

Environment Agency Widget & Notice Board™

In this document we are going to show you how easy it is to add widgets into our web based applications, and specifically in this example Notice Board.

A widget provides a graphical interface that displays information to an end user from a 3rd party. In this example we are going to show you how you can embed the Flood Warning Widget from the Environment Agency. <https://environment.data.gov.uk/flood-widgets/index.html>

This same widget and procedure for adding it into Notice Board can also be applied to Web Map Layers.

Setting up your data

The first thing we need to do is take the URL from the environmental website. This is gathered from the link above. The way this is structured is to use the region of England it is based in. Knowing this we can add a dynamic expression to the Boundary Line dataset (Downloaded from Ordnance Survey) Boundary Line Ceremonial Counties Region.

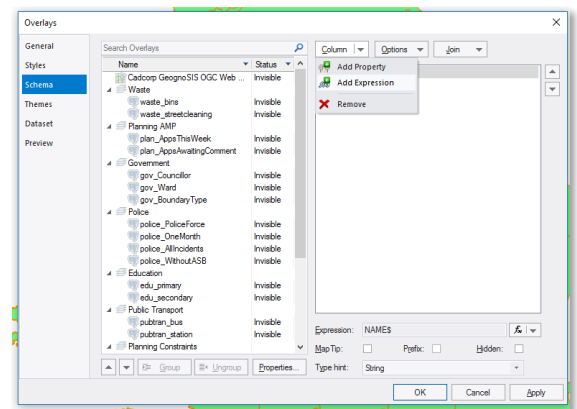
The expression you want to add is:

```
<iframe frameborder="0" width="100%" height="160px" scrolling="no" src="https://environment.data.gov.uk/flood-widgets/widgets/widget-'+NAME$+'-horizontal.html"></iframe>
```

Where it's replacing the region name dependent on the polygon we fall within.

To add the expression:

- **Right click the dataset and select properties**
- On the properties dialog **go to the schema options** and choose to add **Add Expression** (see image to the right)
- Then simply **paste the expression into the expression builder dialog**
- **Change the schema name** to something more appropriate. In this instance we have called the attribute embed_this
- Make sure that the **Name\$** attribute is correctly named within your dataset



Finally, applied to the dataset should be the property for letting Notice Board know that we are doing a “About My Property” template. To add this:

- **Right click the dataset** in question and **click properties again from the properties dialog.**
- Within the next dialog you will need to add in a new property:
 - Property Name: **WML::Knowledge_Type\$**
 - Value: **area**

Once this has been added to the dataset we can move over to Notice Board in order to add the widget.

Create Notice Board template

To add this data to Notice Board we need to firstly create a template. This can be done through the Administration interface for Notice Board.

- **On the admin interface** click on the option for **Templates and select Add Template**

The screenshot displays the 'Add Template' interface. It features a form with the following elements:

- Name:** A text input field at the top.
- Template Text:** A large text area with a rich text editor toolbar. The toolbar includes:
 - Buttons for undo and redo.
 - A 'Formats' dropdown menu.
 - Buttons for bold (B) and italic (I).
 - Buttons for bulleted list, numbered list, and link.
 - A button labeled 'Insert Local Knowledge Repeater' with a small icon.
- Text:** The text area contains a single paragraph starting with the letter 'p'.
- Add:** A blue button at the bottom left of the form.

- The dialog that appears needs to be completed correctly, so in this example:
 - Name: **FloodingWidget**
 - Template Text: **{Items[0].Attributes[embed_this]}**

The template text simply returns the attribute “embed_this” which is found within the relevant region dataset polygon. So on this occasion it will return the relevant expression which creates the widget we require.

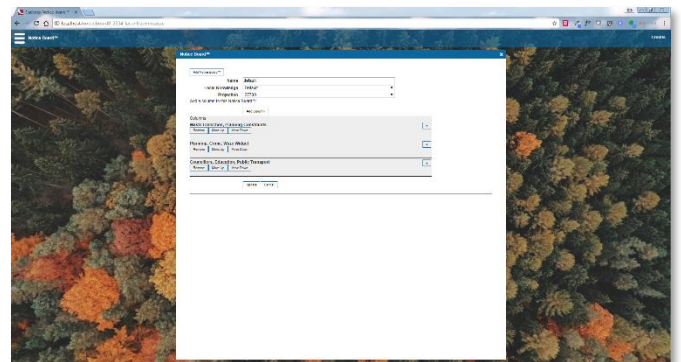
Create the Notice

We can now look at adding our finished template to a notice, so that it appears within Notice Board.

To do this, from the Admin page of Notice Board:

- Click **What would you like to do?** and then **Notice Board**

This will load up the existing settings for Notice Board, and the user will see a page that looks similar to the image to the right.

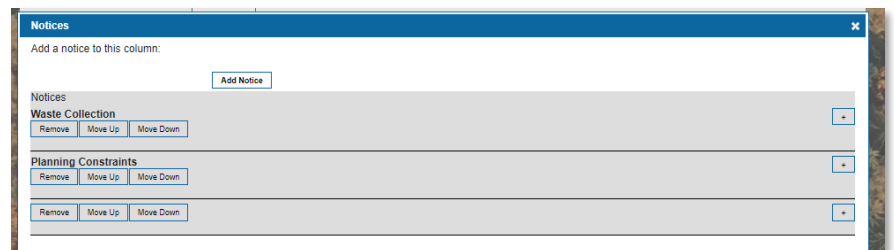


In this example we have 3 columns and each one has existing Notices on them.

In this instance, the Environment Agency Widget is to be placed within the first column and at the top.

To create the Notice in the appropriate column:

- Click **+** from the column you want to add the Notice to
- Then click **Add Notice**
- Once the new Notice has been added you can again click **+** to create your new template.



You'll then be asked to enter a title before choosing the layer and the template that you want to add. In this example, we're going to give the title **Flooding Widget**.

When you then choose to Add Layer, you'll need to fill in the appropriate settings:

- Layer Name (Layer Name held in the project file): **Flooding Live**
- Nothing Found Template (Template in case nothing is found): **Leave Blank**
- Template (Template which will be used when item is found): **FloodingWidget**

Once you have set this up you can then return to the overall column, by selecting the – buttons.

Finally, because we want the Notice at the top of the column, we can click on **Move Up** until the Flooding Widget sits at the top of the column.

You can then **return to the Notice Board page** and click **update** in order for those changes to be made.

Now when you visit your Notice Board application, the flooding widget will exist in the first column, right at the very top.

