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The framework is investigated in the context of 'variable selection' for energy-based geodemographic classification [2,3]. Four stages (Input, Analysis, Locality and Output) are identified in which Scale Resolution (SR) and Extent (SE) [4,5] can be varied. 78 variables are compared over 4 geographical aggregations (SR) covering a SE of England: NUTS2 European regions (30), Local Authority Districts (326 LADs), Lower Super Output Areas (32,844 LSOAs) and Output Areas (171,372 OAs). The sensitivities and complexities of varying SR are investigated through visualization:

Varying SCALE RESOLUTION:

SUMMARY

This framework and prototype visualization enables the visual comparison of multivariate data across multiple scales and allows for local variations to be explored. The visual representations used in this case-study can be adapted to compare the effects of scale resolution and scale extent that occur when we aggregate and filter by time or attribute as well as geography in our analysis.