

Presented at



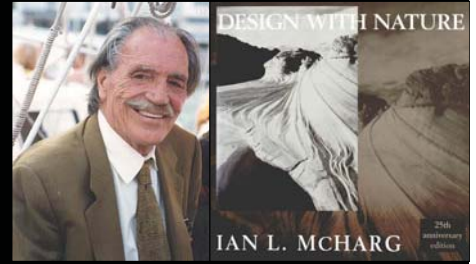
Auroville Green Practices

Seminar and Site Visits
26-28 August, 2010

Ecological Landscaping

Prashant Hedao
Consultant





“The shaping of land for human use ought to be based on an understanding of natural processes.” – Ian McHarg (1920 – 2001)

Understanding Landscapes

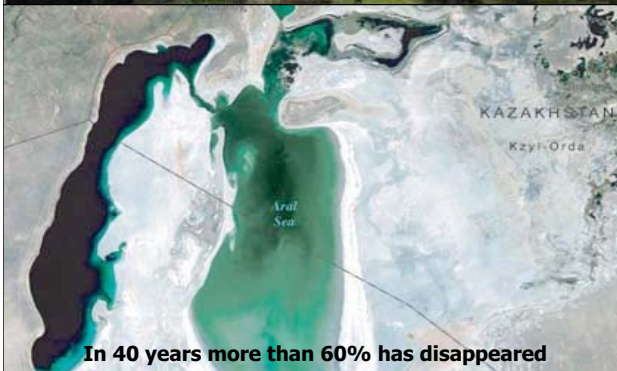


Machu Picchu, The Lost City of Incas, PERU

Shaped by Natural Forces

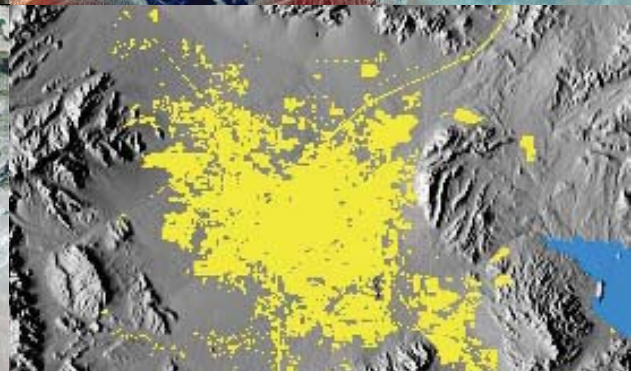


Sabkha / Sand dunes, Abu Dhabi UAE



In 40 years more than 60% has disappeared

Human impact :Death of Aral



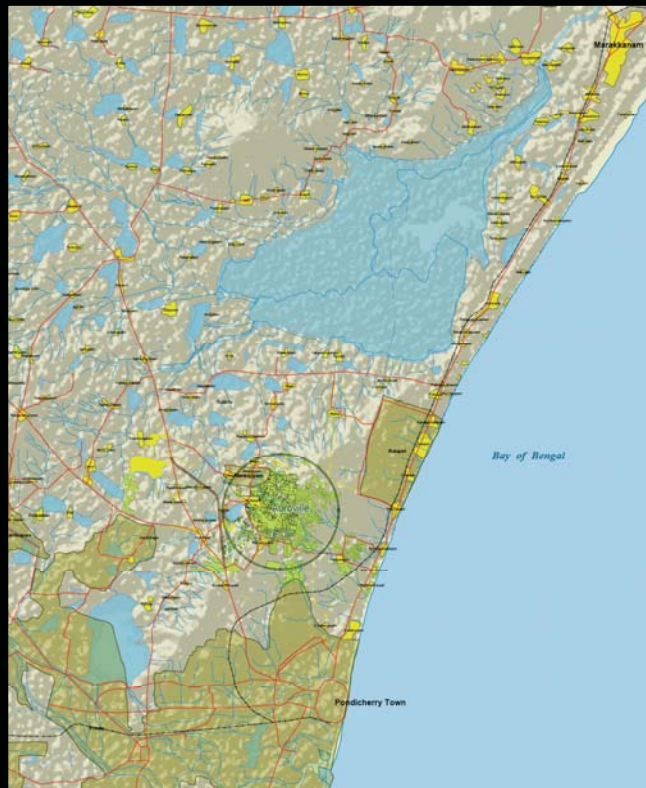
Expanding Las Vegas

1995

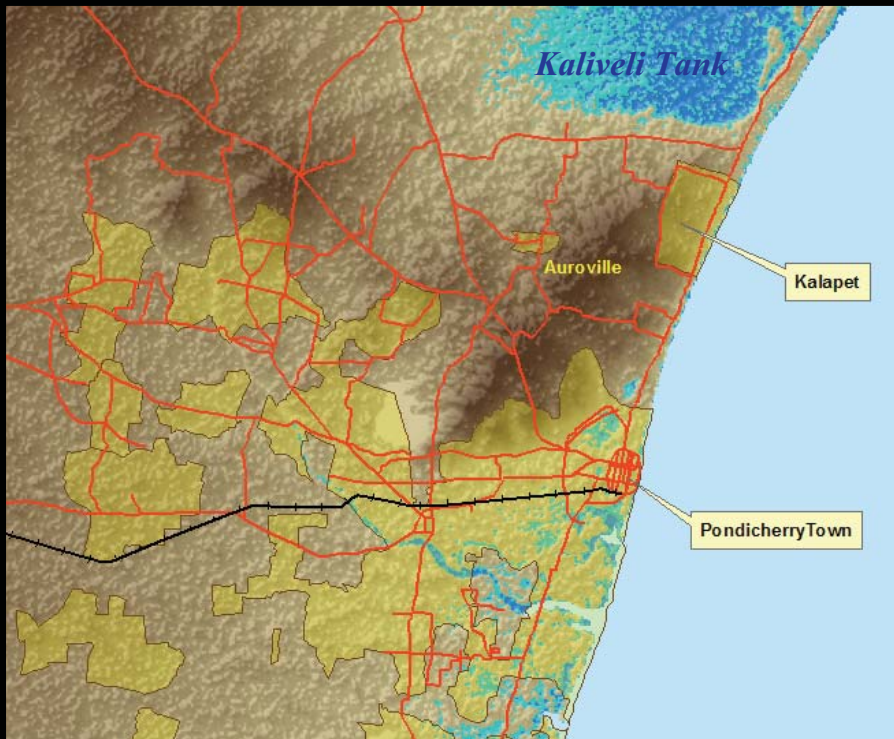


Planning work at Auroville – local & regional

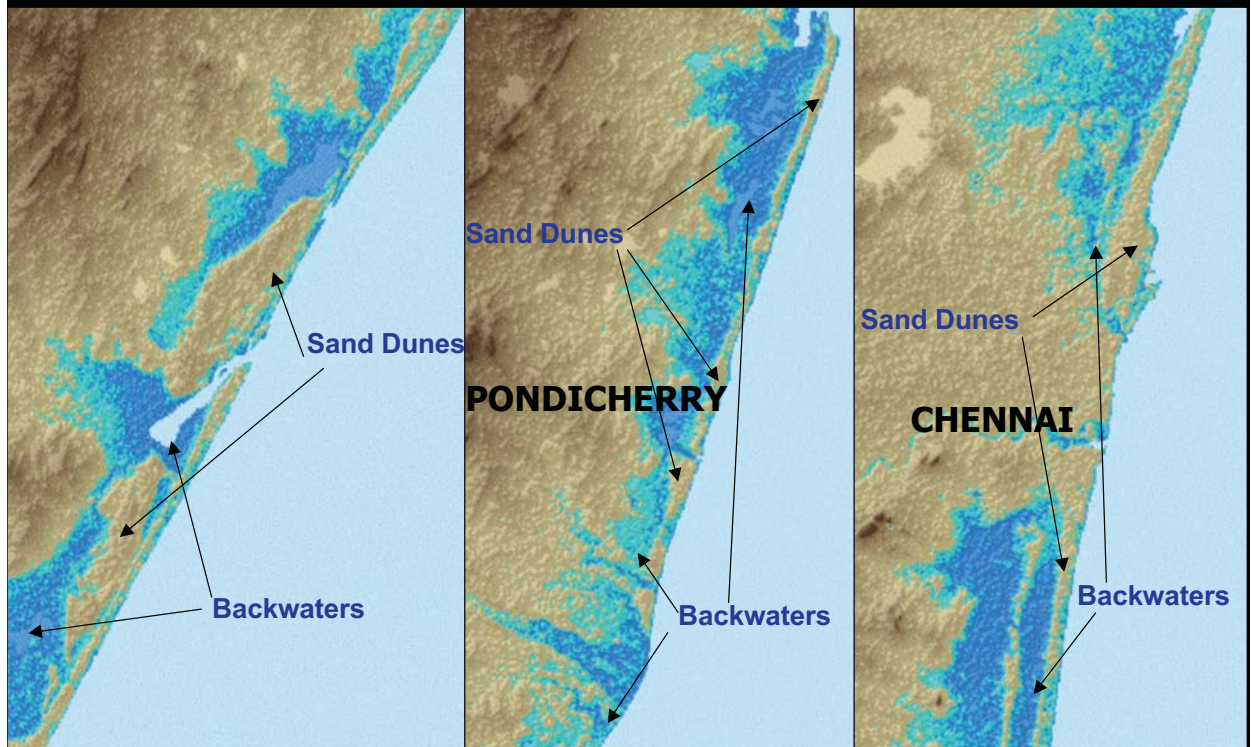
Auroville – extended bioregion



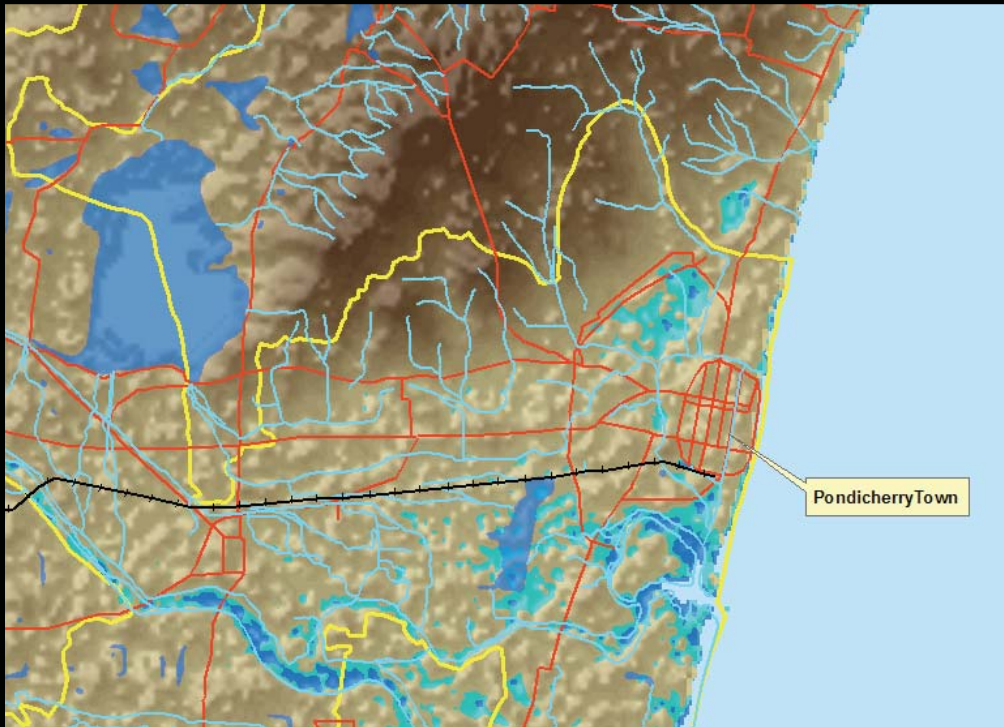
Pondicherry region – terrain



Overview – General terrain along Coromandel coast



Pondicherry Town Area- Water



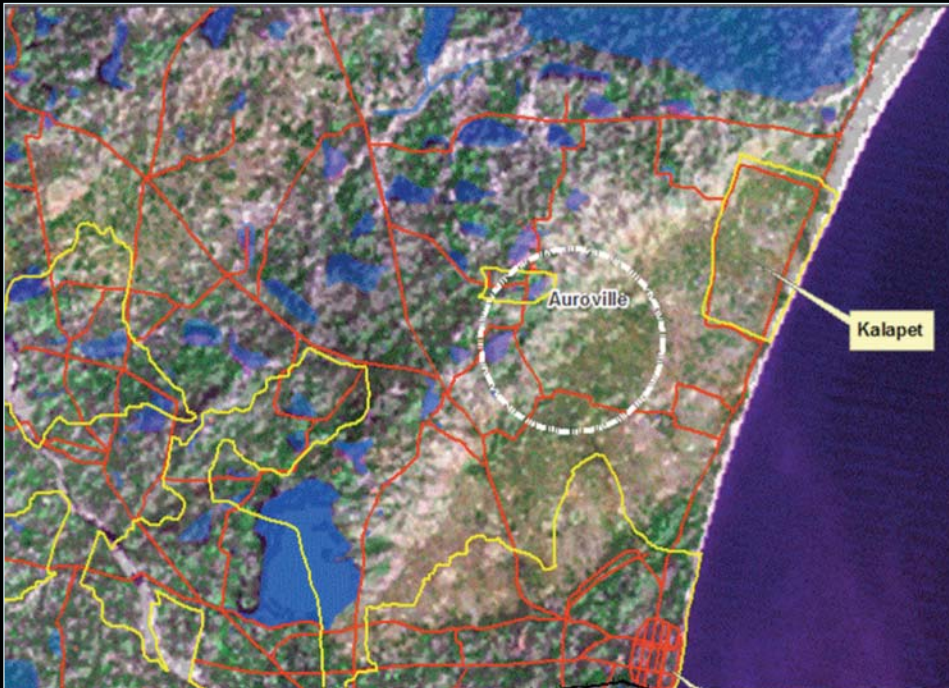
Change in Green Cover – 1977 to 1991



1991

SOURCE: *Global Land Cover Facility, University of Maryland / NASA*
(<http://glcf.umd.edu/index.shtml>)

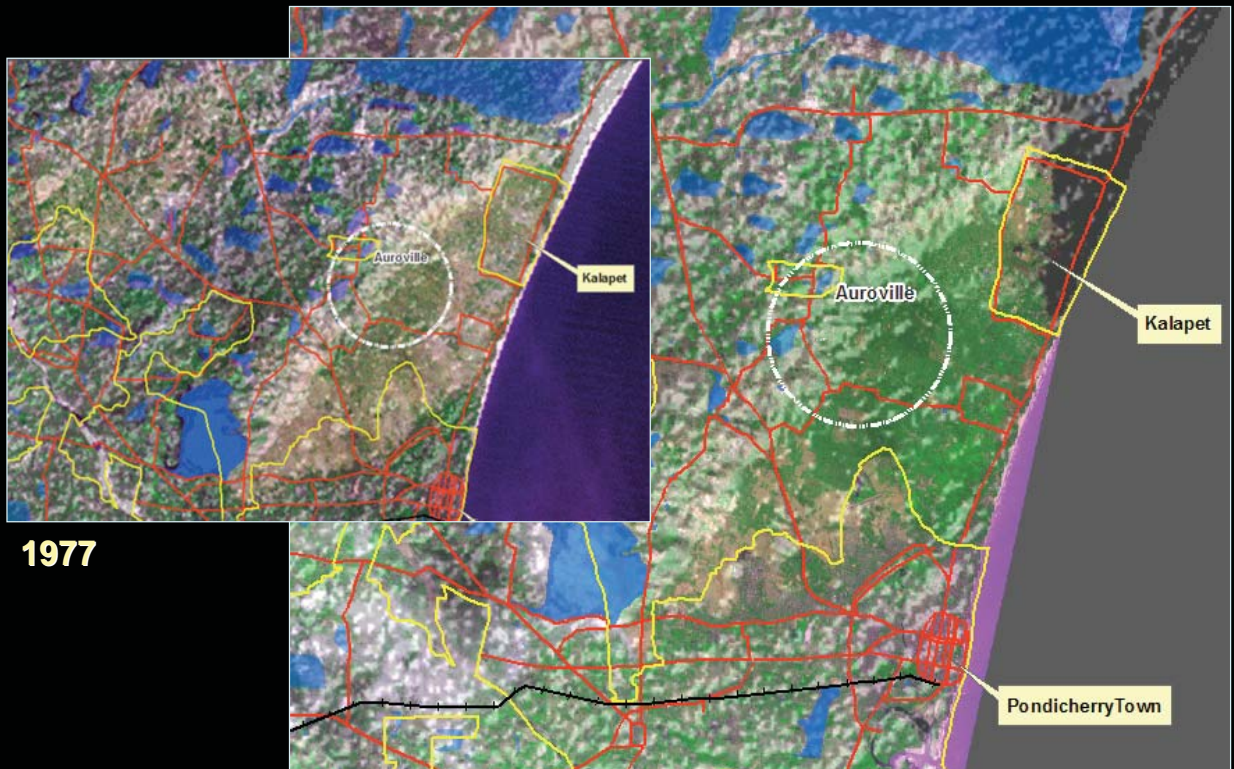
Change in Green Cover – 1977 to 1991



1977

SOURCE: *Global Land Cover Facility, University of Maryland / NASA*
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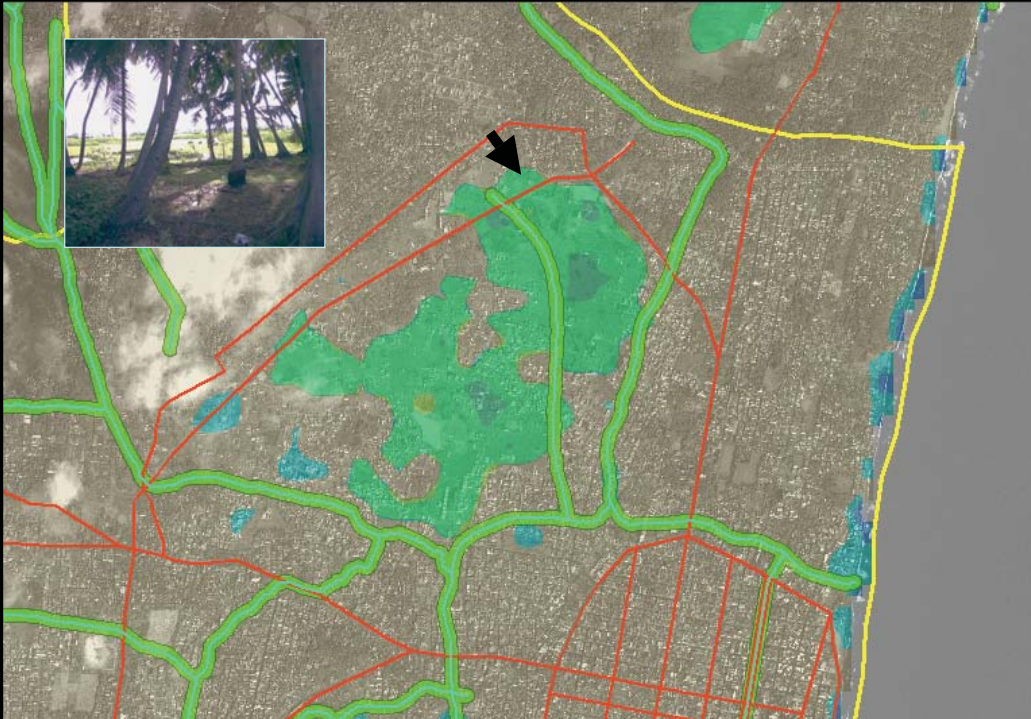
Green Cover – 2003



1977

SOURCE: *Global Land Cover Facility, University of Maryland / NASA*
(<http://glcf.umd.edu/index.shtml>)

Pondicherry – Possible green areas

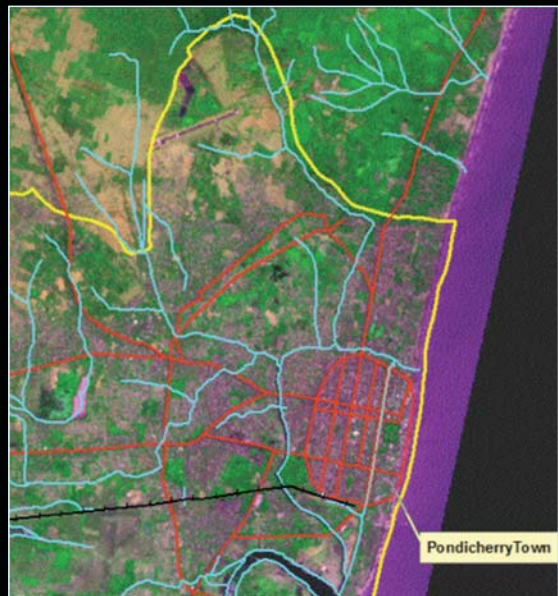


SOURCE: Pacific Disaster Center, Hawaii / DigitalGlobe

Pondicherry – Urban Expansion



1977



2003

SOURCE: Global Land Cover Facility, University of Maryland / NASA
(<http://glcf.umd.edu/index.shtml>)

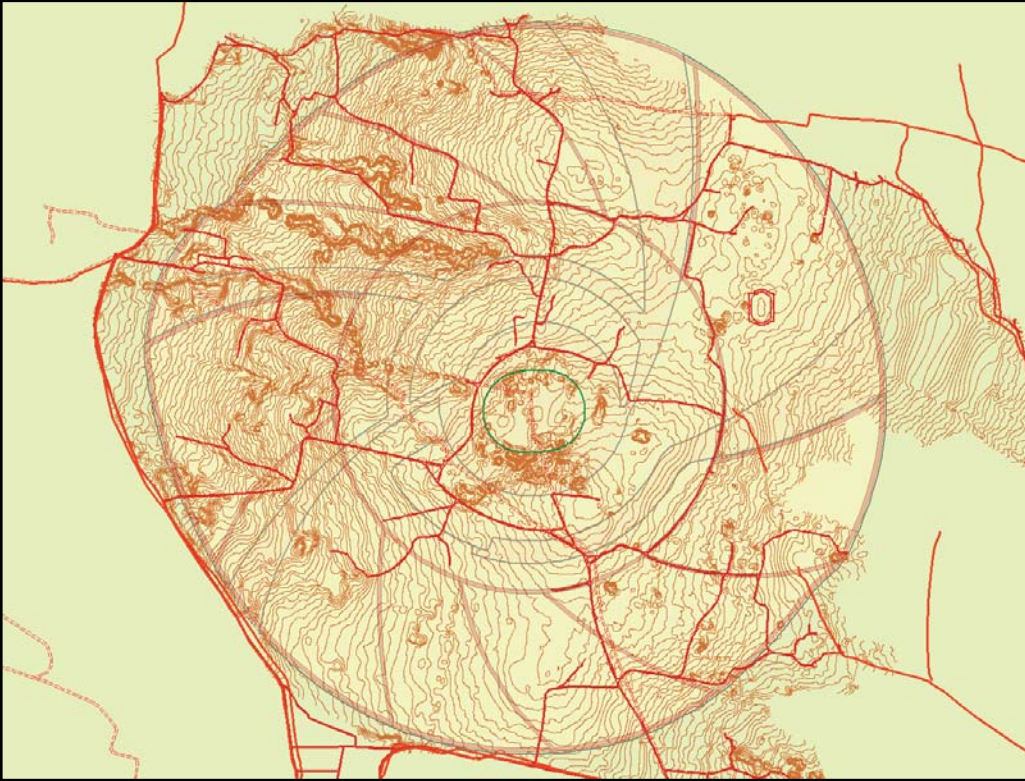
Drainage Channels – current state / possibilities



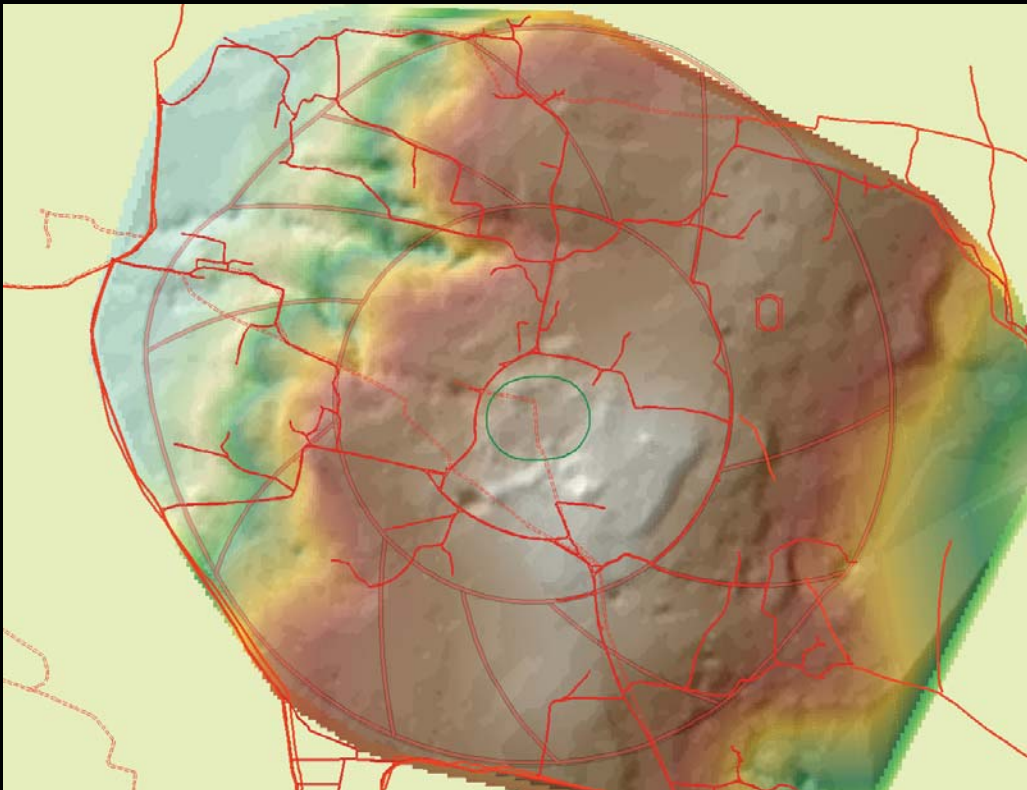
Auroville Master Plan -1968 (architect -Roger Anger)



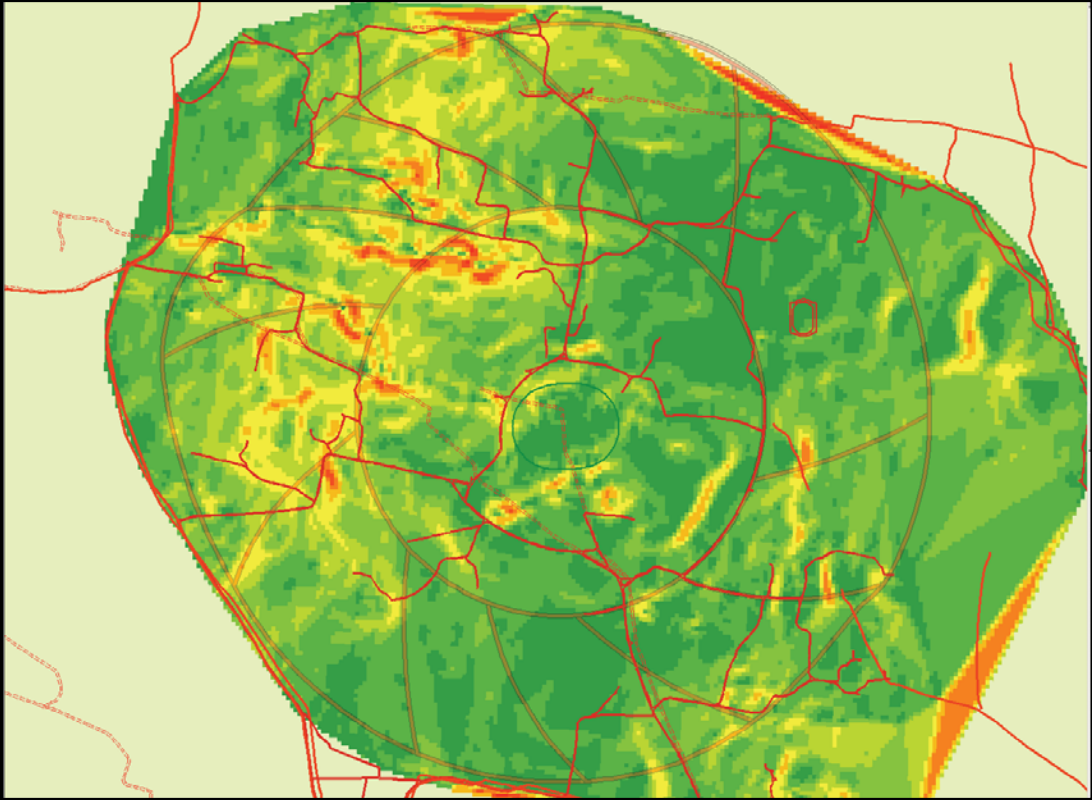
Elevation Contours



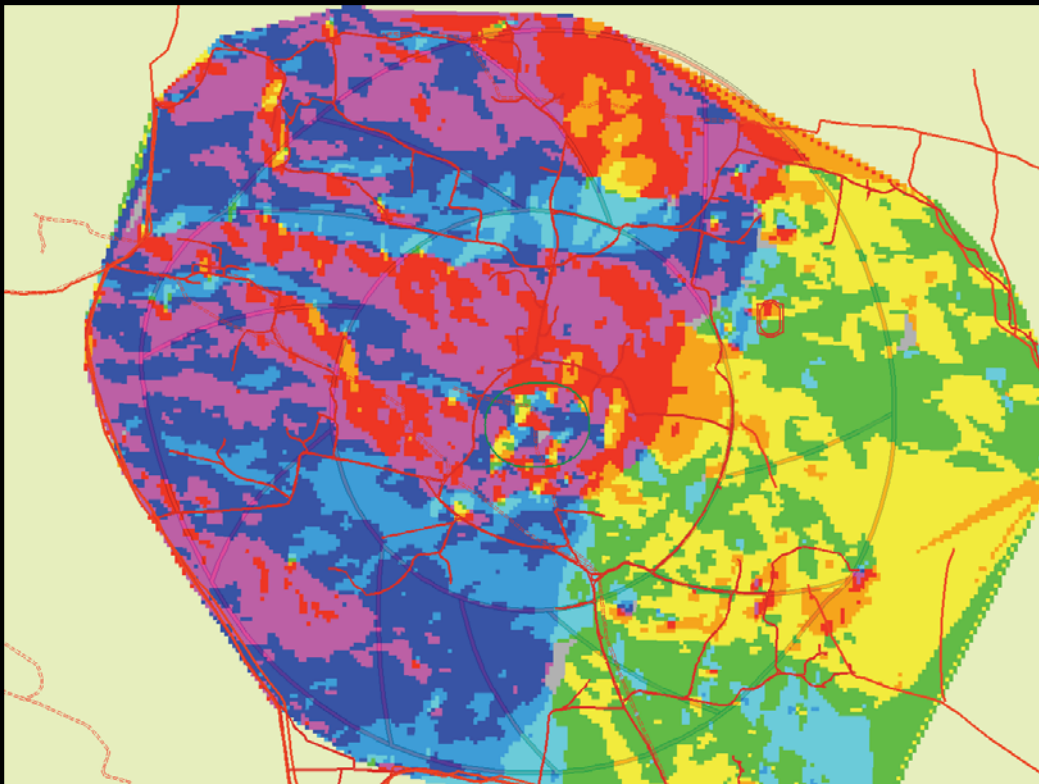
Digital Elevation Model (DEM)



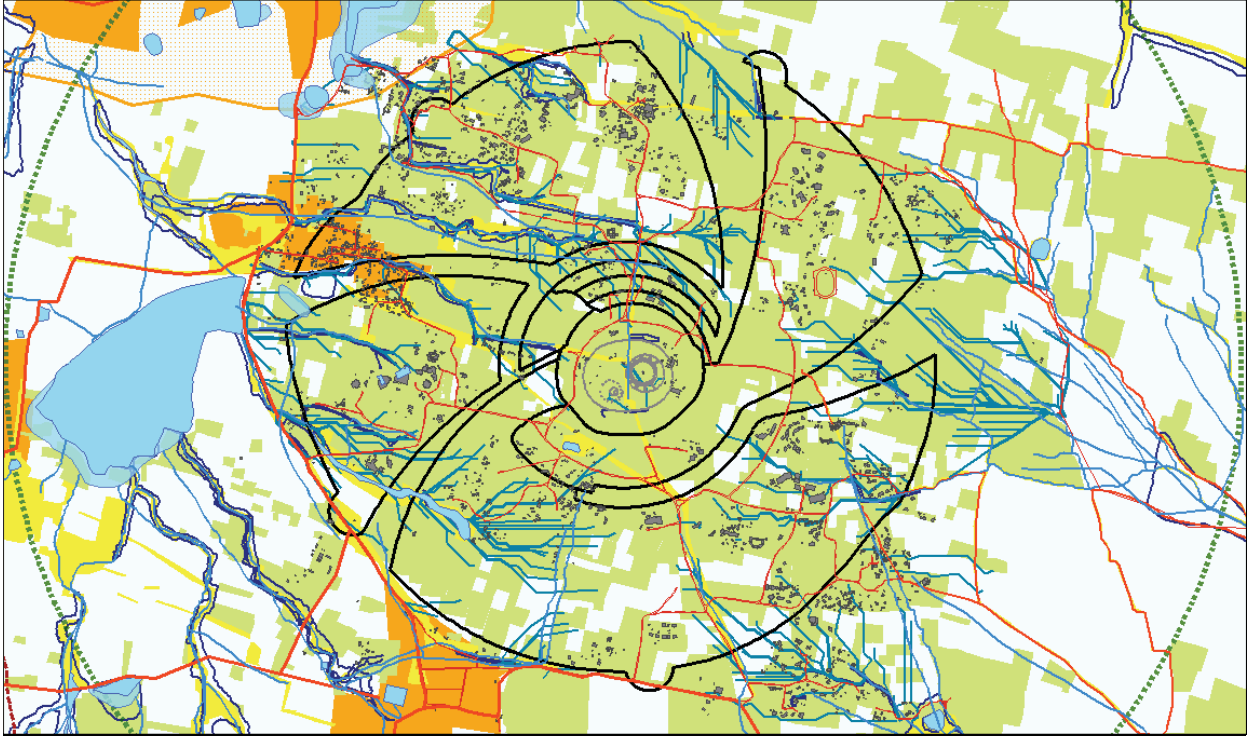
Slope



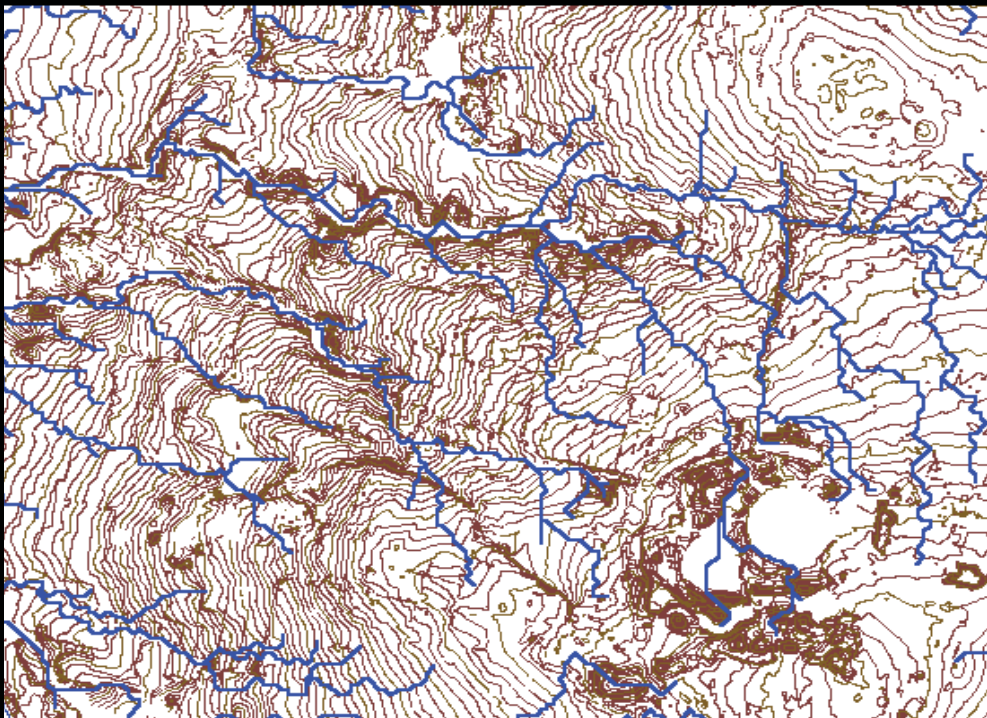
Aspect – where are the slopes facing



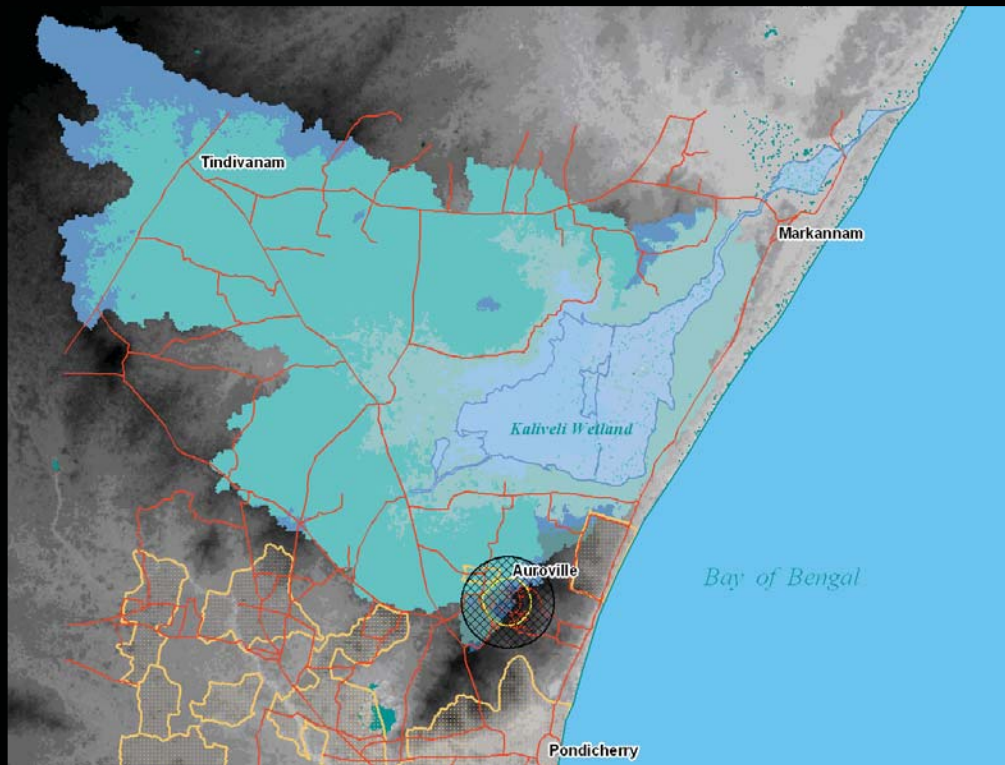
City Area – extracted waterflow/ streams



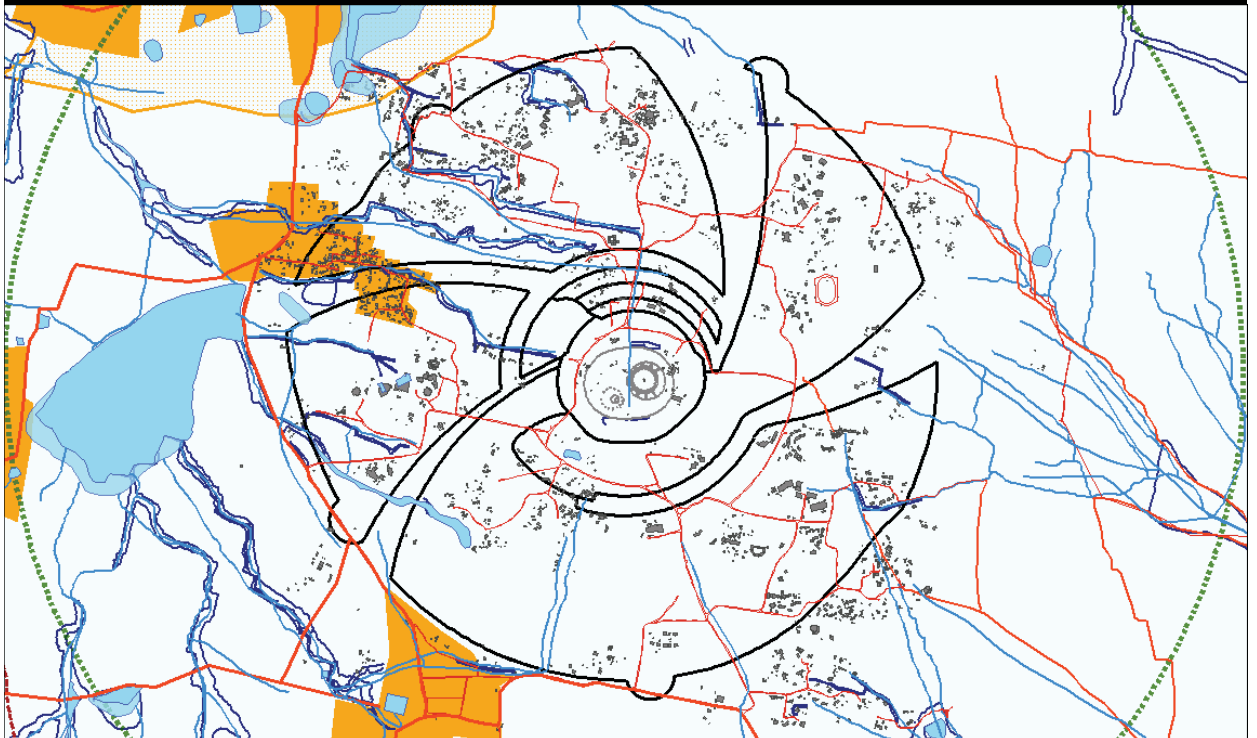
Streams - surface water flow



Watershed



City Area – current situation



City Area – land status



SOURCE: LCC / LRM / L'avenir d'Auroville

City Area – important green areas



SOURCE: Auroville Green Group

City Area – high percolation areas

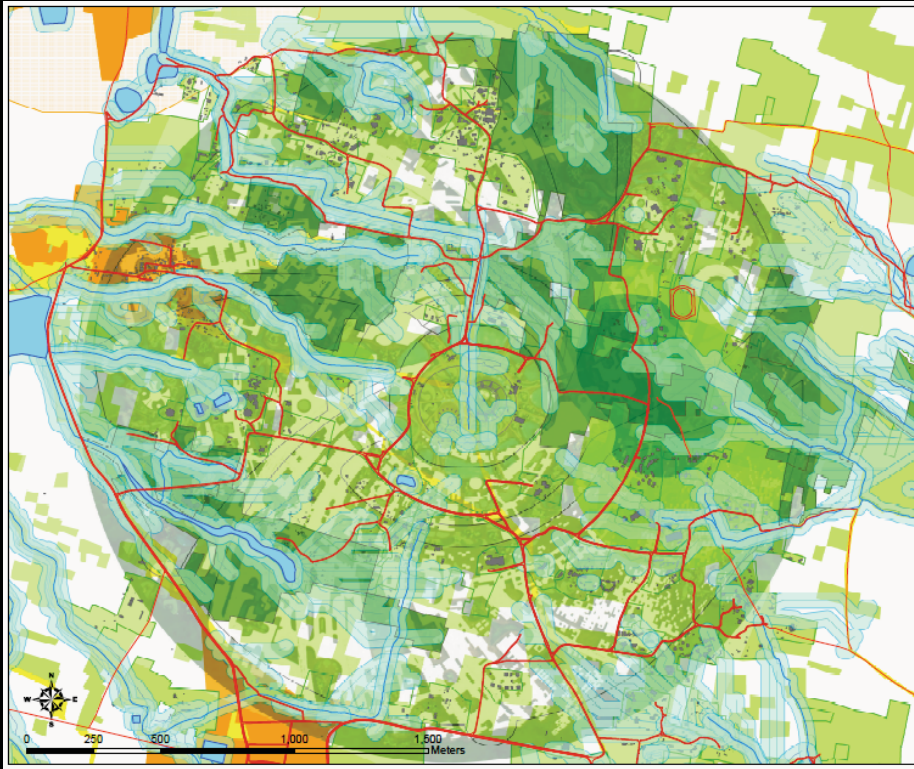


SOURCE: *Auroville Water Harvest*

Galaxy Concept



Planning – overall scenario



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Auroville Green Practices Seminar 2010

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