

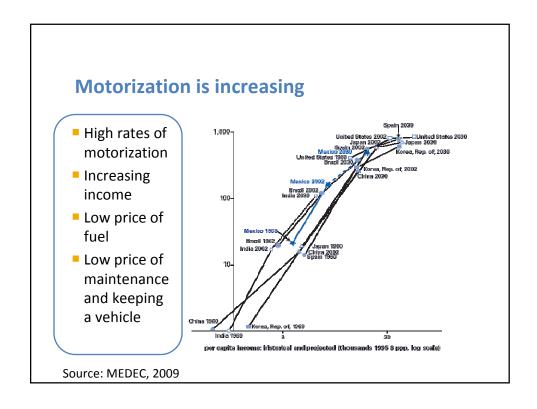
## COLLABORATING FOR HEALTHY, LIVABLE AND INCLUSIVE CITIES

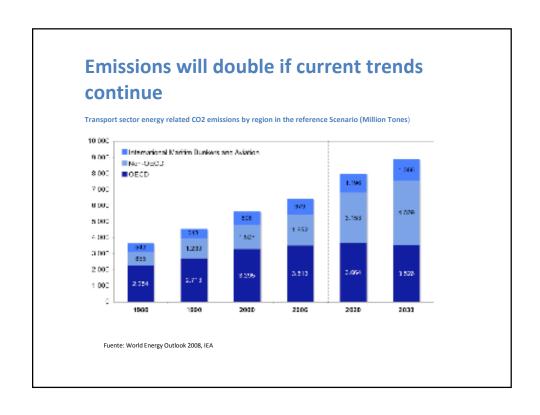
**Sergio Sanchez** 

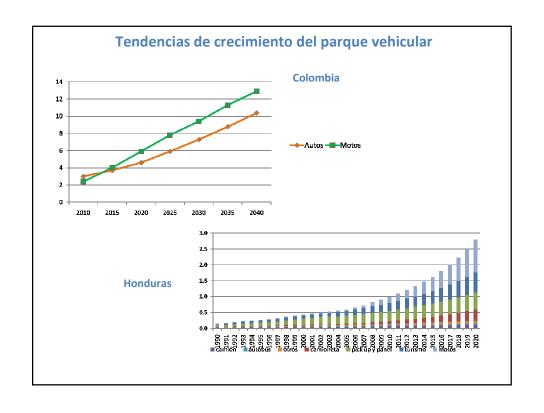
Washington, D.C.

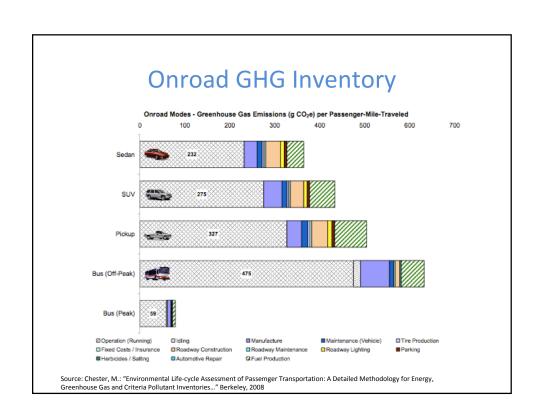
May 3, 2011

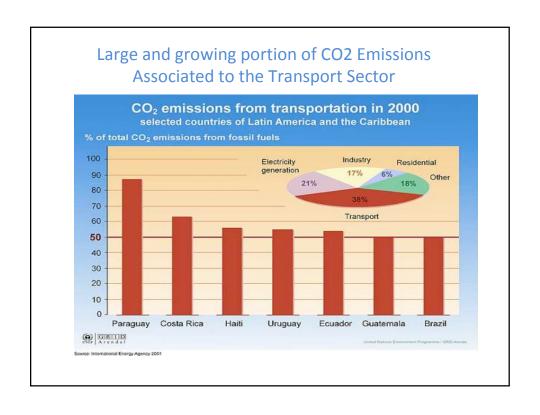
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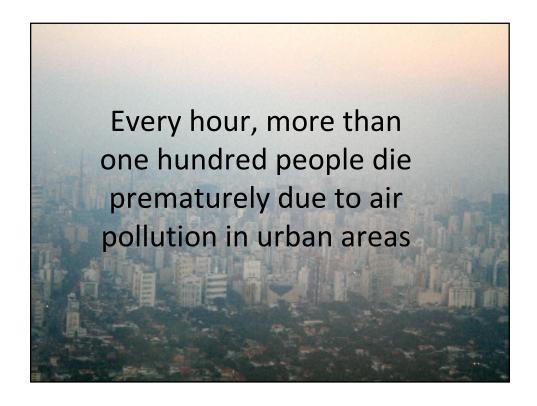






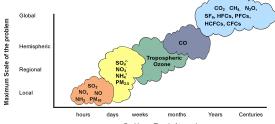






## Challenges and opportunities

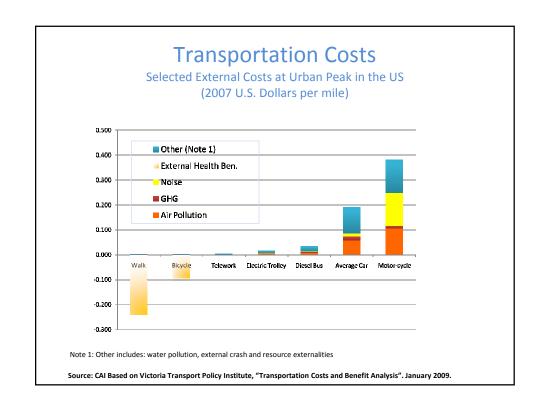
- Addressing air pollution as a serious threat to public health and obstacle for sustainable development.
- Dealing with air pollution and across the scales
- Moving from assessment to action
- Creating awareness of true costs of poor air quality and benefits in key stakeholders
- Integration of climate change and air pollution policies producing cobenefits





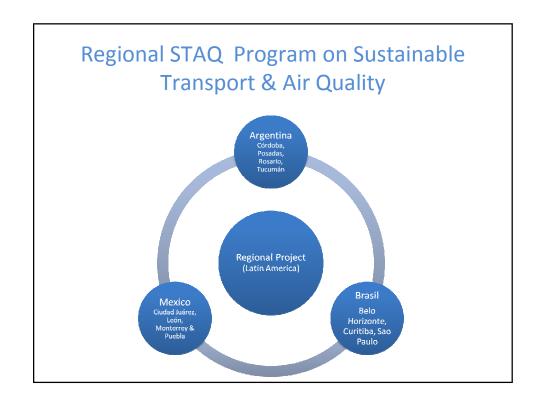












### **Regional Objectives:**

- 1. Establish a network of practitioners on cleaner urban transport systems in Latin American cities
- 2. Provide technical assistance to cities to develop urban transport strategies
- 3. Improve capacity of cities to quantify impacts of transport interventions.

### **Country Objectives:**

- 1. Reduce GHG emissions growth through the promotion of long term increase in use of less energy intensive transport modes.
- 2. Create policy guidelines and address barriers for more energy efficient and cleaner transport investments in selected cities and countries.

## STAQ Program Objectives

#### **Superior objective:**

Reduce the rate of growth of GHG emissions from transport in Latin America through the promotion of less energy intensive and cleaner modes of transport

### **Major Barriers**

#### Technical

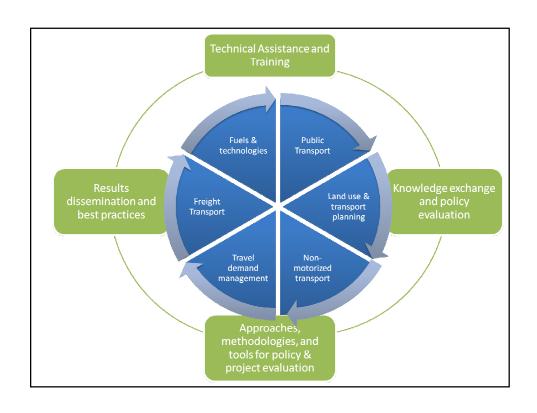
- Deficient understanding of options, benefits & costs
- Preference for known BAU solutions
- Lack of expertise for designing and implementing sustainable transport projects
- Deficient (and distorted) allocation of resources to transport, policies, program and projects

### Social

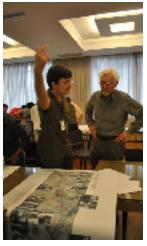
- Deficient key stakeholders involvement
- Dominant social and individual beliefs and aspirations favoring private cars.

### Financial

- Wrong economic incentives
- Inadequate capacity to access finance
- Limited private sector involvement



"nadie enseña a nadie y nadie se enseña solo, sino que todos nos enseñamos en comunión"





#### **Communities of Practice**



Communities of practice are formed by people who engage in a process of collective learning in a shared domain, in this case, sustainable transport and air quality

**The community:** In pursuing their interest in their domain, members engage in joint activities and discussions, help each other, and share information. They build relationships that enable them to learn from each other. Having the same job or the same title does not make for a community of practice unless members interact and learn together.

The practice: Members of a community of practice are practitioners. They develop a shared repertoire of resources: experiences, stories, tools, ways of addressing recurring problems—in short a shared practice.

Photo by <u>D'Arcy Norman</u>

#### **Communities of Practice**



Travel Demand Management



Land Use and Transport Land Use and Transport



**Public Transport** 



Freight Transportation



Methodologies to evaluate emission reduction from transport interventions



Non-motorized Transport





# The Integrated Environmental Strategies Approach





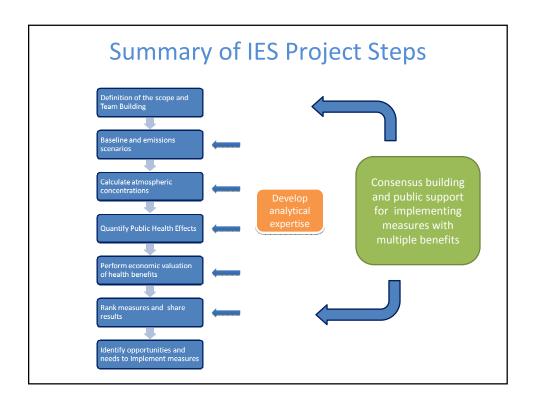






## **Goals and Objectives**

- 1. Provide tools and approaches to analyze environmental, public health, and economic cobenefits
- 2. Improve analytical methods for co-benefits analysis
- 3. Build analytical expertise
- 4. Promote local support for implementing measures and policies with multiple benefits



## Applying the IES approach to the SITP for Bogota











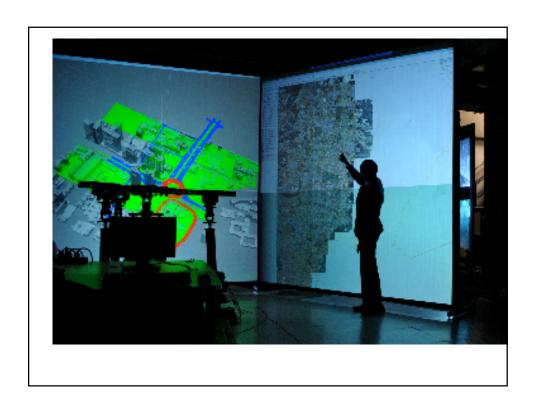
#### **Overall objectives:**

- Deepen the understanding of the environmental costs and benefits of Bogotá's SITP
- Estimate the environmental and public health impacts of **potential changes** for the SITP, e.g., measures to discourage automobile use.
- Prioritize and evaluate the best set of projects to maximize environmental and health benefits.
- Advance the applicability of the IES approach as an analytical and capacity building process for assessing and prioritizing transport interventions in Latin American cities.



## Scope Project and Build a Team





#### **Current IES step: Emission scenarios** PM Emissions (Ton/Year 800 700 600 Scenario Do Nothing: 500 estimated from 400 projections of 300 economic growth; population; transport demand; and 2008 2010 2012 2014 2016 2018 2020 motorization - Sin SITP dencial - - Con SITP CO<sub>2</sub> Emissions (Ton/Year Scenario with SITP: 10,000,000 estimated from SITP 9,000,000 contracts and plans 8,000,000 7,000,000 6,000,000 5,000,000 4,000,000 2010 2012 2014 2016 2018 2020 - - Con SITP — Sin SITP

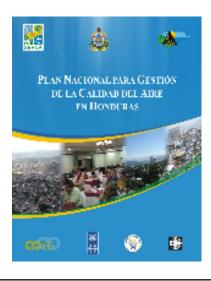
### **Current Stage**

 Definition of Scenarios with Complementary Measures which are studied and that will be proposed to Local authorities.

OBJECTIVE	COMPLEMENTARY MEASURES
Promote trips in public and non motorized transport	<ul> <li>Integration of taxis and bicycles to the system</li> <li>Car parking in SITP terminals</li> <li>Restrictions to car circulation in certain SITP corridors</li> <li></li> </ul>
Promote operational efficiency	<ul> <li>Inclusion of express services</li> <li>Self regulation and stricter environmental standards to operators</li> <li>Eco-driving training</li> <li></li> </ul>
Improve vehicle technology and environmental performance of SITP buses	Better procedures on vehicle inspection and maintenance

Emission Inventories as a basis for developing Air Quality/Climate Change Strategies and Programs

## Major outputs from previous projects and analysis in Honduras and Nicaragua



Tipo de vehiculo		Emissiones (tentaño)					
	PMR	502	60	NOs	COV		
utomovil	25	7	12,774	1,367	2,521		
D.GA	19	5	9,410	1,052	1,953		
ugunda	- /	4	3/1	129	128		
Nerobis	10	8	1,530	238	282		
antioneta	105	RI	13,045	3,949	3,264		
antion	117	46	1,530	3329	323		
ubezal	34	1/	554	1,125	129		
ulubûs	138	112	4,876	6,505	849		
olociclela	24	3	13,161	514	1,502		
otal	600	294	06,722	16,738	10,990		

## Objectives of the New Phase for Honduras and Nicaragua

- Identify, characterize and evaluate measures in the transport sector to reduce air pollution in Tegucigalpa
- Prioritize measures based on a costeffectiveness analysis
- Provide recommendations for their implementation.

## Data collection process

### **Challenges**

### Data and information

- Scarce or limited acces
- Sometimes it does not exist or is of poor quality
- Needs for simplified approaches and educated guesses

### **Opportunities**

- Local and external collaboration catalyze:
- •Identification of existing information and data gaps
- Development of awareness of the importante of data
- Validate and cross check data

## **Involving Key Stakeholders**



## **Expected Outcomes**

- Priorization of measures based on its costefectiveness
- Capacity Development
  - Local analytical capacities
- Report
  - Communication
  - Outreach
- Decision making tools
  - Easily comunicable
  - Easily understandable for a wide audience



# CONFERENCE ON SUSTAINABLE TRANSPORT, AIR QUALITY AND CLIMATE FOR LATIN AMERICA AND THE CARIBBEAN

Sustainable Transport, Air Quality & Climate Change Conference for Latin America & the Caribbean: How to achieve sustainable urban transport?

Convention City Center Rosario, Argentina May 10 – 14, 2011

















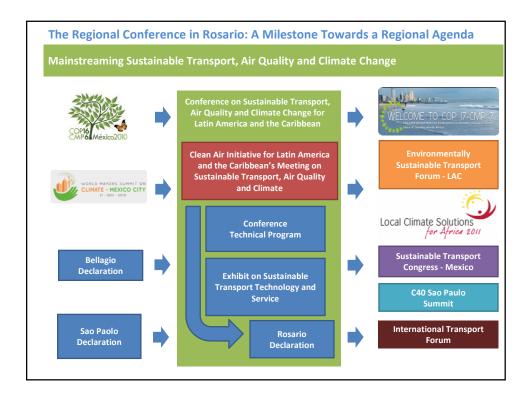












## Conference figures:

- +100 speakers and special invitees from more than 20 countries
- 15 countries from LAC
- 25 metropolitan areas
- +15 transport operating organizations
- Several mayors from LAC



## Thank you!

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