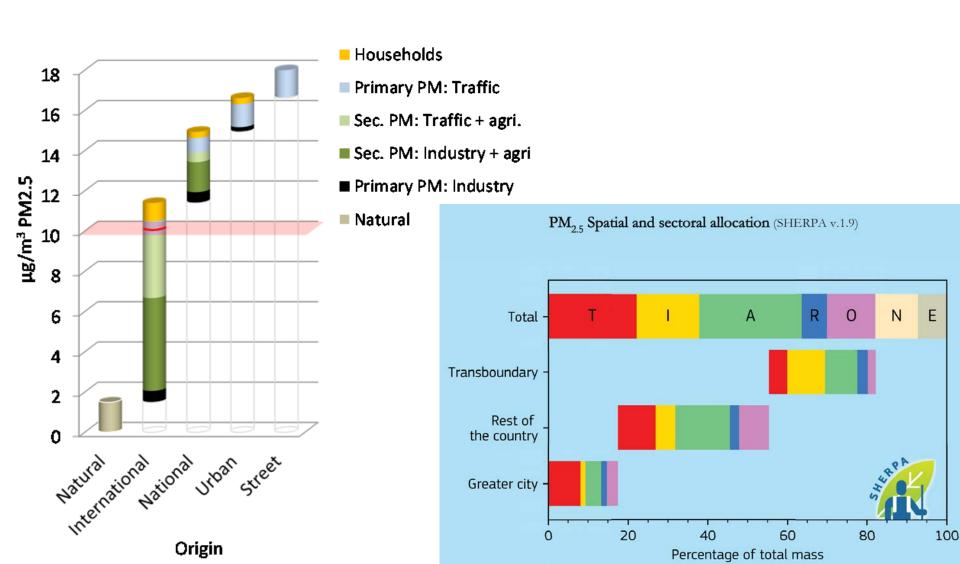
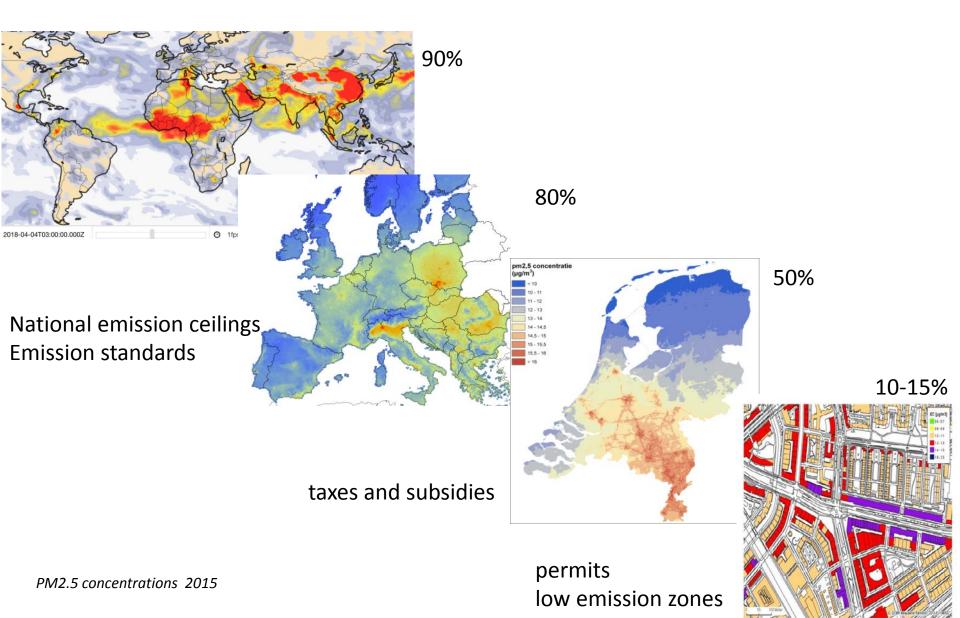
# **Expert Panel on Clean Air in Cities**

Introduction, Rob Maas, 24 April 2019

## **Expert Panel on Clean Air in Cities Multi-scale co-operation is needed**



#### Cleaner air requires cooperation across spatial scales

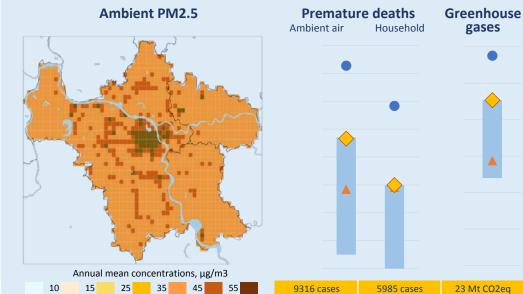


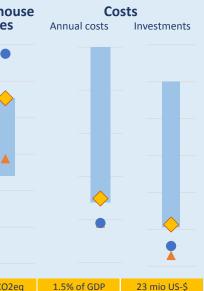
#### Expert Panel on Clean Air in Cities Key questions

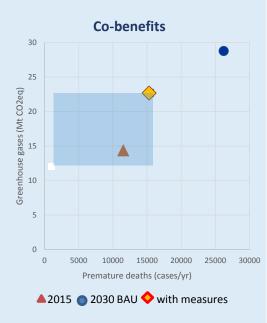
- Which actions at which government level are most effective to reduce the loss of life years?
- Can we say more about the cost-effectiveness on measures at different government levels?
- What knowledge should be improved for robust policy advice? (e.g. on emissions, dispersion, health impacts, co-benefits, efficient measures, multi-scale multi objective policy design, ...)











DRIVERS (rel to 2015)	Hanoi	Bac Ninh - H.	North Vietnam
Socio-economic drivers			
Population change (%/yr)	0.2%	0.5%	0.4%
Income growth (%/yr)	4.7%	4.7%	4.7%
Mobility demand			
Share two-wheelers	80%	82%	51%
Share diesel	15%	9%	46%
Industrial structure			▼



COST-EFFECTIVENESS		
ANA	LYSIS	
Determines the c	heapest measures	
for the follow	wing targets:	
Prem. deaths:		
GHG emissions:		
Start		

MEASURES	Hanoi	Bac Ninh - H.	North Vietnam
Power plants			
NOx controls	100%	100%	0%
SO2 and PM controls	100%	100%	0%
Coal to gas	0%	0%	0%
Industry			
Boilers - NOx controls	100%	100%	0%
Boilers - SO2 controls	100%	100%	0%
Cement industry - BAT	100%	100%	0%
Chemical industry - BAT	100%	100%	0%
Steel industry - BAT	100%	100%	0%
Other industry - BAT	100%	100%	0%
Households			▼
Agriculture			▼
Road transport			V
Non-road machinery			▼
Other sources			▼
©IIASA, Version enc.1, December 201			







DRIVERS (rel to 2015)	Hanoi	Bac Ninh - H.	North Vietnam
Socio-economic drivers			
Population change (%/yr)	0.2%	0.5%	0.4%
Income growth (%/yr)	4.7%	4.7%	4.7%
Mobility demand			
Share two-wheelers	80%	82%	51%
Share diesel	15%	9%	16%
Industrial structure			*
	Other NC region Bac Ninh, Hung Yen Hanoi	ANA Determines the conformation for the folloop Prem. deaths: GHG emissions:	tectiveNESS LYSIS heapest measures wing targets: 4000 cases 15 Mt CO2eq

MEASURES	Hanoi	Bac Ninh	- H. North Viet	nam
Power plants				•
Industry				•
Households				•
Agriculture				•
Agriculture				
Manure management	0%	0%	0%	
Urea application	0%	0%	0%	
Ban of agr. waste burning	100%	100%	100%	
Non-road machinery				•
Other sources				•

#### Expert Panel on Clean Air in Cities Mission

- EP-CAC will provide a science-policy arena for analysis of costeffective multi-scale air quality strategies in the UNECE region.
- EP-CAC will highlight the interactions between geographical scales, acknowledging that air quality on a local scale is affected by international policies whilst the impact of local policies is propagated to other cities, regions and countries.

• EP-CAC is **not** going review if local or national policies are cost-effective or sufficient, but will merely bring together people that are prepared to think and work on multi-scale linkages and exchange experiences.

#### Expert Panel on Clean Air in Cities Mandate

- 1. Advice the Working Group on Strategies and Review on science-based cost-effective policy strategies aimed at clean air and better health in cities, that include the linkages between geographical scales and relevant other policy objectives
- 2. Advice the joint EMEP-Steering Body and Working Group on Effects on research priorities, the improvement of data and models and the use of health damage indicators
- 3. Build upon the knowledge in existing Task Forces and external networks, such as FAIRMODE, EEA, Eurocities, HEAL, GAW and the Covenant of Mayors

### **Expert Panel on Clean Air in Cities Deliverables**

- 1. Prepare a **position paper** to raise awareness among national and local policy makers of the multi-scale interactions. To be followed by other relevant guidance documents
- 2. Organize annual workshops together with relevant networks
- 3. Ensure a **database** is maintained of available technical and nontechnical measures with an indication of their effectiveness and costs
- 4. Develop illustrative optimized **scenarios** for health improvement through clean air in cities
- 5. Actively disseminate knowledge to parties and international organizations via **presentations**, **documents** and advice