



# The Climate and Clean Air Coalition on SLCPs and Diesel Emissions



Dr. Svante Bodin  
European Director  
ICCI

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- Black carbon, methane, tropospheric ozone and some HFCs are substances with relatively short lifetimes (weeks to 15 years) in the atmosphere;
- Short-lived climate pollutants (SLCPs) have various detrimental impacts on air quality and public health, agriculture and ecosystems (except HFCs);
- SLCPs are also responsible for a substantial fraction of climate change;
- SLCPs offer opportunities to slow down regional and global climate change in the near term— especially in vulnerable and rapidly changing areas like the Arctic and the Himalayas
- SLCP issues and potential not yet fully recognized;

- **Voluntary and country-led Coalition** launched 16 February 2012 by six governments and UNEP to:
  - Raise awareness of SLCP impacts and mitigation strategies;
  - Enhance and develop new national and regional actions, identify and overcome barriers, enhance capacity and mobilize support;
  - Promote best practices and showcase successful efforts; and
  - Improve scientific understanding of SLCPs



## **The CCAC.....**

- **CCAC strongly politically driven. High, ministerial level engagement. Political commitment key.**
- **Recognizes that action on SLCPs is complimentary to measures to reduce long-lived GHG and the UNFCCC. No intention at present to take SLCPs to the UNFCCC.**
- **CCAC action oriented – not normative or aiming at an international agreement – based on the desire to explore the SLCP window of opportunity. Key word: Scaling-up**

## **And...**

- **Two entry points: climate change mitigation in the near term *and/or* air quality, health and crop yield benefits.**
- **CCAC wants to work with other organizations and avoid duplication-assesses its added value, e.g. in relation to the GACC and Clean Cookstoves**
- **Financing important for up-scaling. WB already a partner. CCAC seeking other financial partners.**



# Partners

In 15 months, the Coalition has grown to **64 Partners**  
(32 State and REIO Partners, 32 IGOs and NGOs)

## Country Partners

Australia	Netherlands
Bangladesh	New Zealand
Benin	Nigeria
Canada	Norway
Chile	Peru
Colombia	Poland
Cote d'Ivoire	Republic of
Denmark	Korea
Dominican	Republic of
Republic	Maldives
Ethiopia	Sweden
Finland	Switzerland
France	United
Germany	Kingdom
Ghana	United States of
Israel	America
Italy	The European
Japan	Commission
Jordan	
Mexico	

## Non-country Partners

Bellona Foundation  
Caucasus Environmental NGO Network  
Center for Clean Air Policy  
Center for Human Rights and  
Environment  
Clean Air Initiative for Asian Cities, Inc.  
Clean Air Institute  
Clean Air Task Force  
ClimateWorks Foundation  
Earthjustice  
Environmental Defense Fund  
Environmental Investigation Agency  
EvK2CNR Committee  
Global Alliance for Clean Cookstoves  
Institute for Advanced Sustainability  
Studies  
Institute for Global Environmental  
Strategies  
Institute for Governance and  
Sustainable Development  
International Centre for Integrated  
Mountain Development  
**International Council on Clean  
Transportation (ICCT)**

## International Cryosphere Climate Initiative

International Institute for  
Sustainable Development  
International Union of Air Pollution  
Prevention and Environmental  
Protection Associations (IUAPPA)  
Molina Center for Strategic Studies in  
Energy and the Environment  
Natural Resources Defense Council  
Regional Environmental Center  
Stockholm Environment Institute  
United Nations Development  
Programme (UNDP)  
United Nations Environment  
Programme (UNEP)  
United Nations Industrial  
Development Organization (UNIDO)  
World Bank

## And as of today

International Climate Change  
Partnership (ICCP)  
Climate Market Investment  
Association (CMIA),  
International Solid Waste Association  
(ISWA)

## High Level Assembly

- High Level meeting of the Partners

## Working Group

- Oversees the activities of the Coalition

## Steering Committee

- Oversight support and recommendations to the Working Group and High Level Assembly

## Scientific Advisory Panel

- Advises on scientific matters
- Small group, demand based-presently 8 members

## Secretariat

- Small Secretariat hosted by UNEP in Paris
- Also manages the Coalition Trust Fund

## **1. Reducing Black Carbon and Fine Particulate Matter Emissions From Heavy Duty Diesel Vehicles and Engines**

### **Objectives:**

- Promoting policies to introduce low sulphur fuels and low emission standards like EURO VI or equivalent emission standards
- Using market mechanisms and private-public partnerships to accelerate use of fuel-saving and emission-reducing technologies (Green Freight Declaration, Charter or Programs)
- Addressing elevated emissions from existing vehicles stock (retrofit, scrapping etc.)

### **2 Year Work Plan:**

- Advancing and implementing regulations to address HDD emissions by supporting national or regional initiatives
- Mobilizing key financial and policy mechanisms by working with financiers (WB), global strategy for low sulphur fuels and a Green Freight Declaration
- Outreach to key private sector partners in key countries/regions including petroleum and vehicles industry

**Lead Partners:** USG, UNEP, ICCT and Canada



## 2. Mitigating Black Carbon And Other Pollutants

### From Brick Production

✓ **FIRST ACTIONS:** convene expert task force, produce global assessment, and formulate long-term programme of action with demonstration projects.



## 3. Mitigating SLCPs From The Municipal Solid Waste Sector

✓ **FIRST ACTIONS:** support pilot cities to develop strategies for reducing SLCPs from waste, and build a knowledge network for sharing best practices in cities around the world.



### 4. Promoting HFC Alternative Technology And Standards

✓ **FIRST ACTIONS:** support development of HFC inventories in pilot countries; organize Commercial Refrigeration Technology Forum; and support the production of case studies on low GWP options for specific subsectors.



### 5. Accelerating Methane And Black Carbon Reductions From Oil And Natural Gas Production

✓ **FIRST ACTIONS:** work with key industries and countries in the oil and natural gas sector to encourage cooperation and support the implementation of new and existing measures to substantially reduce SLCP emissions from natural gas venting, leakage, and flaring.

### 1. National Action Planning (NAPs)

✓ **FIRST ACTIONS:** support National Action Planning for SLCPs, including national inventory development, building on existing air quality, climate change and development agreements, and assessment, prioritization, and demonstration of SLCP mitigation measures.

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### 2. Financing Mitigation of SLCPs

✓ **FIRST ACTIONS:** address current knowledge gaps, identify existing and potential avenues and mechanisms to monetize the non-climate benefits of SLCP reduction activities at the national and international scales.

- ✓ **Awareness raising and outreach on SLCPs – continued expansion of the Coalition –**
- ✓ **Implementation of 5 Focal Areas and 2 initiatives – first phase of activity completed in early 2013**
- ✓ **Development of new Focal areas/initiatives – proposals underway for:**
  - **Clean cookstoves (approved) & domestic heating**
  - **Reducing methane and black carbon from agriculture**



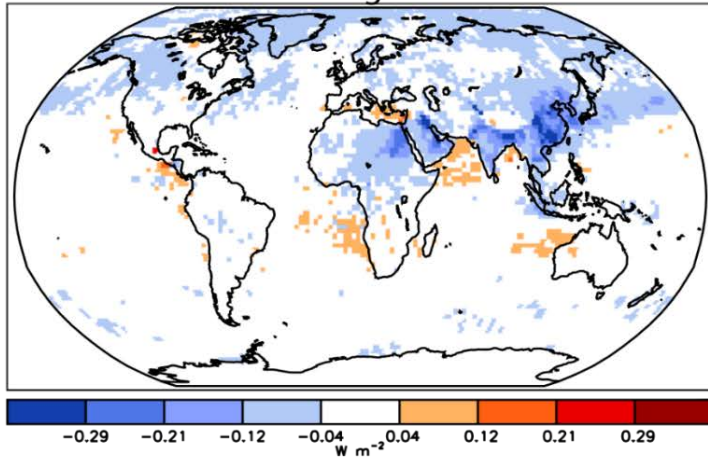


# Preliminary Maps: On-road Diesel (Euro IV)

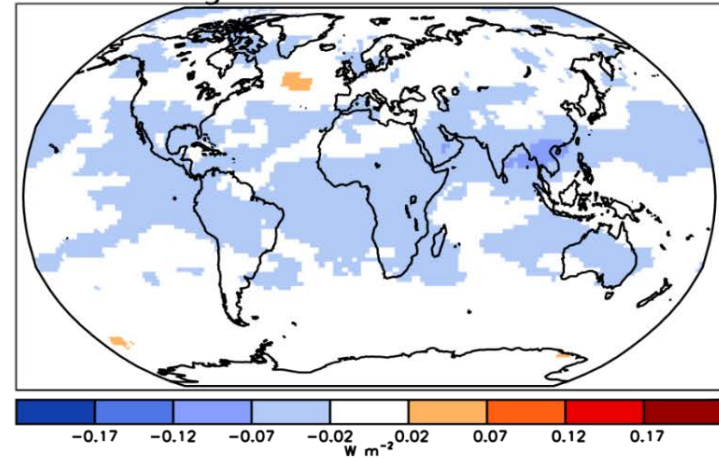
## NASA-GISS Model, Both direct and indirect aerosol impacts

Forcing resulting from measures on on-road diesel vehicles

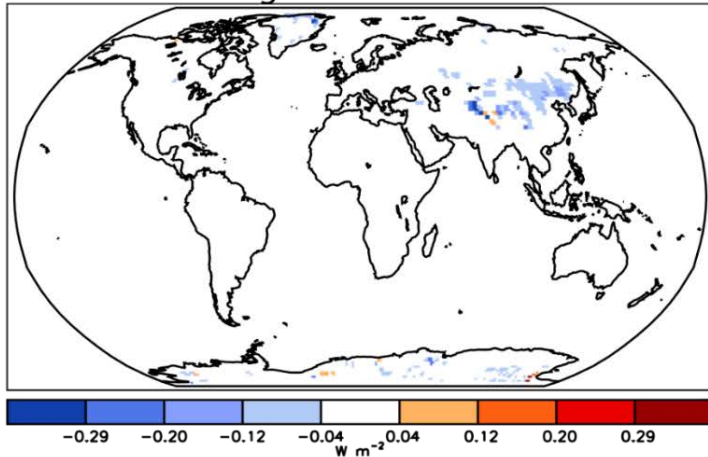
Net direct aerosol forcing



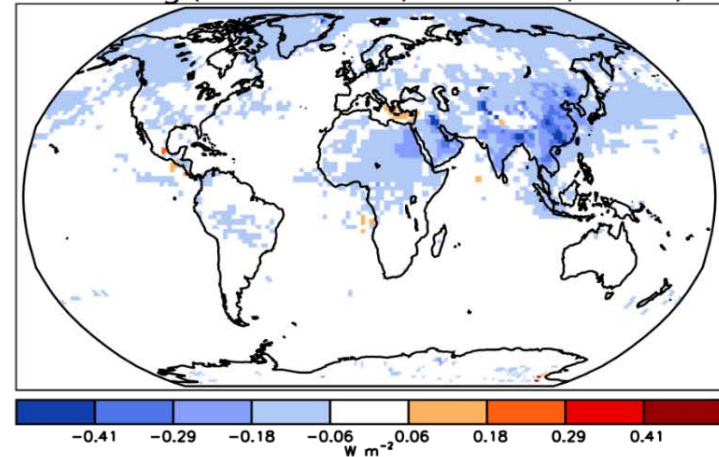
Ozone forcing



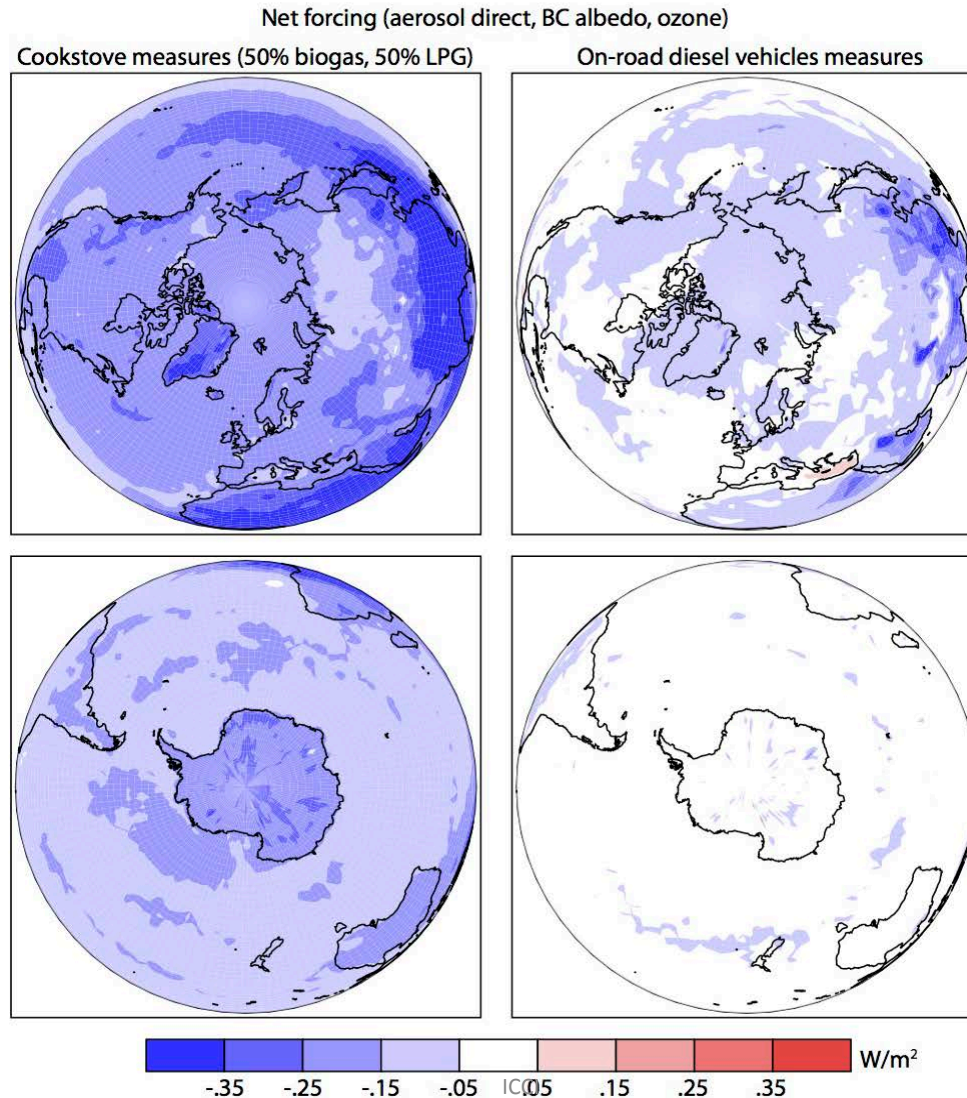
BC albedo forcing



Net forcing (aerosol direct, BC albedo, ozone)



# Net Forcing: Polar Comparison Cookstoves, Diesel



NASA-GISS Model



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**THANK YOU**

[www.unep.org/ccac](http://www.unep.org/ccac)