GIS for non-GIS: Making Spatial Pattern Analysis Easy for Everyone

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GIS or not to GIS?
Visualization != Analysis

Disadvantages

- No “correct” approach
- Uses all dataset features
- Ignores local differences

Classic visualizing issue: using different approaches to data classification
Points’ Pattern Analysis

Common Method

- Build a vector grid on the distribution area
- Define an appropriate cell size
- Run analysis

Tourists clusters in Downtown Dubai based on Photos Locations
Area of Distribution
Nearest Neighbour Analysis on 1000 randomly generated points
Grid Size
**How it should work?**

**Create a Project**
Upload data to your datasets’ page
Create a map and add your data to the project

**Run Spatial Pattern Chain**
Move to Analysis Tab and run Spatial Analysis Chain

**Area of Distribution**
The algorithm would define the real world object where your object are distributed. It could be city boundary, country or even the natural park

**Appropriate Grid Size**
The system would define the appropriate grid size taking into account the geographical object and number of features

**Clusters & Outliers Analysis**
The algorithm is aimed to show local clusters (with high and low values) and outliers - territories

**Make Effective Decisions**
Explore the Analysis Result, process obtained data, share results

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Theft Patterns in Kyiv, 2017

Postal Branches Patterns

OpenStreetMap Data Patterns

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[In Progress] Land Classification & Time Series
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