



FAIRMODE

Latest updates

P. Thunis (JRC)



FAIRMODE is a Forum for **Air Quality Modeling** chaired by the JRC created for **exchanging experience** and results from air quality modeling in the context of the Air Quality Directive (AQD) and for promoting the use of modeling for regulatory purposes in a **harmonized** manner between Member States.

Main Applications fro modelling with regard to the Air Quality Directive

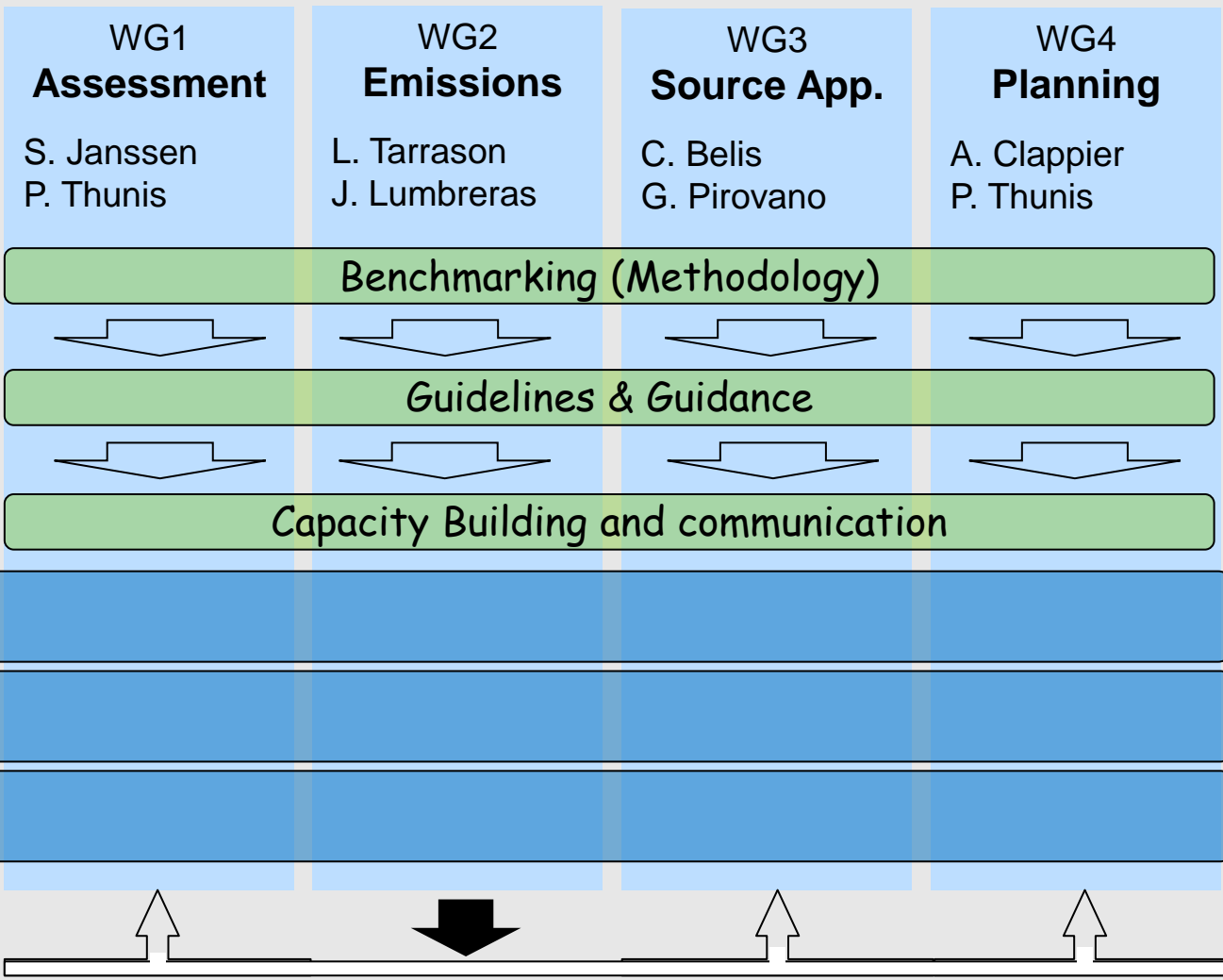
- I. Assessment of air quality levels
- II. Forecasting air quality levels for short term mitigation
- III. Source allocation to determine of the origin of exceedances
 - I. Assessment of plans and measures to control AQ exceedances

Fairmode organisational Structure



European
Commission

Steering Group [JRC, DG ENV, EEA, WG leaders]

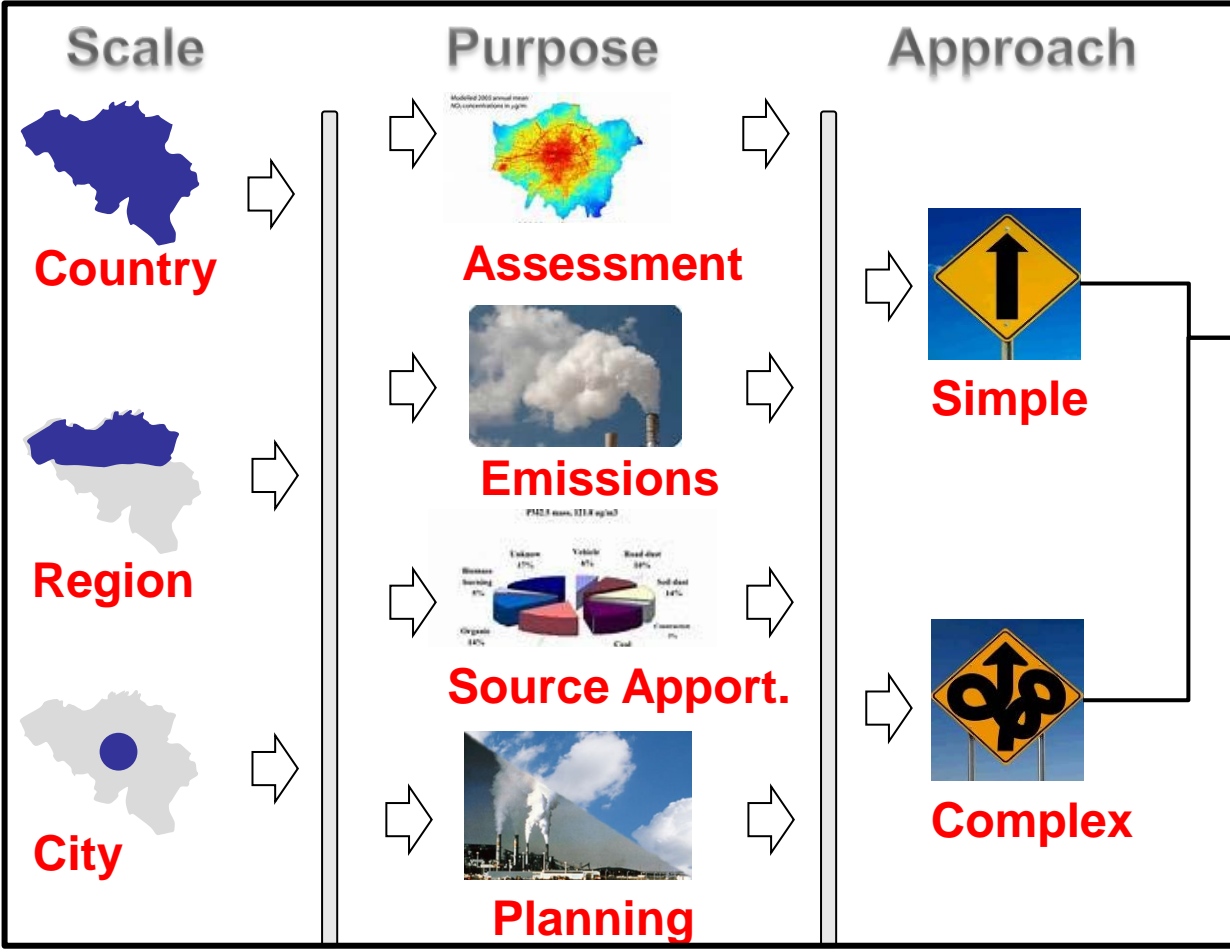


WGs Shared approach



Modelling

European Commission



BENCHMARKING

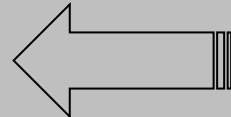
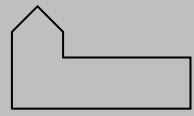
COMMON

- Evaluation Methodology
- Evaluation Tools
- Datasets
- Protocols

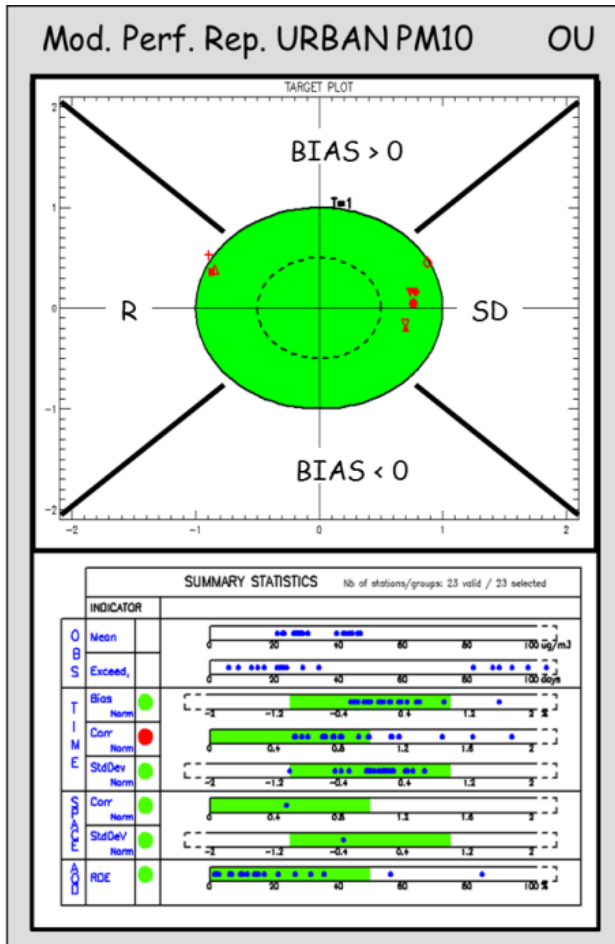
Strengths & weaknesses
 Best practices
 Improvements

GUIDANCE

CAPACITY BUILDING



WG1: Assessment



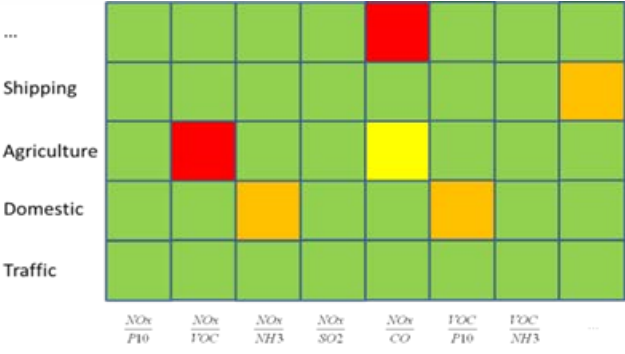
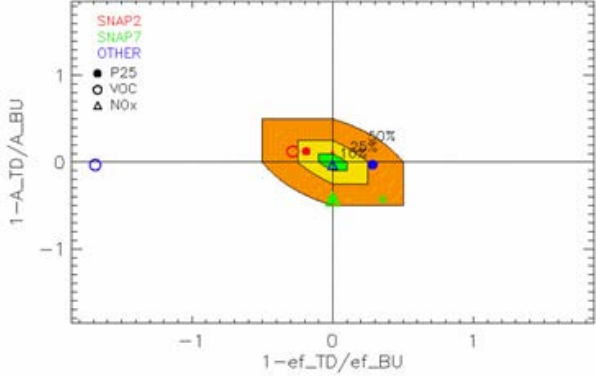
- Observation uncertainty-based MQO →
 - possible CEN standardization process
 - Extension to other species
- Contribution to e-reporting
- DELTA applications: Centralized repository
- Further development of DELTA

WG2: Emissions



European Commission

Emission Benchmark



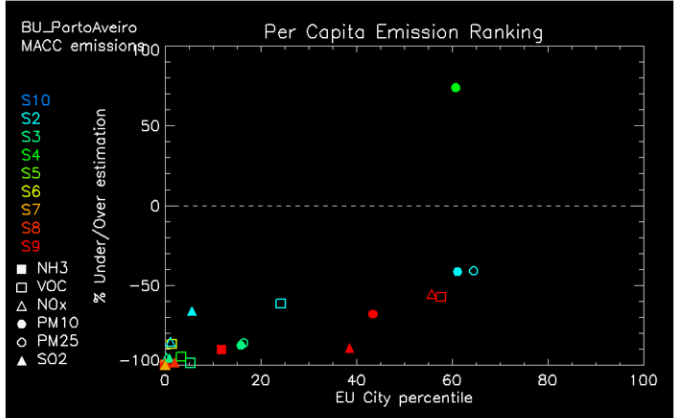
- Focus on the compilation of emission data (review)

- Urban
- Mobile sources
- Methodologies (processes)

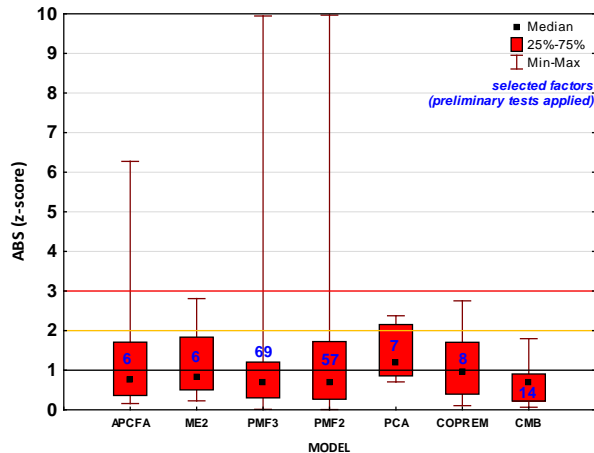
- Benchmarking: Comparability and consistency issues

- Future: accuracy (link to Src. App.)

- Benchmarking: WGs on development and testing



WG3: Source apportionment

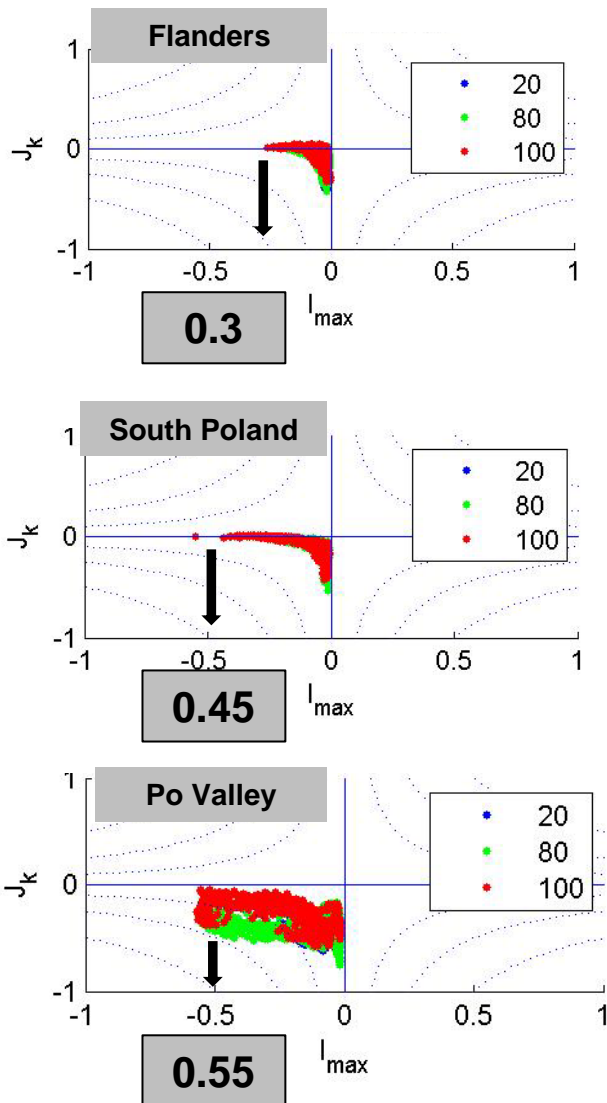


1. Inter-comparison for receptor-oriented and source-oriented models in collaboration with EURODELTA

2. Development of indicators and evaluation methodology

1. Development of website with repository for European source profiles

1. Capacity building initiatives



Benchmarking (towards a common and simple methodology)

- ❖ What is the potential for local action?
- ❖ Which are the key emission precursors?
- ❖ Which are the key activity sector?
- ❖ How robust/non-linear is the modeled response

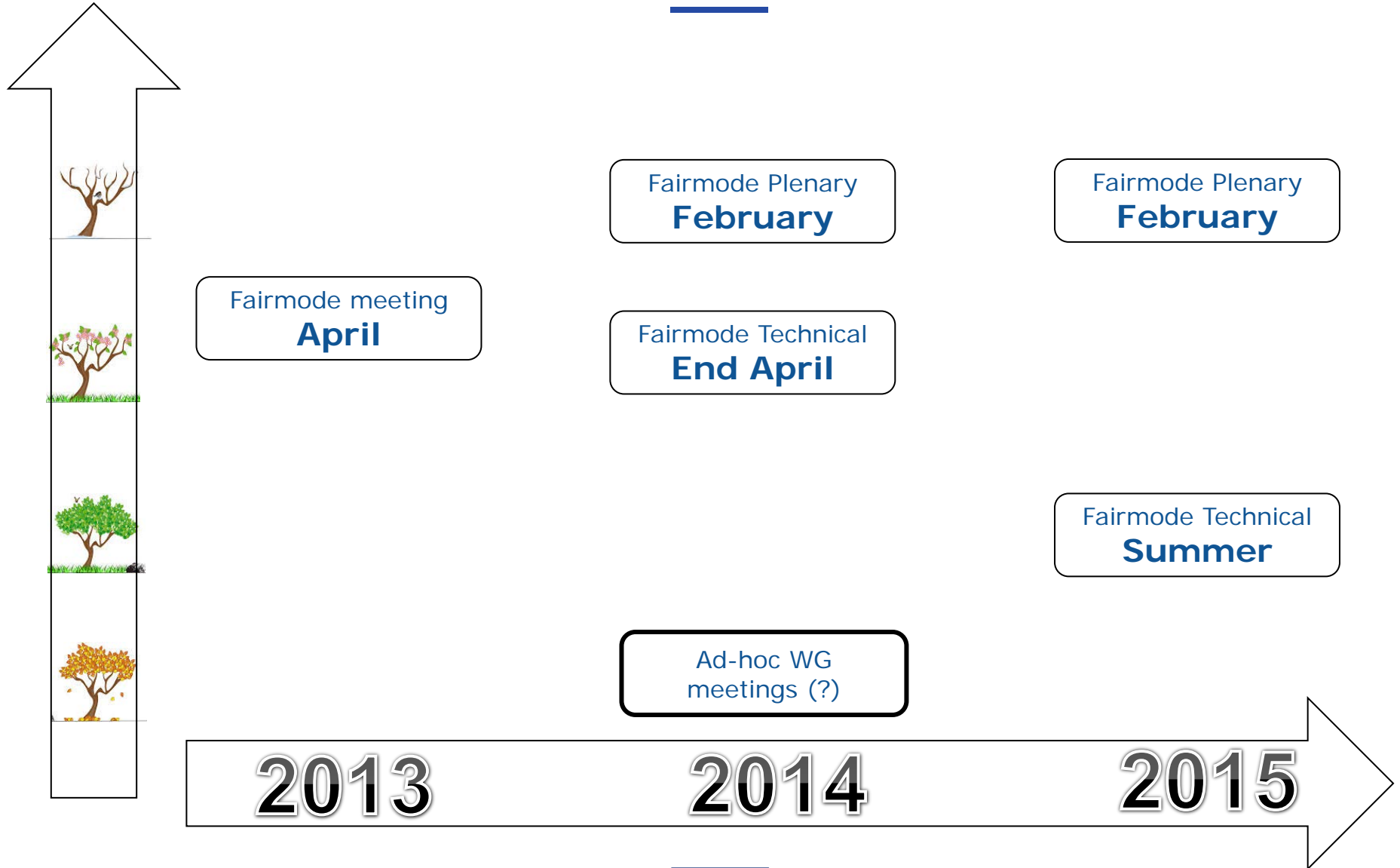
Work-plan: participants contributions to be received by end 2014, analysis early 2015

Check availability of reference database

Meetings: Plenary and technical



European
Commission



A new Web page



fairmode.jrc.ec.europa.eu

European Commission The European Commission's in-house science service

European Commission > JRC > IES > Air and Climate Unit

FAIRMODE

Forum for air quality modelling in Europe

[Home](#) [Contact](#)

News and events [more updates...](#)

[Mailing list](#) [Meetings](#) [Registration form...](#)

28 APRIL 2014
The "FAIRMODE TECHNICAL MEETING" will be held in Kjeller (Norway)

[About FAIRMODE](#)

- [terms of reference](#)
- [steering committee](#)
- [national experts](#)
- [roadmap](#)
- [strategy](#)

Working groups [details...](#)

[Assesment](#) [Emissions](#) [Source Apportionemnt](#) [Planning](#)

Cross cutting activities (CCA) [read more...](#)