Area-Level → Raster

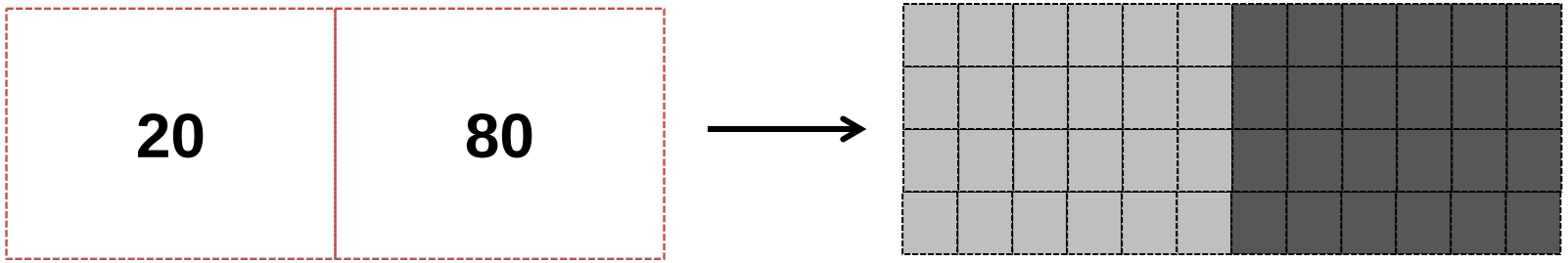
Spatial Reallocation

- Transform data from one spatial representation to another
  - Area-level to raster
  - Area-level boundary transformation, such as administrative boundaries to watersheds
- Varying levels of sophistication
  - Uniform distribution assumption
  - Dasymetric techniques incorporating ancillary data
    - People more likely to live near roads
    - Agriculture less likely to occur on steep slopes

Spatial Reallocation

- Area-Level → Raster
- Uniform Distribution Assumption
- Allocation based on smallest available geographic units

Original Boundaries



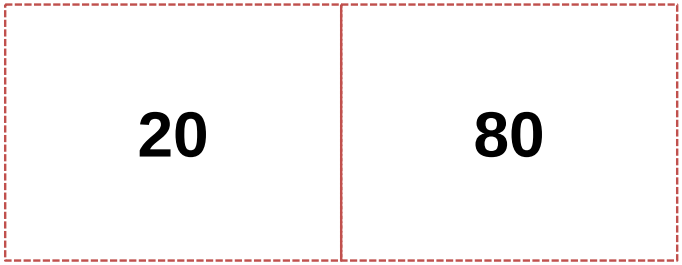
- Population spread evenly over all cells in each unit
- Value of all cells within a given unit is the same

0.4
1.7

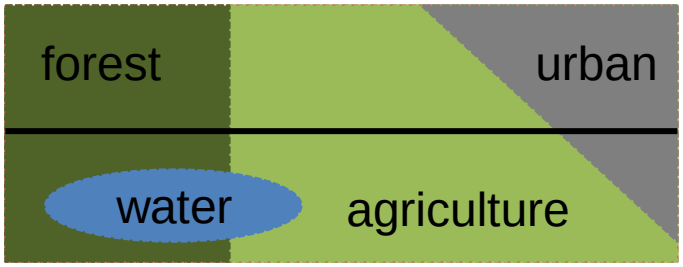
Spatial Reallocation

- Area-Level → Raster
- Dasymetric Techniques

Original Boundaries

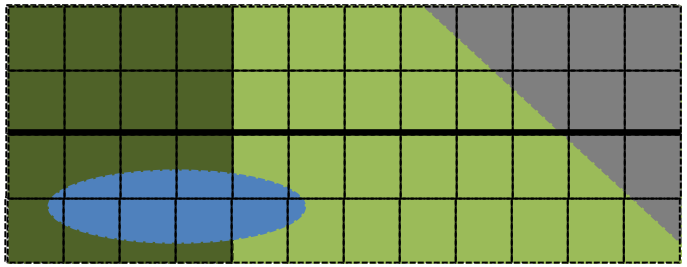


Ancillary data informs distribution of population over original units



Ancillary Data

road



Data Access System

DEMO VIDEO – RASTER EXTRACT