





Assessment of Atmospheric Pollution in the Asia-Pacific: Science-based Solutions

Key findings

Markus Amann

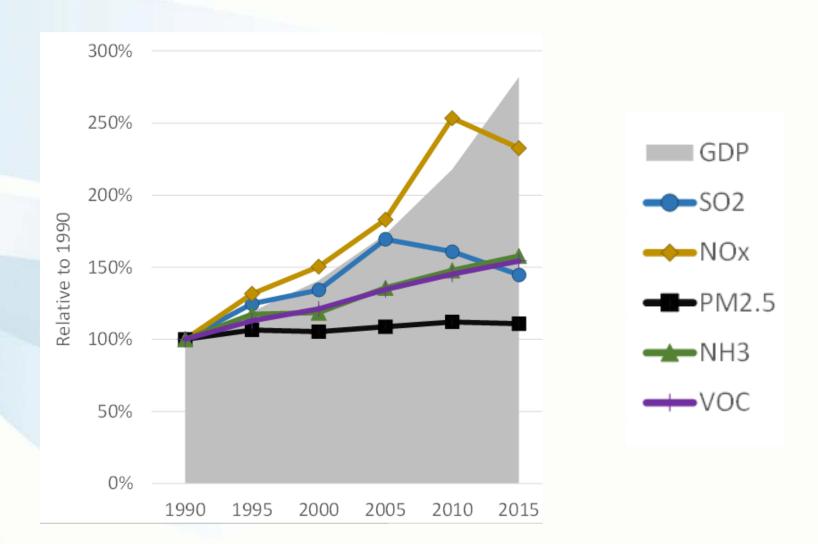
International Institute for Applied Systems Analysis (IIASA)

47th Session of the Task Force on Integrated Assessment Modelling, Brescia, May 8-9, 2018



IIASA, International Institute for Applied Systems Analysis

POLICY INTERVENTIONS HELPED TO BREAK THE HISTORIC LINKAGE BETWEEN ECONOMIC GROWTH AND EMISSIONS IN ASIA

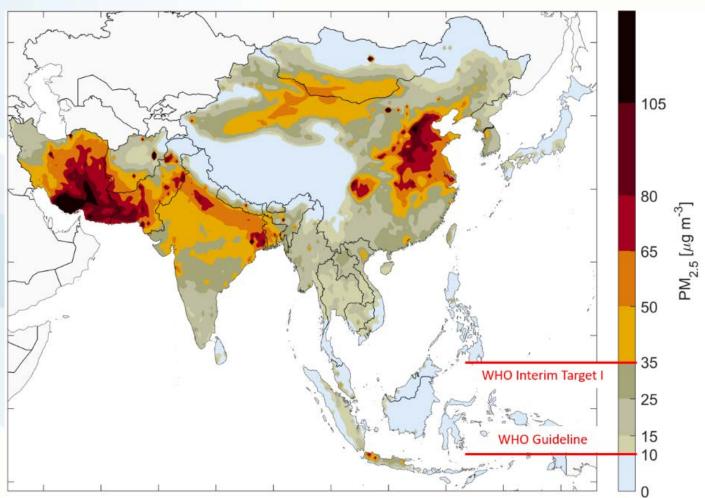




Source: IIASA, GAINS

IN 2015, AIR QUALITY STANDARDS WERE EXCEEDED OVER LARGE AREAS IN ASIA

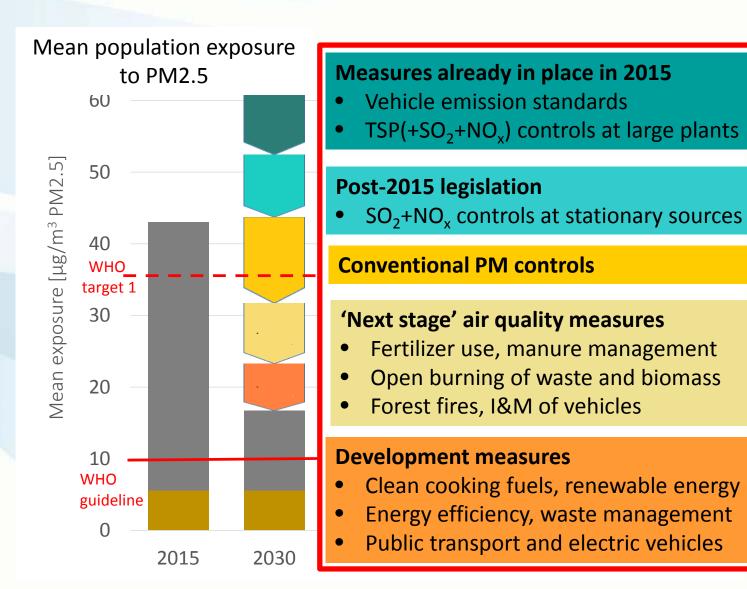






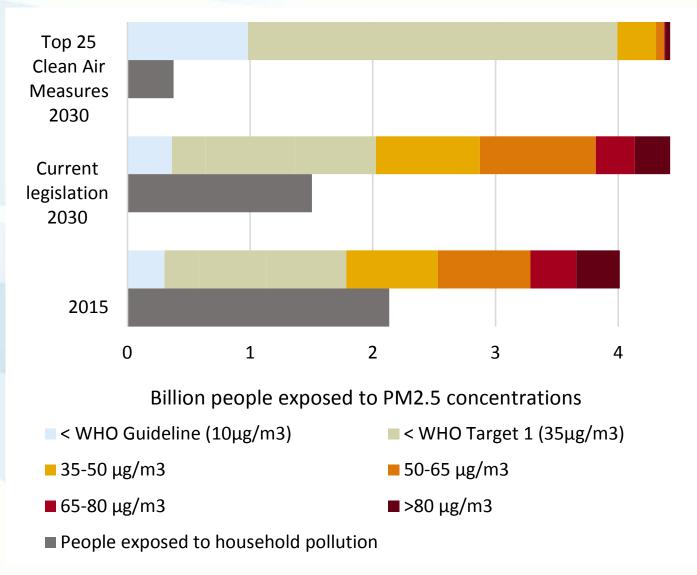
Source: IIASA, GAINS

FURTHER AIR QUALITY IMPROVEMENTS IN ASIA REQUIRE A RE-ORIENTATION OF CURRENT POLICIES





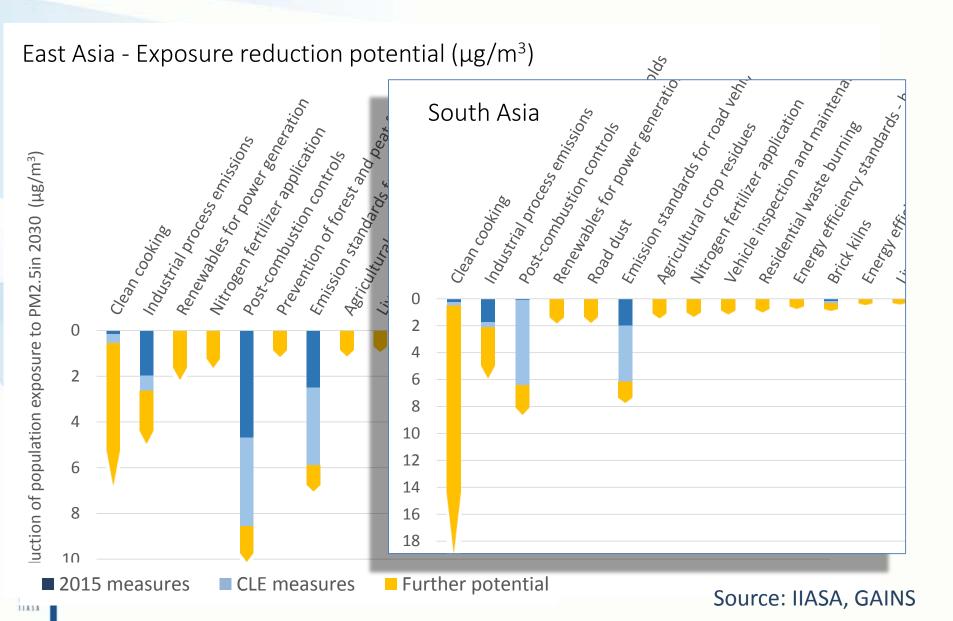
THESE MEASURES CAN PROVIDE CLEAN AIR TO ONE BILLION PEOPLE



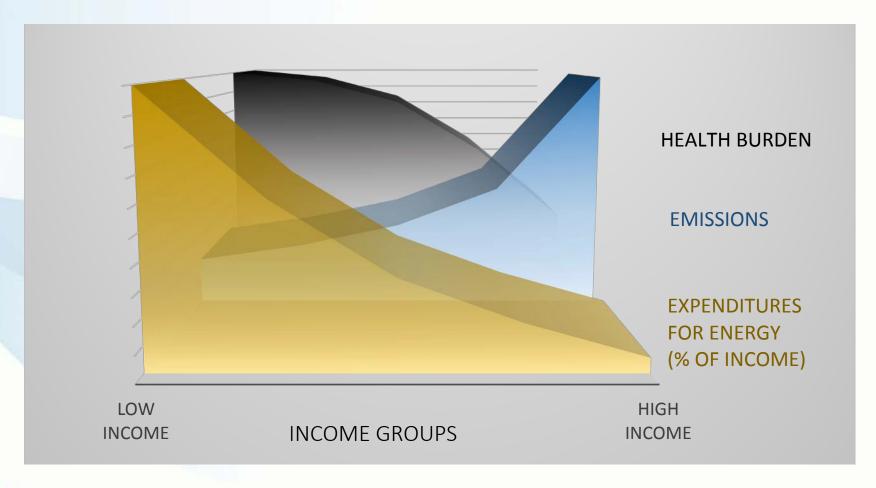


THE PRIORITY MEASURES DIFFER ACROSS REGIONS,

DUE TO DIFFERENCES IN ECONOMIC STRUCTURES AND GEO-PHYSICAL CONDITIONS



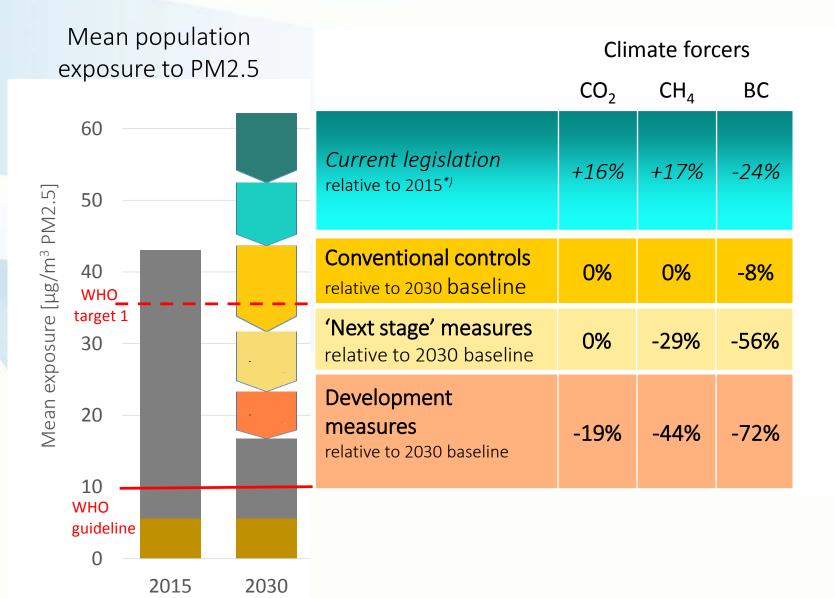
INEQUALITIES OF POLLUTION INDIA - 2010



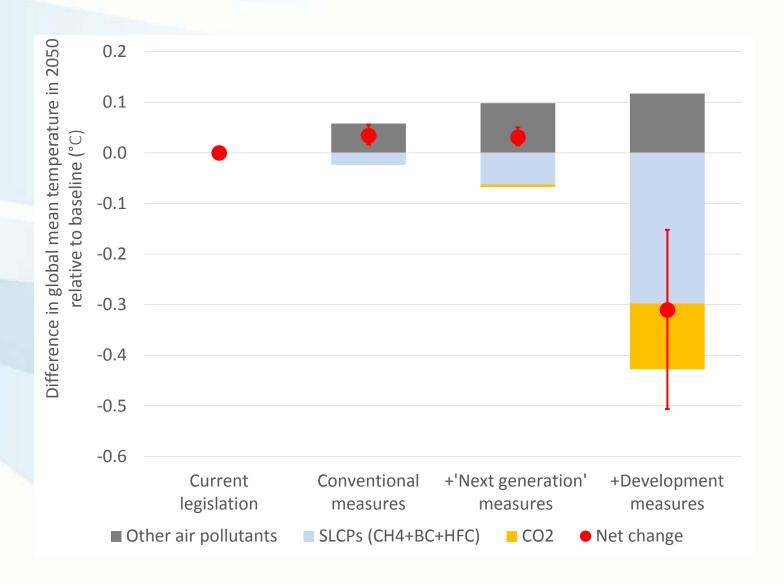


Source: Kiesewetter et al., 2018

THE TOP 25 CLEAN AIR MEASURES ALSO AFFECT CLIMATE FORCERS

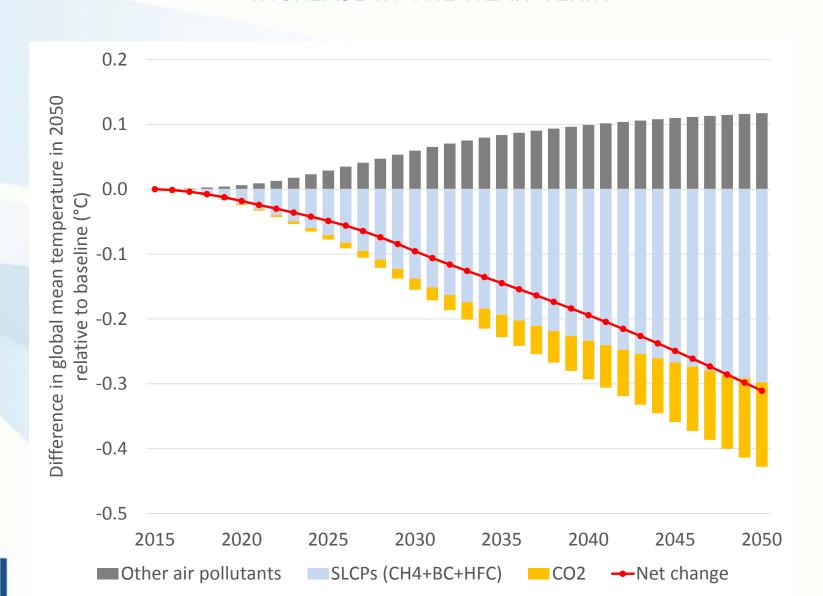


THE DEVELOPMENT MEASURES COULD REDUCE GLOBAL TEMPERATURE INCREASE BY ONE THIRD DEGREE



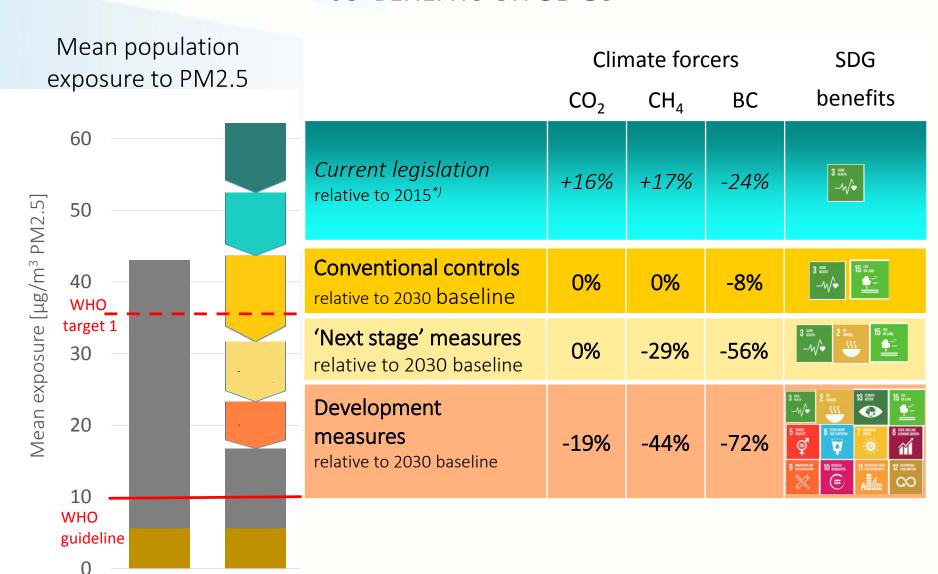


THE TOP 25 MEASURES COULD SLOW DOWN GLOBAL TEMPERATURE INCREASE IN THE NEAR-TERM





THE NEW POLICY MEASURES WOULD HAVE IMPORTANT CO-BENEFITS ON SDGs



Key messages

- While current policies limit a further increase of emissions in Asia,
 they will not be sufficient to significantly improve air quality.
- To move towards the Air Quality Standards, measures that involve other sectors (agriculture, energy, waste management, etc.) will be indispensable.
- The Top 25 Clean Air Measures will deliver a wide range of health- and other development benefits and reduce pollutants that influence temperature increase and climate.
- Integrated multi-approaches (such as in the LRTAP Convention)
 could embed air quality measures in the development agendas,
 and offer powerful incentives for measures that serve the global goods.

