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ENERGY, CLIMATE AND SUSTAINABLE DEVELOPMENT

Promoting Low Carbon Transport in India

Project Inception Workshop

12 November, 2010

New Delhi

Supported by:

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

based on a decision of the Parliament of the Federal Republic of Germany

DTU

Key Facts

- **Budget:** € 2.49 million
- **Duration:** 2010 – 2013 (3 years)
- **Implementing Agency:**
  - United Nations Environment Programme (UNEP)
- **Implementing Partners:**
  - UNEP Risoe Centre, Denmark
- **Along with :**
  - IIMA: Indian Institute of Management, Ahmedabad
  - IITD : Indian Institute of Technology, New Delhi
  - CEPT University, Ahmedabad

Context

- Climate Challenge
  - How to stabilize at **2 deg C**?
  - Indian GHG Emissions 1727.71 mtCO_2 in 2007 (MoEF, 2010) but **per capita emissions below world average** (1.7 tCO_2)
  - Transport sector – **2nd largest contributor** to CO_2 emissions in India
- Drivers
  - **Modal switch** towards road transport
  - Growth in vehicle population faster than economic growth (MoRT&H)
  - High share of **two wheelers**
- Local challenge
  - **Local air quality** has deteriorated in most of Indian cities (New pollutants like NOx, Ozone, etc) (CSE
  - **Road accidents /fatalities** have increased with increasing vehicle populations (MoRT&H)
  - **Informal sector and poor** have ignored in formal transport planning
  - **Congestion**

National Policies

- National Action Plan on Climate Change
  - Sustainability approaches, e.g., promotion of **public transport**, greater use of bio-fuels, improvement of **vehicle efficiency**, etc.

- Jawaharlal Nehru National Urban Renewal Mission
  - Focused on creating urban **infrastructures** – roads, highways, expressways, MRTS, Metros, etc.

- Auto fuel policy – Road map for improving vehicle emissions
- Fuel economy standards and labelling -

Project Objectives

- Delineating an enabling environment for coordinating policies at national level to achieve a sustainable transport system

- Enhancing capacity of cities to improve mobility with lower CO_2 emissions.

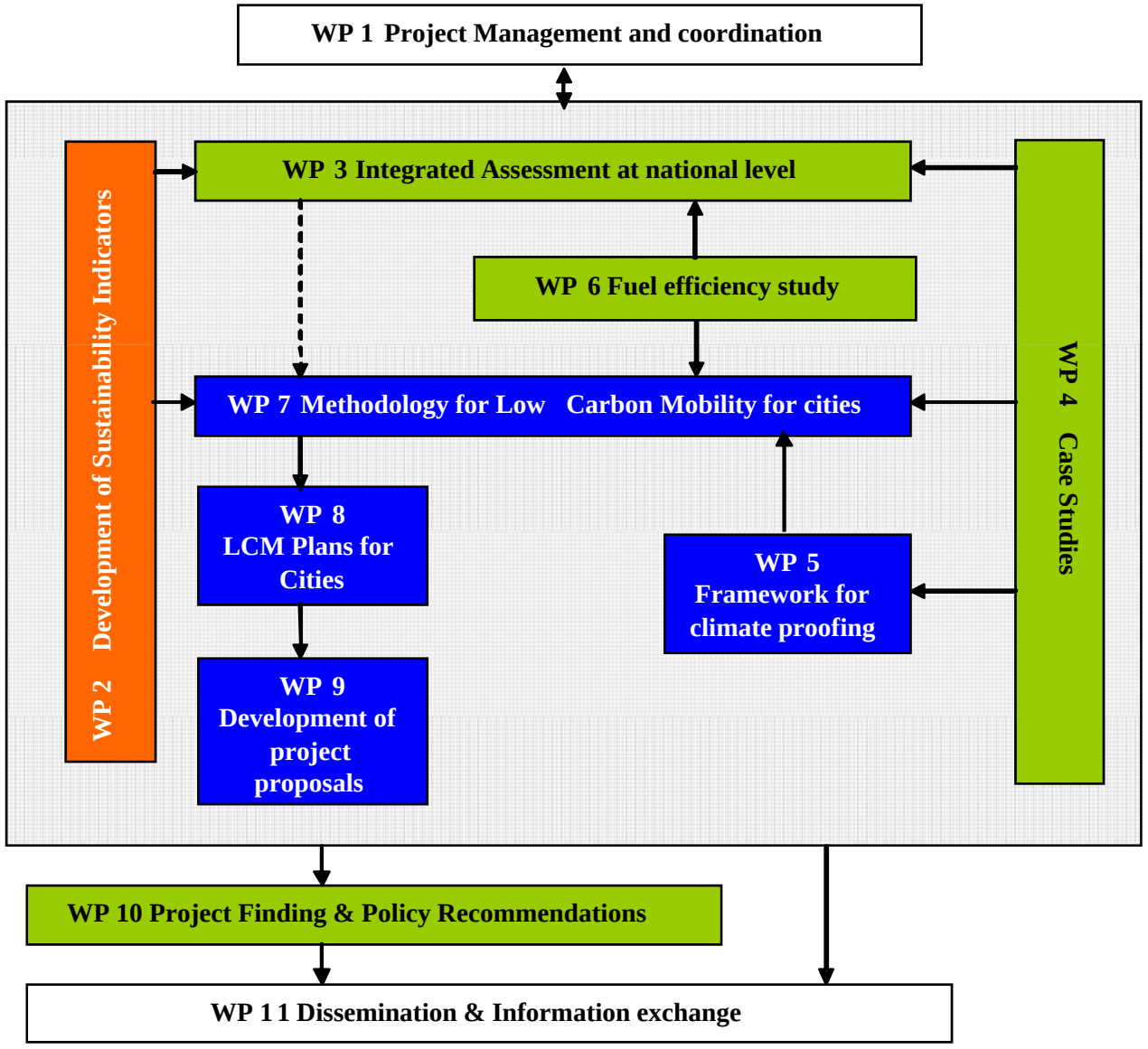
Scope – National Level

- A Transport Action Plan
  - **Sustainability Indicators** pertinent to 'Sustainable Transport Services' in India.
  - National level **assessment of transport sector**
  - **Case studies** of existing and under implementation projects.
  - A **Road Map** of technology needs, related R&D and technology transfer, finance and pathways for international cooperation.
  - **Policy recommendations** for achieving a sustainable transport system.

Scope City Level

- Low Carbon Mobility Plans
  - A **methodology** for developing low-carbon mobility plans at city level.
  - Development of **mobility plans (upto 4 cities)** which identify appropriate infrastructures and technologies for reduction of CO_2 emissions and adaptation to climate change impacts
- Project Proposals

Work Packages



Project Partners in India

Indian Institute of Management, Ahmedabad

Indian Institute of Technology, Delhi

CEPT University, Ahmedabad

Workplan

	Activity / Month →	3	6	9	12	15	18	21	24	27	30	33	36
	General activities												
	Methodology development												
	Inception Workshop												
	Conclusion Workshop												
	Network												
	Transport Action Plan												
1	Development of Sustainability Indicators												
	Release of report on Indicators (Wksp)												
2	Integrated Assessment												
	Model Data bases												
	Base Case												
	Sustainable Case												
	Release of report on Integrated Assessment & Case Studies (Wksp)												
3	Case Studies												
4	Framework for climate proofing												
	Release of framework for climate proofing												
5	Fuel efficiency Policy Study												
6/7	Road Map for Sustainable Transport												
	Release of Transport Action Plan (Wksp)												
8	Dissemination / Discussion												
	Low Carbon Mobility Plans - Cities												
1	Methodology for Low Carbon Mobility												
2	Mobility Plans												
	Release of Low Carbon Mobility Plans (Wksp)												
3	Project proposals for JNNURM												
4	Dissemination												

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Thank You

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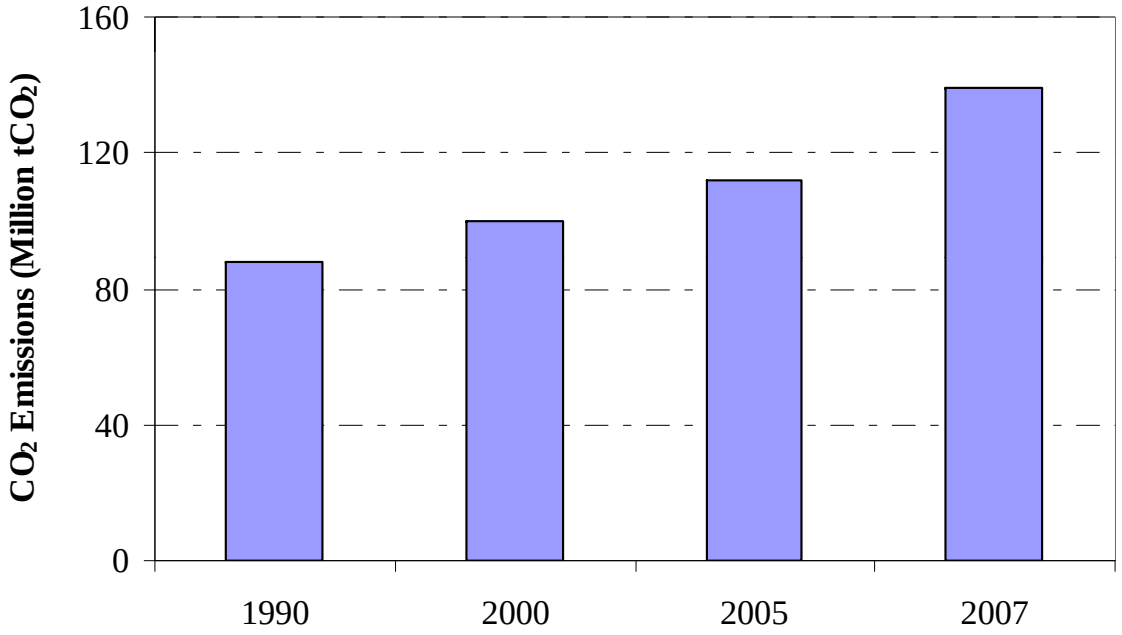
CO2 Emissions from Transport



Share of transport	**15%**	**10%**	**9%**	**9%**

Return

Vehicle Population

But despite this there are only 10 cars per 1000 persons as compared to 565 cars for Germany