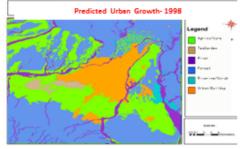
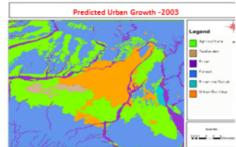
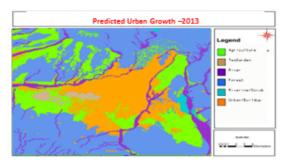
# **URBAN SPRAWL ANALYSIS**

Objective: To develop a model for prediction of urban growth.

Assumption: Urban areas are organic entities.







# 

## Conclusions:

- •The developed model is proved to be useful for determining the spatial growth in future with the current pace of growth spatially.
- •Organic CA is used successfully in this study for predicting the urban growth. Developed model has shown reasonable accuracy
- +5.09% for predicted 1998 and -15.09% for predicted 2003.
- •For increasing further accuracy of future predictions, integration of socio-economic parameters in prediction models is necessary.
- ${}^{\bullet}\text{CA}$  integrated with GIS can be used effectively for modeling urban growth.

### Accuracy of Prediction Predicted Area Actual Area Error Year (Sq Km) (Sq Km) Percentage 1998 80.72 76.81 +5.09% 2003 95.67 81.23 -15.09%

# Spatial growth dynamics of Dehradun urban area

# Objective: Directional and distance Based analysis of rapid urban growth of Dehradun.

Data Used: Landsat TM 1987, IRS 1B LISS II 1992,

IRS 1C LISS III 1998, IRS 1D LISS III 2003

IRS P6 LISS III 2008

### Conclusions:

 Monitoring of urban growth based on wind rose scheme is simple in approach, easy to understand and it gives clear view of how urban growth has taken place over a period of time in different directions as well with distance from city centre.

