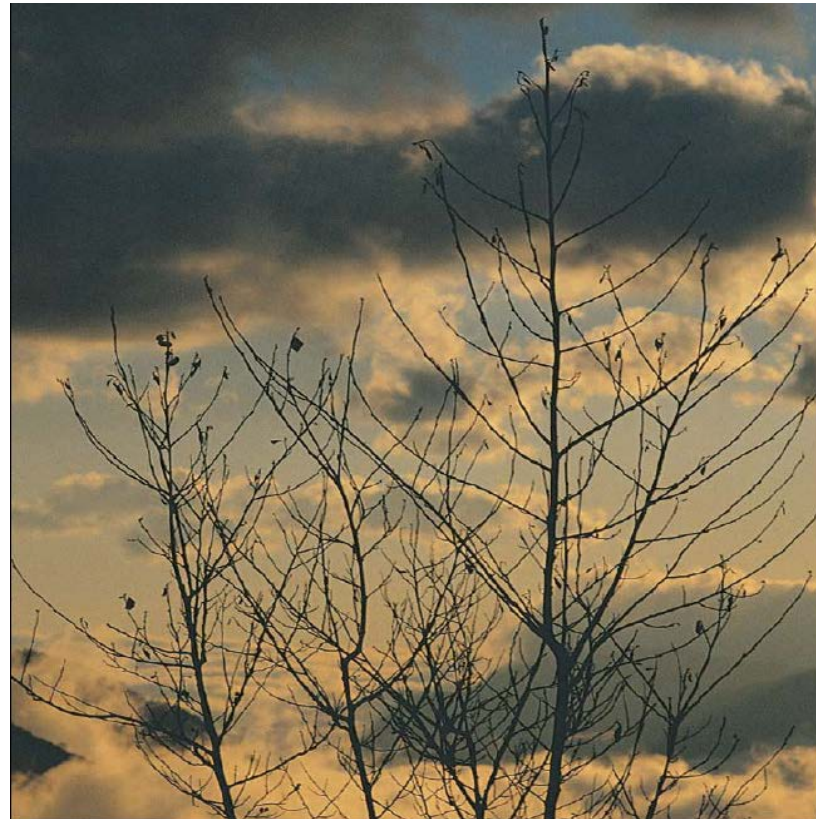


# TFIAM support of the AGP review

Online meeting - 20-24 April 2020

Stefan Åström

# Past experience, CIAM report 1/2007



## Review of the Gothenburg Protocol

Task Force on Integrated Assessment Modelling of the UNECE Convention  
on Long-range Transboundary Air Pollution and the  
Centre for Integrated Assessment Modelling



TFIAM Review of the Gothenburg Protocol

CIAM-report 1/2007

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# Potential TFIAM support to the review?

## Are the following questions relevant and possible to answer?

- What will emissions and environmental impacts be in 2030 and beyond following a full implementation of the Amended Gothenburg Protocol?
  - How far away will we be from environmental targets?
  - How large socio-economic costs of inaction will the UNECE suffer?
- What is the potential for further emission reductions in 2030?
  - Alignment with a 'OC/BC-optimal' control strategy? (assuming OC = condensables)
  - What if EECCA were to sign up to the technical annexes (ELVs)?
- What does the Gothenburg protocol pay insufficient attention to?
  - Biodiversity? Short-lived climate forcers? Shipping? Ozone precursors outside European UNECE?
- Which are the low-hanging fruits for emission control?
  - Agriculture NH<sub>3</sub> control?
- What is the socio-economically efficient emission levels in the European UNECE region in 2030?

# TFIAM member contribution to the TFIAM 2020-2021 workplan?

- 1.1.1.2 Condensables,
- 1.1.3.1 Review of the Amended Gothenburg Protocol,
- 1.1.3.2 Regional scales: local-regional & regional-global,
- 1.1.3.3 Ammonia report,
- 1.1.4.1 EPCAC road map,
- 1.1.4.4 Global scenarios & mitigation measures,
- 2.1.3 Control strategies to be used by TFHTAP,
- 2.1.6 Review of control costs in GAINS,
- 2.1.7 Costs of inaction,
- 2.2.1 PM-measures of importance for BC

# TFIAM member contribution to the TFIAM 2020-2021 workplan?

WP item	Activity	TFIAM participants with ongoing activities related to item?
1.1.1.2	Harmonize PM inventory emissions and modelling, <b>accounting for condensables</b>	Lead: MSC-W
1.1.3.1	<b>IAM-Framework for the review</b> of the amended Gothenburg Protocol (AGP),  <b>Assessment of</b> extent to which <b>long-term targets</b> will be met (in 2020–2030–2050)	Lead: TFIAM & CIAM

# TFIAM member contribution to the TFIAM 2020-2021 workplan?

WP item	Activity	TFIAM participants with ongoing activities related to item?
1.1.3.2	<p><b>Assessing observed trends</b> in air pollution at the various scales</p> <p>Follow-up on the measurement (twin-sites) and modelling approaches to <b>assess the long-range contribution to urban air pollution.</b></p> <p><b>Linkages between global and regional air pollution</b></p>	Lead: TFMM

# TFIAM member contribution to the TFIAM 2020-2021 workplan?

WP item	Activity	TFIAM participants with ongoing activities related to item?
1.1.3.3	Ammonia: Contribute to <b>improve understanding of expected benefit of ammonia mitigation</b>	Lead: TFIAM
1.1.4.1	<b>EPCAC road map</b>	Lead: TFIAM
1.1.4.4	Investigations on <b>global scenarios and assessment of global sectoral mitigation measures</b>	Lead: TFIAM & TFHTAP

# TFIAM member contribution to the TFIAM 2020-2021 workplan?

WP item	Activity	TFIAM participants with ongoing activities related to item?
2.1.3	<b>Discuss control strategies</b> to recommend for use by the <b>TFHTAP</b> of air pollution in future scenarios	Lead: WGSR (TFIAM & TFHTAP)
2.1.6	Undertake a <b>review of the control costs currently used</b> with a view to improving –on an ongoing basis –the cost-effectiveness analyses produced by the GAINS model	Lead: TFTEI & TFIAM



# TFIAM member contribution to the TFIAM 2020-2021 workplan?

WP item	Activity	TFIAM participants with ongoing activities related to item?
2.1.7	Produce a report for policymakers that clearly sets out the costs of controls versus the costs of inaction	Lead: TFTEI & TFIAM IVL & RIVM (funding provided by Norway)
2.2.1	Development of <b>guidance in relation to prioritizing reductions of particulate matter</b> from sources that are also significant sources of <b>black carbon</b>	Lead: TFTEI & TFIAM IVL (funding provided by EUABCA, hopefully also IIASA)