

Empowering Women in Geospatial Information Technology

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## Create your own data with EO datasets

### Create your own data in QGIS Adding Google satellite image

- Right click on XYZ Tiles in the Browser panel -> New Connection
   A XYZ Connection window appears
- ≻Enter **Name**
- ≻Paste the **URL** given below:
- http://www.google.cn/maps/vt?lyrs=s
- <u>@189&gl=cn&x={x}&y={y}&z={z}</u>
- Click OK

\*For other connections: <u>https://www.geodose.com/2018/03/how-</u> <u>to-add-google-maps-layer-QGIS-3.html</u>





#### Create your own data in QGIS Adding Google satellite image

New connection 'Satellite image' appears in the Browser panel
 Double click on the Satellite image



Image appears in Layers panel)



#### Create your own data in QGIS Creating new shapefile (Point) QNEW Shapefile Layer

- Navigate to your target region
   Click on the New Shapefile Layer icon
   Browse the folder where you want to save the created Shapefile & Name
   Select Geometry type as Point
   Type LULC in the Name field under New Field
- >Select Type as Text
- >Click on Add to Fields List and OK

➤Created layer appears in the Layers panel

🔇 New Shapef	ile Layer			X	
File name		Capacity Building in Current Systems & General Training \Women GIT -June 2021 \Day 3 \LULCshp 🚳 🛄			
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Fields List					
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id	Integer	10			
Name	String	80			
Class	Integer	10			
				Remove Field	
				OK Cancel Help	

- Select the layer from the Layer panel
  Click on the toggle editing icon 
  Digitizing toolbars is highlighted
  Click on the Add point feature icon 
  You will observe a circle cursor follows your mouse
- Start collecting point features



### Create your own data in QGIS Creating new shapefile (Polygon)

- ► Follow the same steps to create polygon shapefile
- $\succ$ Once the polygon layer is added in the Layer Panel, click on toggle editing mode 🥖

#### >Advanced Digitizing Toolbar is

highlighted

Click on the icon Add Polygon feature



Newly build polygon shapefile



► Start digitization

- Setting transparent color to polygon
- >Click on Properties-> Symbology
- ≻Change the **opacity** parameter from 100% to **50%**
- ➤Click apply





#### Splitting polygon

- ►Select layer in the Layer Panel
- Click on the Split Feature icon 📰
- ➢Place your mouse on the polygon (from where you want to split) and click outside the polygon
- Drag the mouse over the another end of the polygon (where you want to end the split) and click and then right click
   Polygon is splitted into two



- Reshape polygon (helpful for adding or deleting certain region)
- Select your layer
- ≻Click on the **Reshape Feature** icon
- Place your mouse (where you want to add the part)
- Start digitizing from the inside of the polygon
- ➤Come back to the inside of the polygon and click and then right click



- Using Snapping tool (Helpful for tracing and snapping at intersection)
- >Click on the Enable Snapping icon 🔊
- >Click on Advaced Configuration
- Edit Advance Configuration and select the editable
- layer/layers in which you want to trace
- >Select the Open Snapping Options and set your
  - preferences





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- Select the Add polygon icon
- >Select the layer you want to trace
- ➤You will notice a purple color icon snapping guideline follows your mouse cursor ➤Start tracing
- $\succ$ Click on the polygon and finish the tracing



## Can you create the line (road) data?

#### Thank you

# Let's protect the pulse.