



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

Sustainable Cities:

Hubs of Innovation, Jobs, Industrialization and Climate Action

Ms. Tonilyn Lim

**Industrial Development Officer
Renewable and Rural Energy Division
Department of Energy, UNIDO**



INCLUSIVE AND SUSTAINABLE INDUSTRIAL DEVELOPMENT

UNIDO's Mandate: Inclusive and Sustainable Industrial Development



- Poverty Reduction through Productive Activities

**Inclusive
Industry**



- Trade Capacity Building

**Competitive
Industry**



- Energy & Environment

**Green
Industry**



Sustainable Cities: UNIDO perspective

Sustainable cities are hubs of innovation, jobs, industrialization and climate action



Photo Source: Inhabitant



Photo Source: Chronicle Herald

The Role of Industry in Sustainable Cities

- Key engine of economic growth
- Beneficiary of city services, infrastructure and resources
- Source of environmental impact
- Solutions provider

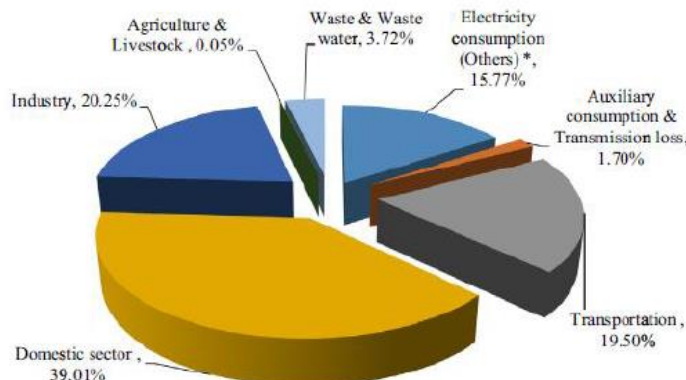


Chongqing (China)

Red dots are all industries

15 km

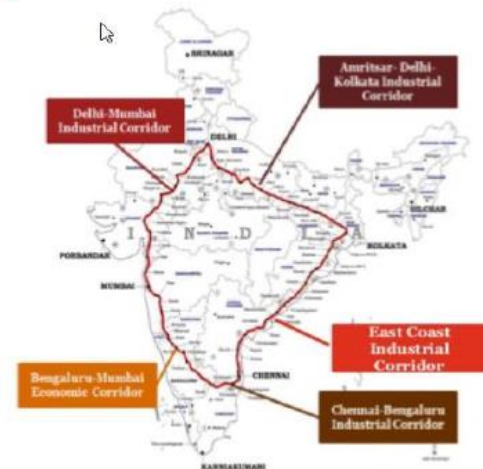
**Chennai, India
GHG Footprint
(2009-2010)**



Source: Ramachandra, T.V., et.al. (2015). GHG Footprint of Major Cities in India. *Renewable and Sustainable Energy Reviews*, 473-495.

Industrial Corridors (India)

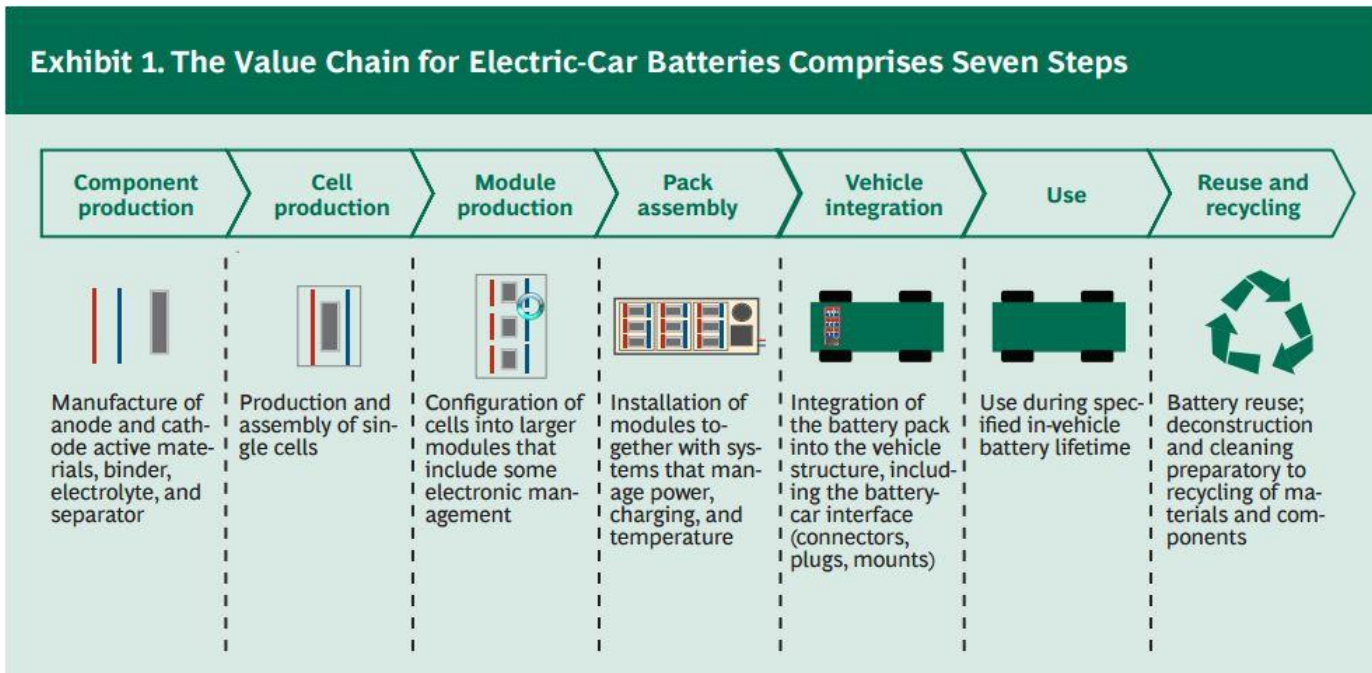
Smart City principles



Green Value Chains

Green and inclusive industry brings **jobs and climate innovation** for sustainable cities

- Developing green value chains
- Supporting small and medium sized enterprises (SMEs)



Source: BCG



Key Development Interventions

UNIDO's **key strategies** for sustainable cities

1) Driving green technology innovation at city scale

- Focusing on urban transport, energy and resource efficient system
- Creating innovation by pilot demonstration and scaling up
- Fostering green value chains and supporting SMEs

2) Promoting climate resilient urban planning and development

- Integrating climate risks and sustainability strategies in urban planning and management
- Improving urban institutional framework

3) Increasing partnerships with diverse stakeholders

- Drawing private sector, financing institutions, government, civil society, research institutes and international organizations to secure solid funding mechanism and promote knowledge management



Thematic Areas

Climate Resilient Industries hosted by Cities

- IEE and RE for Industrial applications
- Green supply chains / Green Freight influenced by Industrial Parks / Clusters
- Disaster Risk Reduction through resilient energy supply

Climate Smart City Service Delivery

- Energy Management System (ISO 50001) application in cities
- EE/RE in waterworks, transport, buildings
- Smart waste-to-energy refineries
- Smart grids

Value Chain Development of Products for Sustainable Cities

- Electric Vehicles and Charging Infrastructure
- Sustainable building materials production
- Clean Fuels
- Climate-Smart Peri-Urban Agriculture (Greening the Food Value Chain)

Enabling Environment; Innovation; Technology Demonstration; Partnerships



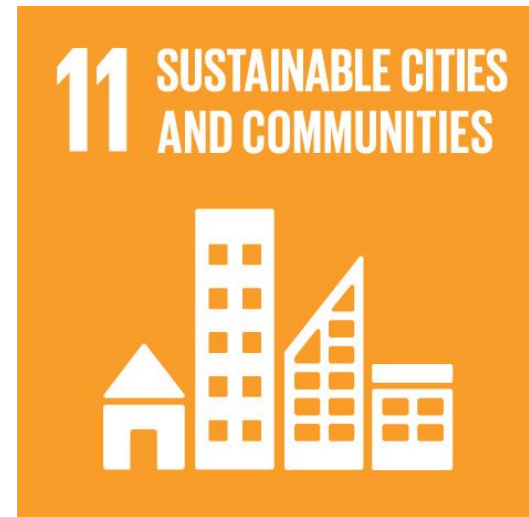
Sustainable Cities Integrated Approach Pilot



- Integrated way to address mega-trends of global environmental degradation
- UNIDO in climate change & chemicals and waste focal areas

Actions inspired by the SDGs

- SDG 7: Affordable and clean energy
- SDG 9: Industry, innovation and infrastructure
- SDG 11: Sustainable cities and communities





Inclusiveness for smart sustainable cities

Does *smart technology* bring human prosperity?



Source: photograph by Lewis W. Hine



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Thank you for your attention



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**Ms. Tonilyn Lim
Project Manager
T.Lim@unido.org
+431 26026 3847**