

# Regional Industry Cluster Analysis

## Using Spatial Concepts

### VII. Geography of vehicles

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# Module organization

- Scenario and goal
- Analysis pre-requisites
- Measures
- Application: Industry concentration using aggregate and composite VC sectors

# Scenario

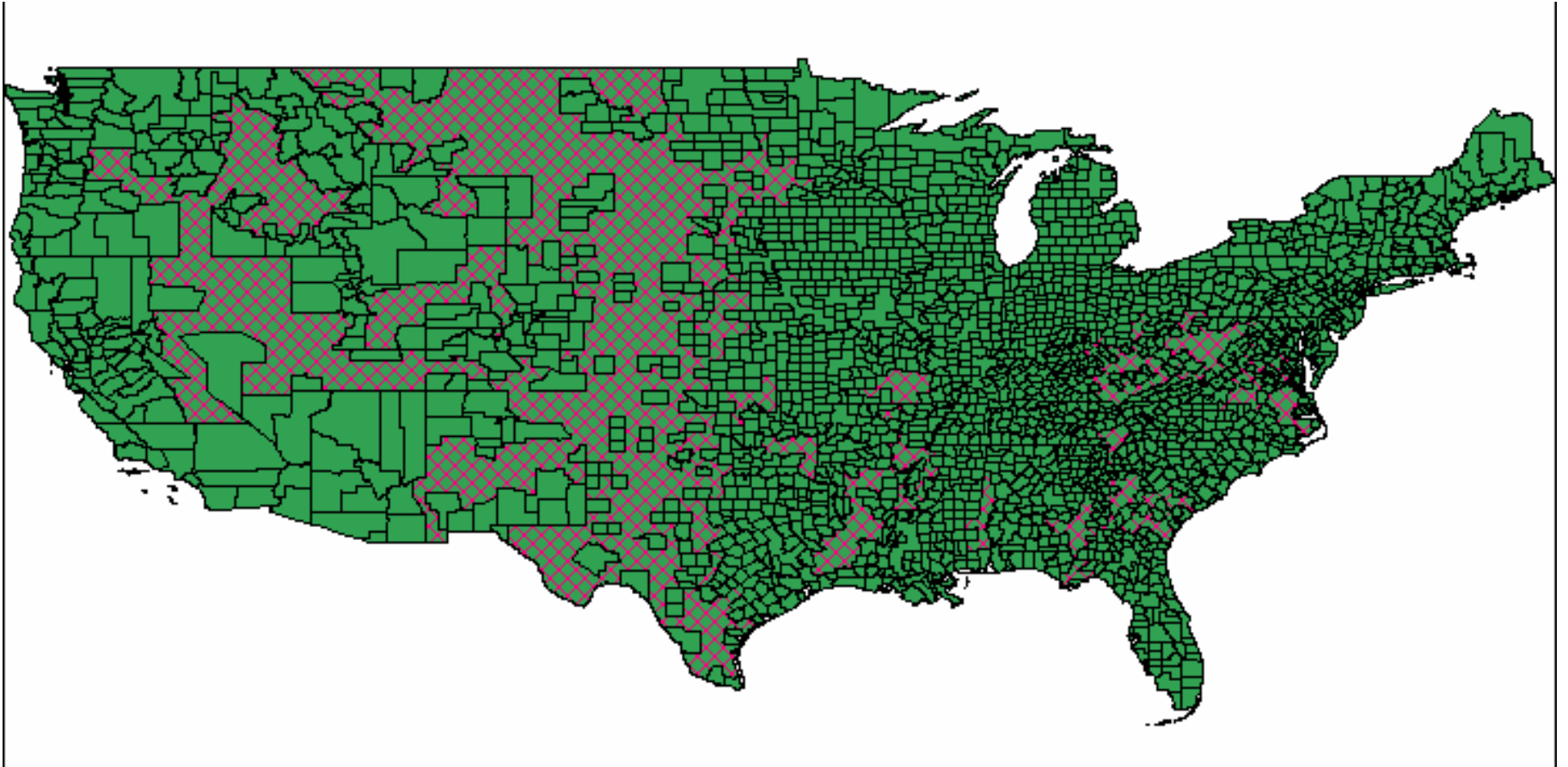
- You suspect that the components of a high value-added chain might be present in your region and that policies or incentives might be used to foster growth and interaction among selected industries
- Goal: Gain insight into industrial composition and local-to-national geography of a targeted set of industries

# Scenario

- Challenge: You need to work with multiple spatial scales simultaneously and retain industry detail

# Analysis pre-requisites

- As in previous application, there is a trade-off between spatial and industry aggregation
- Since using small set of value chains, geography of zeros is relatively stable
  - Exploit by defining custom geography
  - “Industrial” deserts and oases
- Implementation: not trivial, designing SAS routines to distribute



# Application

- Open map: VEH\_CTY1.shp
- Open data and use Table>Join Table to append file VEHCTY1\_DAT.DBF to map.
- Add sectors of interest (see variable defs.) and experiment with GeoDa
  - Which measures to select?
  - Create alternative weight matrices
  - Use global and local Moran's I, interpret
  - Parallel coordinates to explore among subsectors