## Mexico National Emissions Inventory

# Emission Inventory Needs and Enhancements Planned for Mexico

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Leonora Rojas-Bracho



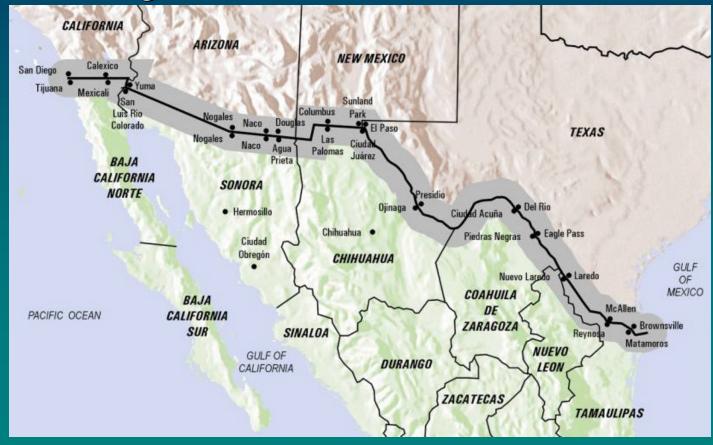
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# Background

■ La Paz Agreement (Late 1980s)



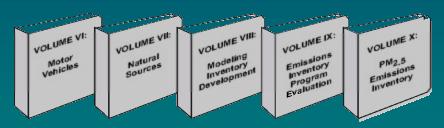
# Background

- Started in 1995
- **1**996-2000
  - Capacity building
    - Training and Workshops
    - ❖Technical studies (Mobile 5 Mexico, e.g.)
  - Methodology Testing
    - \*Manuals
    - Advanced Workbooks
    - Inventories for Tijuana and Mexicali



## Background: Emission Inventory Manuals





I. Emissions Inventory Program Planning\*

II. Emissions Inventory Fundamentals\*

\* Concluded

III. Basic Emissions Estimating Techniques\*

IV. Point Sources\*

V. Area Sources\*

VI. Motor Vehicles\*

VII. Natural Sources \*

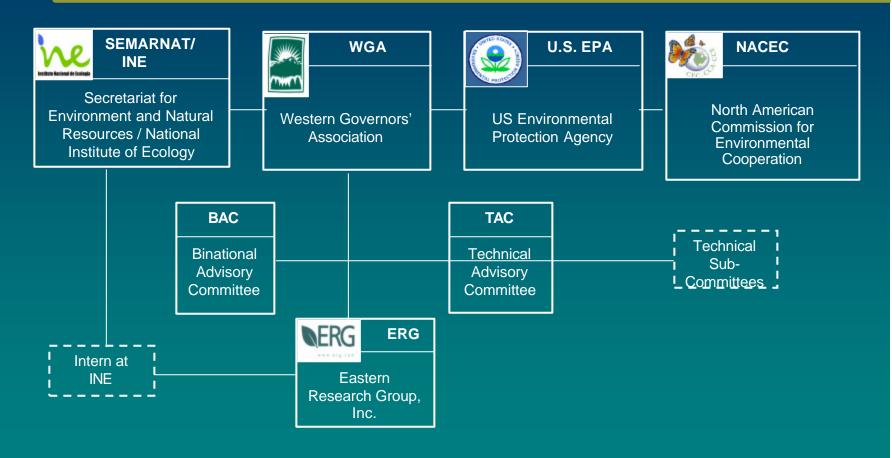
VIII. Modeling Inventory Development\*

IX. Emissions Inventory Progress Evaluation

X. PM<sub>2.5</sub> Emissions Inventory



# Organization





## Project Scope

- Mexico National Emissions Inventory Project (NEI)
- Emissions Inventory Manuals
- Other Studies:
  - Technical Studies
  - NONROAD-Mexico Model Development



## Mexico NEI Objectives

1. Develop the <u>first</u> National Emissions Inventory for Mexico

2. Comply with Federal Environmental Law mandate to integrate and update a National Emissions Inventory for Mexico



## Mexico NEI Objectives

- 3. Support NACEC efforts in the development of a regional emissions inventory
- 4. Promote institutional capacity-building
- 5. Support efforts for regional haze compliance in border US states



## NEI Scope

#### Base year:

**1999** 

#### **Sources:**

Point, area, biogenic and mobile

#### **Pollutants of interest:**

■ NO<sub>x</sub>, SO<sub>x</sub>, VOCs, CO, PM<sub>10</sub>, PM<sub>2.5</sub> and NH<sub>3</sub>



## NEI Scope

#### **Coverage:**

- Phases I, II: Six Mexico-US Border States (June/03)
- Phase III: Rest of the country & MCMA (June/04)
- State and municipal level



# **Main Issues and Strategies**Point Sources

#### **■ Issues:**

- Federal vs. state jurisdiction
- Different reporting requirements
- Different formats

#### Strategies:

- Participation of SEMARNAT state "delegaciones" and local authorities in the TAC
- Close communication with local authorities via the state "delegaciones" (letters and meetings)
- Meetings with National Association of State Environmental Authorities (ANAAE)



# **Main issues and strategies**Government Stakeholders

#### ■ Issues:

- PEMEX: 4 different companies, fuel production, distribution and use
- Energy, Transport and Agriculture Secretariats
- National Institute of Statistics, Geography and Information Technology (INEGI)

#### Strategies:

- Identification of key representatives
- Meetings and personal follow-up



# **Main Issues and Strategies**Non-Government Stakeholders

#### ■ Issues:

- Manufacture, distribution and use of products (mainly solvents)
- No reporting requirement
- RETC
- Strategies:
  - Identify and contact leading trade associations
  - Meetings, reports on progress and personal follow-up
  - Agreed on estimation criteria



## **Products**

- **■** First draft Preliminary Emissions Inventory
  - Six México-US border states
  - Comment period up to October 1st, 2003
  - Released early 2004



## **Products**

#### **■** Final inventory

- Released by mid 2004
- Valuable product for local authorities
- Useful for universities and research institutions -air quality and health applications
- Primary input for nation-wide air quality management strategies
- Solid baseline to assess control scenarios



## Other Outcomes

- Improve exchange of information within SEMARNAT and with local environmental authorities
- Increase and enhance communication with other government entities
- Promote better understanding of the inventory outside of SEMARNAT



## Needs

- Assess the quality of existing emissions databases and set priorities for improvement
- Build national capacity for inventory management
- Improve data management at Delegaciones and local governments
- Promote more efficient data collection with trade associations and private stakeholders
- Continue air quality management efforts such as the PROAIRES in several cities



## Planned Enhancements

- Dissemination of the inventory
- Training (wokshops, meetings, etc.)
  - Books from manuals
- Transfer proyect leadership to SEMARNAT
  - Close relationship with State Environmental Authorities and SEMARNAT delegaciones.
- Other projects



### Contacts

- Technology Transfer Network (USEPA)
  - •US-México Border Information Center on Air Pollution (bilingual)
  - •English <a href="http://www.epa.gov/ttn/catc/cica/cicaeng.html">http://www.epa.gov/ttn/catc/cica/cicaeng.html</a>
  - •Spanish <a href="http://www.epa.gov/ttn/catc/cica/cicaspa.html">http://www.epa.gov/ttn/catc/cica/cicaspa.html</a>



### Contacts

Project website

http://www.erg.com/mnei

ID and password upon request

■ INE's website

http://www.ine.gob.mx/dgicurg/calaire/lineas/inventario\_nacional.html

Email: vgaribay@ine.gob.mx



# Thank you

lrojas@ine.gob.mx

