



# ArcGIS Geostatistical Analyst

Statistical Tools for Data Exploration, Modeling, and Advanced Surface Generation

Exploratory Spatial Data Analysis

Advanced Surface Creation  
With a Wizard Interface

Diagnostics and Comparison for  
Optimal Prediction Models

1 Examine Distribution Statistics

2 Analyze Spatial Data Structure

3 Comparison and Cross-Validation

Examine Local Data Variability

Analyze Spatial Data Distributions

Analyze Data Trends

Compare Data Distributions

Data Transformations

Searching Neighborhood

Comparison and Cross-Validation

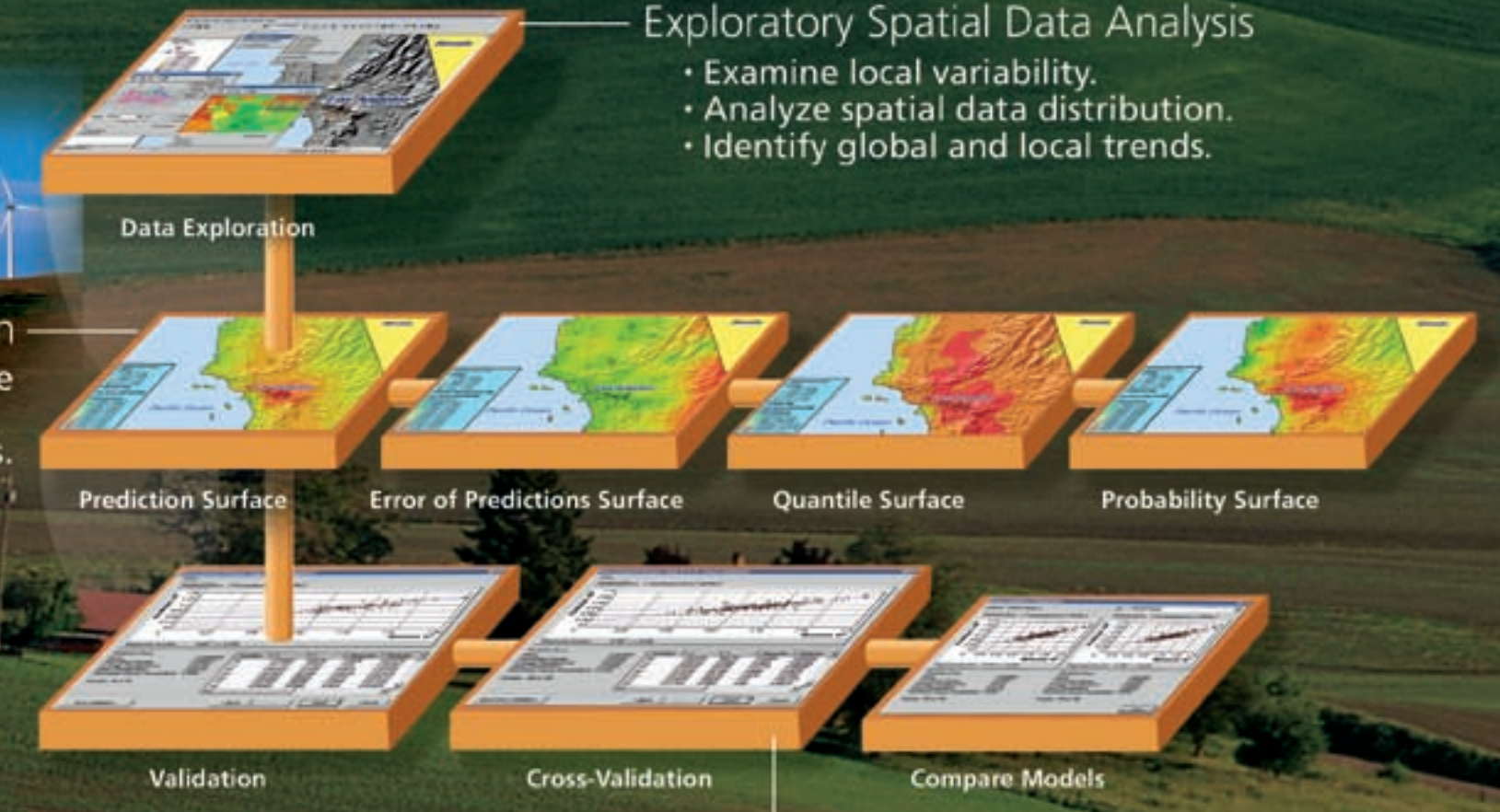
## Probability Mapping

Exploratory Spatial Data Analysis

- Examine local variability.
- Analyze spatial data distribution.
- Identify global and local trends.

Surface Creation

- Create a surface with a variety of output types.



Perform Diagnostics

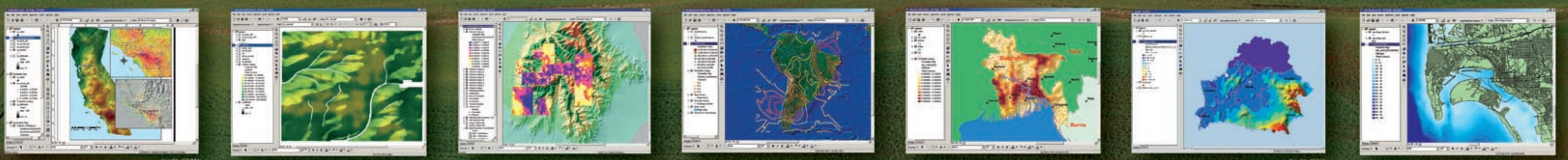
- Assess the statistical accuracy of the surface.

- ArcGIS Geostatistical Analyst**
- Examine Local Variability
  - Analyze Spatial Data Distribution
  - Identify Global and Local Trends
  - Analyze Spatial Data Correlation
- Surface Creation**
- Geostatistical Interpolation
    - Kriging and Cokriging
  - Deterministic Interpolation
    - Inverse Distance Weighting
    - Global and Local Polynomial
- Perform Diagnostics**
- Validation
    - Radial Basis Functions
  - Cross-Validation

Sophisticated Statistical Methods for Improved Decision Making

## Kriging / Cokriging

## Error Modeling



Air Quality Assessment    Agricultural Assessment    Geological Exploration    Meteorological Analysis    Hydrological Investigation    Environmental Impact Assessment    Oceanographic Analysis

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For more information call 1-800-447-9778 or visit ESRI's Web page at [www.esri.com/geostatisticalanalyst](http://www.esri.com/geostatisticalanalyst)



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