an underscore.

4.5. Populating the Story Map – Fisheries Management within the District

Once you have a web map available with your Management Actions, you are ready to populate the storymap. In the Folder in ArcGIS online which you have been invited to, there will be a template storymap. Open this up and begin editing. There will be a “Fisheries Management in the District” section and a “Priorities for Management Action” section pre-populated into the storymap.

Bespoke video guidance has been created, and links to that can be found at the end of section 4.4.1. Please use this guidance in conjunction with the video material.

Begin adding text and any other media required to the first section. This section should be used to provide an overview of the DSFB and its relationship with the local fisheries trust. This should include the allocation of work between the two organisations and the local capacity to deliver the plan. In areas without a DSFB, the key Fishery Management Organisations and their partnerships should be outlined. Links to existing websites should be included where possible to minimise duplication. This section should include information on the resources available for fisheries management and any trends in resource availability:

- Rateable value of the fisheries in the district
- Proposed levels of levy income over the planning period

However, the resources currently available should not restrict the ambition of the plan – all issues should be identified and remedial action suggested, even if action cannot currently be funded.

This section should also identify the organisations within the catchment that were contacted while developing the plan and those who contributed directly. It is important that the plan is consulted on and has wider community and organisational support among stakeholders.

Once the first section has been completed, you can then populate the Priorities for Management Action section. There are a couple of different ways to do this, some require more input than others. Your available resources and in-house GIS experience may dictate what approach you decide to take.

4.4.1 Inserting a map into a sidecar

This method requires some more input, however is more flexible for both you and the end user. This will allow users to click on points and generate the pop up with information in all the fields you wish people to view.

Click on the + button that will pop up underneath the “Priorities for Management Action” section, and in the drop-down menu, under the “Immersive” section at the bottom, select “sidecar”. Select “Docked” on the left hand side, as this will allow for more space for text and keep the map in a much cleaner view. You can experiment with other layouts if you wish, but we recommend using the Docked layout. You will then see the view below;

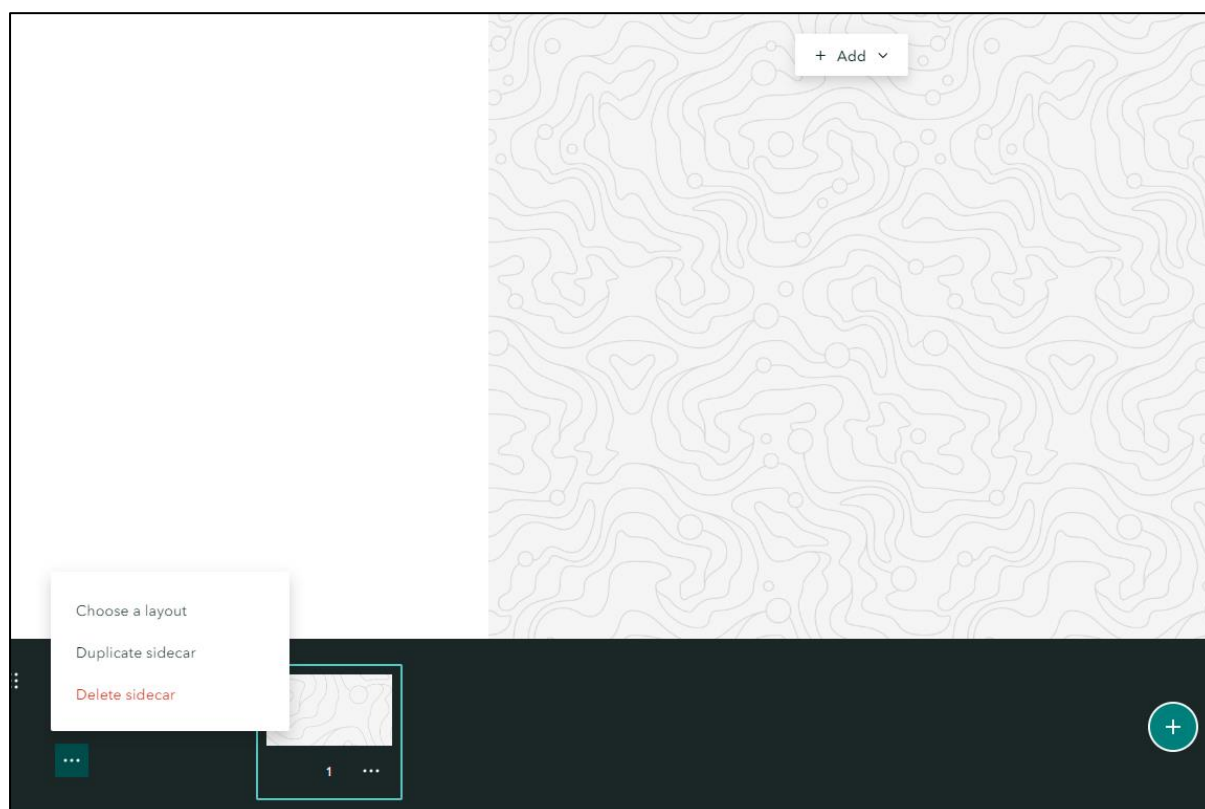
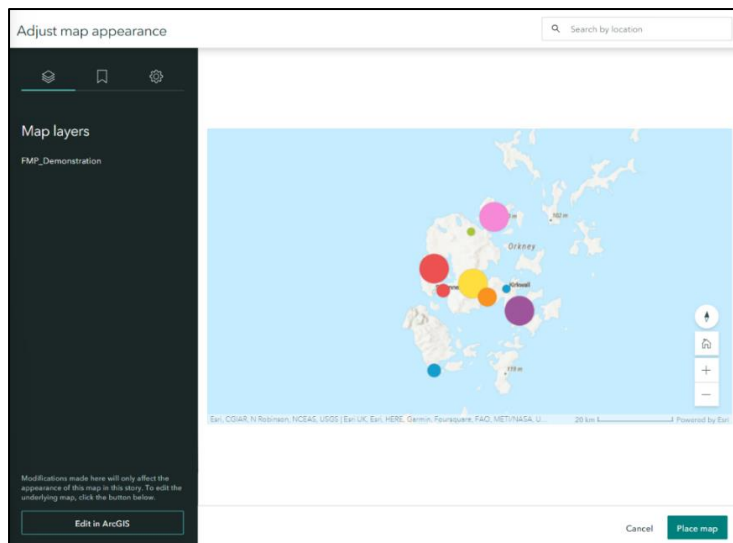


Figure 7. Screenshot of the “sidecar” initial view in a storymap.

On the top right, click “Add”. From here, you can add an image or video, a map, embed a website, create a “swipe” view to allow people to swipe between two maps or images, or a block of colour. Select “Map”, and it will bring up the list of maps which you own or have access to. Select the “Fisheries Management Plan – Your District” Map you created in step 4.3.

Next you will see a view which will allow you to place the map extent. Zoom in or out until you are happy the view covers all your points on the map – the view here will be the default view that users will see when looking at the storymap. Once you are happy with the map position, click “place map” and it will then be in the sidebar view.



Once the map has been placed, you can now add text to the sidebar, and other items such as images, videos or “Map Actions”. Click on the Green + sign and your list of options will pop up. Select text first, and begin adding any text you wish to use to organise or describe your management actions.

Figure 8. Adjusting Map appearance when adding to a sidebar view in a storymap.

Similar to Microsoft Word,, you can have different types of text to help with descriptions. Once you have typed your text, highlight it and hover over it. We suggest avoiding using “heading” here as these should be reserved for the main sections of the plan. If you want to split your actions into categories please use the subheadings for the category names. You can also use lists, and “Quote” if you have a quote or particular sentence you want to draw more attention to. If you do not have a particular set of categories that you wish to use to organise your actions, we recommend using the “Pressures” headings.

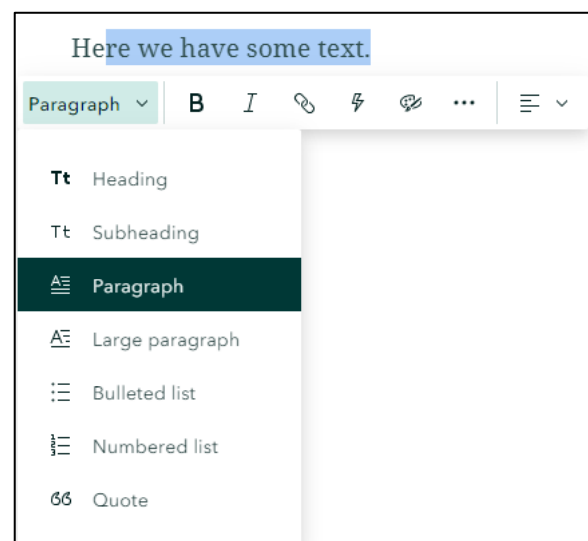


Figure 9. Screenshot of different text options in a storymap.

You can add a “Map Action” item to make the map zoom to a particular action, which can also act as a prompt for people to click on the point to get more information on it. Name the map action with the “Title” you have assigned for the point you wish to draw attention to.

In the example below, the Pressures have been used as subheadings to list management actions. However, if there are multiple catchments within a district then you may wish to use the catchments as subheadings to go through your management actions. For example, within the Kyle of Sutherland District there are the Oykel, Carron, Cassley, Shin and Evelix catchments, and you may wish to

organise your actions in the sidecar view by creating those subheadings.

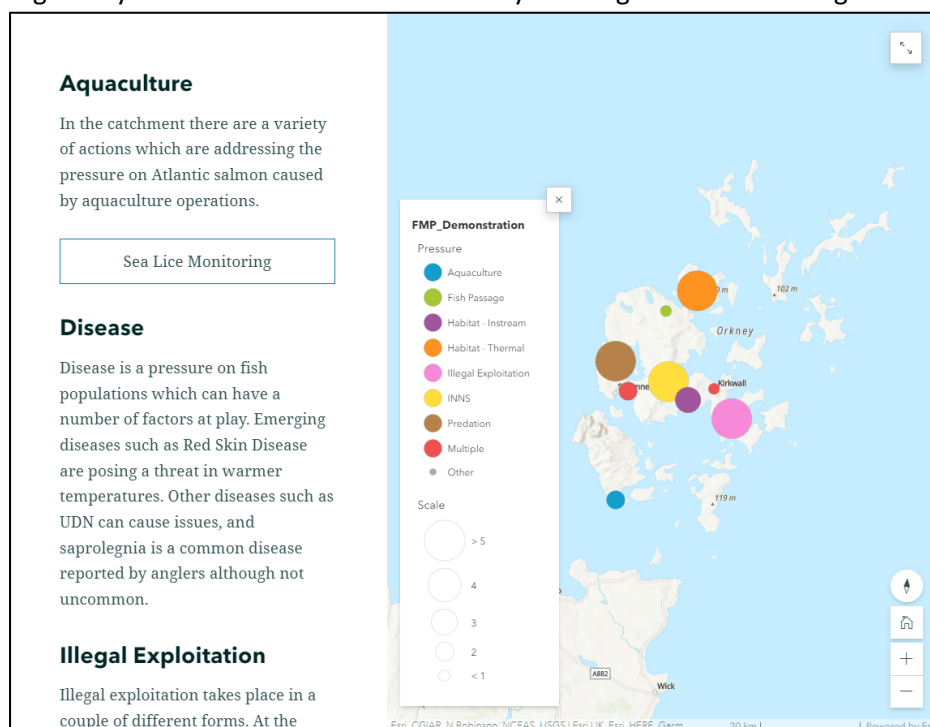


Figure 10. Screenshot of a completed sidecar view in a storymap.

There are various resources to assist with getting to grips with the Storymap editing functionality. SFCC has created some bespoke video guidance, which can be accessed from the link below;

[Fisheries Management Plans – Web Map and StoryMap Tutorials](#)

ESRI have a series of webinar tutorials on creating and editing storymaps. Some of this functionality has been covered in the above guidance, however there may be other functionality that you would be interested in. Please see some of the following links below.

[ArcGIS StoryMaps: An Introduction](#)

[ArcGIS StoryMaps: Getting Started with the New Story Builder](#)

[Getting Started with ArcGIS StoryMaps](#)

Once you have completed Sections 1 and 4 as per Project Overview, Phase 1 is complete. Please notify Sean at sean@fms.scot when you have completed phase 1, as this will be essential for reporting to our funders.

5. Phase 2

Detailed Guidance for Phase 2 will be made available in due course.