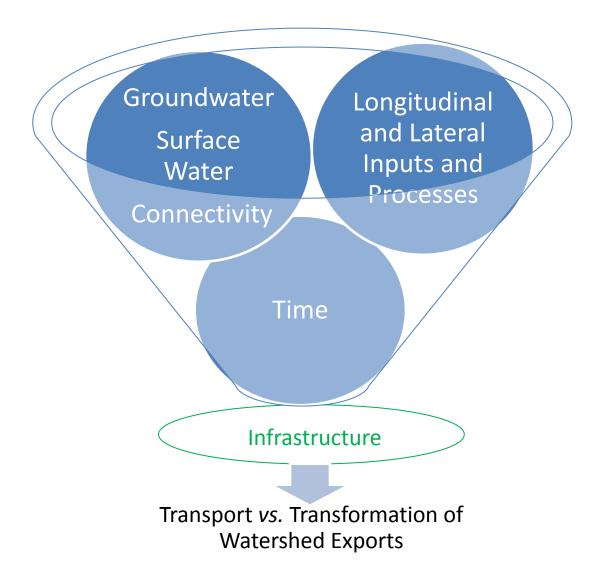
The Urban Watershed Continuum: Infrastructure and Ecosystem Function

Dr. Sujay Kaushal and Kenneth Belt

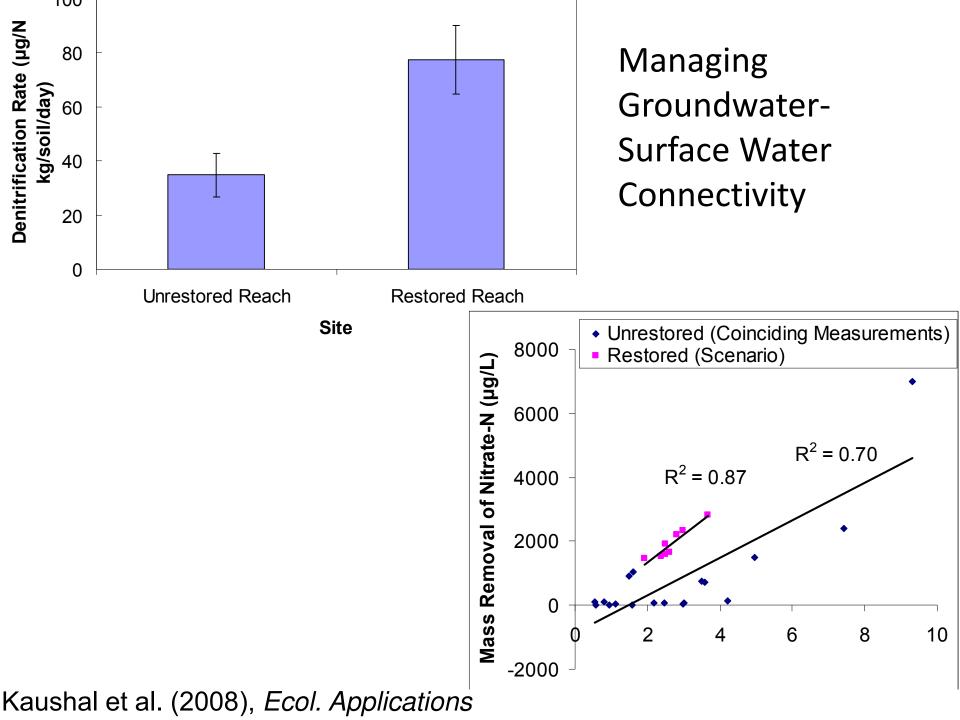
Department of Geology and Earth System Science Interdisciplinary Center University of Maryland-College Park

> U.S. Forest Service Northern Research Station

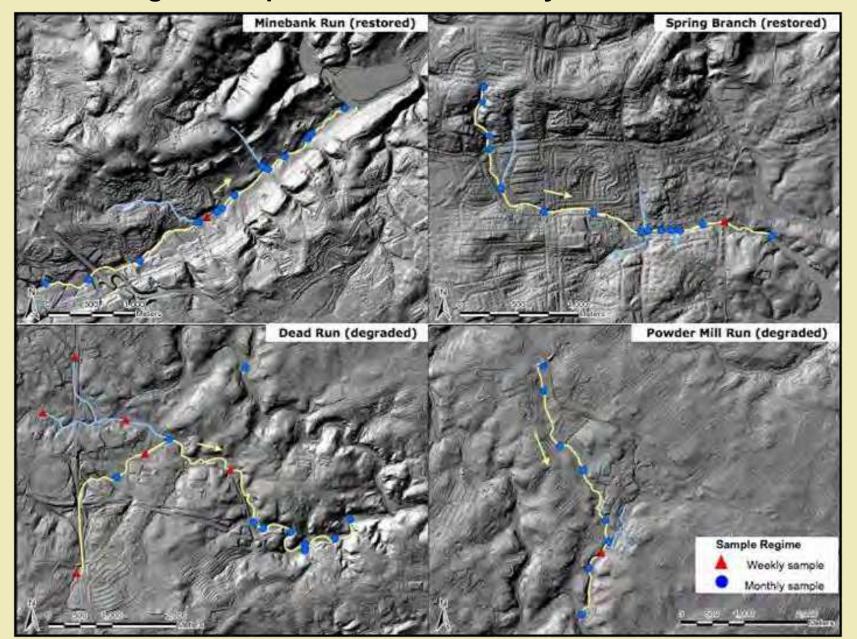
The Urban Watershed Continuum



Kaushal and Belt (2012) *Urban Ecosystems DOI:10.1007/S11252-012-0226-7*

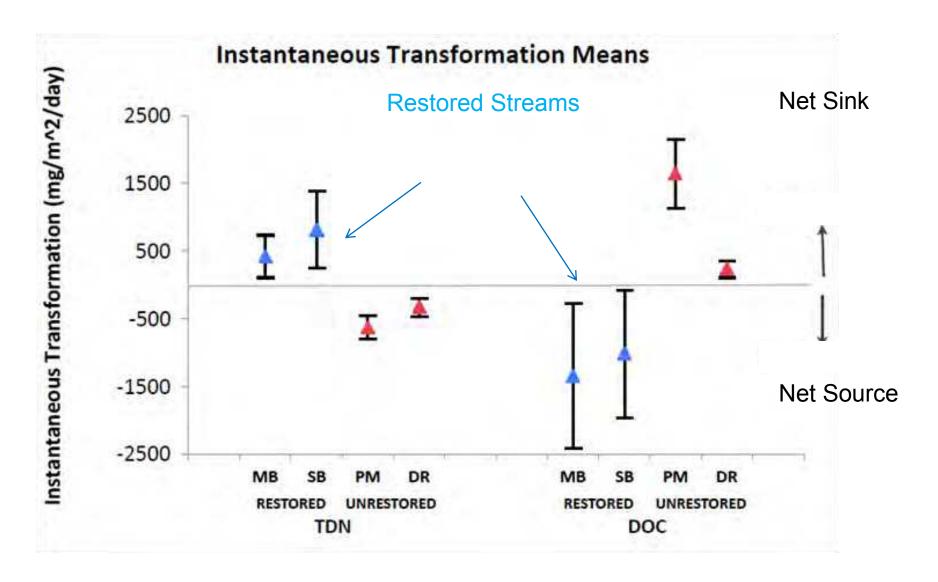


There is longitudinal performance variability across stream reaches



Sivrichi et al. (2011), Journal of Environmental Monitoring

Managing N Sinks Along the Urban Watershed Continuum



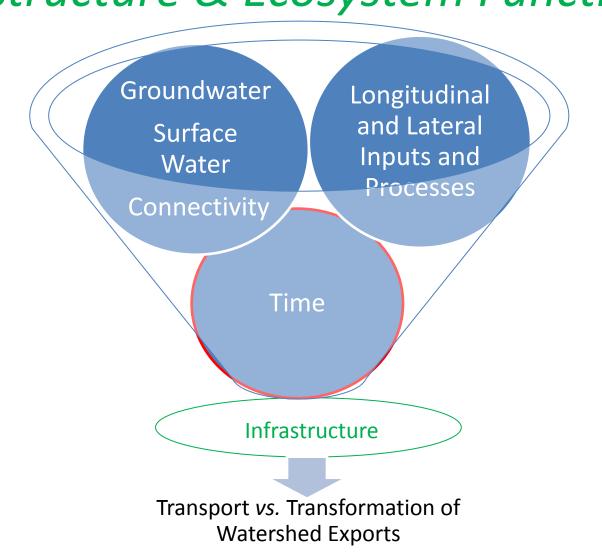
Sivrichi et al. (2011), Journal of Environmental Monitoring







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CONCLUSIONS:

 Relationship between infrastructure and ecosystem function across space and time

 Need to consider urban groundwater matrix and longitudinal/lateral inputs to understand variability

 The urban watershed continuum is a "transporter" or "transformer" of pollutants based on infrastructure