Goals of the workshop

• Finalize and release ESMValTool v2.0.0a

• Porting namelists and diagnostics from v1 to v2

• Introduce ESMValTool to newcomers

• Provide help and support to users moving to v2

• Discuss publications
Priorities and assignments

• In general, each participant is encouraged to focus on the github issues he/she has been assigned to. See the current list here (it can be filtered by assigned user clicking on “Assignee” in the top menu):
  https://github.com/ESMValGroup/ESMValTool/issues

• Since the goal of the workshop is to finalize the release of v2.0.0a (alpha version), a subset of high priority issues should be considered first:
  https://github.com/ESMValGroup/ESMValTool/issues?q=is%3Aissue+is%3Aopen+label%3Aworkshop

• An overview of the current status of v2.0.0a release is also given under the corresponding github project:
  https://github.com/ESMValGroup/ESMValTool/projects/2

• The finalization of namelist_perfmetrics_CMIP5 is also to be considered as an essential part for the alpha release:
  https://github.com/ESMValGroup/ESMValTool/projects/6
Help and support

General questions about version 2: Bouwe, Javier, Valeriu, Mattia, Handouts

Installation issues: Bouwe

CMORization: Javier

Regridding, masking and other backend functionalities: Valeriu

Diagnostics and porting to v2: Mattia

Logistics: Birgit

At least one wrap-up session will take place at the end of each day to discuss status, progress and issues
Publications

Two publications about ESMValTool v2 are planned:

- **Part 1, technical overview** (preprocessor/backend, new structure, revised interface, new namelist format etc.). Righi et al. (v2 developers), to be submitted to Geosci. Model Dev. (open-access Copernicus journal)

  **ESMValTool (v2.0) – Part 1: technical overview. Revised backend for efficient data pre-processing and improved workflow.**

  Mattia Righi¹, Bouwe Andela², Niels Drost², Paul Earnshaw³, Veronika Eyring¹, Axel Lauer¹, Bill Little³, Valeriu Predoi⁴, Javier Vegas-Regidor⁵, and others to be added x

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- **Part 2, scientific overview** (new diagnostics since v1 and new features of existing diagnostics ported to v2). Eyring et al. (diagnostic developers)
Summary, outcome and way forward…
Highlights

✓ First official release v2.0a0
✓ Conda and Docker installation packages available
✓ Variable derivation finalized (4 derived variables available)
✓ Extended data-finder to read fx-variables in a flexible way
✓ New definitions: models -> datasets, namelist -> recipe
✓ New option for saving NetCDF Output in compressed format (to save storage)
✓ More v2 active users
The workshop in numbers

✓ 20 participants
✓ 20 issues solved
✓ 36 pull requests merged
✓ 24 new issues opened
✓ 11 recipes (namelists) being currently ported to v2
Way forward

To-do before the beta release (v2.0b0):

- Regridding of ocean grids (Nikolay, Klaus, Valeriu, Daniel)
- CMORization of observations (Birgit, Xavier, Mattia)
- Land/Sea masking (Valeriu, Bouwe)
- Full version of recipe_perfmetrics_CMIP5.yml (Mattia)
- Provenance/Tagging (Lisa, Björn, Bouwe)
- Paper Part 1 (Righi et al.)
- More diagnostics from v1...
- Next workshop in Summer 2019
Thank you!