By

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## Disclaimer

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The author is a Research Specialist in the Ministry of Planning, Housing and the Environment, Government of Trinidad and Tobago. Since 1991, he has been a consultant in the private sector on a number of Planning Studies, Environmental Impact Assessments and Social Impact Assessments. The comments and views of this paper and presentation are entirely those of the author and are not necessarily that of the Ministry of Planning, Housing and the Environment or of the Statutory Approval agencies – The EMA or TCPD, under the said Ministry; or any of his clients.

#### The Current Model

## The Current ModelConclusion on Old Model

The Current Model
Conclusion on Old Model
Reformulation of new model

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Benefits / Impacts

The Current Model
Conclusion on Old Model
Reformulation of new model
Benefits / Impacts
New set of Housing indicators

#### Assessment model has not worked

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Assessment model has not worked What is Economic Development? What is Urbanization? What is the relevance of Housing? Is there a process to Urbanization? Are there different types of Urbanization? What is the role of Economic Development in Urbanization?

## Conclusion on Economic Development Segment

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 No link with the environment- however it is defined  Conclusion on Economic Development Segment
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No link with environmental services

Conclusion on Economic Development Segment
No link with the environment- however it is defined
No link with environmental services
No "green issues" Conclusion on Economic Development Segment

- No link with the environment- however it is defined
- No link with environmental services
- No "green issues"
- Environmental degradation is seen as outcome of economic development

# Conclusion on Urbanization Debates on over-urbanization- carrying capacity of cities

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Primacy

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- Cities should be allowed to grow
- Management of urban and living spaces

## **Conclusion on Housing Segment**

## Conclusion on Housing Segment Too much focus on "house"

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Build more and give away, then solve housing problem- current approach

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Not the 4 walls

# Conclusion on Housing Segment Too much focus on "house" Build more and give away, then solve housing problem- current approach Not the 4 walls Housing as a service

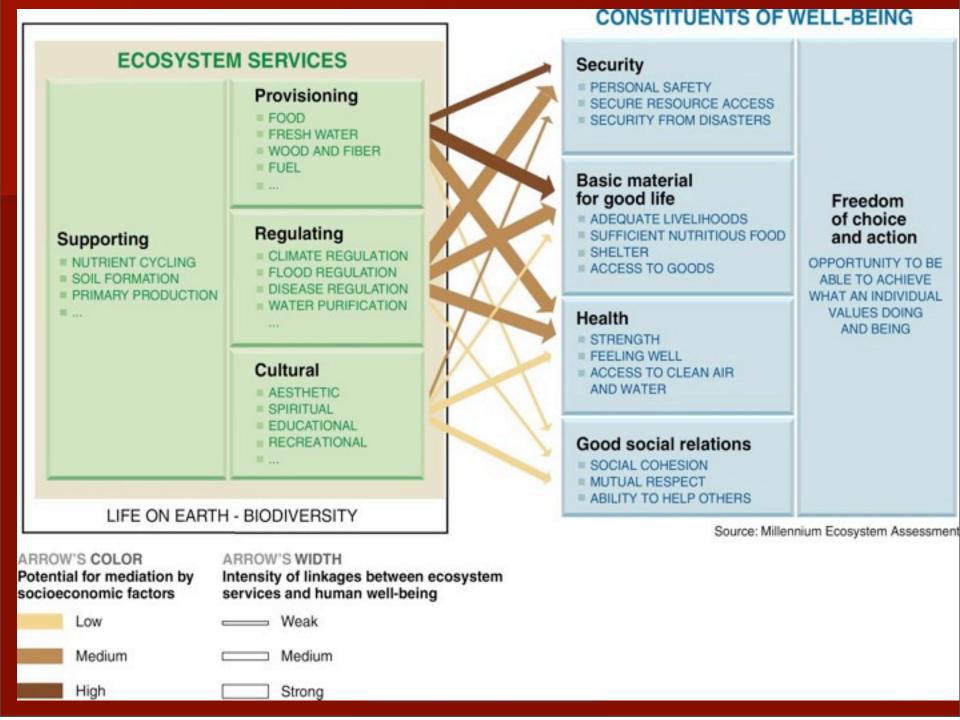
#### Housing, Urbanization and Economic Development are linked

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 Human Habitat in Cities

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- Human Habitat in Cities
- Environmental services within the Human Habitat

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- Human Habitat in Cities
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Improvement in Human Habitat- increase the carrying capacity- physical, economic and social dimensions



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#### The Link-Dysfunctional Housing (Low income Housing)

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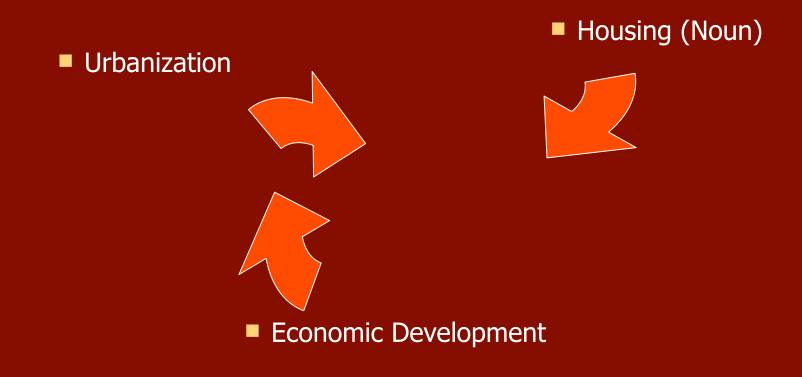


Housing Policy

Economic or Development Policy

#### **Reformulation of Model**

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#### Need for new set of tools- sharp tools

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 Existing Economic, Urban and Housing Indicators not going far enough

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Existing Economic, Urban and Housing Indicators not going far enough
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New fundamentals for sustainable cities

Reduce total solid waste to landfills by recycling

- Reduce total solid waste to landfills by recycling
- Earn income from recycling (save resources)

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- Water is precious commodity-Manage water supplies and Reduce water use

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 Water is precious commodity-Manage water supplies and Reduce water use
 Reduce Carbon footprint per capita

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Water is precious commodity-Manage water supplies and Reduce water use
 Reduce Carbon footprint per capita
 Develop renewable energy resources

Reduce per capita energy use

Reduce per capita energy useConcern about food sources

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 Concern about food sources

 Self-sufficiency

- Reduce per capita energy use
- Concern about food sources
  - Self-sufficiency
- Water inefficiently used in food production

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- Sequester as much Carbon produced

Reduce carbon and energy input in dwelling unit construction

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Reduce carbon and energy input in what our Economy produces or derives revenue

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   Promote Fair Trade practices- low wages are a curse. Want fair wages for urban people

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- Reduce carbon and energy input in what our Economy produces or derives revenue
- Promote Fair Trade practices- low wages are a curse. Want fair wages for urban people

Ensure public urban / open spaces managed to further basic needs

#### Addition to existing set- complements the existing set

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#### 1. % of solid waste recycling

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1. % of solid waste recycling
2.% of plastic, paper and glass recycling

Addition to existing set- complements the existing set

1. % of solid waste recycling
2.% of plastic, paper and glass recycling
3.US \$ or local \$ equivalent derived per kgplastic, metal, paper and glass recycled

#### 4. Per capita potable water use

4. Per capita potable water use5. % of potable water, by supply or source

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5. % of potable water, by supply or source
6. Carbon footprint per capita or per family

4. Per capita potable water use
5. % of potable water, by supply or source
6. Carbon footprint per capita or per family
7. % of renewable energy from renewable resources

- 4. Per capita potable water use
- 5. % of potable water, by supply or source
- 6. Carbon footprint per capita or per family
- 7. % of renewable energy from renewable resources
- 8. per capita energy use

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- 5. % of potable water, by supply or source
- 6. Carbon footprint per capita or per family
- 7. % of renewable energy from renewable resources
- 8. per capita energy use
- 9. Imported food as % of Food Consumed

# 10. Water input in foods for minimum daily diet

- 10. Water input in foods for minimum daily diet
- 11. Carbon input in foods for minimum daily diet (Carbon equivalent)

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- 11. Carbon input in foods for minimum daily diet (Carbon equivalent)
- 12. Energy input in food for minimum daily diet (not calories)

- 10. Water input in foods for minimum daily diet
- 11. Carbon input in foods for minimum daily diet (Carbon equivalent)
- 12. Energy input in food for minimum daily diet (not calories)
- 13. % of CO<sub>2</sub> or equivalent produced that is sequestered

## 14. Carbon and energy input in median dwelling unit construction & living

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15. Carbon and energy input per US dollar of National Income

- 14. Carbon and energy input in median dwelling unit construction & living
- 15. Carbon and energy input per US dollar of National Income
- 16. Actual Fair Trade Revenue as % of Potential Fair Trade Revenue

- 14. Carbon and energy input in median dwelling unit construction & living
- 15. Carbon and energy input per US dollar of National Income
- 16. Actual Fair Trade Revenue as % of Potential Fair Trade Revenue
- 17. % of Urban Public Space devoted to Open Food Markets



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