

Putting Co-benefits into Action: From Theory to Practice in Asia's Cities

Eric Zusman
Better Air Quality Workshop
Kuching Malaysia
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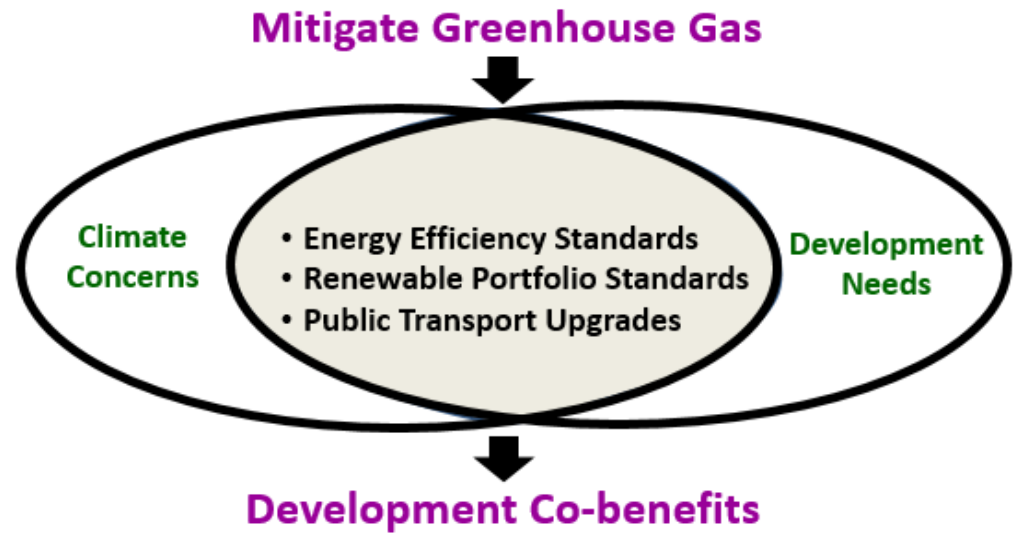


Eric Zusman
Research Director
zusman@iges.or.jp

IGES
Institute for Global
Environmental Strategies

Illustrating Co-benefits

Win-win strategy capturing both development and climate benefits in a single policy/measure.

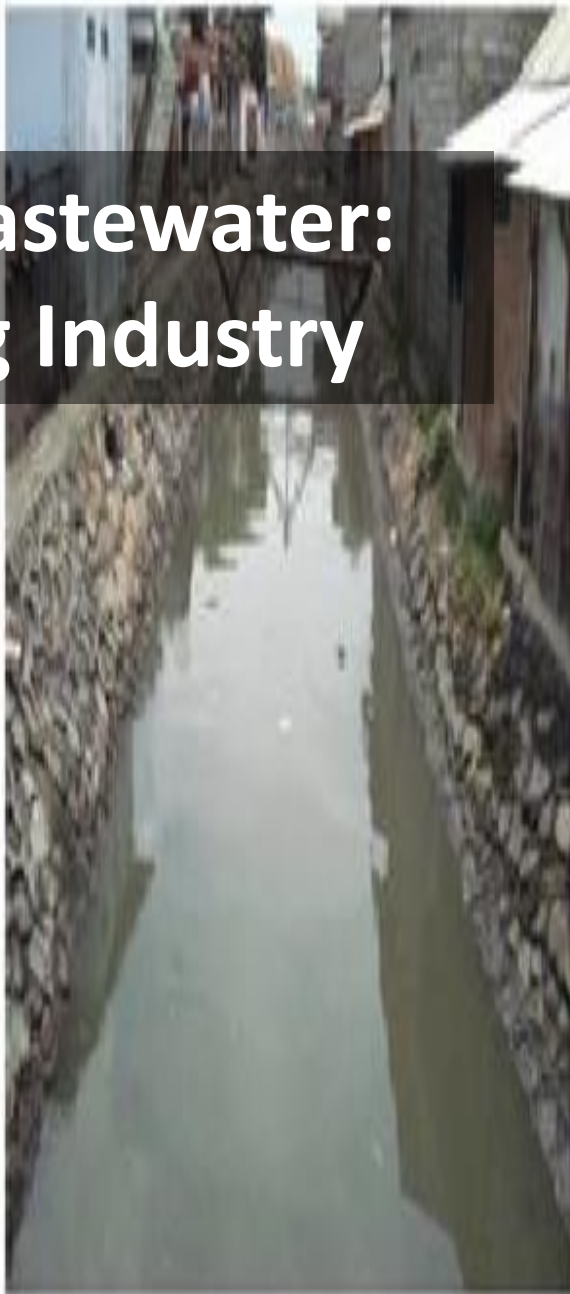


Economic	Environmental	Social
<ul style="list-style-type: none"> • Cleaner Technologies • Faster Commutes 	<ul style="list-style-type: none"> • Improved Air Quality • Reduced Waste 	<ul style="list-style-type: none"> • Greater Energy Access • Enhanced Mobility

Many countries in Asia have quantified co-benefits

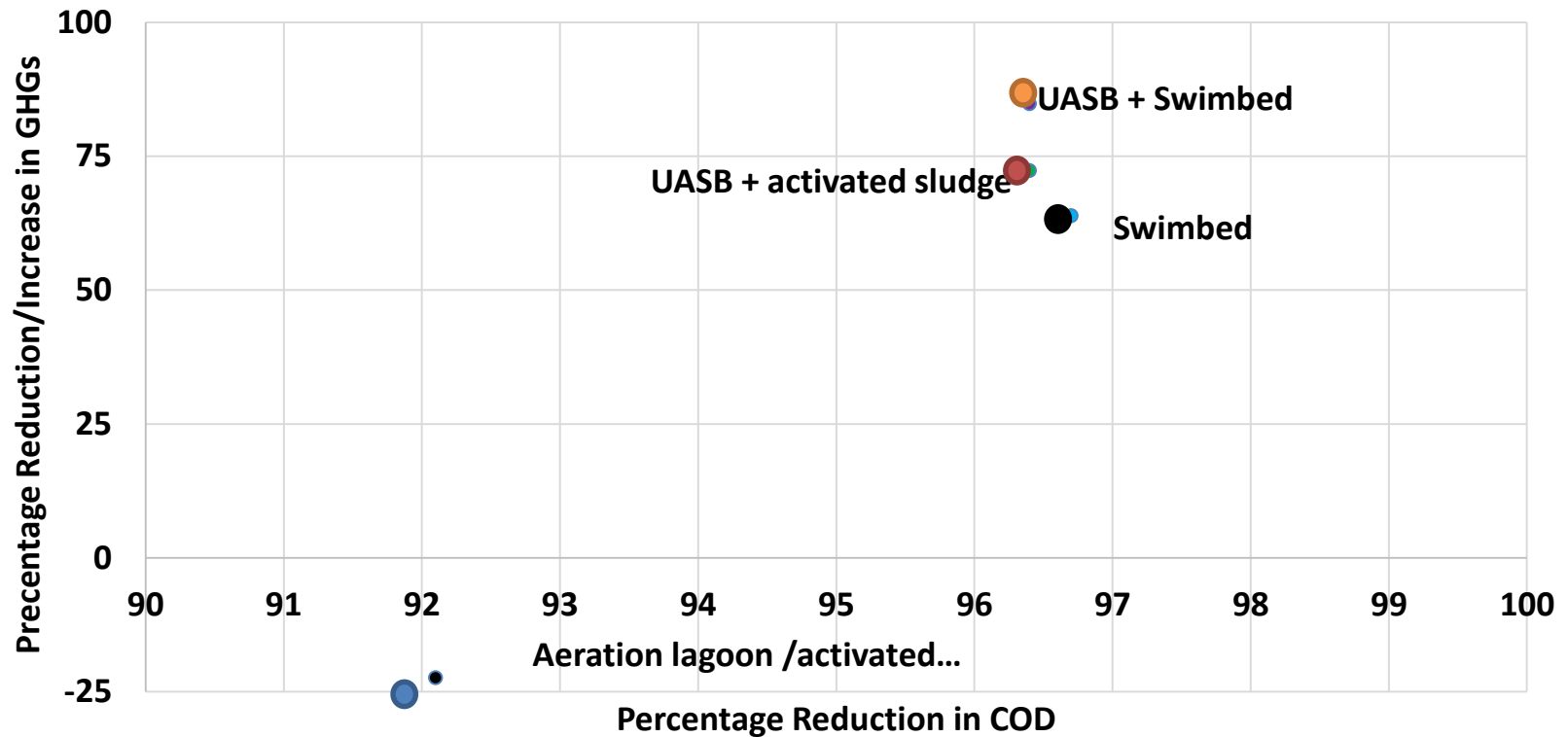
	China	India	Indonesia	Japan (support)
Priority/ Focus Areas	Air Pollution SO ₂ , NO _x , CO, PM (Electricity, Cement, Iron and steel, LPG) Traffic (PRCEE)	Clean coal technology, Thermal Efficiency (power plants)	Waste disposal sites, water treatment plants, Oil refineries (Industrial and domestic waste water treatment facilities, water quality improvement, slaughterhouse)	Uses Yen loans, grant aid, and technical cooperation to help developing countries to achieve sustainable development. Also uses CDM and JCM projects
Related Research	More than 10 years of research cooperation with USEPA, IIASA, and several national institutions (PRCEE, Beijing Normal Univ.)	More than five years of cooperation with USEPA and IIASA. Growing amount of work under TERI and urban emissions	More than five years cooperation with Japan	Verification of the effects of co-benefit on pollution policy and to evaluate the effects of co-benefits of various CDM technologies
Remarks	Domestic Co-benefit Projects are based on priority areas and multi-pollutant co-control; regional cooperation to promoting co-control.	Domestic Co-benefit Projects are based on identified priority areas	Domestic Co-benefit Projects are based on priority areas	There is a Co-benefit Quantitative Evaluation Manual

The Case of Wastewater: Fish Processing Industry

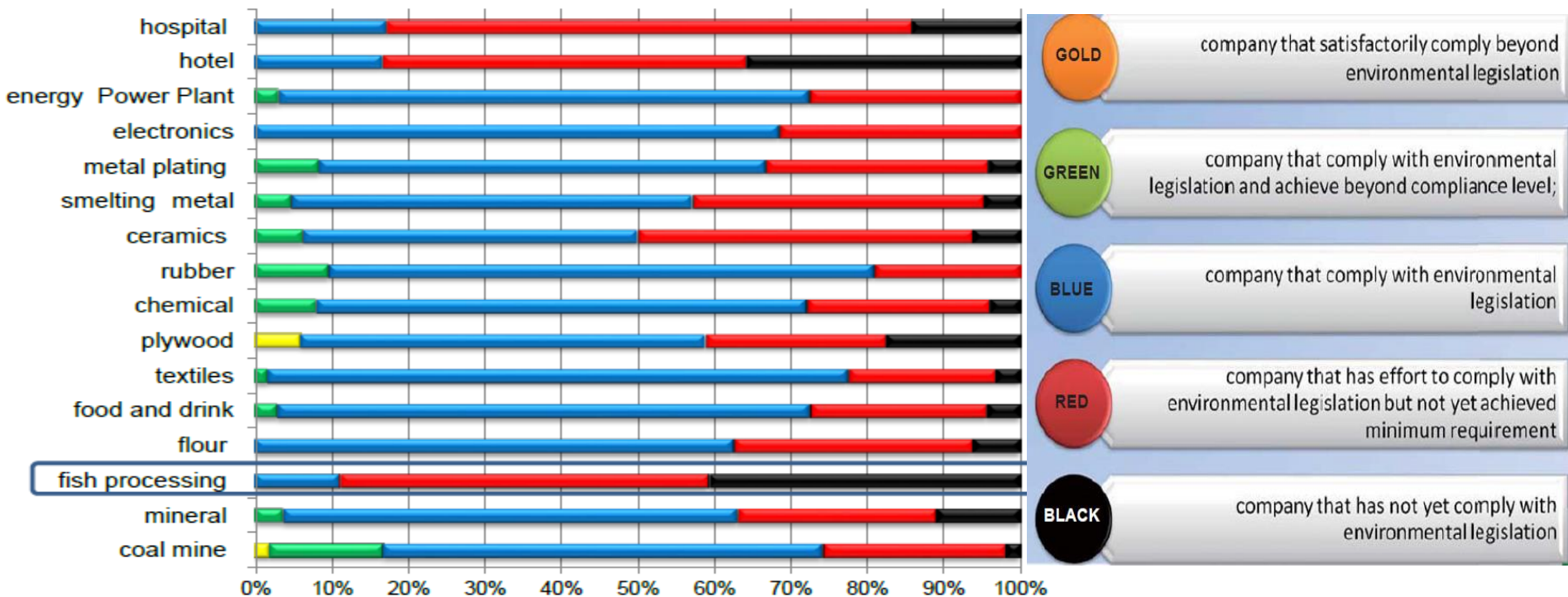


Source: Soedjono, 2011

Comparing Co-benefits of Wastewater Treatment Technologies



Fish processing industry scores very low on compliance indicator called PROPER



The Case of Semarang

GUNAKAN TRANSAKSI *Non Tunai*

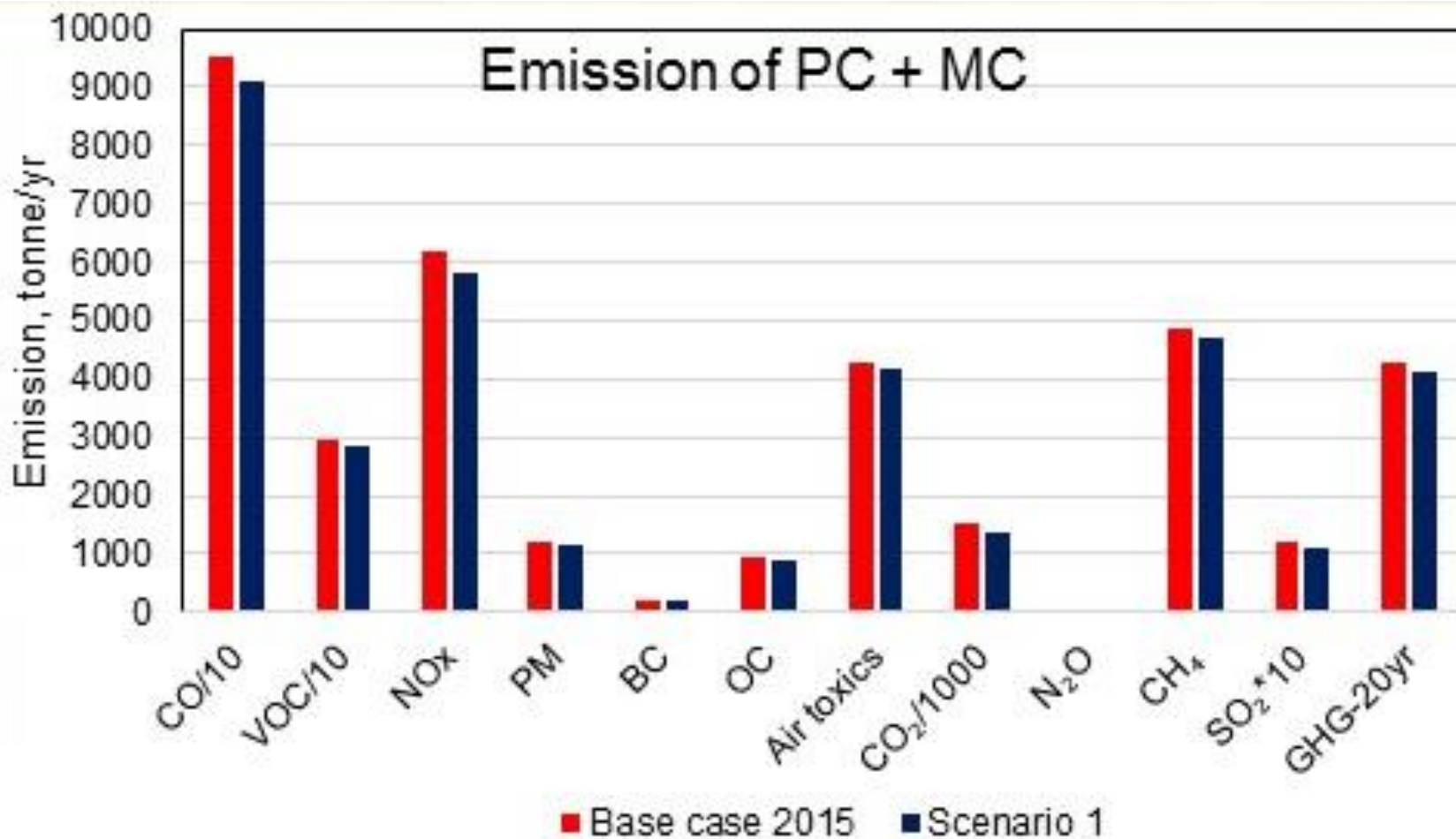
AYO
NAIK OVO
ISAH NGGAK
KESHA MACET

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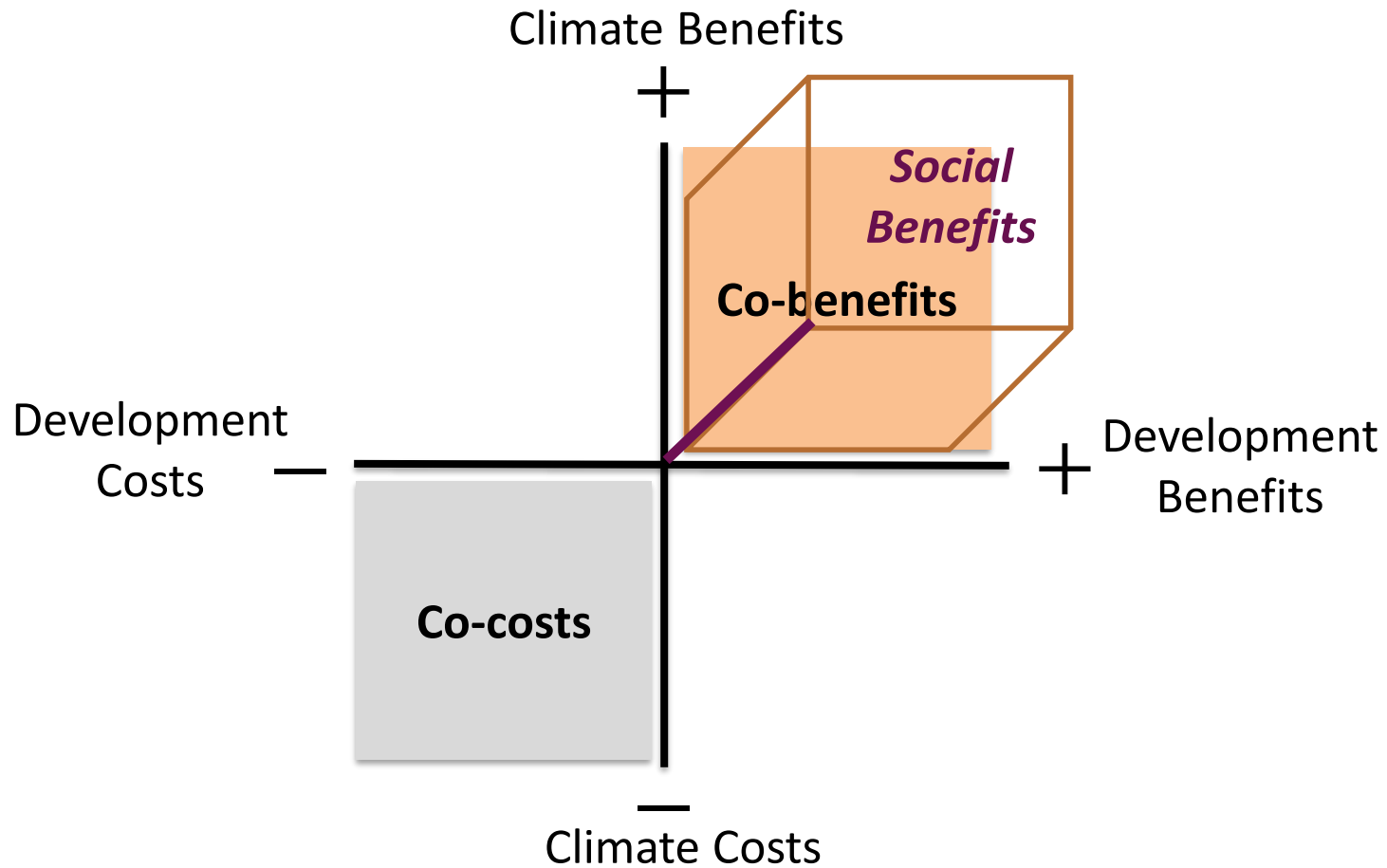
Co-Benefits in Semarang

3%-14% reduction in emissions



Expand our view of co-benefits...

Illustration of co-benefits in terms of costs and benefits



Awareness Raising Campaign for Junior High School Students in Semarang

