

# Urbanization: A Case of Man-Nature Coexistence

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Workshop on Tackling Urbanization and Climate Change Together



## **Presentation Outline**

- Urbanization Trend
- Present Actions and Consequences
- Way Forward



## **Urbanization Trend**

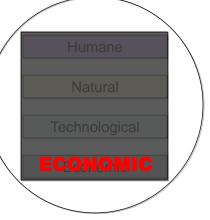
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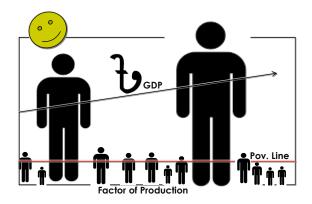
# Forces that Shape Man's Living Environment:

 Man's unrestrained greed for profit maximization using technology shatters nature and his own settlement.





## **GDP** based Development Concept



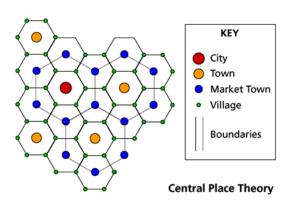
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## Crystaller Model:

Correlation among different settlement types.





## Overpowering Man's Livelihood by Economy

- Historically 'Man-Nature Coexistence' formed the basis of development, man being always at the Centre.
- Today 'economy' has taken over and GDP assumes the central position where 'man' is mere a 'factor of production'.

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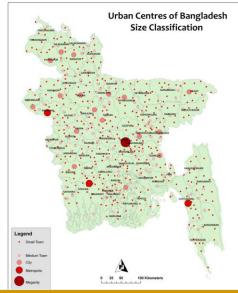


## Factors shaped our urban evolution

- Density and uniform distribution of population
- Flat topography of almost entire country
- Low technology: dependence on nature
- Social cohesiveness
- Above all, man had the right mindset and understanding of man-nature complementary relationship

Hierarchy and distribution of our 'traditionally evolved' cities: A perfect manifestation of 'Man-Nature coexistence'.

Our 'sun tanned, unaware, Illiterate' peasants knew (!) and applied 'Central Place' concept in this part of the world since several thousand years back from now!



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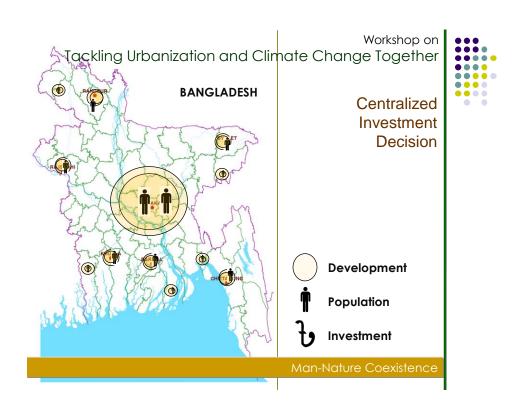


Present Actions and Consequences

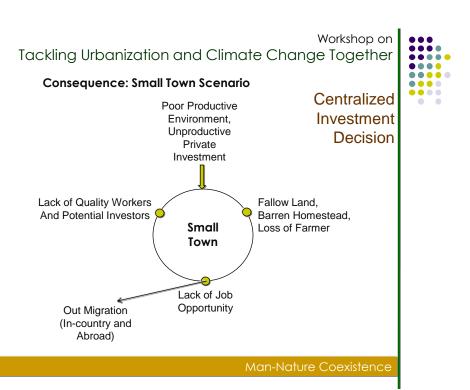


## Action:

## **Centralized Investment Decision**



Workshop on Tackling Urbanization and Climate Change Together Consequence: Rural Scenario Centralized Investment Poor Investment Decision Lack of Quality Workers Low and Potential Investors Development Rural Settlement Lack of Job Opportunity **Out Migration** (In-country and Abroad)



Workshop on Tackling Urbanization and Climate Change Together Consequence: Mega city Scenario Centralized Lion Share of Investment Investment Decision Costly Remedial High Income Measures Opportunity Major Share of Frustrating Level **Mega City** of Livability In-migration Rapid Population Degradation of Growth Environment (Mostly Unskilled) Horizontal Expansion of City Out Migration (Abroad)

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Action:

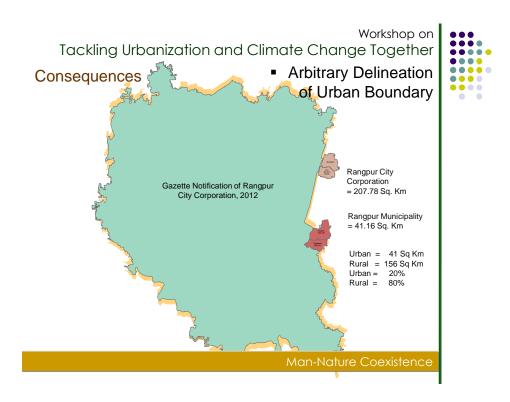
Arbitrary Definition, Land Class Declaration and Delineation of Urban Area Boundary

## Urban Area has to fulfill the following:

- Have predominant non-agricultural / traditional occupation
- Provision of utility-services network (e.g., piped water, electricity supply etc.)
- Have any form of authority to manage the urban affairs.

## Urban Area As per our Govt. provision:

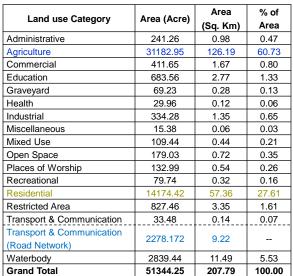
- Any area within a municipality or city corporation jurisdiction as declared by the appropriate ministry.
- Entire jurisdiction is declared 'urban'.





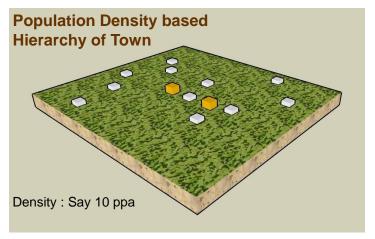
Workshop on Tackling Urbanization and Climate Change Together Arbitrary Delineation Consequences of Urban Boundary **Projected Population Population** Year Urban Rural Total 2013 200358 400275 600633 2018 246942 457314 704256 2023 296530 516355 812885 2028 359643 571393 931036 2033 440788 628432 1069220 Conservable Area Rural Area Urban Area

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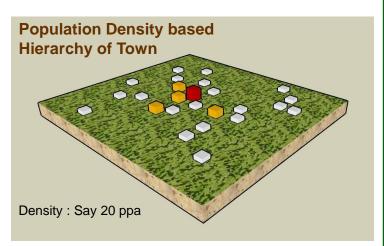


**Small Town** 

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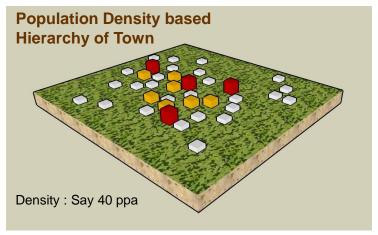
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**Upazilla Town** 



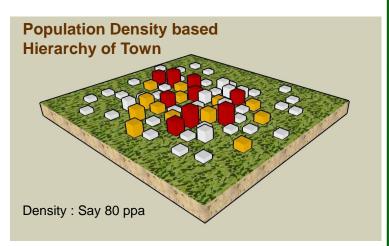


**District Town** 

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**Divisional Town** 

### Workshop on Tackling Urbanization and Climate Change Together **Broad Land Classification Planning Jurisdiction** (e.g., a region, or municipality and surrpunding area to be included in the plan) Conservable Rural (agricultural and forestry production) Urban (urban development and redevelopment) (natural resource protection) Rural Community Areas of critical Other Agricultural Developing Developed areas environmental (Agricultural Homestead Centers areas concern reserve. area forestry, and other production oriented resources) Particular types Satellite growth Transition Redevelopment Stable Particular types (e.g., wetlands , water supply watershed, areas centers areas areas (e.g., Fishing ponds, orchards) cyclone hazard. Infill Historic preservation 0-5 5-10 10-20 areas years years

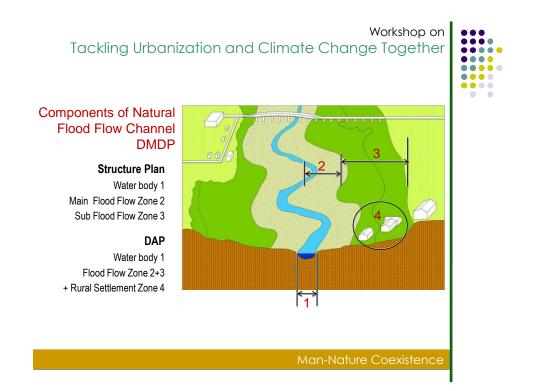
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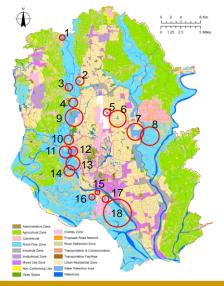
Filling in Water-body, Cropland and Water Retention Area

# Components of Natural Flood Flow Channel USA Channel 1 Regulatory Floodway 2 Regulatory Flood Limit 4 Regulatory Flood Plain 5 Flood Plain (SPF) 6









- Jarun, Kashimpur
- 2 Gusulia, Tongi
- 3 Asulia, Savar
- 4 Biralia, Savar
- 5 Dakshin Khan (Airport)
- 6 Dakshin Khan (Basumati)
- 7 Baraid, Gulshan (Basundhara)
- 8 Kayetpara, Rupganj (Jalshiri)
- 9 Digun, Mirpur
- 10 Uttar Kaundia, Savar
- 11 Amin Bazaar, Savar
- 12 Choto Shayek, Mirpur
- 13 Katasur, Mohammadpur (Basila)
- 14 Taranagar, Keraniganj
- 15 Zinjira, Keraniganj
- 16 Kalindi, Keraniganj
- 17 Subhadya, Keraniganj
- 18 Konda, Keraniganj (River View)

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Govt. Pressure Projects	Land Use Zone				
	Main Flood Flow	Sub-Flood Flow	Retention Pond	Agricultural	Recreation
Uttara 3rd Phase					
Purbachal New Town					
Jhilmil					
Central Jail					
Pangaon					
Container Port					
Army Training					
Ground	l		l		

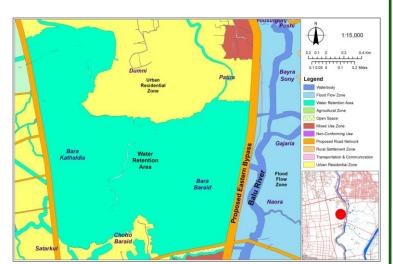
**Government Legalized Projects Encroaching Conservable Areas of DMDP Structure Plan** 



# Water Retention Area at Baraid, Gulshan

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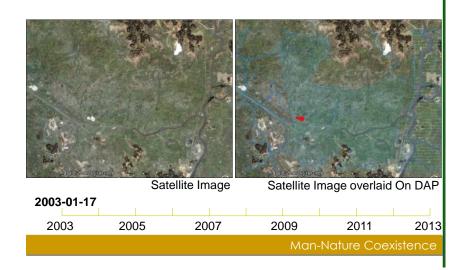


Land Use and Location as per DAP Map: Baraid, Gulshan



Baraid, Gulshan

Filling on Date = 2.66 Acre
Filling of Retention Pond Just Started

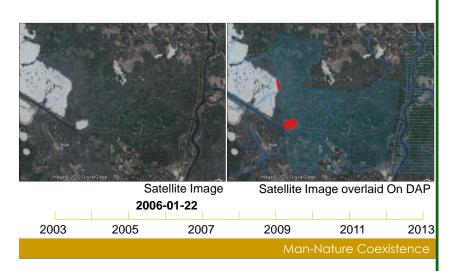


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Baraid, Gulshan Filling o

Filling on Date = 11.75 Acre
Filling Proceeds from North-West

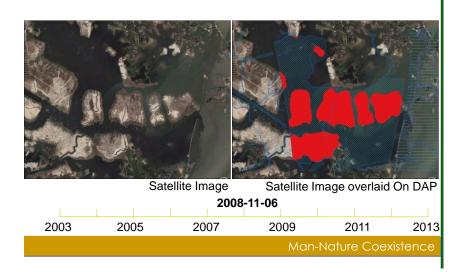






Baraid, Gulshan

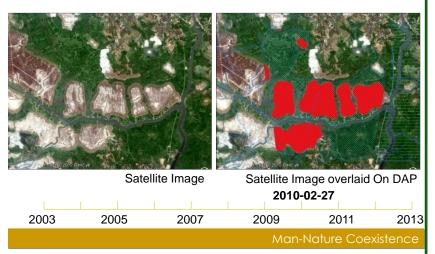
Filling on Date = 386.95 Acre Filling is vivid in the Monsoon



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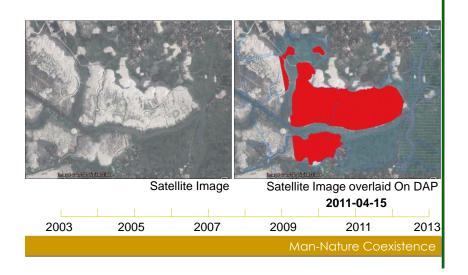
Baraid, Gulshan Filling on Date = 383.24 Acre
Filling remained stopped during DAP Review period



18



Baraid, Gulshan Filling on Date = 542.94 Acre
After Gazette of DAP Filling started in full swing

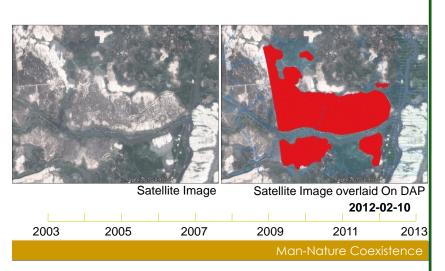


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Baraid, Gulshan

Filling on Date = 646.06 Acre 68.93% area Filled in

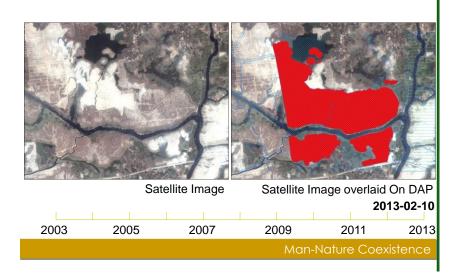






Baraid, Gulshan

Filling on Date = 716.82 Acre 76.48% area Filled in



Workshop on Tackling Urbanization and Climate Change Together Baraid, Gulshan About 333.58 acres Retention Area Filled in following Gazette of DAP 90.00 80.00 76.48 68.93 70.00 57.93 00.00 bercentage 40.00 30.00 20.00 10.00 1.25 0.28 A Time 0.00 1.May.08 Zyanoo. 7.5eb.00 7. 1817.03 Z.S.R.D.S. Man-Nature Coexistence



Danger of Filling In Water body

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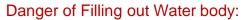


Danger of Filling out Water body:



Incremental Urban Flooding cause misery to Urban Life







Incremental Urban Flooding cause misery to Urban Life

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## Danger of Filling out Water body:



Threat to Inhabitants of Buildings Built on Filled Earth



## Danger of Filling out Water body:



Damage to Infrastructure, especially roads

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## Danger of Filling out Water body:



Further Depletion of Ground water table.



## Danger of Filling out Water body:



Destruction of Cropland and Wetland causing threat to Food Security

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## Danger of Filling out Water body:



Eviction of suns of the soil from their age old Home and Community



## Danger of Filling out Water body:



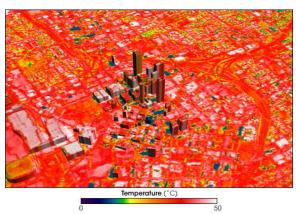
Inundation of surrounding Low lying areas on the Upstream due to raised Water level

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## Danger of Filling out Water body:



Increased Heat Island Formation.



## Way Forward

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Workshop on Tackling Urbanization and Climate Change Together Broad Measure:

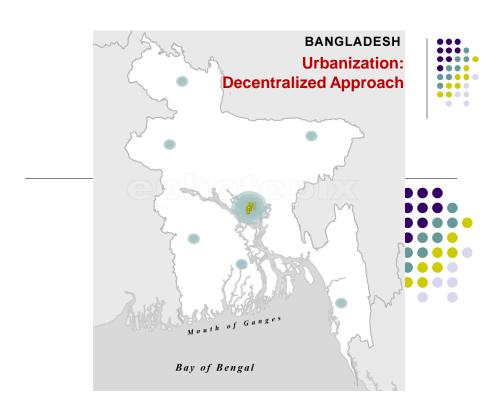


- Take up National Physical Plan to delineate Regions, their development strategies and approach.
- Develop Regional Plans to ensure their balanced and sustainable development.
- Raise major railway, highway and waterway networks up to international standard so as to allow vehicle to ply safely at the design speeds.
- Spread large city based industries and trading houses all over the country to augment country's balanced development.
- Develop cities and towns as per their comparative advantages.

Workshop on Tackling Urbanization and Climate Change Together Short Term Measure:



- Strictly follow City Development Plan recommendations
- Immediately liberate all forms of water bodies, flood flow zone and water retention areas.
- Ensure stern action against plan violators irrespective of their Status.
- Ensure local authority's role as true custodian of the Plan.
- Area determination and boundary delineation of the towns to be done by urban planner during urban planning not by the ministry.
- Revise area and boundary of towns as per Planning Considerations to protect Water body and agricultural.





# **Thank you**