

In depth review of inventories

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Objectives of a "Stage 3" review

TNO | Knowledge for business



Outline

- Why stage 3 review?
- Mandate and composition of ERT
- Resources
- LRTAP vs UNFCCC in depth reviews

Data quality objective in UNFCCC Reporting Guidelines

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B. Purposes of the technical review of greenhouse gas inventories

2. The purpose of the technical review of Annex I Parties' GHG inventories is:

(a) To ensure that the Conference of the Parties (COP) has adequate and reliable information on annual inventories and emission trends of anthropogenic emissions by sources and removals by sinks of greenhouse gases not controlled by the Montreal Protocol;

(b) To provide the COP with an objective, consistent, transparent, thorough and comprehensive technical assessment of the annual quantitative and qualitative inventory information submitted by Annex I Parties, and a technical assessment of the implementation of Annex I Parties' commitments under Article 4, paragraph 1 (a), and Article 12, paragraph 1 (a), of the Convention;

(c) To examine, in a facilitative manner, the consistency of the information for the preparation of national communications by Annex I Parties with the "Guidelines for the preparation of national communications by Annex I Parties" included in Annex I to the Convention, the "Guidelines for National Greenhouse Gas Inventories"¹ and the *Revised 1996 (IPCC) Guidelines for National Greenhouse Gas Inventories* as elaborated by the IPCC report entitled *Good Practice Guidance and Management in National Greenhouse Gas Inventories*,³

(d) To assist Annex I Parties in improving the quality of their GHG inventories.

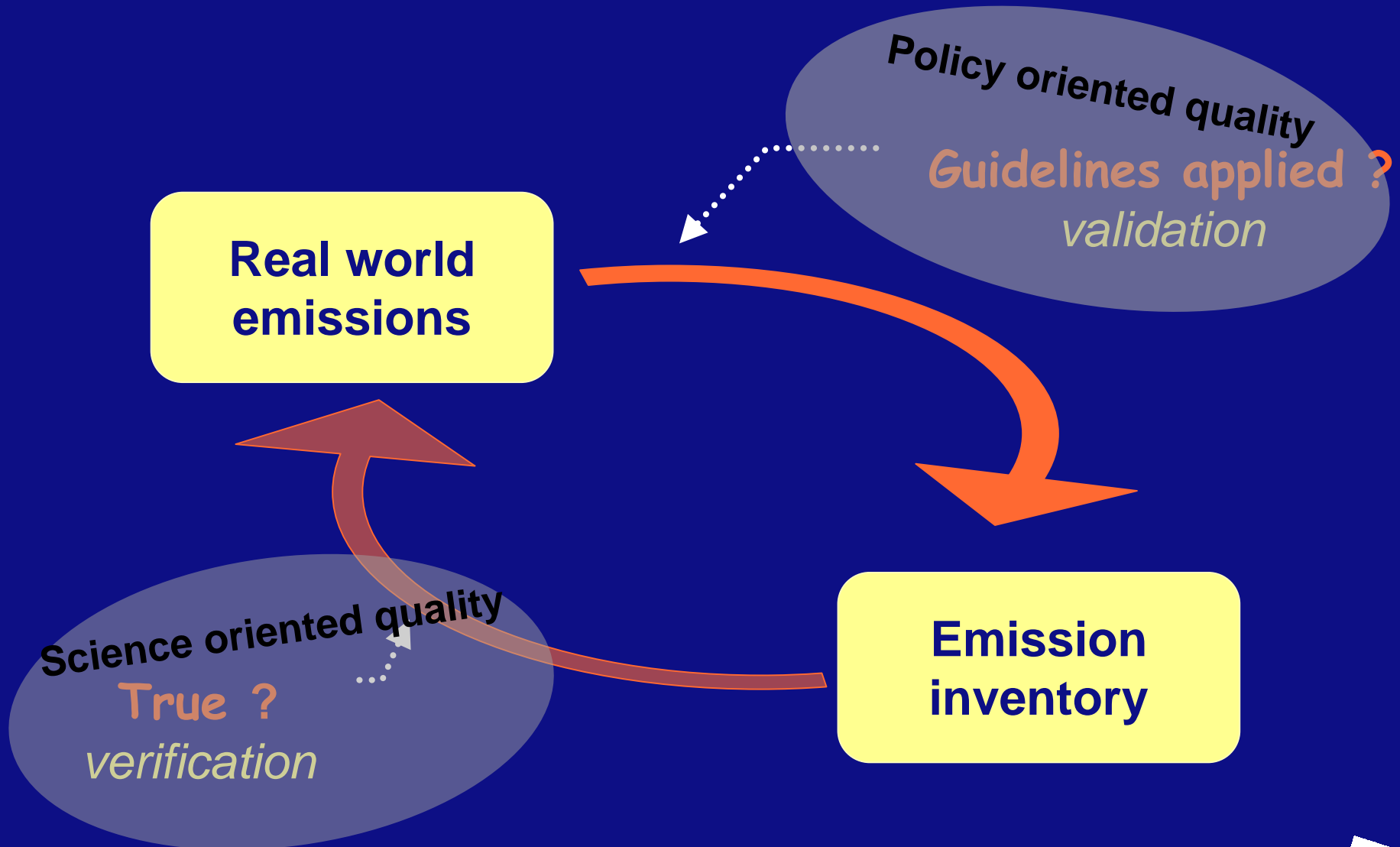
- Ensure adequate information

- Provide objective technical assessment

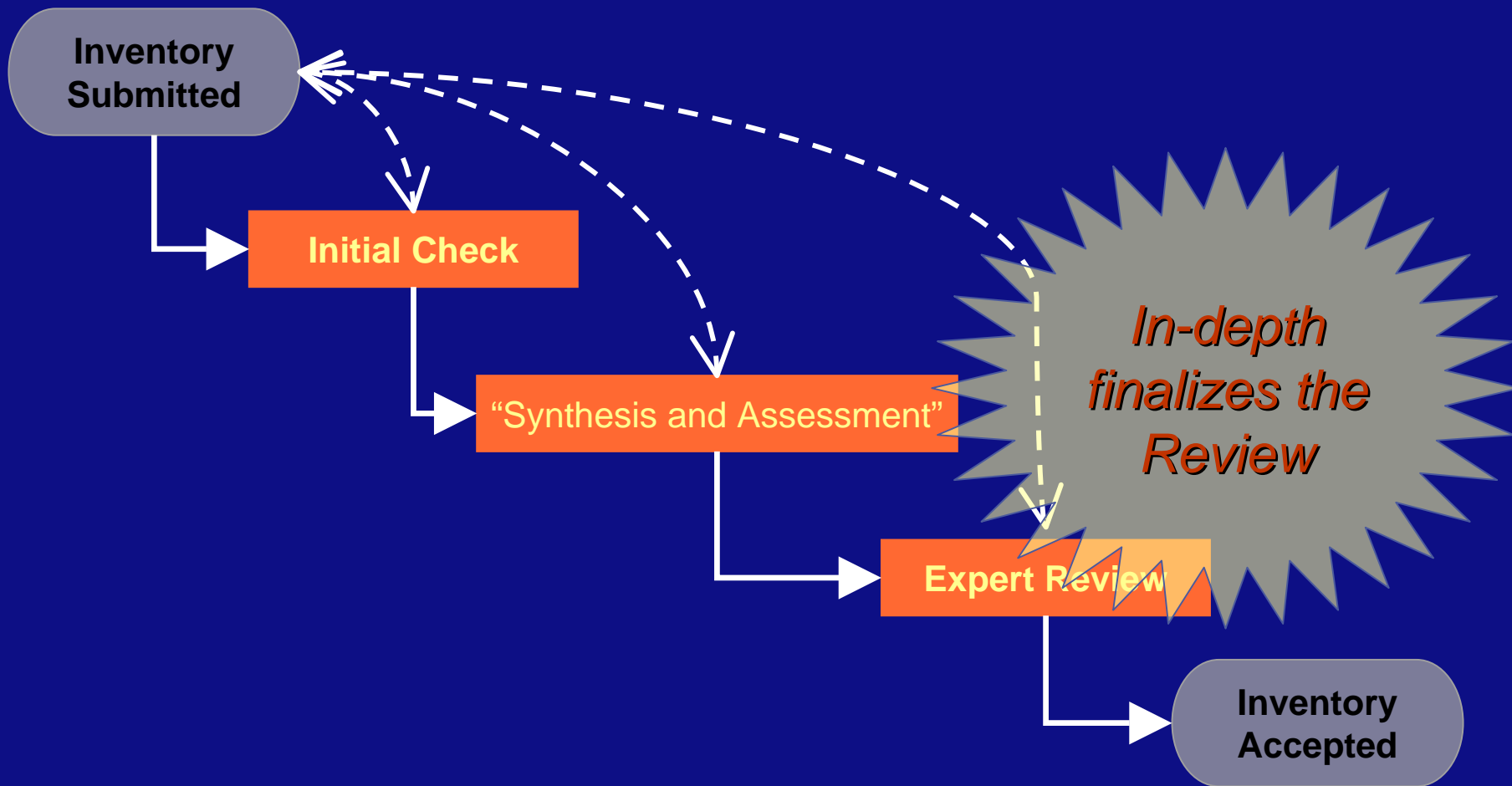
- Examine inventories reported

- Improve parties' inventories

Verification and Validation



Policy oriented inventory: Quality check by UNFCCC



Three stages of review

	Type of review	Objective of review
Stage 1	Initial check	Completeness: <ul style="list-style-type: none">• All data provided? (Counts, gaps)
Stage 2	Comparisons and consistencies	Compare with <ul style="list-style-type: none">• Earlier submissions (time series, jumps)• Other parties
Stage 3	Explanations and understanding	<ul style="list-style-type: none">• Discuss and solve any problems between review process and national experts• Ensure that the inventory is adequate and complies with the Guidelines• Report to implementation committee

Data quality objective in 'LRTAP Reporting Guidelines

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5. Data quality

31. Taking into account the EMEP/CORINAIR Guidebook, Parties should validate and verify their data to ensure data quality. Parties are also encouraged to report on any peer review of their emission data. Once received, the Meteorological Synthesizing Centre-West (MSC-W) of EMEP will check data for consistency and if necessary request Parties to provide further explanations to their emission data reports. The Implementation Committee, in accordance with its functions (Executive Body decision 1997/2, annex, para. 3 (c)), will seek, where it deems it necessary, assurance from MSC-W, the Task Force on Emission Data Quality and the Task Force on Emission Data Quality, nominated by the Bureau of the Executive Body, that quality has been evaluated.

The Implementation Committee only
requires that quality has been evaluated
there is no reference to the outcome of
such evaluation !!!

Expert Review Team

- Independent:
 - Report to bureau of the executive body
 - Independent experts recognized by parties
- Representative
 - Balance (less important for LRTAP)
 - Nominated by parties
 - Selected by Bureau ?
- Clear mandate
 - Clear reference: Reporting guidelines!
 - Adjustments?



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Guidebook

Resources LRTAP stage 3 review

Depend on

- Guidelines
- Review organisation
 - Quality of “initial check” & “synthesis and Assessment”
 - Organisation of review
 - Desk reviews
 - Centralized reviews
 - In country reviews
 - Availability of Inventory Report
 - Connect to or re-use available reviews (UNFCCC)
- Party organisation
 - Availability of party experts to respond to ERT questions/remarks
 - Good Practice implementation and QA/QC

Costs: Estimate of resource needs
(workdays per party)

Review type	ERT	Party
Desk	10	3
Centralized	20	6
In country	30	12

Benefits of the Review system

- The Convention
 - The review ensures acceptance by the parties to the convention
 - The convention has tools to enforce compliance
- The reviewers
 - See the problems of other parties
 - Identify possible solutions other parties might have found
- The party
 - Inventory improvement (conformity with guidelines)
 - Help prioritising and planning
 - Feedback on its assumptions and methodological choices
 - Training of the party's inventory experts

Scientific improvement ????

Differences between UNFCCC and LRTAP conventions

Greenhouse gases	Air pollutants
<ul style="list-style-type: none">• Limited problems with abatement	<ul style="list-style-type: none">• numerous technological and other controls complicates time-series analysis
<ul style="list-style-type: none">• Relatively stable reporting format	<ul style="list-style-type: none">• regular revision of the reporting format in the past
<ul style="list-style-type: none">• Targets set as relative decrease	<ul style="list-style-type: none">• Targets set as absolute levels
<ul style="list-style-type: none">• Limited number of gases	<ul style="list-style-type: none">• Long list of pollutants
<ul style="list-style-type: none">• Limited number of sector / gas combination	<ul style="list-style-type: none">• extensive variety of possible changes in emission factors and combination of pollutants / sources / technologies

Conclusions

- Stage III review
 - Is the final step in a mature review process
 - Must be explicitly arranged in the guidance / guidelines
 - Mandate
 - Recognized authority / expertise
 - Needs some kind of stick / carrot
- Stage III is an intensive and costly process
- Both reviewers and reviewee's learn a lot from it

Thank you

