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# Quantitative Revolution & Locational Analysis

## BASIS

- Schaefer – Hartshorne Debate

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Areal → Spatial

Absolute Space → Relative Space

Areal Integration → Spatial Interaction

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# Developments

- Ullman's model of urban structure
- Garrison's mathematical techniques
- Stewart's empirical mathematical rule
- William Warntz's concept of social physics
- Zipf's principle of least effort
- Stochastic model of Haggerstrand
- Chorley & Haggett – Multivariate analysis

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# Methods

Accounting  
Methods

Statistical Methods

Models

Scale of  
Measurement

Measurement  
Errors

Instru-  
mental  
Error

Environ-  
mental  
Error

Descriptive  
Method

Inferential  
Method

Mathematical  
Techniques

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# *Advantages of Quantitative Revolution*



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# *Disadvantages of Quantitative Revolution*

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# Locational Analysis

*Spatial organization*

*Related to Flow Patterns*

*Uses Methods of Spatial Science*

*Defines Locational Models*



# Applications of Locational Analysis

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*Business Expansion*

*Facilities Relocation*

*Supply Chain Analysis*

*Trade Area Performance*

*Assessment of Shopping Center*

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## Requirements for Locational Analysis

- Adoption of a system approach to focus on spatial patterns & linkages
- Employment of stimuli models to achieve understanding
- Use of quantitative procedures to precisely generalize about locational order

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## Model of Locational Analysis

Movement

Network

Nodes

Hierarchy

Surface

Diffusion

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## *Advantages of Locational Analysis*



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## *Disadvantages of Locational Analysis*