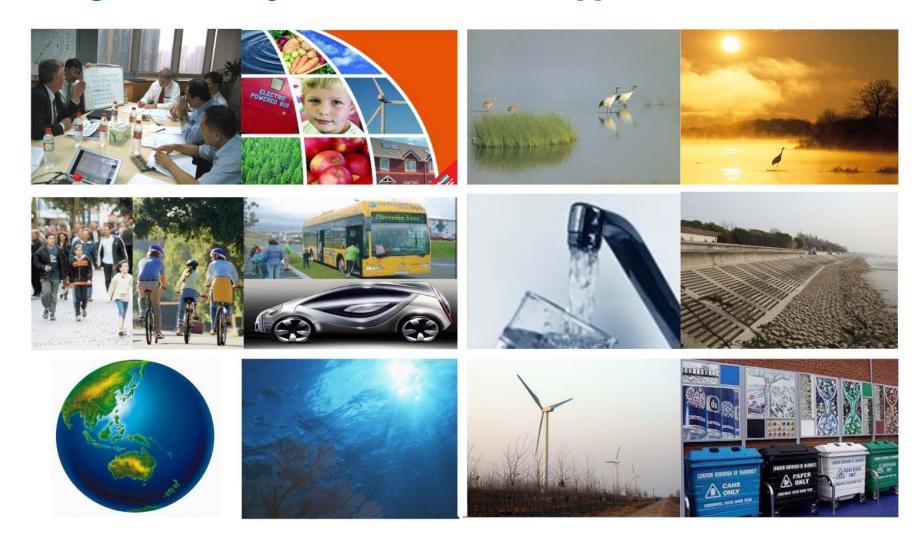
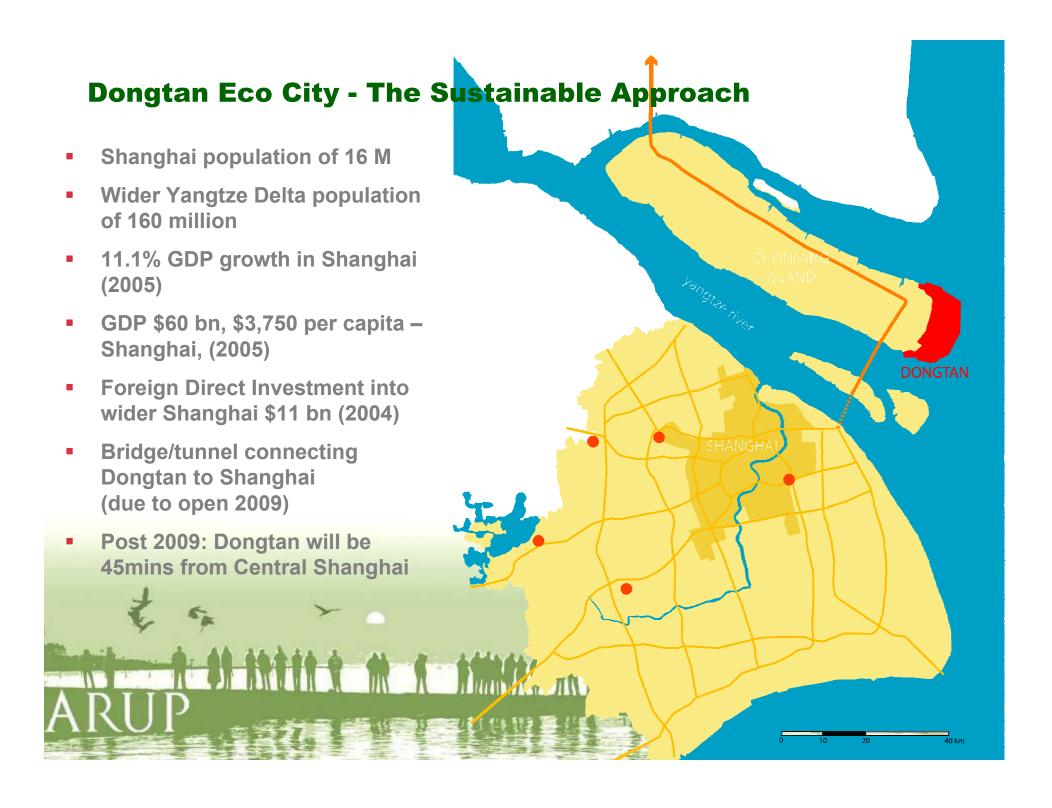
# Dongtan Eco City



## **Dongtan Eco City - The Sustainable Approach**





## **Environmental Protection** buffer city / linear city: protecting and enhancing 将来东滩分期 eco farms the bird habitat future dongtan phases 主要节点 main nodes future dongtan phases 将来东滩分期 secondary nodes 次要节点 unitaria y magazin Zero emission transport Water treatment and recycling Low traffic noise **Light pollution control** No landfill eco park **Biodiversity in landscape**

#### **Social and Economic Benefit**

**Sustainable Eco-city** 

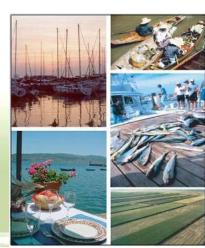
80,000 residents 15,000 visitors daily **51,000 jobs** 

**Conventional Approach City** 50,000 residents

19,000 jobs





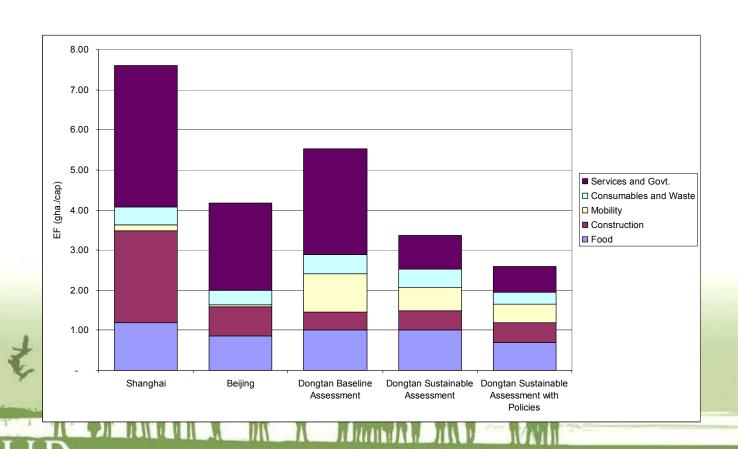




#### **Low Ecological Footprint**

**Eco-City Footprint** 2.6 gh/person

Conventional Approach City Footprint 5.8 gh/person





#### **Water Management**

**Sustainable Eco-city** 

Water Consumption 16,500 T per Day

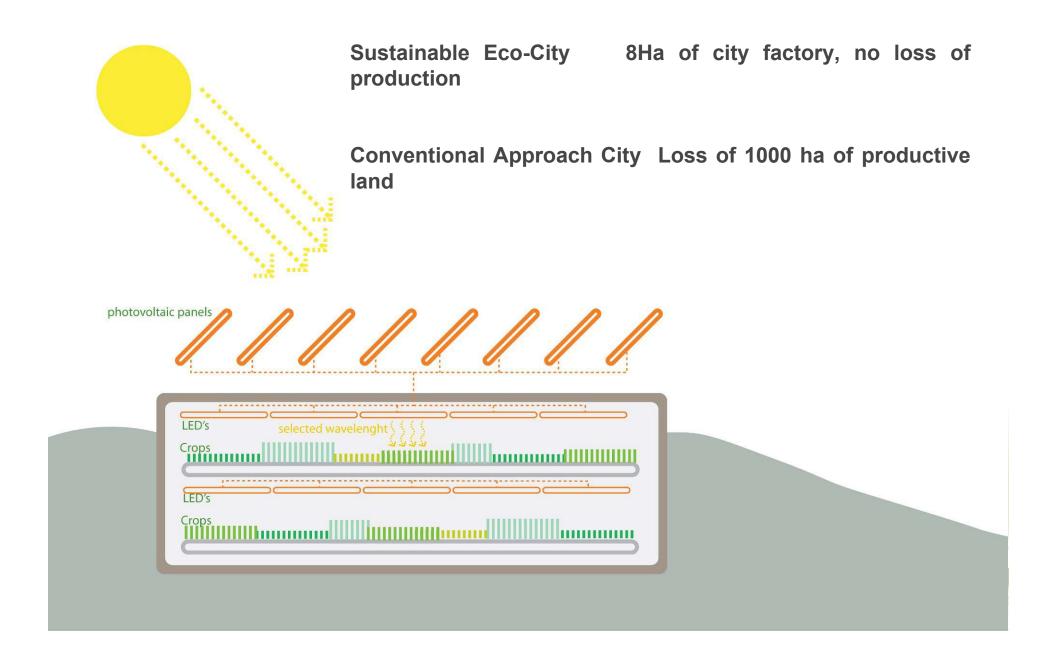
Water Discharge 4,300 T per Day

**Conventional Approach City** 

Water Consumption 29,000 T per Day
Water Discharge 29,000 T per Day



## **Objective 5- Agricultural Production**



#### Objective 6 - Energy Production, Use and Emission Reduction

Sustainable Eco-city Energy Demand 600 GWH/year

No CO2 Emission from energy for power

and heat

Conventional Approach City Energy Demand 1650 GWH/year

CO2 Emission of 350,000 tons per year





#### 目标7 一 废弃物管理

### **Objective 7- Waste Mangement**

Sustainable Eco-city 100%WASTE COLLECTION

**5000 T/YEAR TO LANDFILL** 

onventional Approach City 80% WASTE COLLECTION

30,000 T/YEAR TO LANDFILL



#### **Accessibility And Transport**

**Sustainable Eco-city** 

DAILY TRAVEL DISTANCE 4.2 million KM ZERO CO2 EMISSIONS AVERAGE TRIP LENGTH 24 KM

**Conventional Approach City** 

DAILY TRAVEL DISTANCE 6.0 million KM 400, 000 TONNES CO2 EMISSIONS PER YEAR AVERAGE TRIP LENGTH 56 KM





#### **Compact city**

low rise & high density – 3 to 8 storeys / 1.45 average plot ratio / 75 dwelling per hectares

80,000 people



#### **Accessible city – Zero Emissions**



## **Green city**



#### **Green City**

Green area per capita. WHO: 8 sqm / Shanghai: 10 sqm



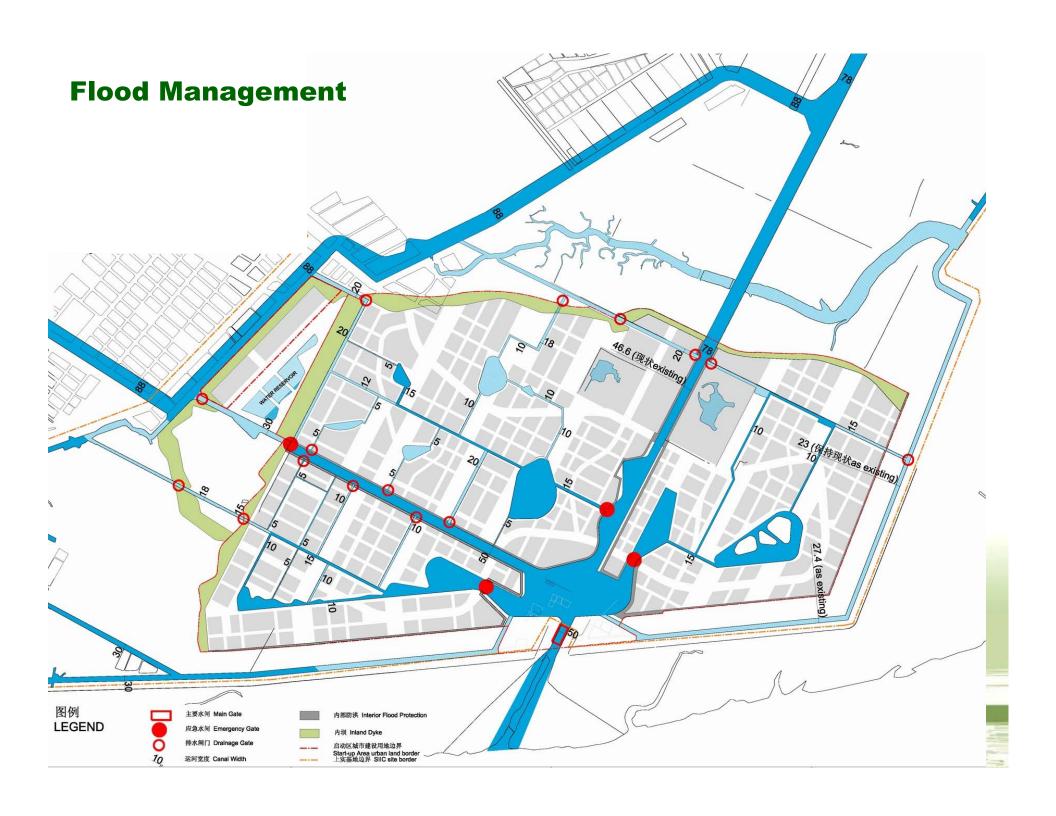


## **Green City – Accessible**



## **Water city**





#### The 3 challenges of urbanisation

decoupling – policy

replicating – implementation

aspiring – citizen/user



## better city, sustainable city

