RESEARCH & DEVELOPMENT

The Interactive Mapping of the NCDOT Research Project Program Using Story Maps

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RESEARCH & DEVELOPMENT

Close-Out Implementation Plan

Committee Chair: _____ Date: _____

Principal Investigator:_____ Project #: _____

Implementation Contact: _____

Project Title: _____

Steering and Implementation Committee and Research Team:

1. _____ 8. _____
2. _____ 9. _____
3. _____ 10. _____
4. _____ 11. _____
5. _____ 12. _____
6. _____ 13. _____
7. _____ 14. _____

Project Completion: _____

Project Cost: _____

Division:

☐ Highway   ☐ Aviation   ☐ DMV

☐ Rail   ☐ Ferry

☐ Public Transportation   ☐ Planning & Programming

Was there collaboration with other DOT Divisions, Stakeholders and/or Interest Groups?

☐ Yes ☐ Highway   Please list the specific Section:

☐ No   ☐ Rail   1. _____

       ☐ Public Transportation   2. _____

       ☐ Aviation   3. _____

       ☐ Ferry   4. _____

       ☐ Planning & Programming   5. _____

       ☐ DMV   6. _____

       ☐ Other   7. _____

1. Final Deliverable:
    ☐ Specification ☐ Manual ☐ Report

    ☐ Training ☐ Data/Information ☐ Presentation

    ☐ Software (Product) ☐ Equipment/Tool ☐ Synthesis

Explanation of Deliverables:

2. How will this Research Project influence NCDOT?
    ☐ Specific Project ☐ Practice/Operation

    ☐ Policy ☐ Evaluation Criteria

    ☐ Behavior

Explain the influence this project will have on NCDOT:

3. When do you intend on implementing this research?
    ☐ Immediate – 6 Months ☐ Currently Implemented

    ☐ 7 Months – 18 Months ☐ Unsure

    ☐ > 18 Months

Briefly describe the process on when and how the results of this research will be implemented:

4. How will the benefits of the Research Project be measured?

☐ Monetary/Cost Savings

☐ Workforce/Operations Savings

☐ Safety

Provide an explanation on the measure of success for this Research Project:

5. Do you need assistance in implementing this research?

☐ Continued Research/Tracking   ☐ No further assistance needed

☐ Technology Transfer/Training   ☐ Other Assistance

Provide a brief explanation on how the additional assistance benefited the implementation of the research project:

08/2023
Guide for North Carolina Department of Transportation Research Program Projects Webmap

Updating Map Layers
Esri revamped the workflow for updating map layers with new or amended data in June 2023 to be more straightforward and provide more options for managing hosted feature layers. In its current form, the Research Program Projects Webmap contains two feature layers: [NCDOT Research Program Project Investigators](#) and [NCDOT Research Program Field Sites](#). The process to update or append either layer is the same. After logging in to ArcGIS Online and with proper permissions granted, feature layers can be updated from the item details page under the **Overview** tab. The **Update Data** window will provide multiple options to **add new features**, such as new NCDOT Research Project Principal Investigators or Field Sites for 2023, 2023, etc.; **update features**, if any features or information from previous years have changed or need correcting; **add and update features** to perform both functions or wholly **overwrite the entire feature layer**, which is not the preferred method for updating feature layers, but certainly possible if necessary. Instructions are included below. It is encouraged to visit the Esri documentation pages for these actions, as more detailed information regarding file types which can be added and other contingencies are outlined.

The following steps come directly from Esri ArcGIS Online Documentation [Manage hosted feature layers](#), with some added screenshots.

Follow these steps to upload a file to add features to or update features in a hosted feature layer:
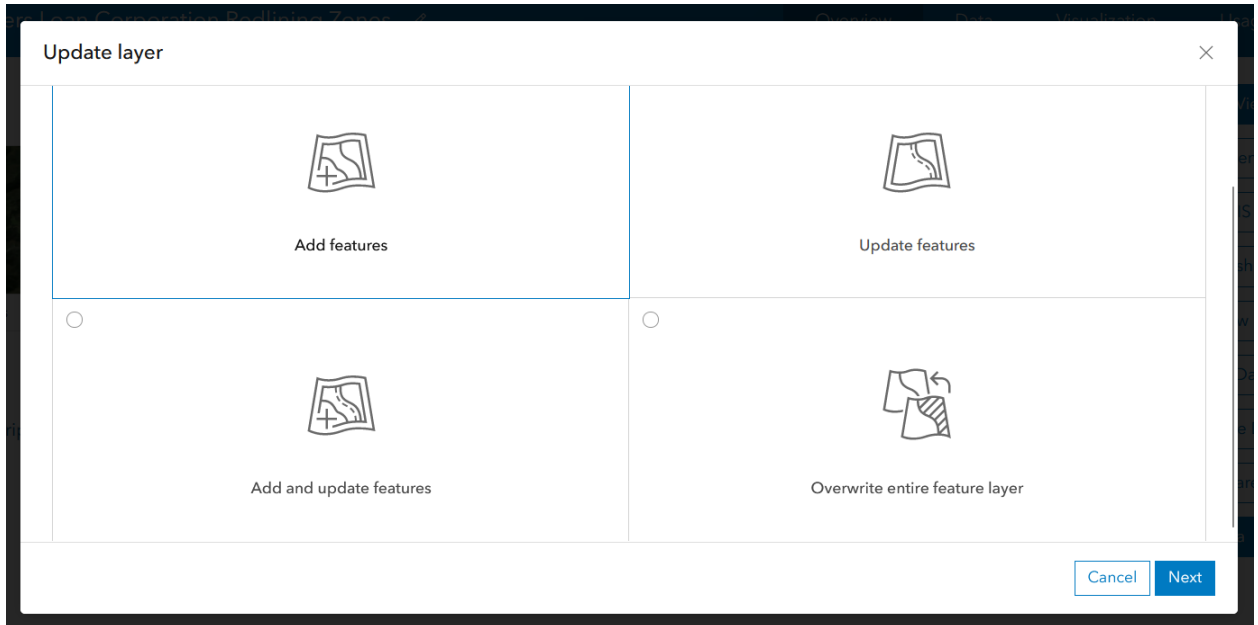
1. Sign in to the organization as the owner of the hosted feature layer or as an administrator.
2. [Open the item details page](#) for the hosted feature layer.
3. Click **Update Data** on the hosted feature layer item's **Overview** tab.

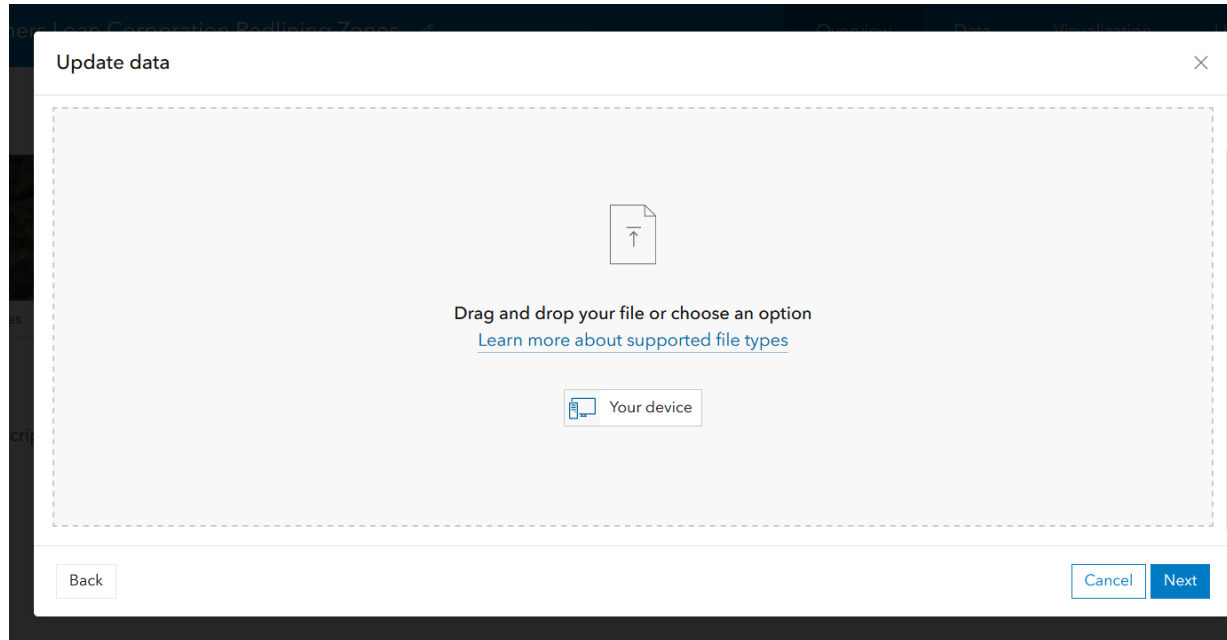| Overview	Data	Visualization	Usage	Settings

Edit

Open in Map Viewer ⌄

Open in Scene Viewer

Open in ArcGIS Desktop ⌄

Publish ⌄

Create View Layer ⌄

Edit

Export Data ⌄

Update Data

Share

Metadata ⌄

The **Update data** window appears.

4. Choose one of the following options and click **Next**:
   - **Add features**—Inserts new features from the file to the feature layer or inserts new rows to a table layer.
   - **Update features**—Uses the values in the file to update attribute values for existing rows in the layer. If the layer is a feature layer, you can also update feature locations.
   - **Add and update features**—Performs both of the actions described above.
5. If the hosted feature layer contains more than one layer, choose the layer to add to or update and click **Next**.
6. Use one of the following methods to specify the updated file:
   - Click **Your device**, browse to and select the file, and click **Open**.
   - Drag the file from your desktop or file explorer onto the **Update data** window.

7. If the file is a zipped file, choose the file format and click **Next**.
8. Specify which fields in the file correspond to which fields in the layer and click **Next**.
9. The remaining steps vary depending on the update option you choose, the layer type you're updating, and what type of fields are present in the file. If you are updating data, define which fields in the layer and the file uniquely identify each feature or row and which can be used to ensure the correct data from the file updates the correct feature or row in the layer.
10. If you are updating the data in a feature layer, choose one of the following options:
    - **Attributes only**—Updates nonspatial attribute values only.
    - **Geometries and attributes**—Updates both spatial and nonspatial values.
11. **Note:** If you chose the Add and update features option, added features always contain both attributes and geometries.
12. If you are adding features or rows only (not updating), click **Add and complete** to append the features or rows. If you are updating only or updating and adding features or rows, click **Update and complete**.

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