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Governance - Risk - Compliance

Preparing Spatial Datasets for Import

FlexiCadastre NAM Regional User Conference, Denver
April 13th – April 14th, 2015

spatial dimension

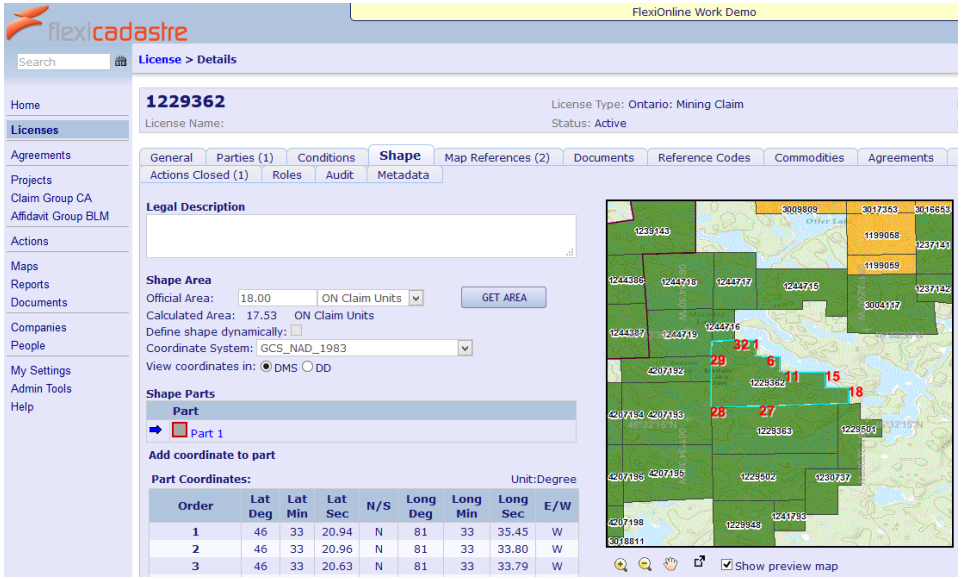
Preparing the GIS Data

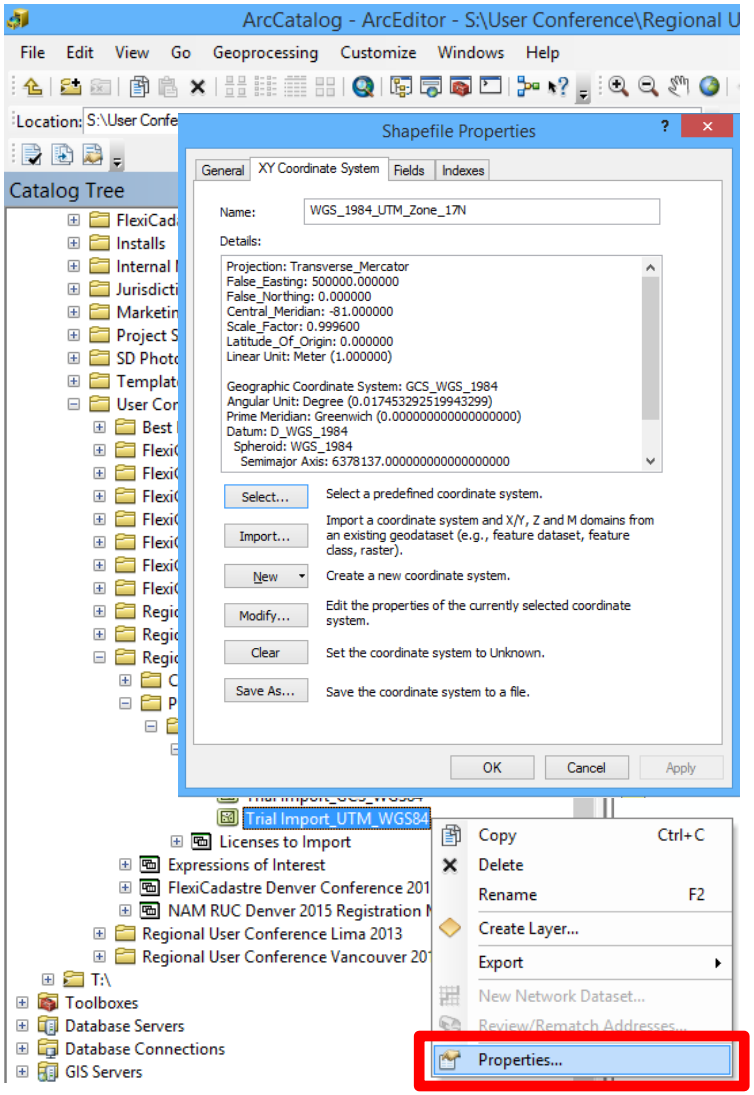
There are some basic steps that need to be followed to make sure the GIS data is ready to be imported:

- Verify that the projection of the data to be imported matches the data currently used by that license type
- Re-Project the data using ArcGIS ArcToolbox if necessary
- Make sure that the GIS data has no duplicates
- Make sure that the shapefile has an attribute named “CODE”
- Create a Personal Geodatabase and import the data from the shapefile into the GDB

Preparing the GIS Data

Verifying that the projection of the data to be imported matches the data currently used by that license type





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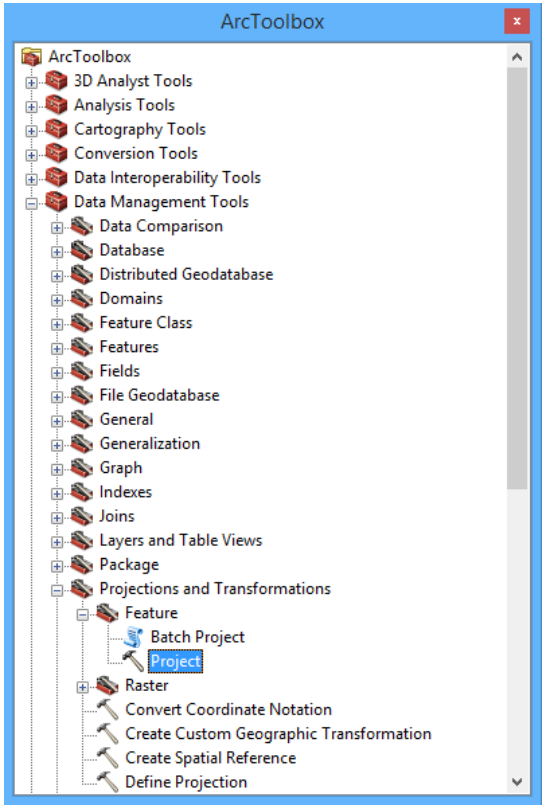
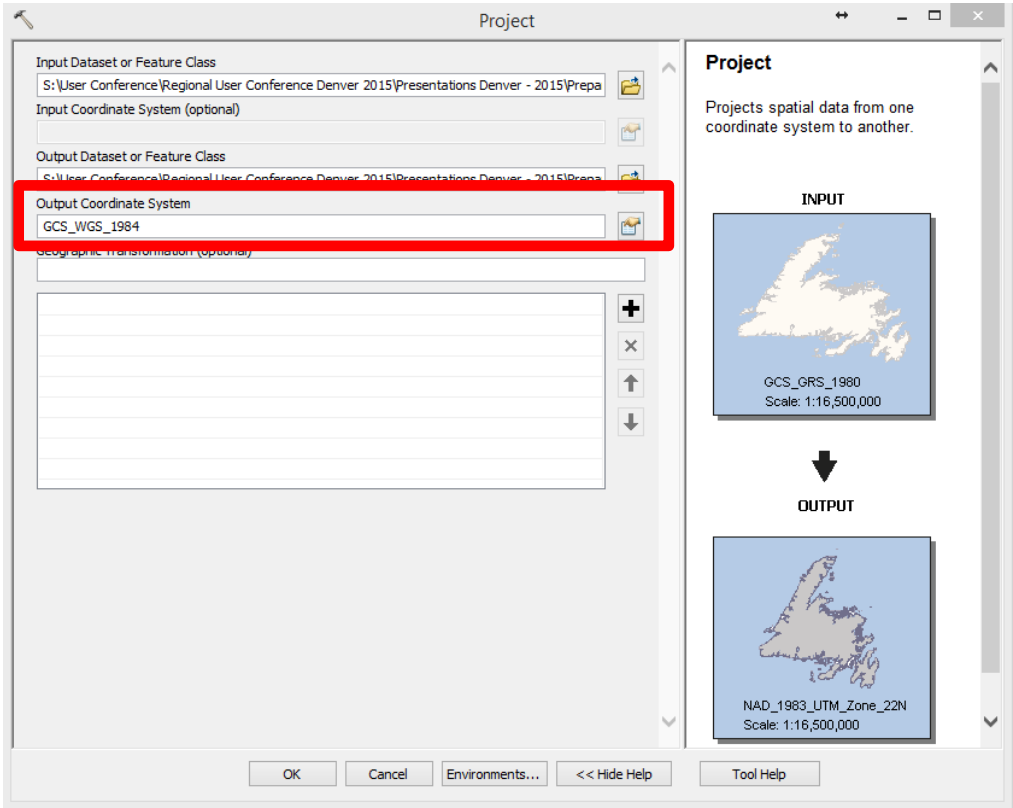
Preparing the GIS Data

Projecting the data using ArcGIS ArcToolbox

- Converting from UTM to GCS





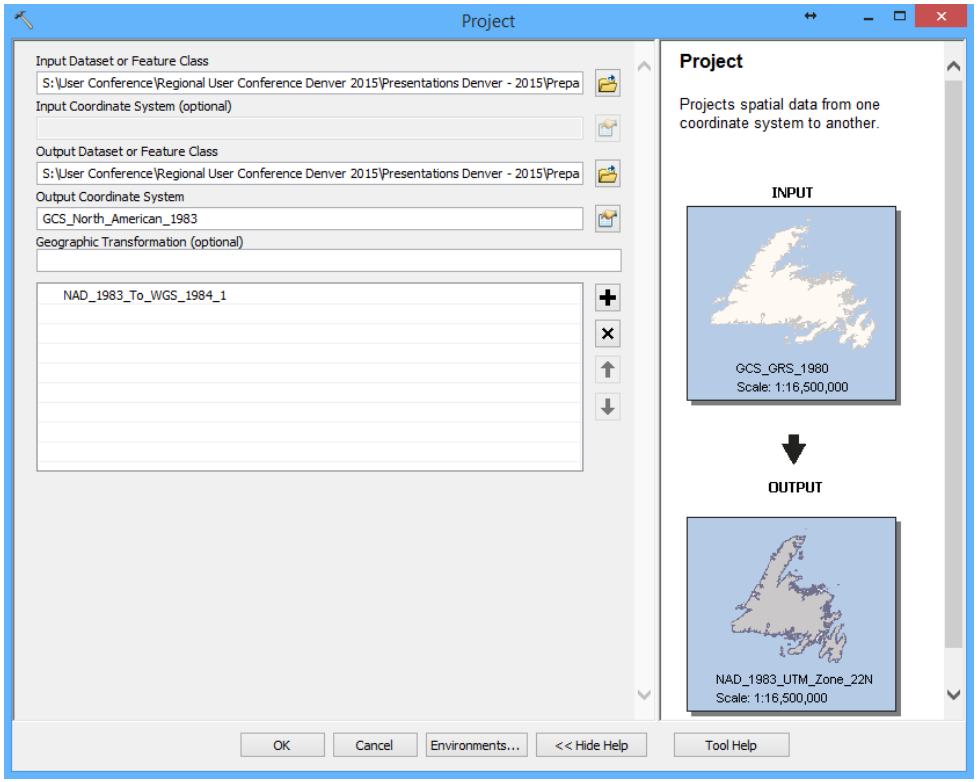
Preparing the GIS Data

Projecting the data using ArcGIS ArcToolbox

- Converting from WGS84 to NAD83

In this case, because we are converting from one datum to another a Geographic Transformation is required.

We have chosen to use #1 in this occasion.



Preparing the GIS Data

Geographic Transformations for North America (WGS84 to NAD83)

NAD_1983_To_WGS_1984_1 (Use this one for the exercise)
This transformation applies to the entire North American continent. Accuracy of the transformation varies, with greater accuracy at southern latitudes and less accuracy at more northern latitudes.

NAD_1983_To_WGS_1984_3
Calculated by the NGA (National Geospatial-Intelligence Agency) for Hawaii.

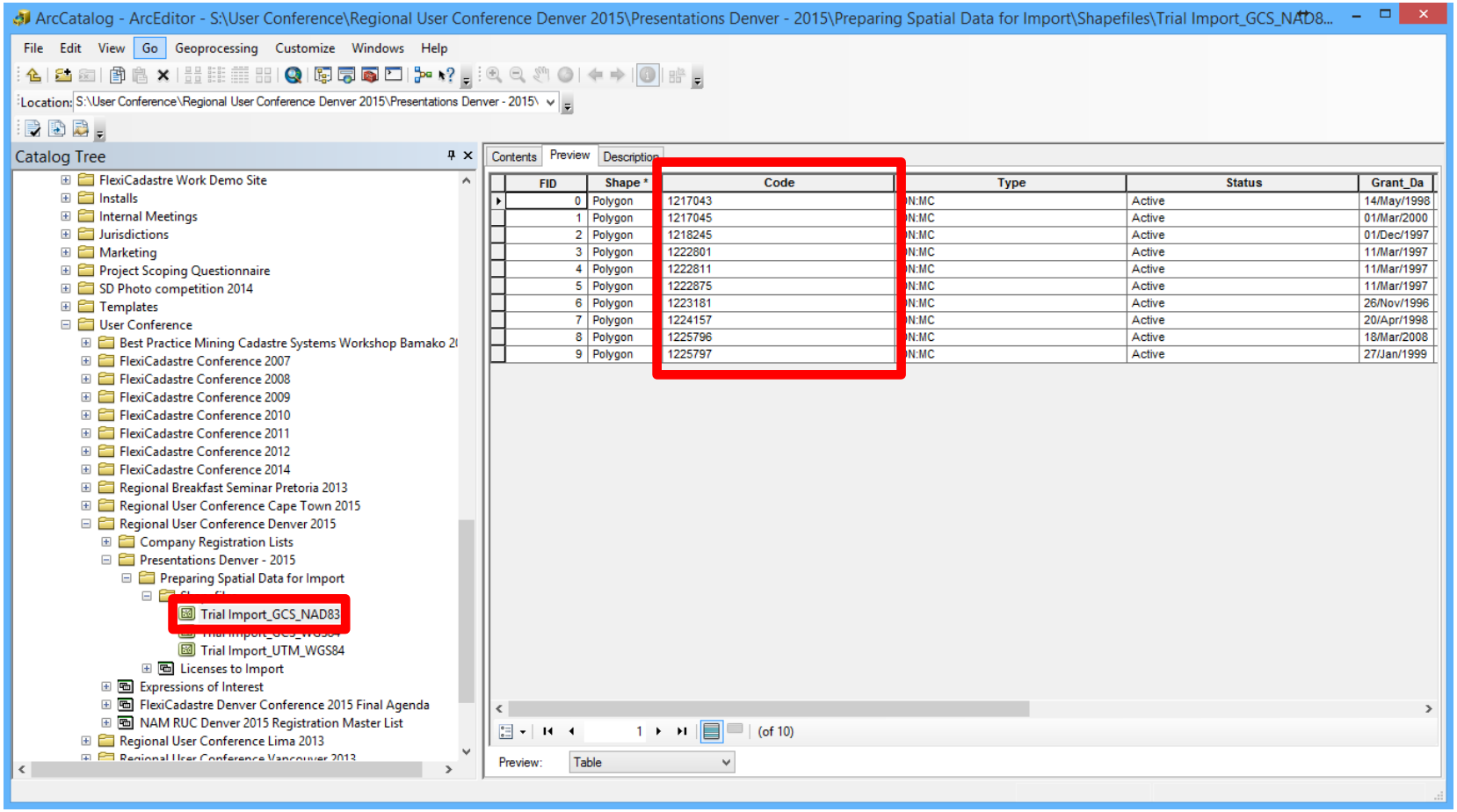
NAD_1983_To_WGS_1984_5
This transformation method should be used for the 48 contiguous states and for the state of Alaska.

NAD_1983_To_WGS_1984_6, _7, and _8
Canadian NTv2 transformations, for the Quebec, Saskatchewan and Alberta provinces, respectively.

SOURCE: *http://support.esri.com/en/knowledgebase/techarticles/detail/24159*

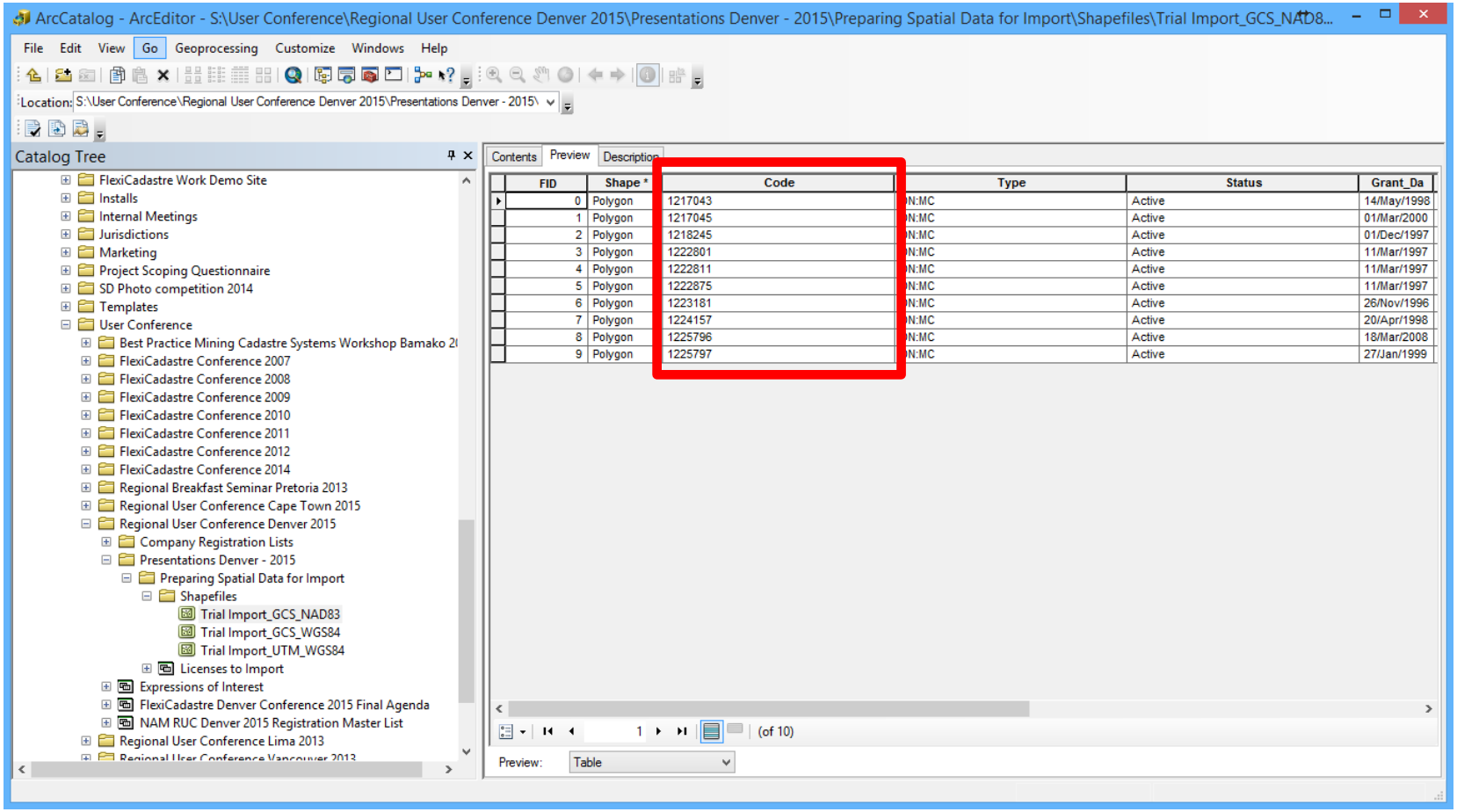
Preparing the GIS Data

Make sure that the GIS data has no duplicates

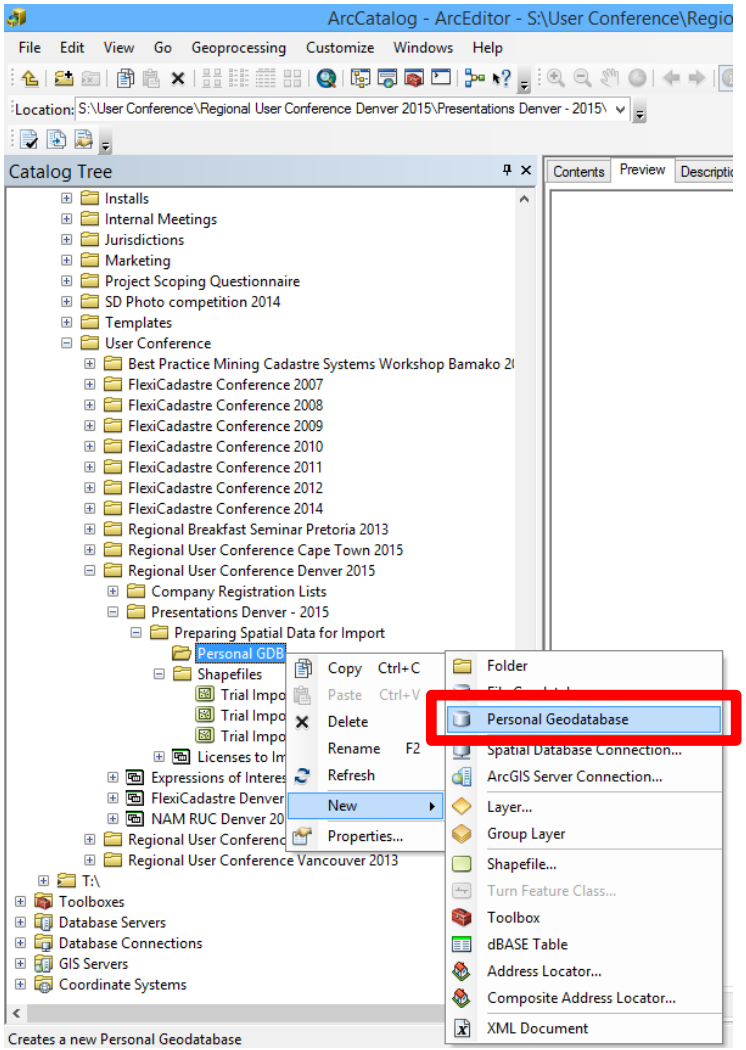


Preparing the GIS Data

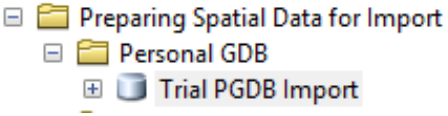
Make sure that the shapefile has an attribute field named “CODE”



Preparing the GIS Data



Create a blank Personal Geodatabase



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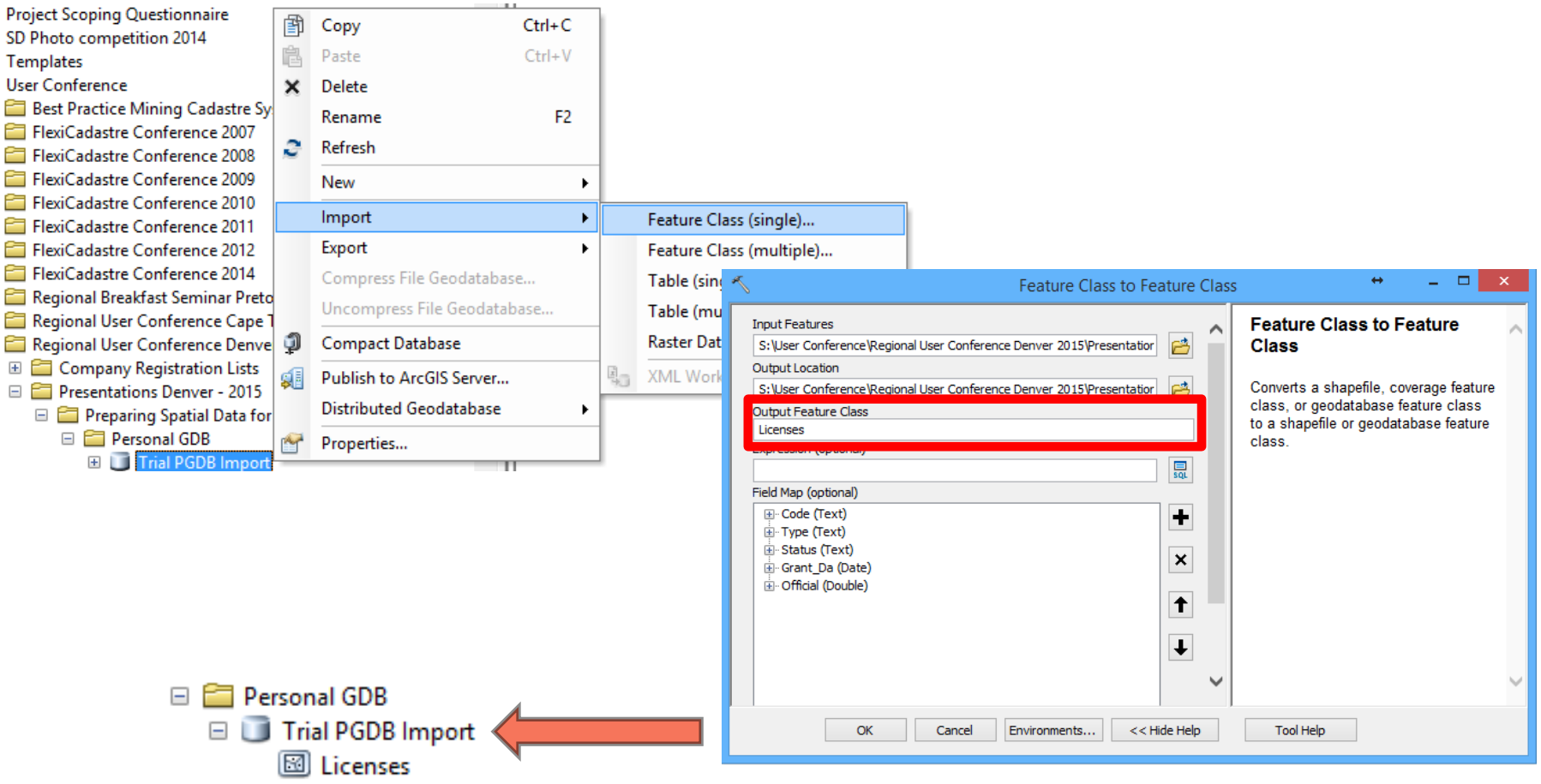
Preparing the GIS Data

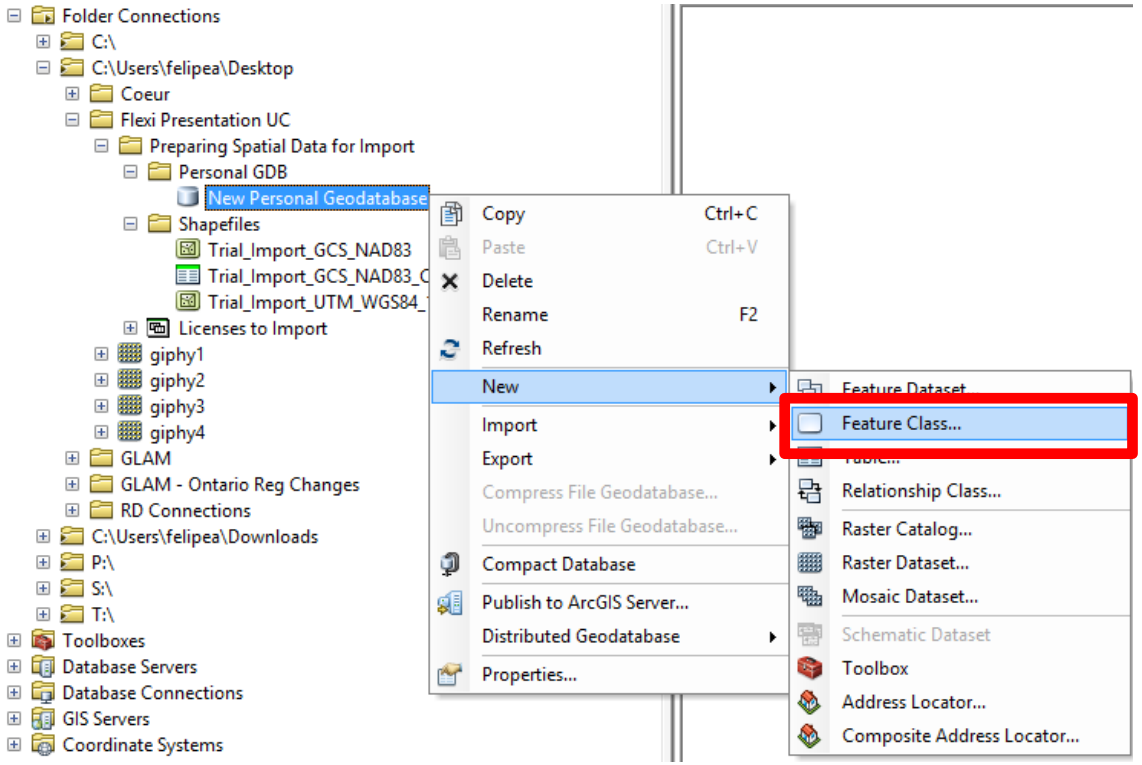
Load the data from the shapefile into the PGDB



Preparing the GIS Data

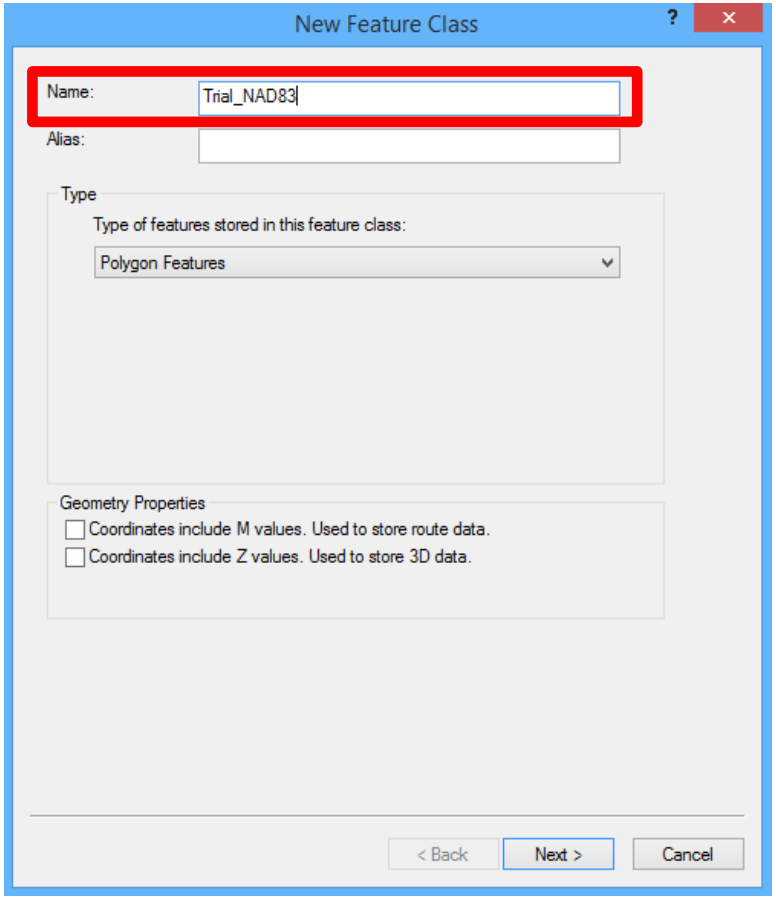
Another way to do that is to create a new blank Geodatabase, then create an empty Feature Class .

By using this second method you will make sure that the XY Tolerance and Resolution match the FlexiCadastre default

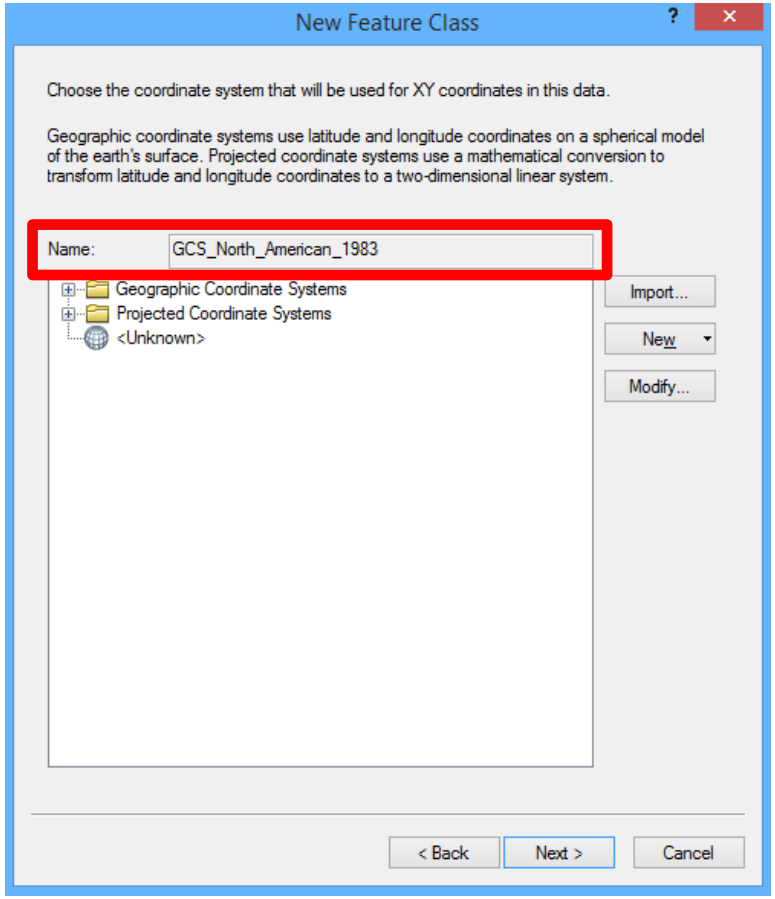


Preparing the GIS Data

Enter the name of the New Feature Class



Select or Import the Coordinate System to use



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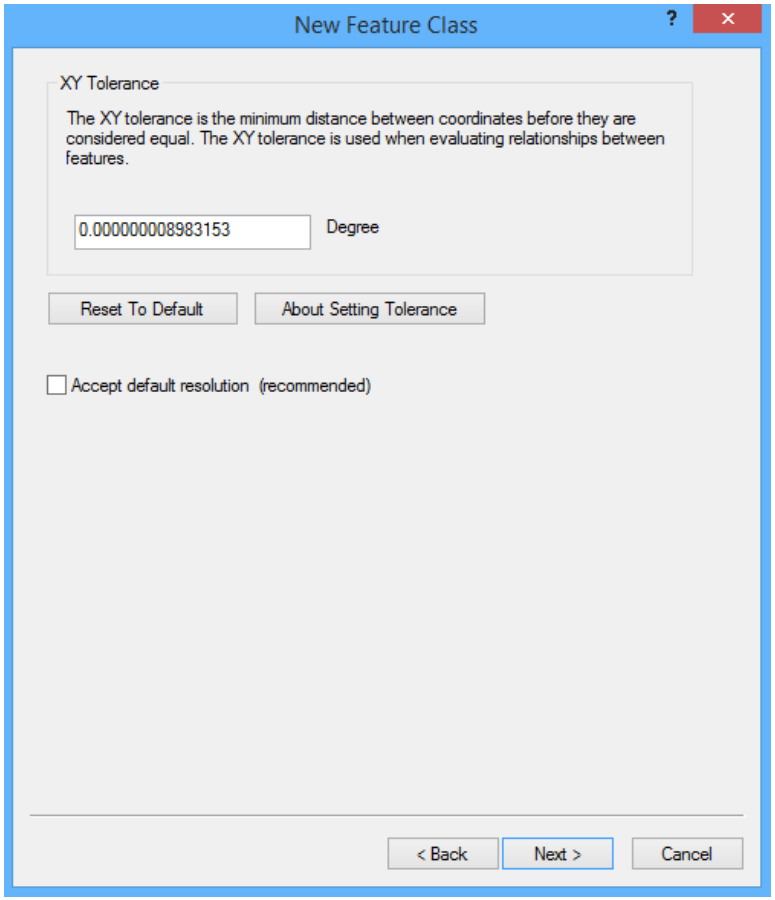
Preparing the GIS Data

In this step you will be able to set the Feature Class **'XY Tolerance'**



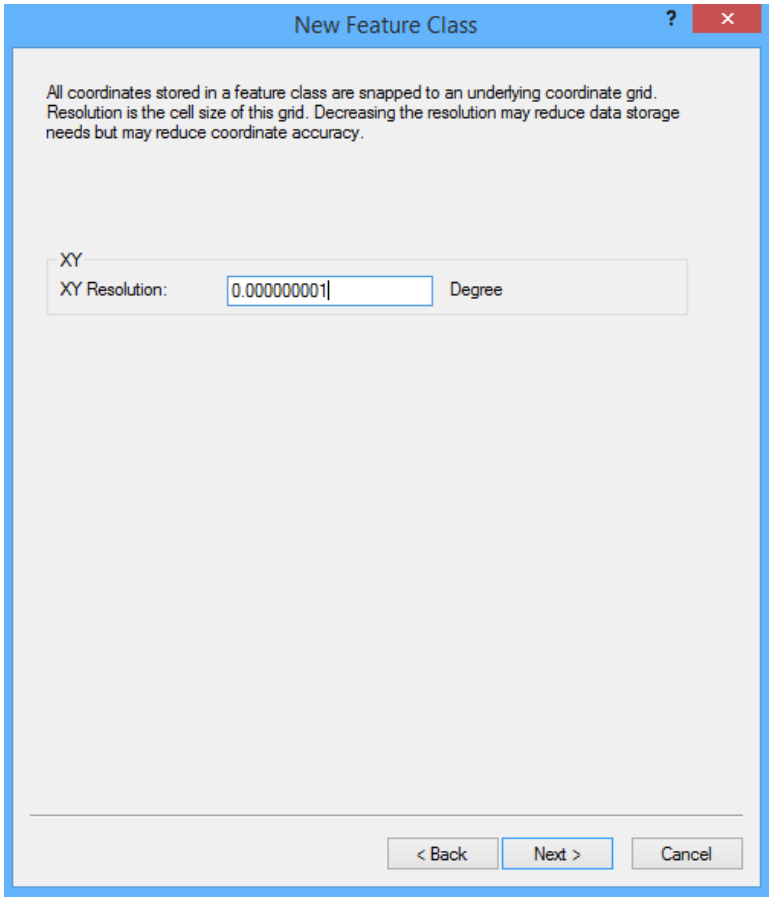
By default FlexiCadastre will use the XY Tolerance and Resolution = **0.000001**

Uncheck the box where it says 'Accept default resolution (recommended)'

Change the XY Tolerance to **0.0000001**

Click Next

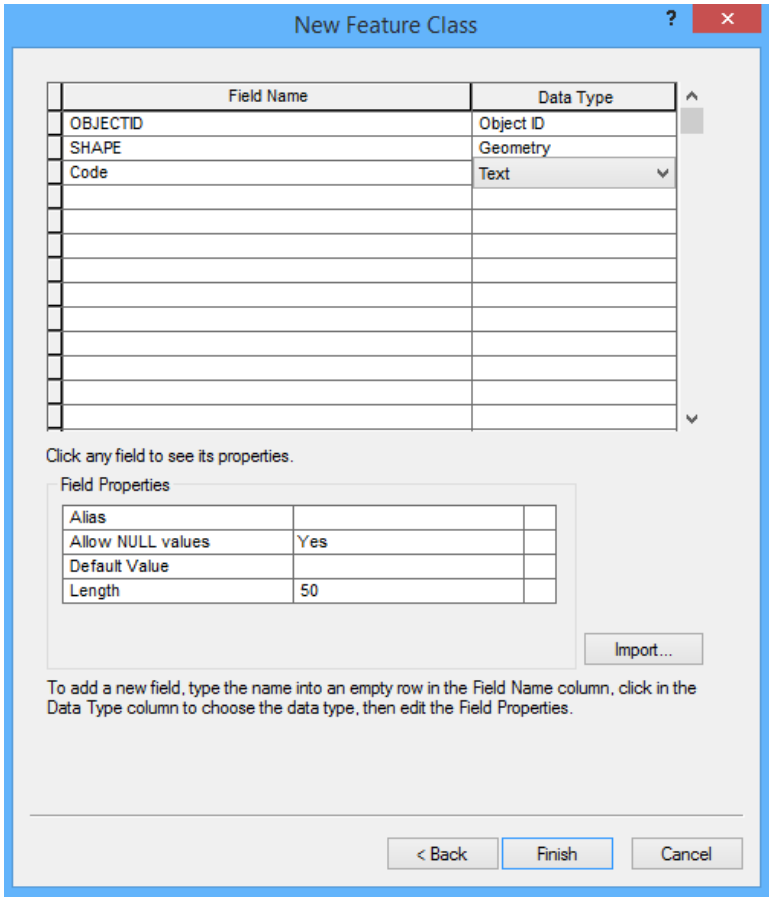
Preparing the GIS Data



Now set the XY Resolution to
0.0000001

Click Next

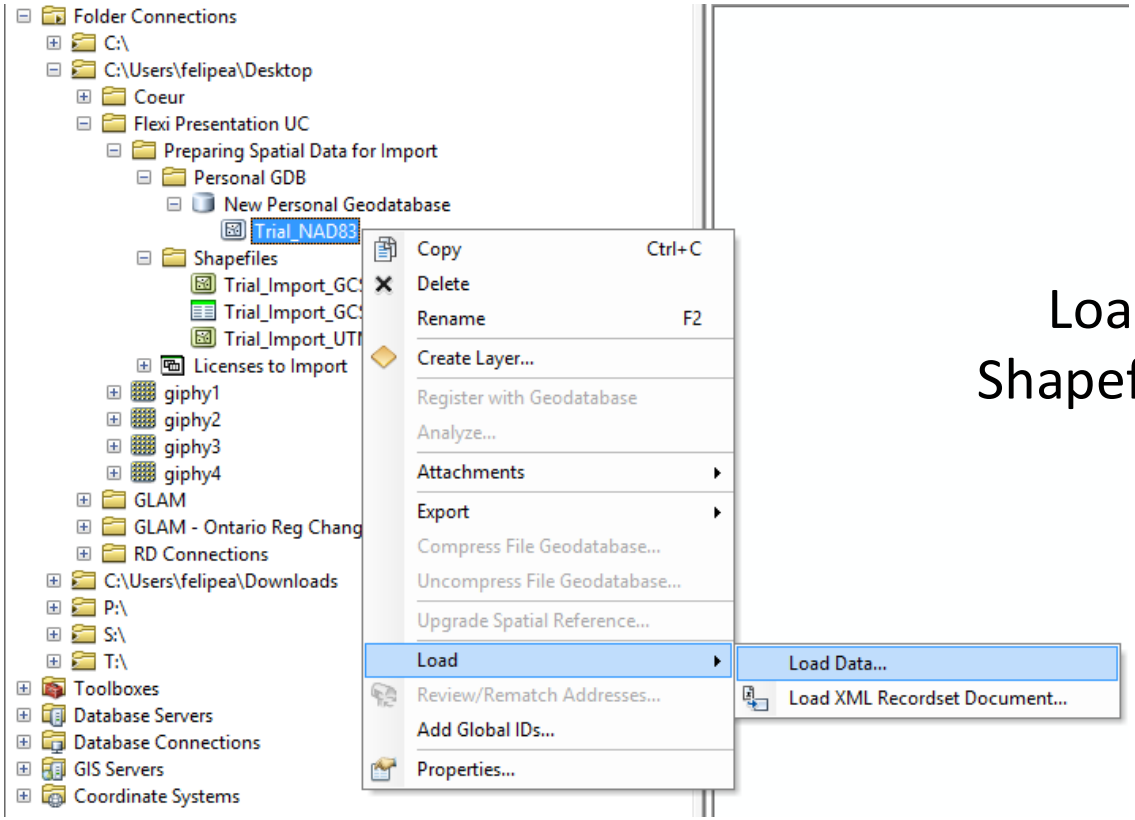
Preparing the GIS Data



Add a new Field named ‘Code’ with the Data type = Text

Click Finish

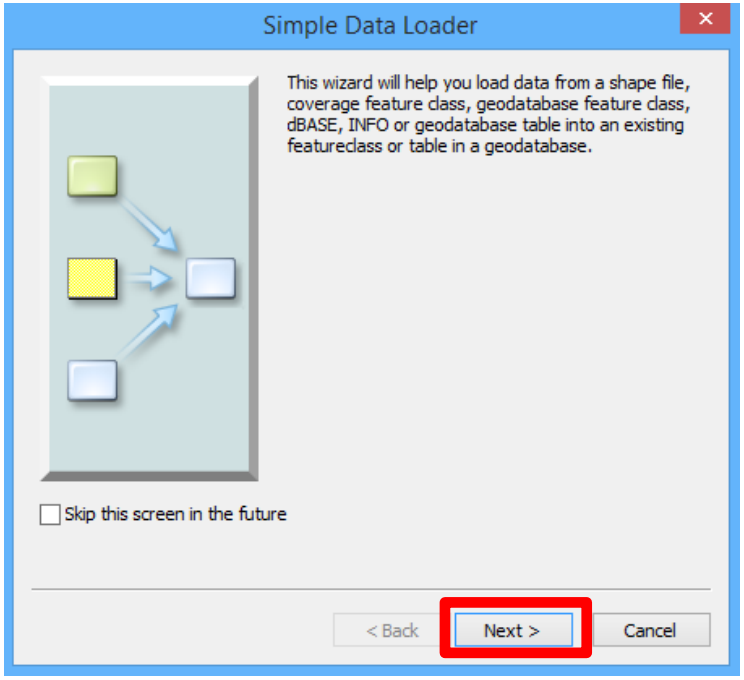
Preparing the GIS Data



Load the data from the Shapefile into the New Blank Feature Class

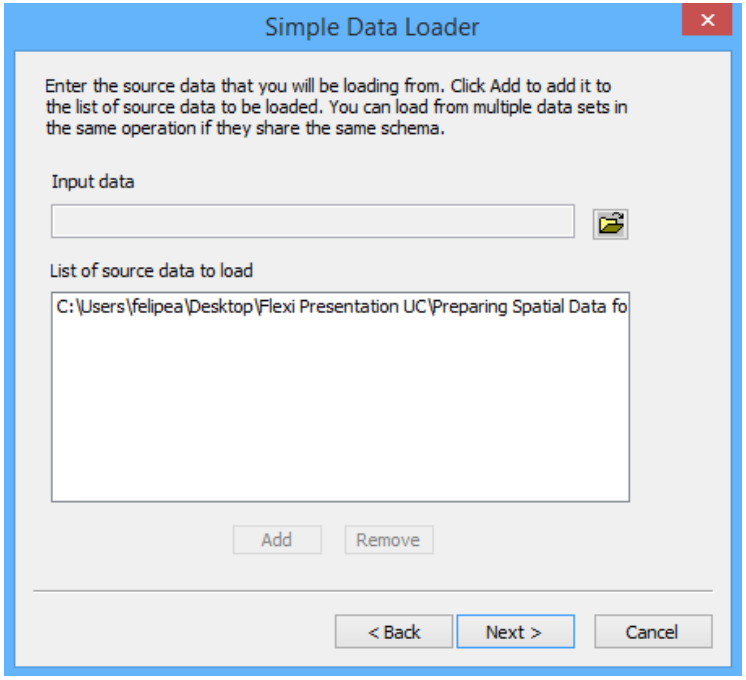
Preparing the GIS Data

Click Next



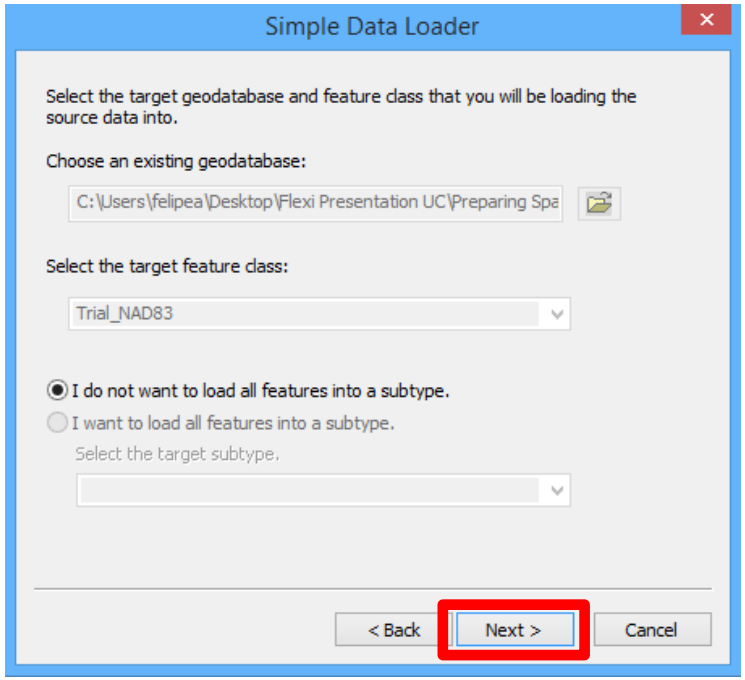
Browse the shapefile you want to import and click the button 'ADD'

Click Next

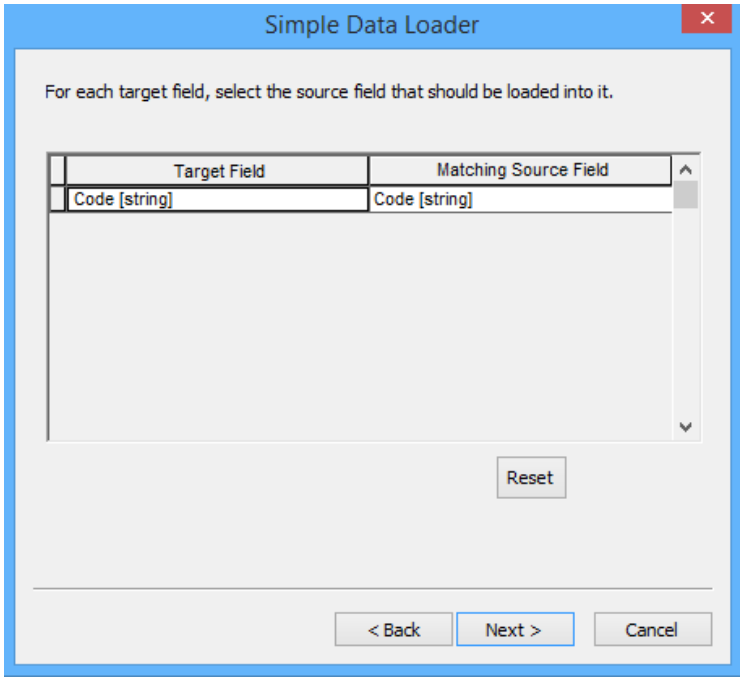


Preparing the GIS Data

Click Next



Select the 'Code' field that matches the source field



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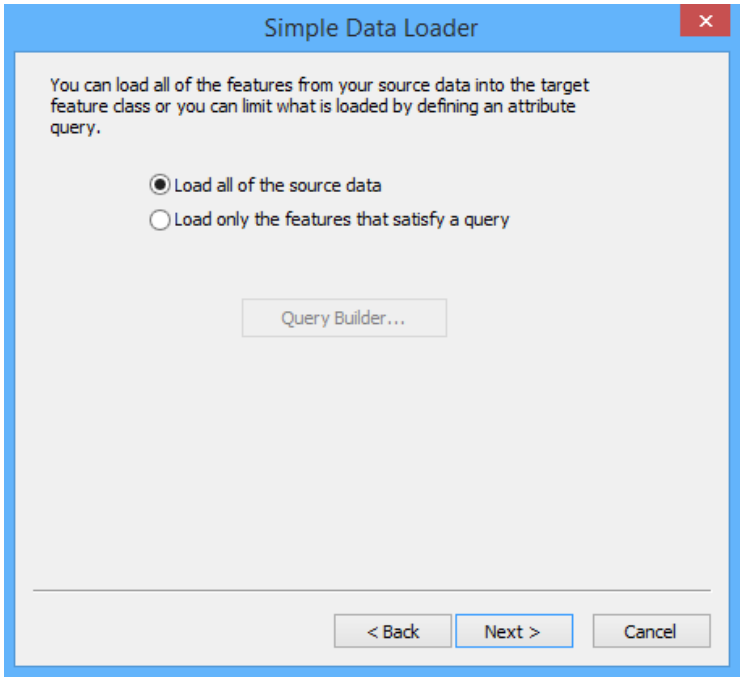
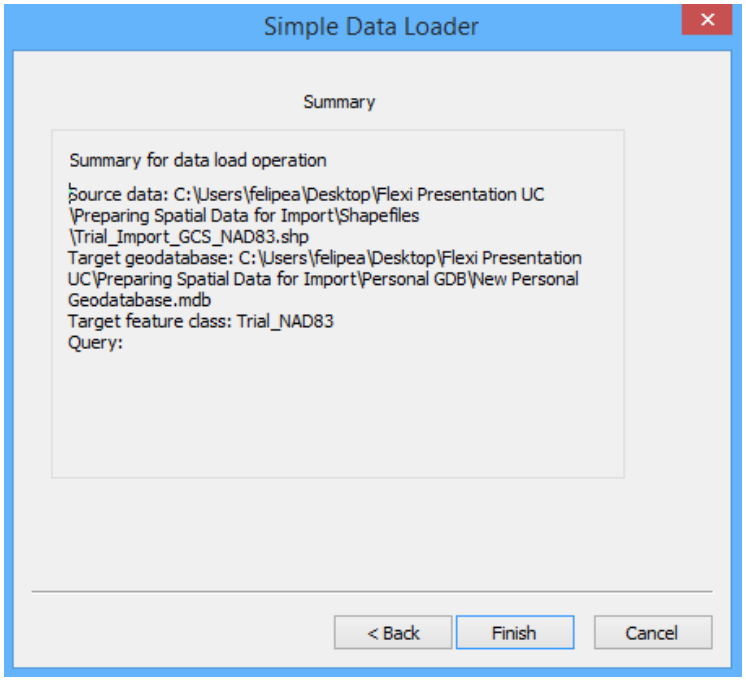
Preparing the GIS Data

Click Next

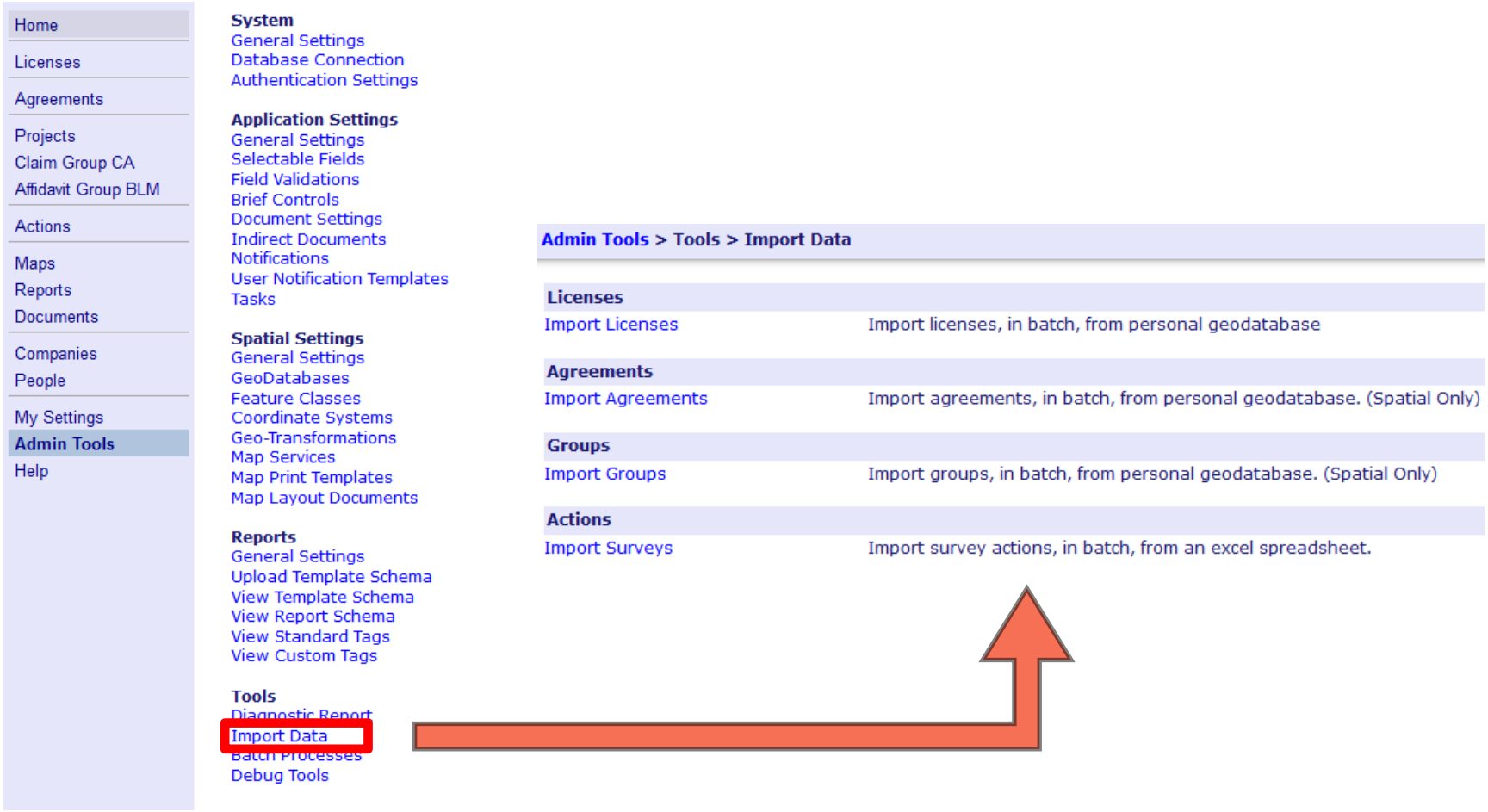


Click Finish



Importing the GIS Data into FlexiCadastre

The final step is to actually do the import



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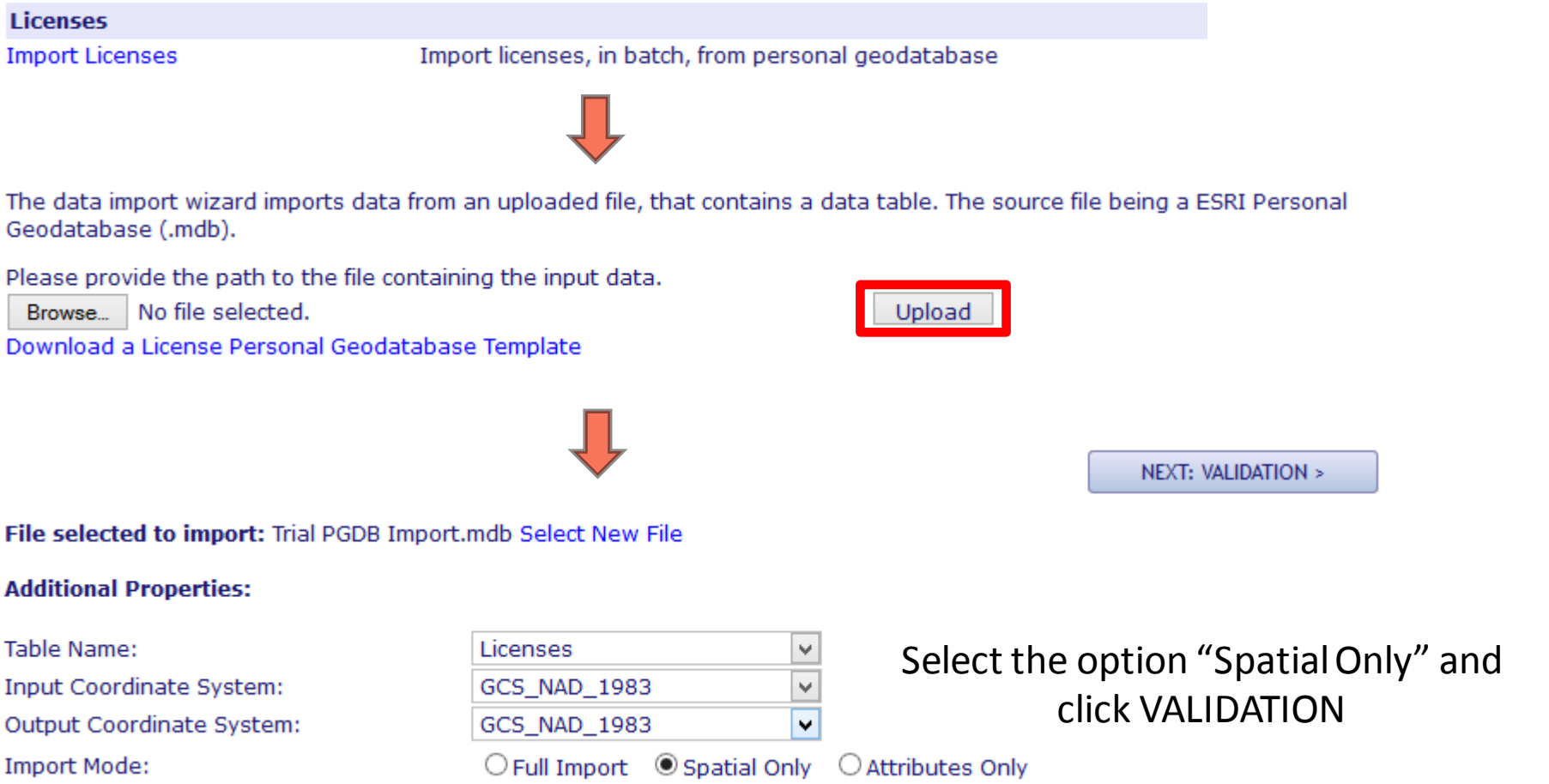
Importing the GIS Data into FlexiCadastre

Select the option “Import Licenses”



Select the option “Spatial Only” and click VALIDATION

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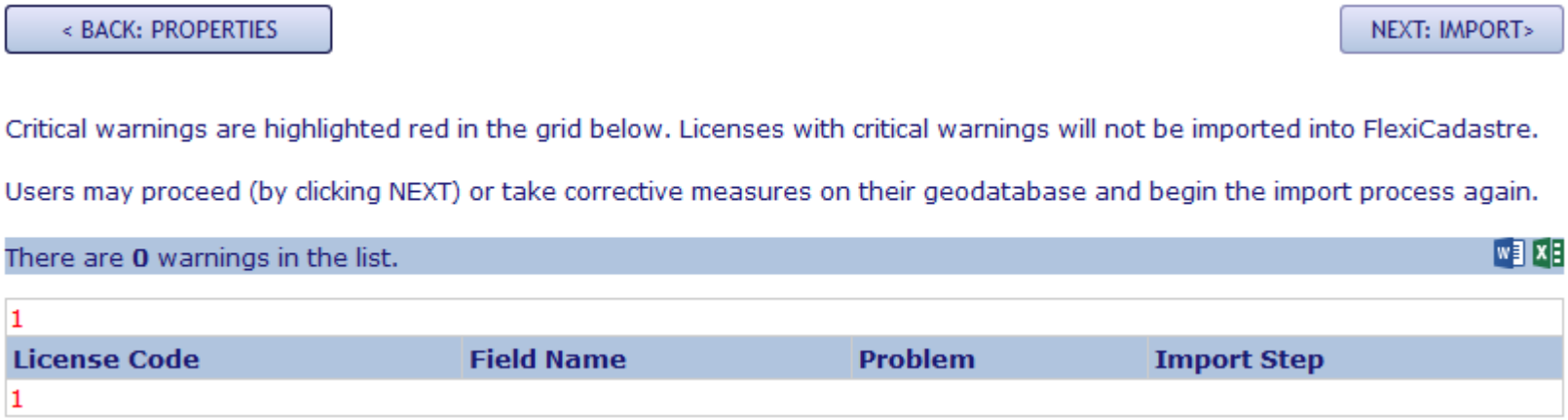
Importing the GIS Data into FlexiCadastre

Once the validation is finished FlexiCadastre will show the page below and if no problems were found you may execute the import.



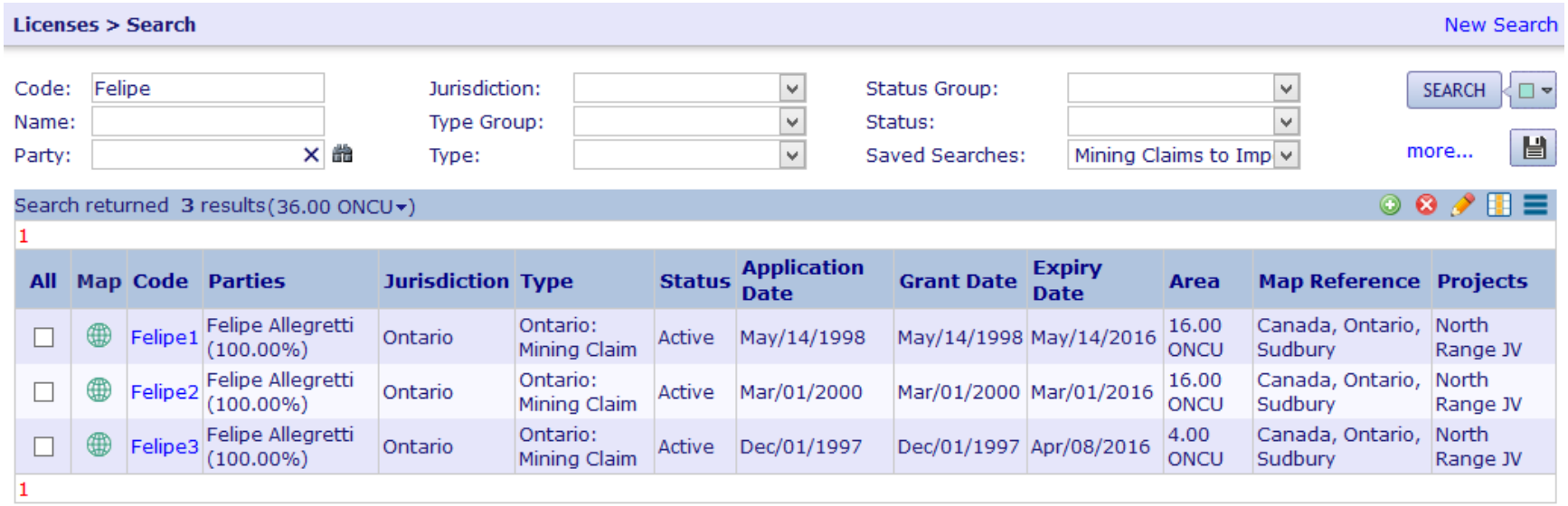
NOTE: Any problems found with the data will be listed here and should be analysed on a case by case basis. To avoid issues please follow all the previous steps.

Importing the GIS Data into FlexiCadastre

Once the import is finished click the FINISH button.

Checking the Data

To make sure the spatial data has been successfully imported click on Licenses in the Main Menu of FlexiCadastre and search for the licenses that you have imported shape into.



Licenses > Search — New Search

Code: Felipe | Jurisdiction: | Status Group: | SEARCH
Name: | Type Group: | Status:
Party: | Type: | Saved Searches: Mining Claims to Imp | more...

Search returned 3 results(36.00 ONCU)

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All	Map	Code	Parties	Jurisdiction	Type	Status	Application Date	Grant Date	Expiry Date	Area	Map Reference	Projects
☐		Felipe1	Felipe Allegretti (100.00%)	Ontario	Ontario: Mining Claim	Active	May/14/1998	May/14/1998	May/14/2016	16.00 ONCU	Canada, Ontario, Sudbury	North Range JV
☐		Felipe2	Felipe Allegretti (100.00%)	Ontario	Ontario: Mining Claim	Active	Mar/01/2000	Mar/01/2000	Mar/01/2016	16.00 ONCU	Canada, Ontario, Sudbury	North Range JV
☐		Felipe3	Felipe Allegretti (100.00%)	Ontario	Ontario: Mining Claim	Active	Dec/01/1997	Dec/01/1997	Apr/08/2016	4.00 ONCU	Canada, Ontario, Sudbury	North Range JV

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Questions

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Thank You

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