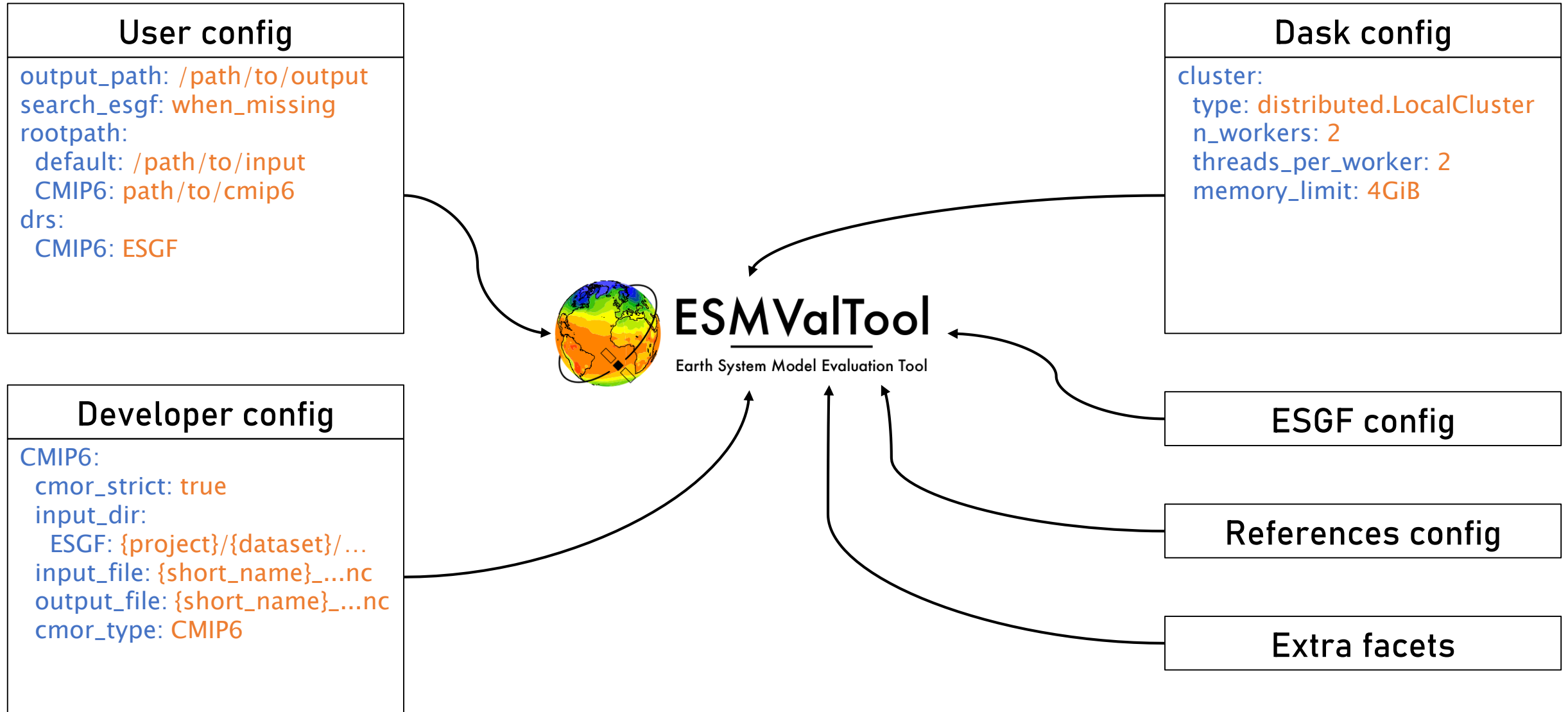


# ESMValTool

Earth System Model Evaluation Tool

## Configuration Updates

# Configuration before v2.12.0



# New Configuration - Overview

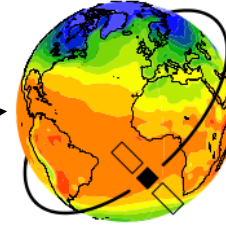
## Single ESMValTool configuration object

```
output_path: /path/to/output
search_esgf: when_missing

dask:
  cluster:
    type: distributed.LocalCluster
    n_workers: 2
    threads_per_worker: 2
    memory_limit: 4GiB

data_sources:
  CMIP6:
    cmor_strict: true
    input_dir: {project}/{dataset}/...
    input_file: {short_name}_...nc
    output_file: {short_name}_...nc
    cmor_type: CMIP6
    rootpath: /path/to/input

esgf:
  ...
```

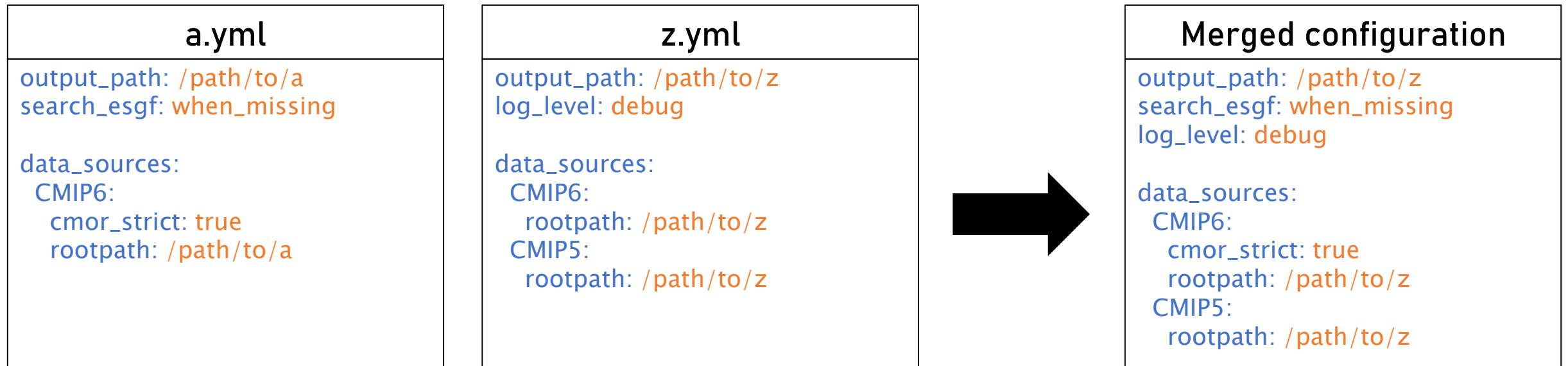


**ESMValTool**  
Earth System Model Evaluation Tool

# New Configuration – Details

Configuration is merged from YAML files within configuration directories (caveat: all YAML files in these directories are interpreted as configuration files!)

Example:



# New Configuration – Current state (v2.12.0)

- Currently, user configuration has been adapted to new format. It is now merged from YAML files within configuration directories
  - Priority 1: Directory given via `--config_dir` command line argument
  - Priority 2: `~/.config/esmvaltool` (can be overwritten with `ESMVALTOOL_CONFIG_DIR` environment variable)
- All configuration options can still be supplied as command line options, for example, `--search_esgf=when_missing`
- Command line option `--config_file` and default user configuration location `~/.esmvaltool/config-user.yml` are now deprecated. If used, only these configuration files will be read (new options will be ignored). This raises a warning now, and will be removed in v2.14.0

# New Configuration – Outlook

- Move all configuration files to single configuration object (Developer config, Dask config, ESGF config, ...)
- Overhaul data sources configuration and include new sources like intake

# Links

- Plan: <https://github.com/ESMValGroup/ESMValCore/issues/2371>
- First PR: <https://github.com/ESMValGroup/ESMValCore/pull/2448>
- Doc: <https://docs.esmvaltool.org/projects/ESMValCore/en/latest/quickstart/configure.html>