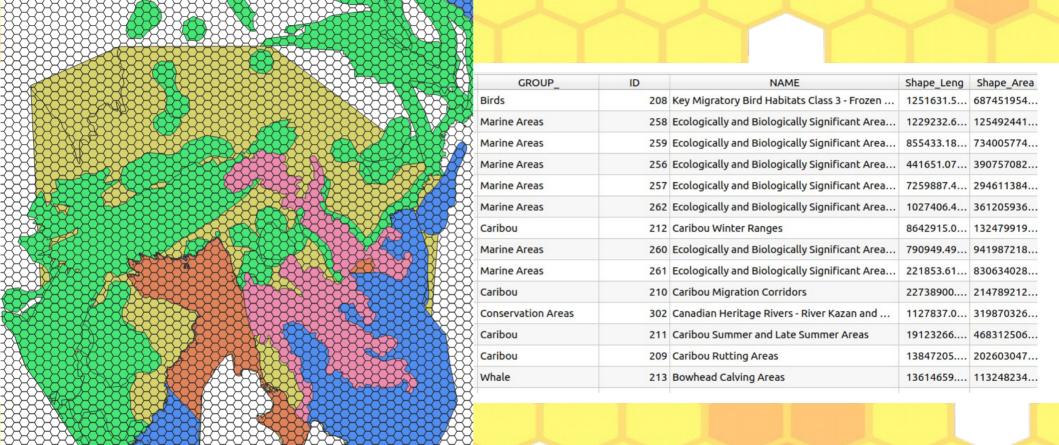


- Nunavut Planning Commission https://www.nunavut.ca/
- "The NPC is responsible for the development, implementation and monitoring of land use plans that guide and direct resource use and development in... Nunavut"
- https://www.nunavut.ca/land-use-plans/draft-nunavut-land-use-plan
- https://www.nunavut.ca/land-use-plans/interactive-maps
- https://lupit.nunavut.ca/portal/registry.php
- Adrian Gerhartz Planner /GIS (867) 979-8255 Agerhartz@nunavut.ca

- Marxan A decision support software for conservation planning
 - https://marxansolutions.org/
 - Useful tool but takes data in a particular format
 - Uses a hexagonal grid and specific file formats instead of ingesting geospatial data directly





- - Each Hexagon has a Planning Unit ID (PUID)
 - Each Conservation Feature (eg. caribou habitat, bird migration route, etc) has a CFID
 - What is the area of overlap of each CFID with each PUID?
 - This makes a big table with PUID as rows and CFID as columns

Goal: Automate the process of preparing data for use in the conservation planning software Marxan

Create a planning unit hexagonal grid with user input on hexagon size and grid size and position. Autopopulate a planning unit ID (PUID) field

- Take input on which planning unit(s) the proponent project will occupy (this can be clicking on a map, providing a shapefile/kml/etc or PUIDs)
- Allow user to select planning layers to load (or point to folder containing all of them).
- Load planning layers
- Enable user query of relevant planning features (query by area or by Group for example) to use in the analysis
- Ensure a consistent and appropriate CRS is being used
- For each project PUID, calculate the area of overlap with the each conservation feature (CF) from the planning layer and record this in a csv a sparse matrix of PUID (rows) vs CFID (cols) with overlap area as values.
- Reorganize the file so it can be ingested by Marxan (listing PUID-CFID pairs).