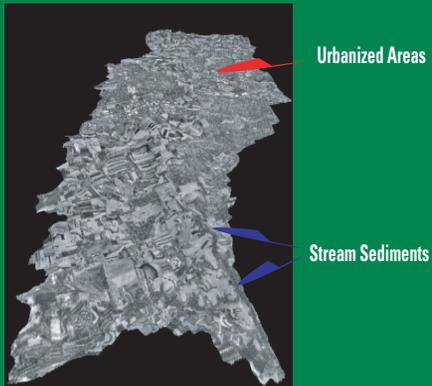


# ROMA: River Observatories for Management Applications

## GIS Analysis of Consequences of Land Cover and Land-Use Change: Land Cover Trends Analysis

By: Thomas Moreland, Steven Kamby, Robert G. Clark, Milan Pavich, and Roger Barlow

### Has Human-induced Land Surface Change Contributed to Sediment Mobilization ?

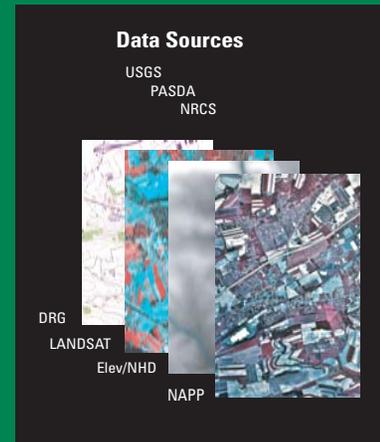


Little Conestoga

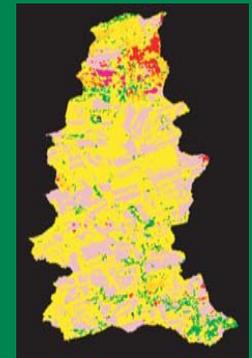
### Field Observations of Human-induced Land Surface Change



### Vertically Integrated Database

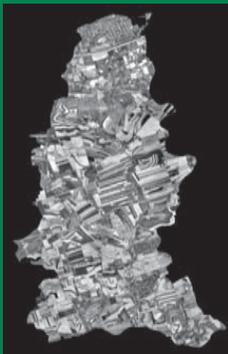


### National Land Cover Data-1992 (Integrate National Data)



USGS Generated

### Digital Ortho Photoquad (Integrate local County Data)



Lancaster County GIS Generated

### Land-use Data (Integrate local County Data)



Lancaster County GIS Generated

### Land Cover Trends Analysis

(Adapt National Land Cover Trends Methods to Regional Problems)

