SHERPA: questionnaire outcome

The European Commission's science and knowledge service

Joint Research Centre

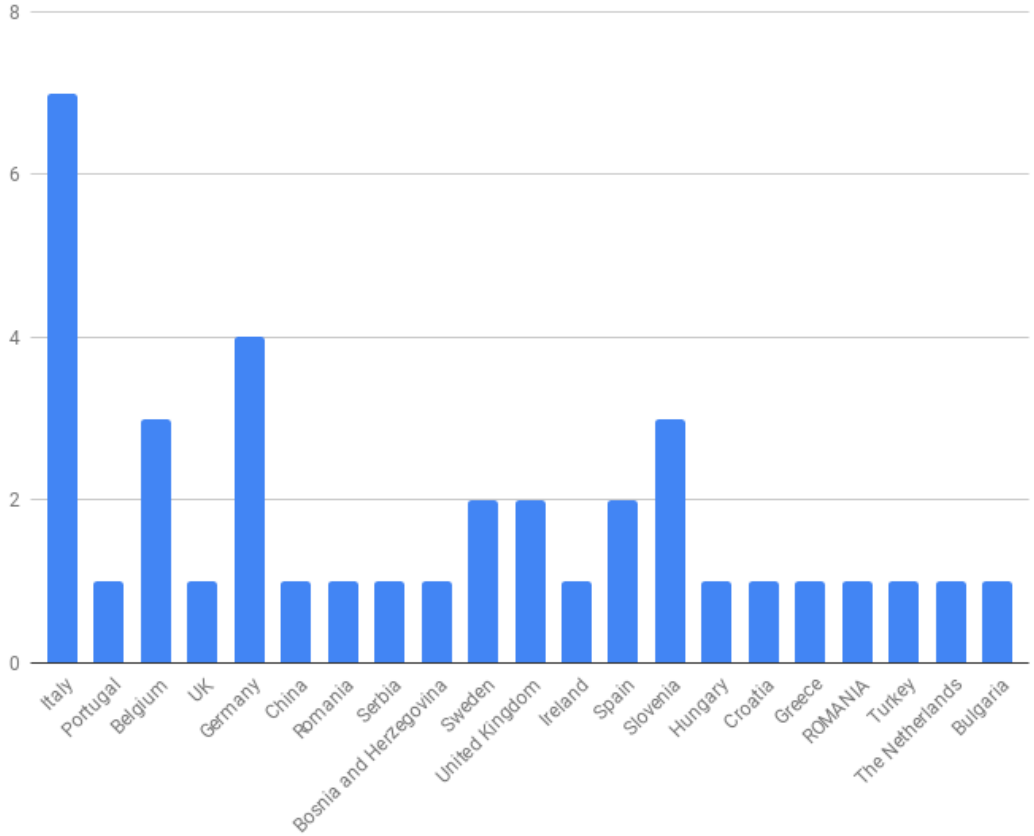
European Commission

Current users

Last access: 20th of June

- 277 ‘potential’ users of SHERPA (not considering EC users)
- 38 responses to the questionnaire (14% of the users)

From which countries



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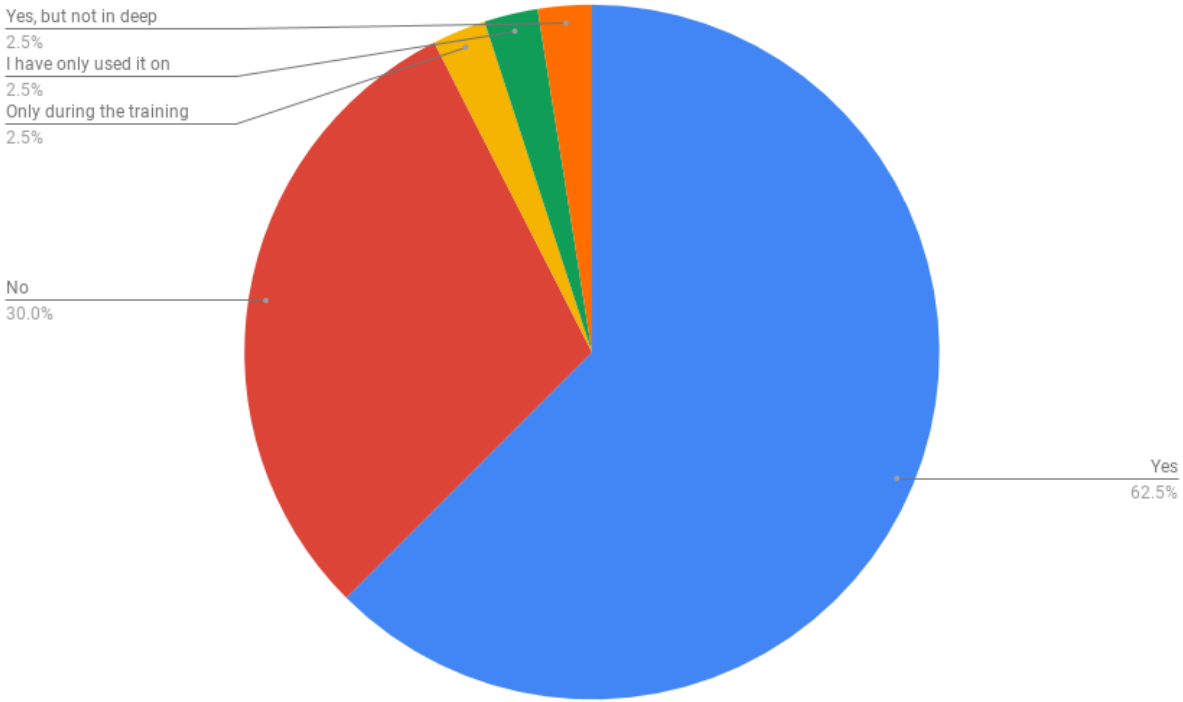
Using SHERPA?



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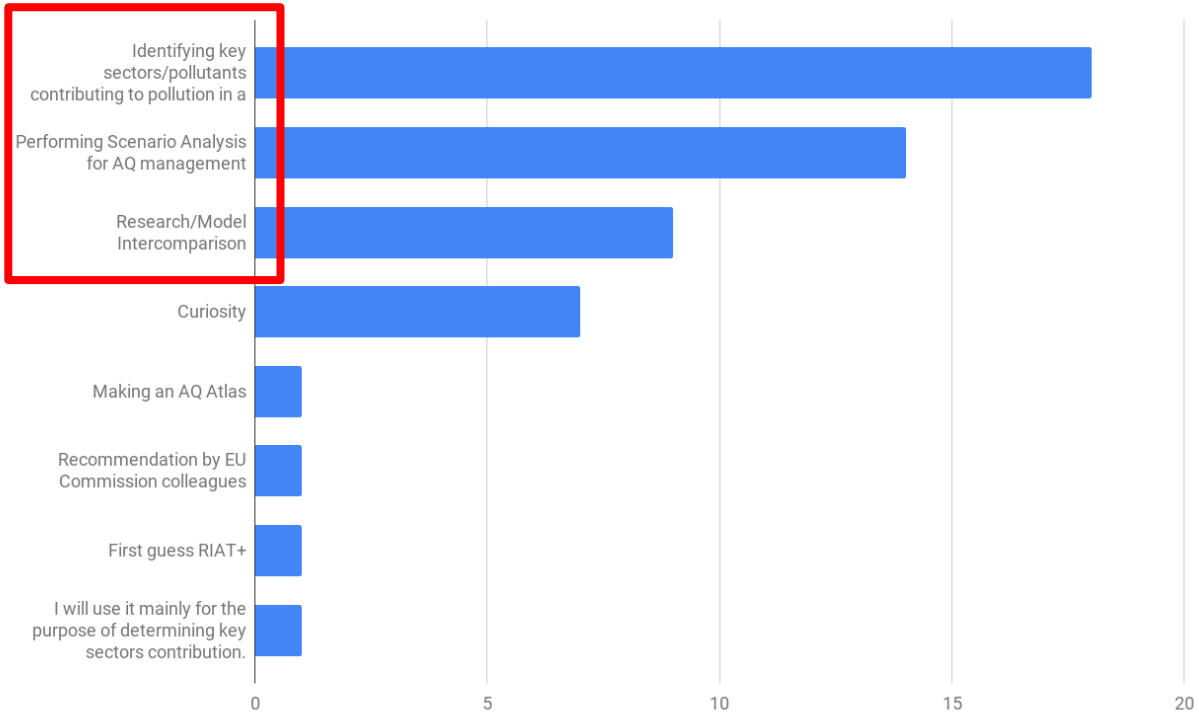
Purpose of using SHERPA



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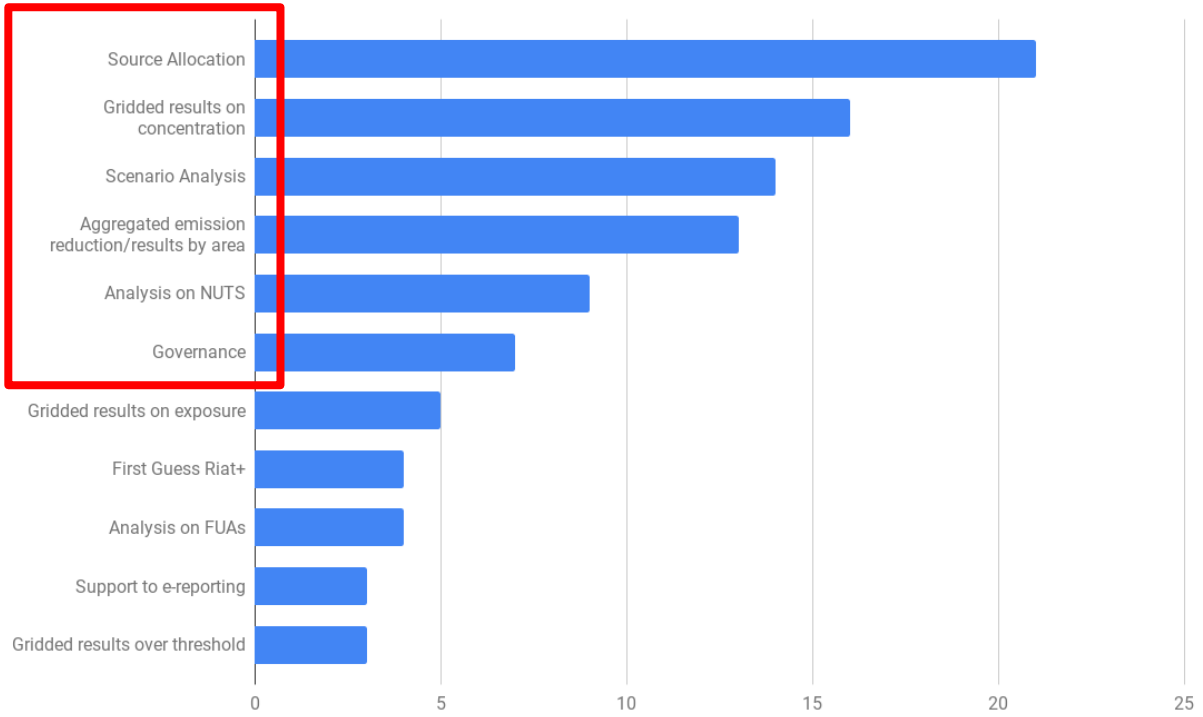
Used functionalities



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Limitations

MAIN COMMENTS

- You absolutely need to use your own emission inventory
- Documentation is not sufficient
- …

OTHER COMMENTS

- Results are not clear/difficult to interpret
- Too slow
- Limited geographical coverage
- Methodological comment: bias in windy and mountain areas ?
- …

Limitations more in detail

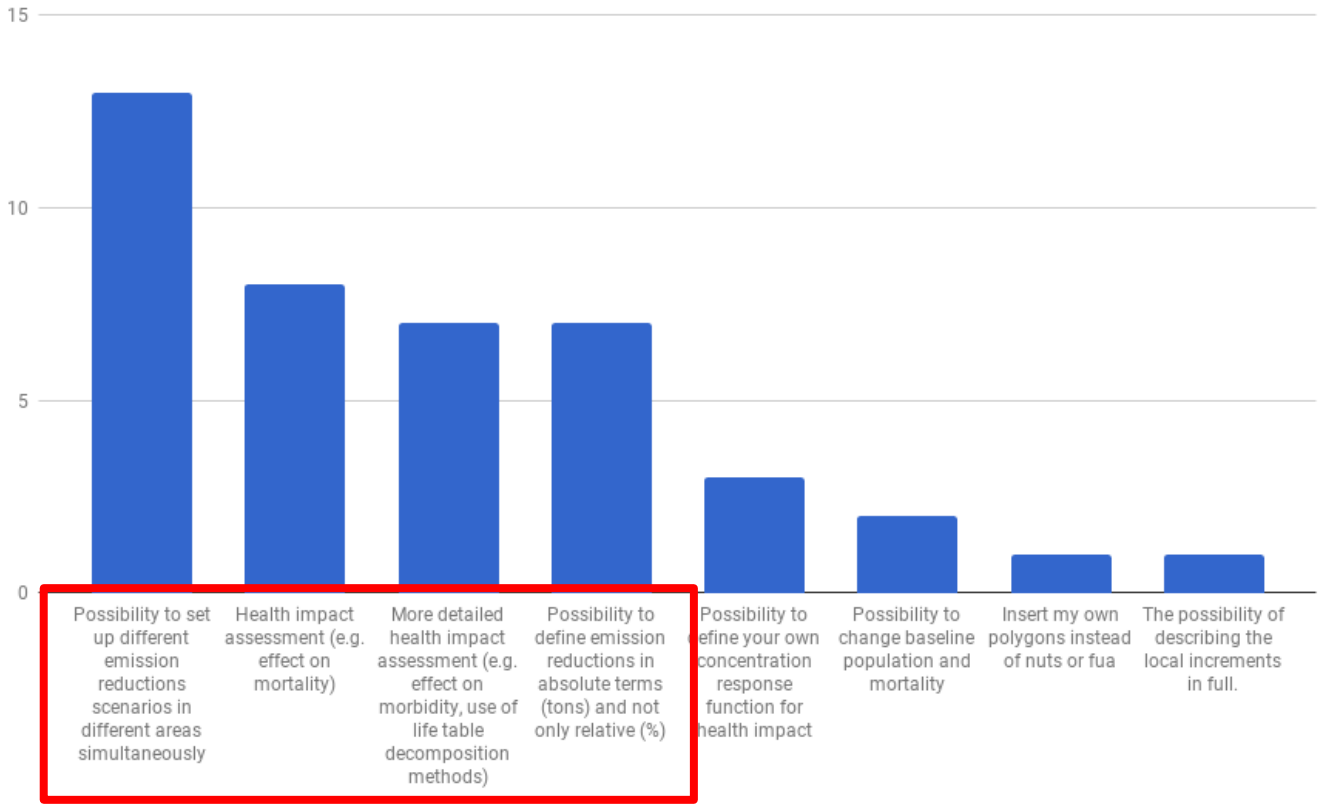
INPUT DATA

- Use of one Chemistry transport model
- Use of one emission inventory for Europe.
- …

METHOD

- Tool is best used for screening at national level ?
- Sherpa ok for urban areas? Stress it has 7x7km grid
- Be careful with the results interpretation (linearity emissions/concentrations, inaccurate inventories, estimation of the results for background concentrations only)
- …

New features required



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New features required (detail)

- The possibility of describing the local increments in full.
- Exporting of the results to common formats (netcdf, hdf, ascii, ...)
- Before adding the functionality on health, the tool has to be more validated (i.e. other CTMs and Emissions, to estimate uncertainty).

What you like of SHERPA

- The interface, the modulare structure
- It offers an opportunity to study secondary pollution from, for example, agriculture
- In the absence of other information, this can be a starting point for discussions with local authorities whom are trying to understand air quality contributions in their local domains.
- Ability to evaluate contribution from other countries by each SNAP.
- it has a light set up, it is a user-friendly tool and the algorithm is well documented

Other comments

- Sherpa should be more intensively validated and tested with other model simulations.

- In the next step, an interface and guidance should be developed to import own model simulations

- Need for video tutorials