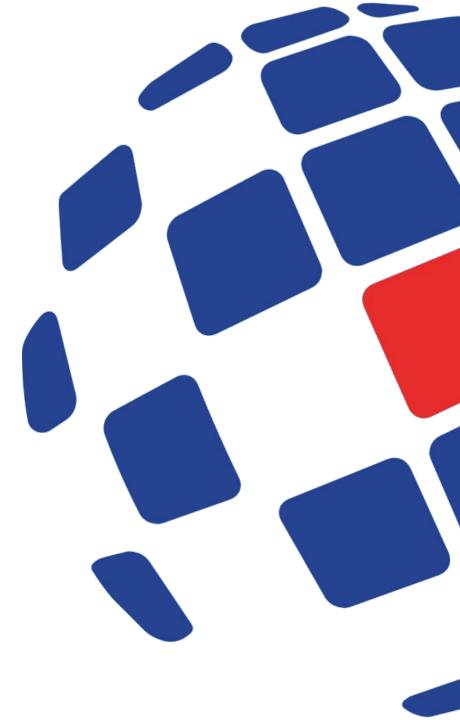


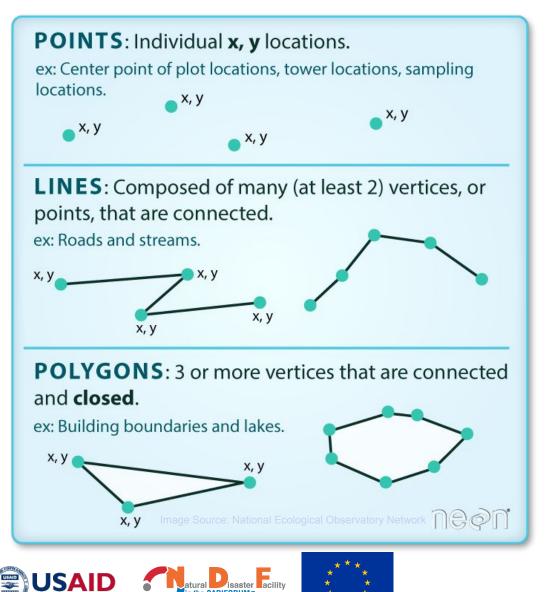
# October 2023 - Dominica GIS Data: Vectors





# **Vector Data - Structure**





Vector data (point, line or polygon) are all made up of series of points or vertices

Each individual point, line or polygon has separate line in the attribute table where information about the object is stored

The most popular data format for vector data is the Shapefile (Shp)

https://datacarpentry.org/organization-geospatial/02-intro-vector-data/



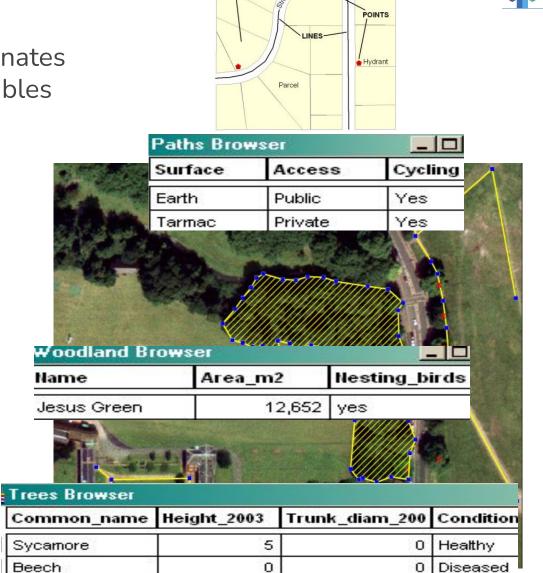
# **Vector Data**

- Features represented by series of coordinates
- Features have attribute information in tables
- Generic term is vector data

1	ID	Plot Size	Туре	VegClass
2	1	40	Vegetation	Conifer
3	2	20	Vegetation	Deciduous
•	3	40	Vegetation	Conifer
1	Exc ID	ample Attributes Type	for Line D Status	ata Maintenan
	1	Road	Open	Year Round
3	2	Dirt Trail	Open	Summer
2	3	Road	Closed	Year Round
	Exan ID	nple Attributes f Type	or Polygon Class	Data Status
2	1	Herbaceous	Grassland	Protected
	2	Herbaceous	Pasture	Open
-3			Grassland	Protected







POLYGONS

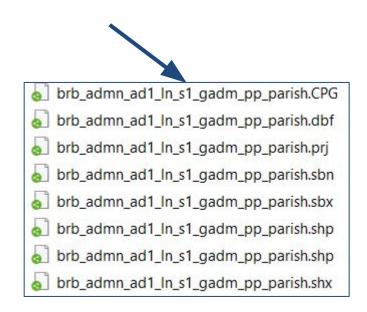




# **GIS Mapping Data Formats**

#### **VECTOR DATA**

- GPX GPS standard format
- KML/KMZ Google Earth/Map
- ShapeFile SHP ESRI widely used multiple files
- QGIS Geopackage ESRI Geodatabase
- Excel.xlsx, CSV, DBF









# **Adding Vector Data**

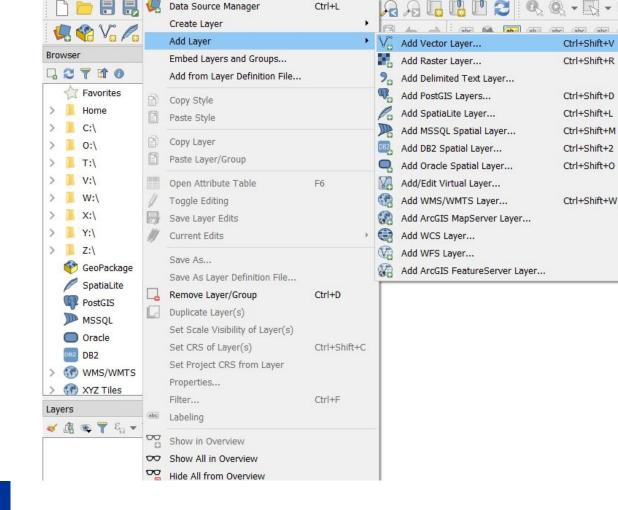
Q my\_project - QGIS

Project Edit View



#### Adding SHAPE file

- Add Layer
- Add Vector Layer



Raster

Ctrl+L

Database

Web Processing Help

Layer Settings Plugins Vector

Data Source Manager





# Add Data

Add Vector Layer

Q Data Source Manager | Vector

Browser

V Vector

Raster

Mesh

CPS 🐺

🚬 Point Cloud

😪 GeoPackage

Delimited Text

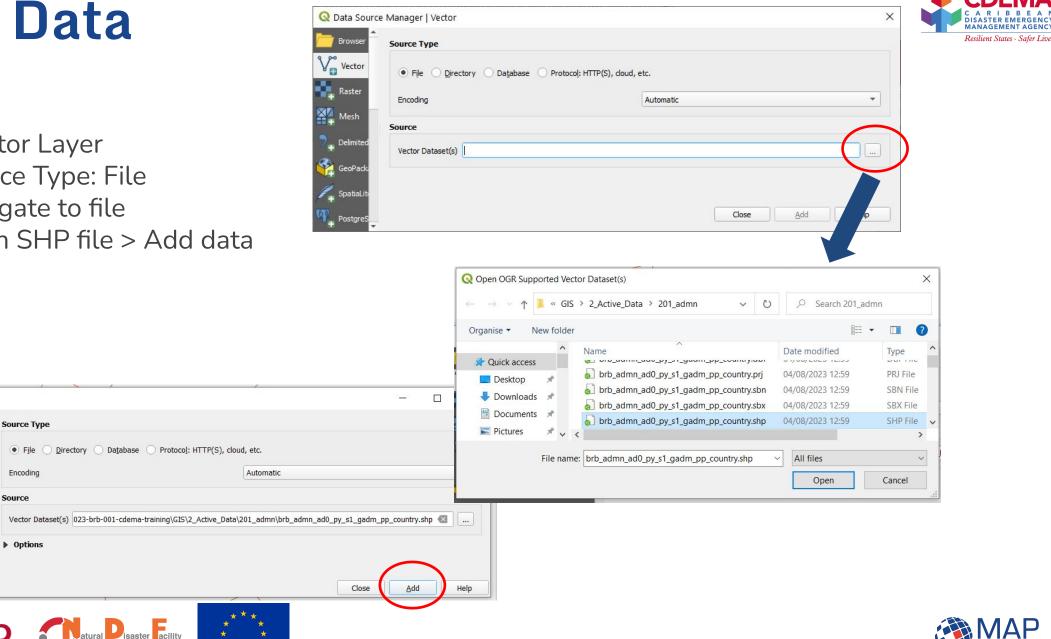
USAID

FROM THE AMERICAN PEOPL

- Source Type: File
- Navigate to file
- Open SHP file > Add data

1 the CARIFORUM Programme

ling Resilience in the Caribbear

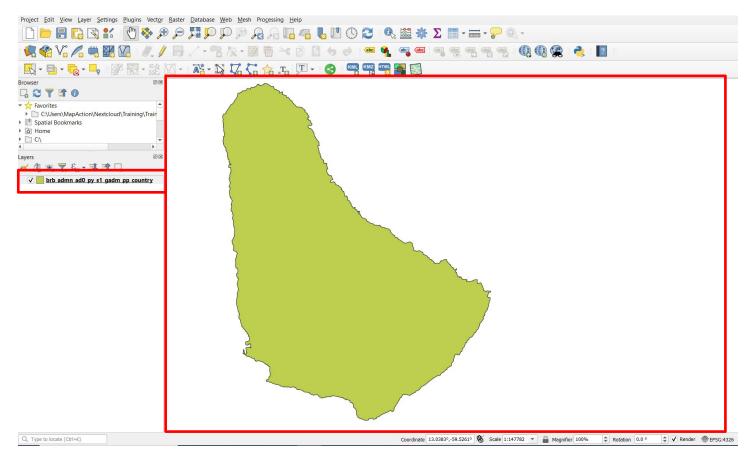




### **Add Data**



- The layer had been added to the map window
- The name is also shown in the layer list panel



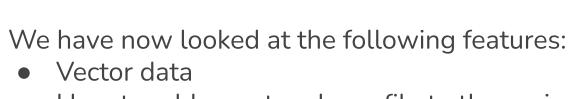










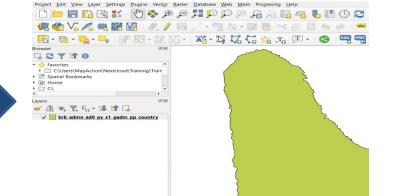


Conclusion

• How to add a vector shape file to the project

#### Q my\_project - QGIS

Project Edit View	Layer Settings Plugins Vector Raster Databa	ase Web Processing Help
	Ctrl+L	A G 🖪 🖪 🕐 🈂 🔍 🗸 - 🖳 - 🗉
V.C.	Create Layer	B 📥 📥 abe ณ 🖬 abe abe abe at
	Add Layer 🔸	√ Add Vector Layer Ctrl+Shift+V
Browser	Embed Layers and Groups	Add Raster Layer Ctrl+Shift+R











### This programme is gratefully supported by



mapaction.org