

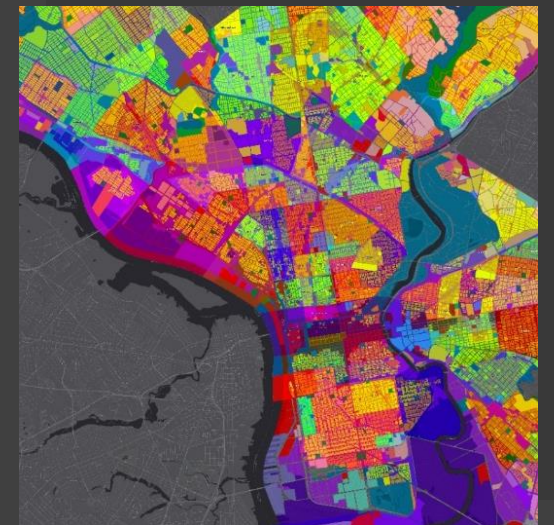
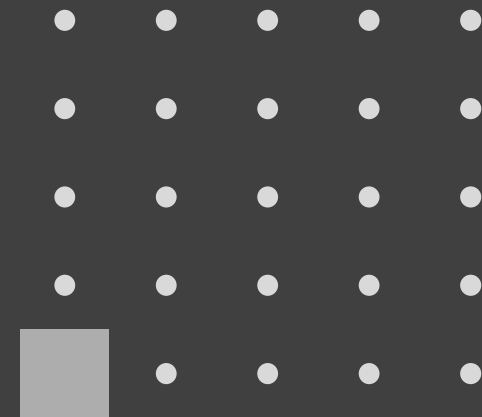
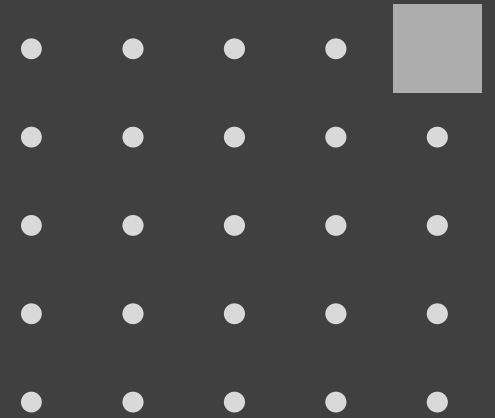
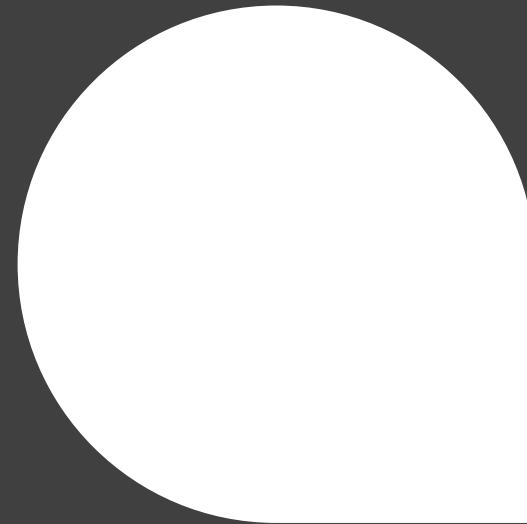


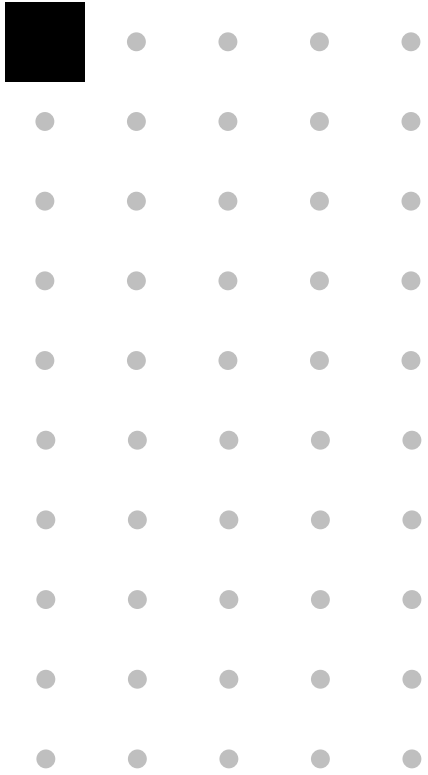
2nd Philippine Data Festival

Visualizing and Analyzing Statistical Data with GIS

Liz Linda A. Moraleda

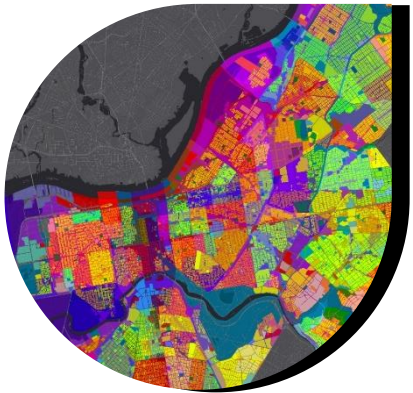
Training Supervisor I Geodata Systems Technologies, Inc.





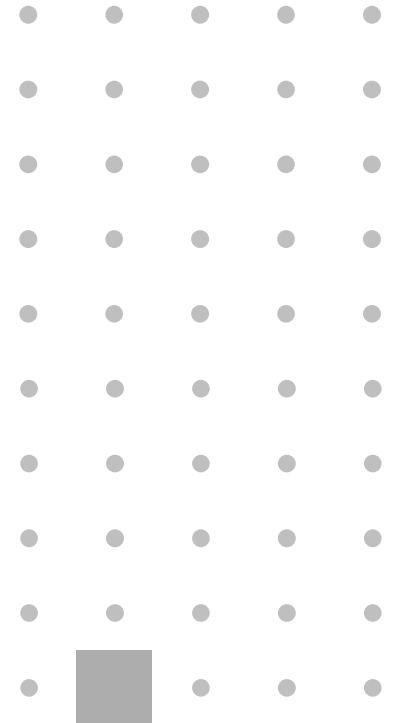
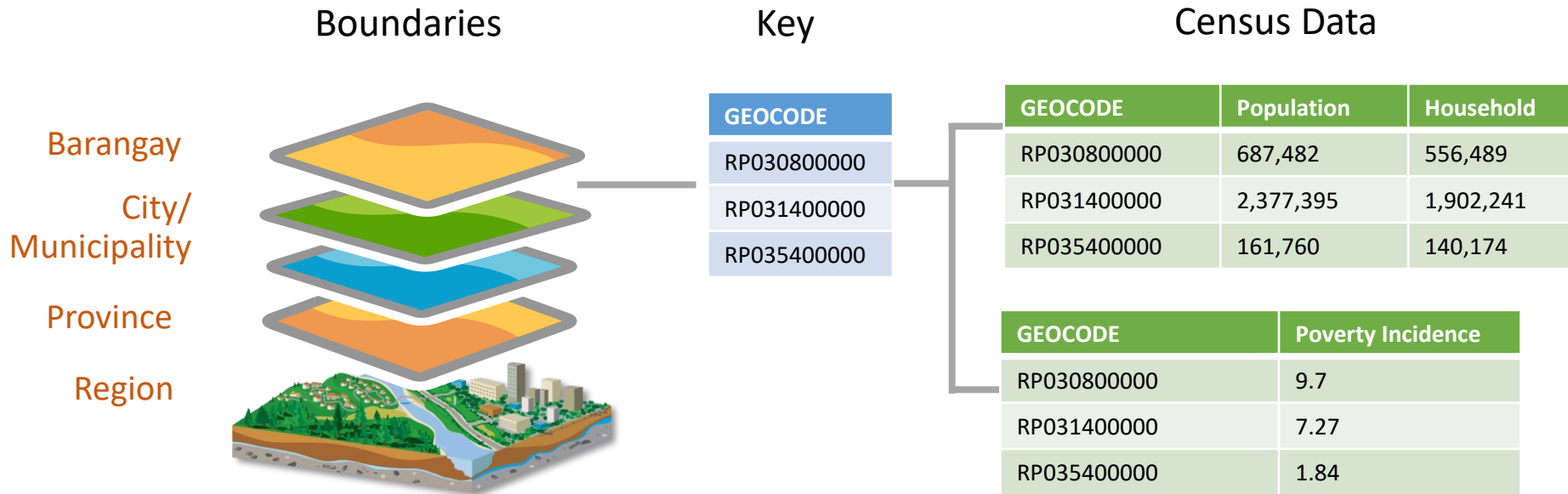
In this session...

- Incorporate and leverage statistical data's spatial property in doing statistical inquiry using a technology called Geographic Information Systems (GIS)
 - Data Visualization in ArcGIS
 - Spatial Analysis in ArcGIS
 - R-ArcGIS Integration



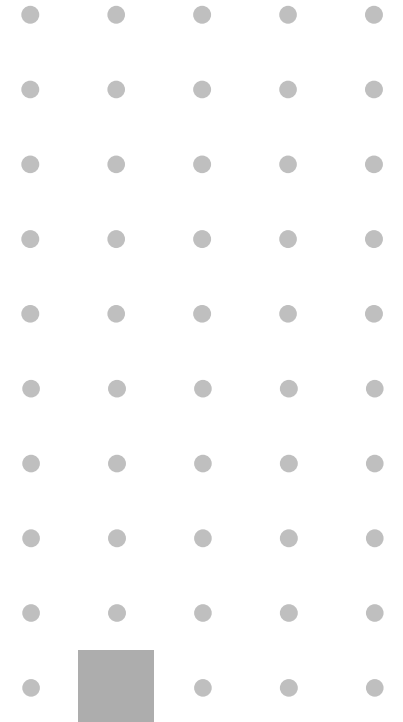
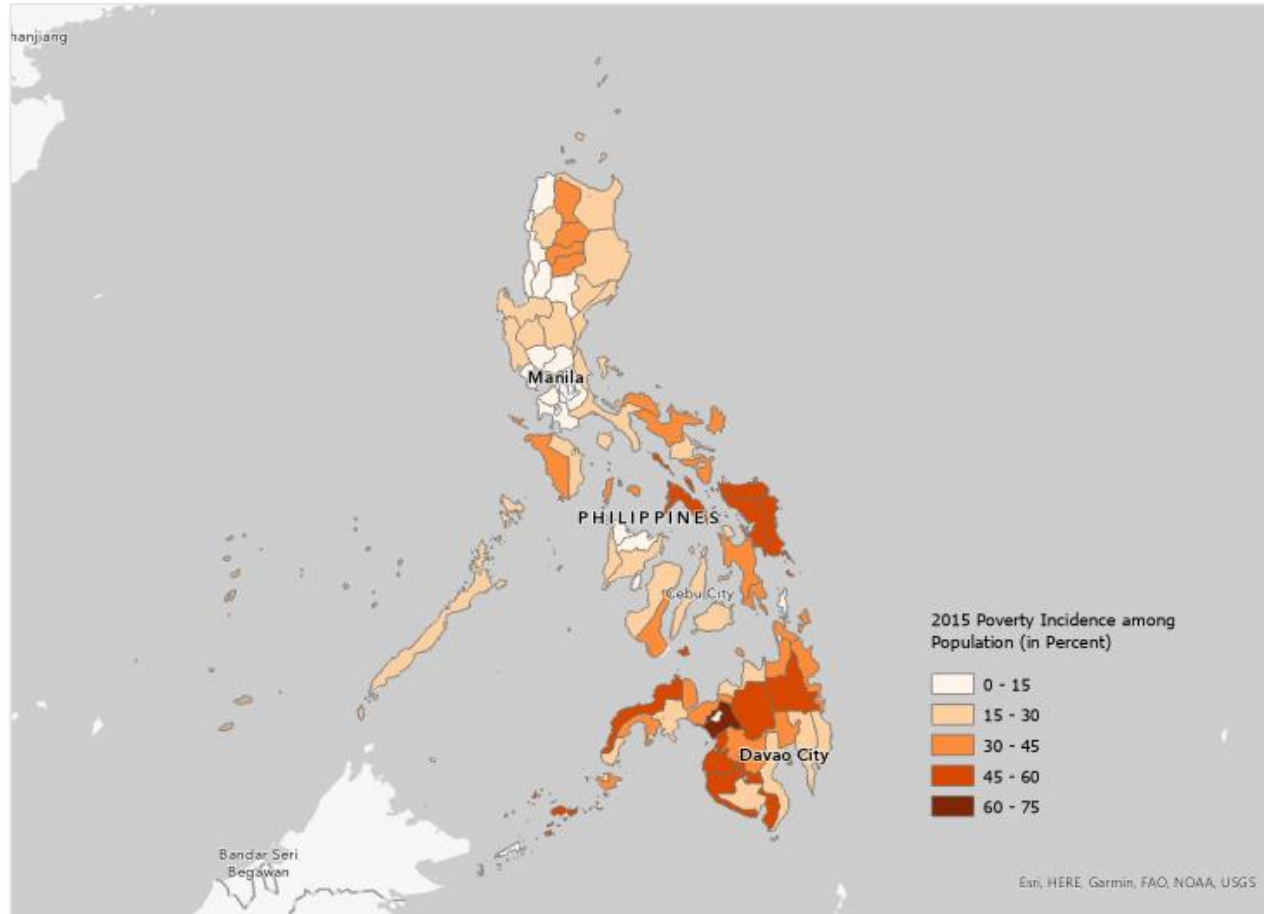
Geography and Statistical Data are Foundational

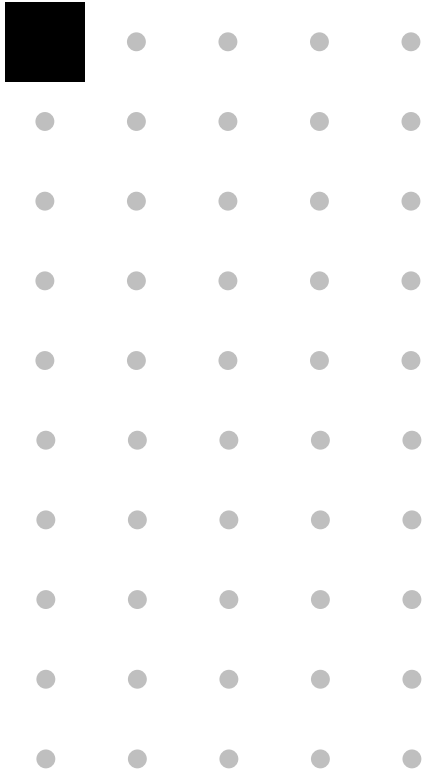
An Integrated Data Model is Essential



Integrating Geography and Statistics

To Understand Poverty





Demo 1: Data Visualization in ArcGIS

GIS, Spatial Analysis, and Statistics

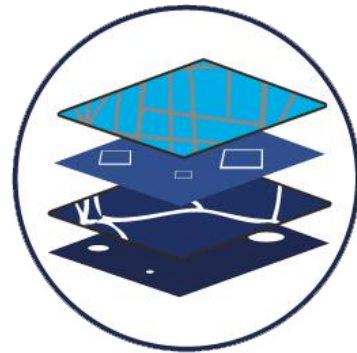


Proximity



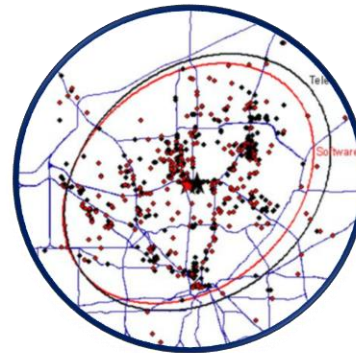
What is nearby?

Overlay



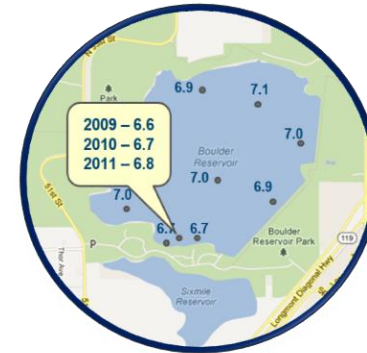
What is inside of or on top of what?

Statistical

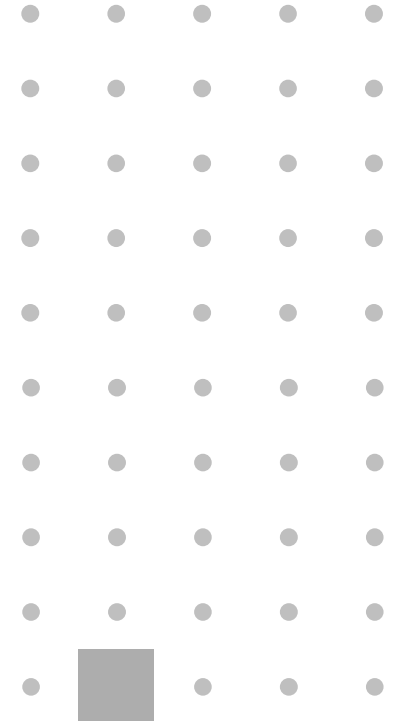


What do geographic patterns tell us?

Temporal



What changes have occurred over time?

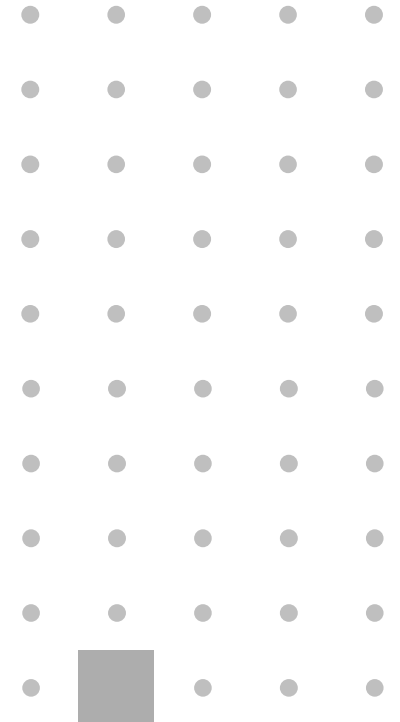


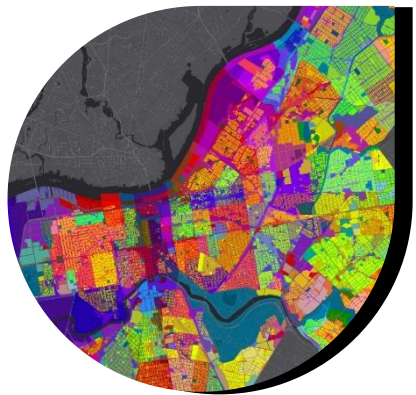
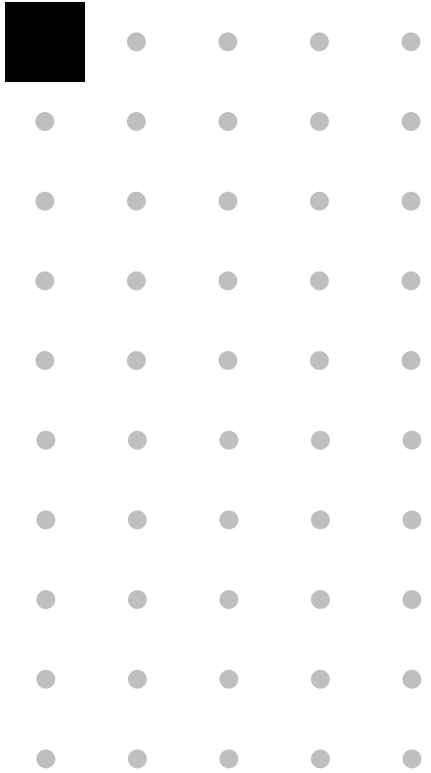
GIS, Spatial Analysis, and Statistics



- Mean
- Standard Deviation
- Min and Max

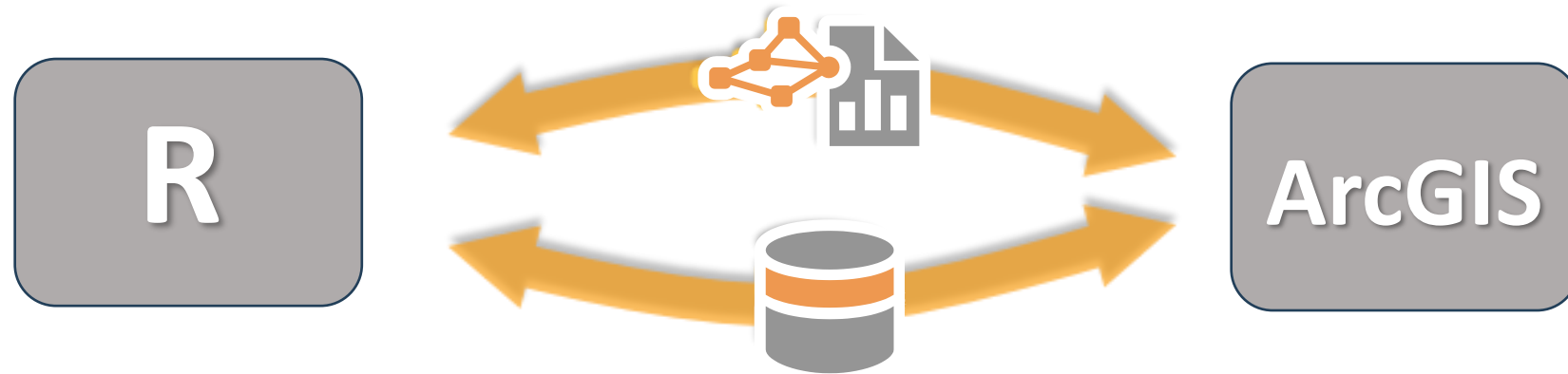
Spatial statistics are a set of exploratory techniques for describing and modeling spatial distributions, patterns, processes, and relationships.



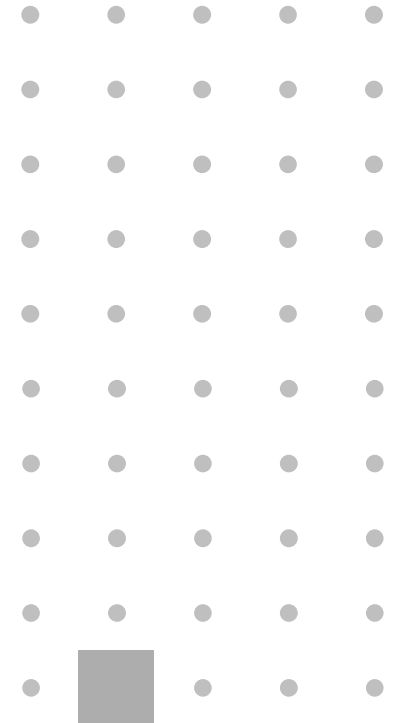


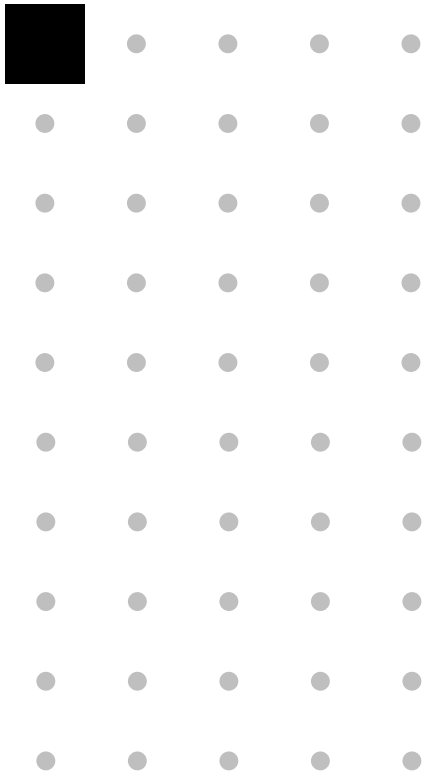
Demo 2: Spatial Analysis in ArcGIS

Integrating R with ArcGIS



Store your data in ArcGIS, access it quickly in R, return R objects back to ArcGIS native data types (e.g., geodatabase feature classes).





Demo 3:

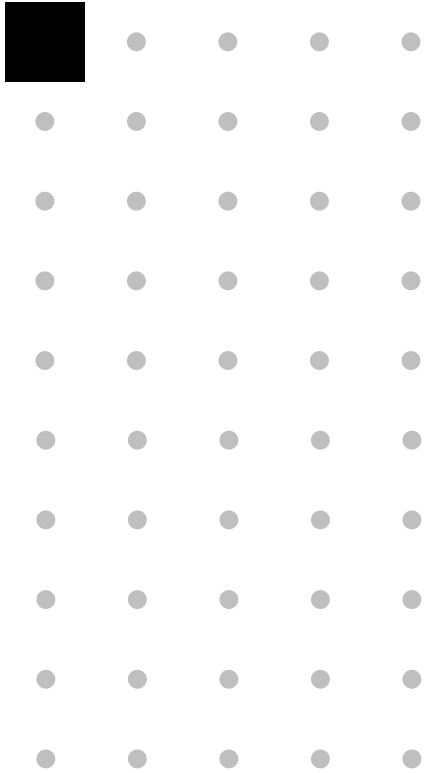
Solving statistical problem in ArcGIS and R

In Summary...



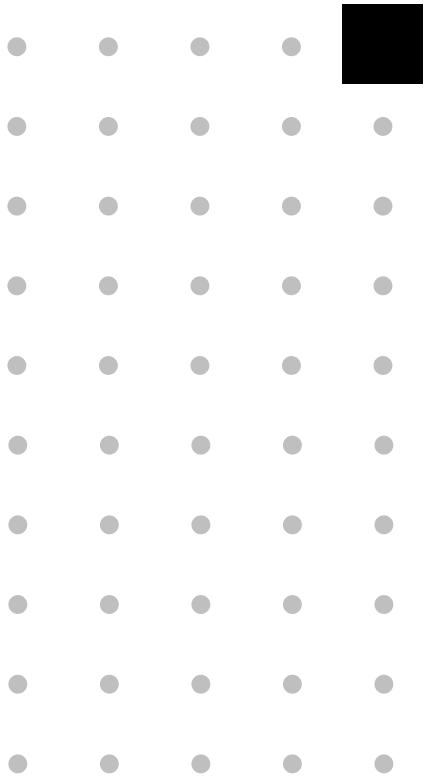
Using the **Science of Where** to understand our world — mapping where things are, how they relate, what it all means, and what actions to take.





Thank you for attending!





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Geodata Systems