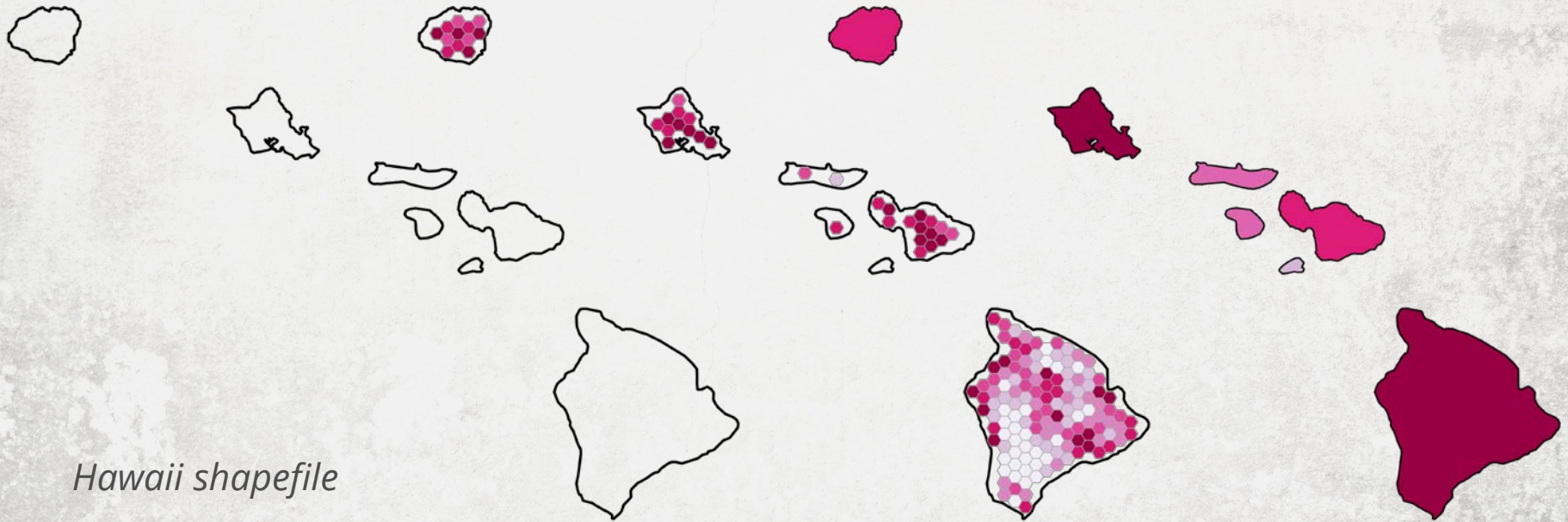


RUNNING INVEST RECREATION

- Walk through **User-Interface**
- **Preparing Inputs:** data layers that predict visitation
- **Exploring Outputs:** patterns of visitation
- **Scenarios**

AREA OF INTEREST

To grid or not to grid

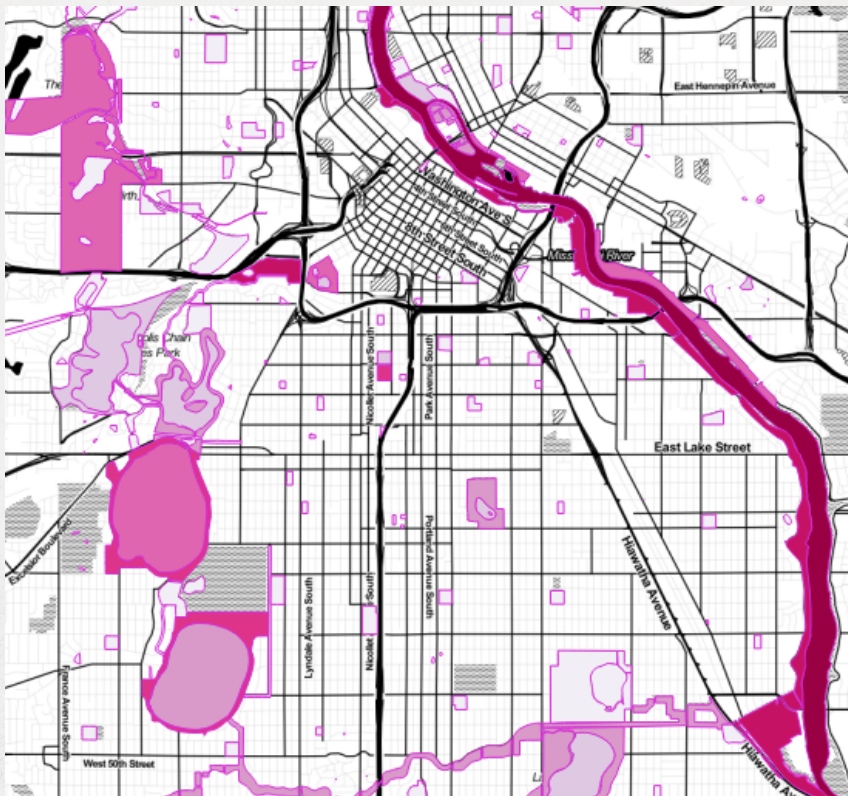


Hawaii shapefile

UTM projection

AREA OF INTEREST

To grid or not to grid



Minneapolis Parks

INPUT DATA

What is driving the spatial pattern of visitation in my study area?

- **Access**
 - where is it possible for tourists to go?
- **Amenities**
 - what services or amenities do tourists require?
- **Attractions**
 - what are the tourists actually there to see/do?

INPUT DATA

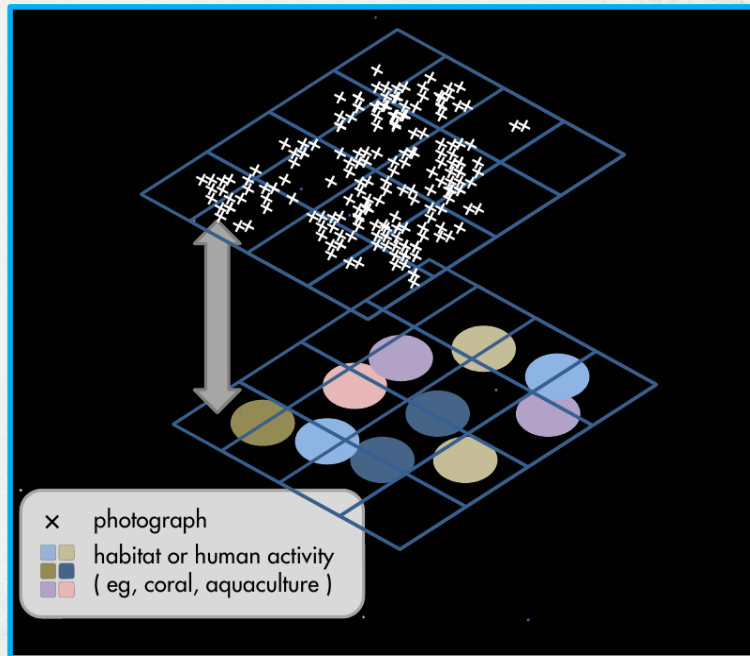
In terms of GIS data...

- **Access**
 - roads, airports, public v. private property
- **Amenities**
 - hotels, shops, tour guides
- **Attractions**
 - beaches, parks, coral reefs, museums

INPUT DATA

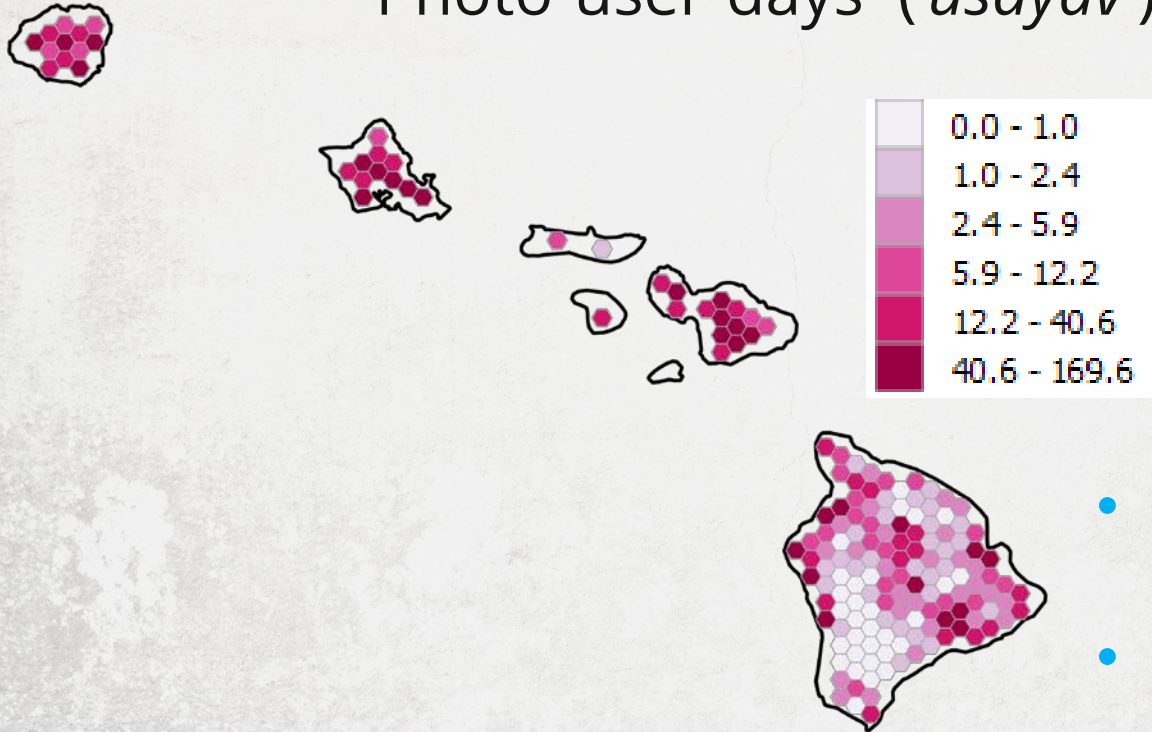
What does the model do with these inputs?

- Points: # of points in a cell/polygon
- Lines: total length of segments
- Polygons: total area of polygon



EXPLORING OUTPUTS

Photo-user-days ('usdyav')



- Annual average of 8 years of flickr data
- Not to be interpreted as real numbers of visitors

EXPLORING OUTPUTS

- Output variables:
 - *usdyav* – average annual user-days
 - *usdyav_pr* – each cell's proportion of total
 - *usdyav_est* – estimated user-days from regression model
- Output shapefile also has the counts of points, lines, polygon predictor variables

EXPLORING OUTPUTS

- Data from grid.shp is used to build the regression model
- A csv file reports parameters of the regression.

SCENARIOS

What can scenarios represent?

- Infrastructure developments
- Conservation actions
- Land Use change or Habitat distribution change

SCENARIOS

and in terms of input GIS data...

- Edit some of the input shapefiles
 - add/subtract points/lines/polygons
 - Update habitat range maps
- * Scenarios cannot include new predictor variables, only modified or updated versions of the same inputs.

MORE RESOURCES

- InVEST User's Guide
- NatCap Forums
- Marine & Coastal Sandbox – Wed @ 1:30