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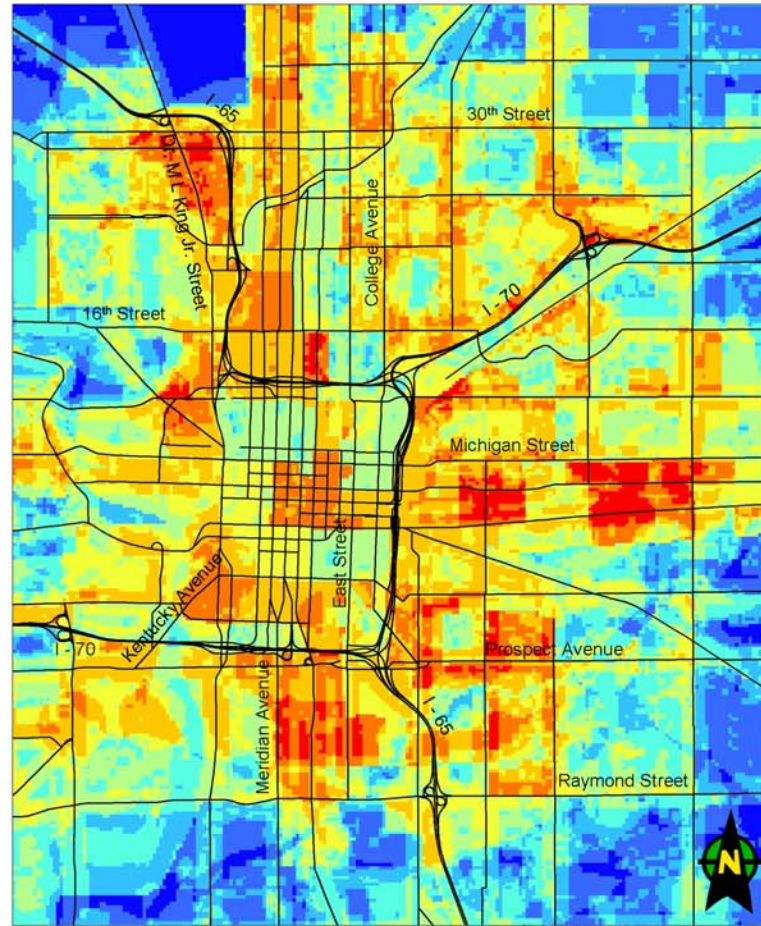
# Addressing Social and Environmental Needs through Community Tree Planting



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**Method:** Each of the nine layers represent an attribute of interest in developing this site selection model. The information in each layer was reduced to a binary or 0/1 grid. Zero indicates that the criteria fell below a pre-defined point in the data, such as the average crime rate or the median income. One indicates criteria at or above this point. The nine layers were then added together with each pixel in the grid representing a value from zero to nine.

**Results:** A value of zero indicates that none of the criteria were met and that the site would not be ideal for restoration. These values appear as blue in the model output. A value of nine indicates that all nine criteria were met and the site would be highly suitable for restoration. These values appear as red in the model output.



## Desired criteria for Center Township, Indianapolis, IN:

- Median family income below township average
- Higher than average crime rates
- Residential zoning
- Title V industrial sites
- Above average asthma rates
- Proximity to major streets
- Above average surface temperatures
- Below average tree canopy density
- Above average impervious surface density

### Criteria Met



## Criteria used in model development

| Income | Crime | Zoning | Industrial | Asthma | Streets | Thermal | Canopy | Impervious |
|--------|-------|--------|------------|--------|---------|---------|--------|------------|
|        |       |        |            |        |         |         |        |            |