



**UNECE**

**wge**

Working Group on Effects of the  
Convention on Long-range  
Transboundary Air Pollution

# Introduction to the WGE Scientific Strategy update with respect to the Long-Term Strategy (LTS) for the Convention – ICP M&M topics

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ICP Modelling & Mapping Meeting

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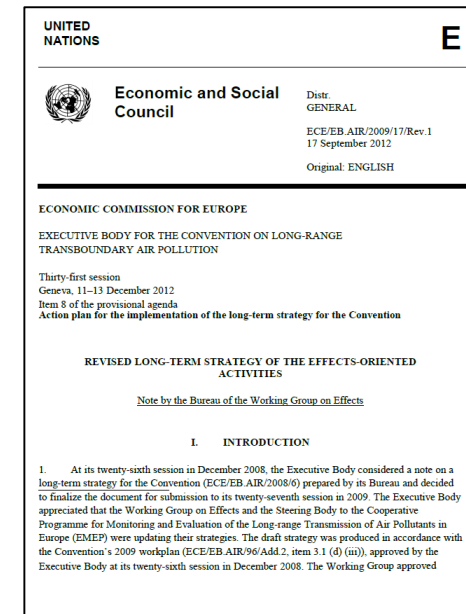
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# Long-Term Strategy of effects-oriented activities 2010–2020 (1/3)

## General background and content

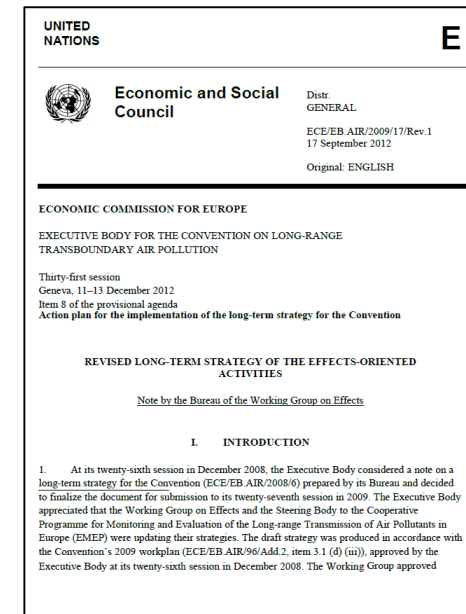
- » ECE/EB.AIR/2009/17/Rev.1
- » [http://www.unece.org/fileadmin/DAM/env/documents/2013/air/wge/Informal\\_document\\_no\\_18\\_Revised\\_Long-term\\_Strategy\\_of\\_the\\_effects-oriented\\_activities\\_clean\\_text.pdf](http://www.unece.org/fileadmin/DAM/env/documents/2013/air/wge/Informal_document_no_18_Revised_Long-term_Strategy_of_the_effects-oriented_activities_clean_text.pdf)
- » Was adopted in 2009
- » Valid 2010-2020
- » Science based policy development, strength of the convention
- » New issues determined at that time:
  - Interaction with climate change, biodiversity, land-use change
  - Reach out to EECCA and SEE and on a hemispheric or even global scale
- » **EMEP/WGE 2020 Objective : to review and join scientific strategies based on the revised 2018 LTS of convention**



## General content

» Distinguishes the following sections:

1. Introduction
2. Objectives
3. Long-term priorities
4. Methods → reference to the Guidelines on the monitoring and modelling of air pollution effects
5. Organization → reference to cooperation, including JEG
6. Summary & vision



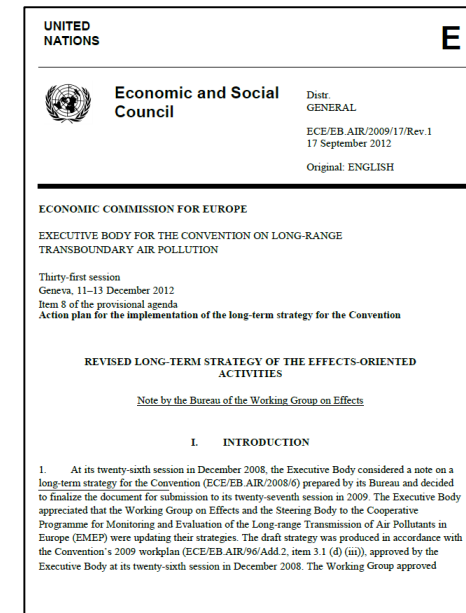
## ICP Modelling & Mapping relevant content

» Focus on :

- Nutrient nitrogen and acidifying air pollutants
- Biodiversity, climate change, land-use change

» Objectives and Long-Term Priorities : assessment, development and provision of:

- Quantitative policy-relevant information on user-friendly indicators
- Status, trends, dynamics of risks, damage and recovery
- Dose-response relationships for chemical and biological effects, and associated Critical loads, levels and limits and effects on ecosystems' functioning and biodiversity
- Modelling & mapping procedures including robustness assessments and validation of models





# Scientific work with contribution of ICP M&M

In compliance with the LT Strategy of effect oriented activities (2012)

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About CCE | Data & Models | **Publications** | NFC | Activities

**Manual for Modelling and Mapping Critical Loads & Levels**  
The manual describes methods for calculating critical loads and levels as well as for dynamic modelling to be used by National Focal Centres (NFCs) of the

**CCE Status Reports**  
The yearly CCE Status Reports focus mainly on modelling and mapping the impacts of atmospheric deposition of Nitrogen and Sulphur and the progress in dynamic modelling. Reports until 2017 have been published by the Dutch National Institute for Public Health (RIVM), where the CCE was located from 1990 until 2017. [read more](#)

★ 42

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**Critical Loads and Dynamic Risk Assessments**  
Environmental Pollution 25  
Wim de Vries  
Jean-Paul Hettelingh  
Maximilian Posch  
Editors  
Nitrogen, Acidity and Metals in Terrestrial and Aquatic Ecosystems  
Springer

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## Questions for discussion with NFC

- » What are the main scientific tasks for ICP M&M in the next 10 years and beyond ?
- » What are our main realistic objectives (continuation and changes) ?
- » What are our most successful methods and tools ?
- » Important (new?) partners for cooperation and in WGE, in the CLRTAP and beyond ?
- » How do we communicate our results, challenges and policy-relevant information?
- » Any other issues beyond current priorities ? (e.g. lack of data regarding non-forests ecosystems which are of high importance for monitoring and modelling the air pollution impact on biodiversity)