European Automobile Manufacturers Association

ACEA

# EV Postprocessing

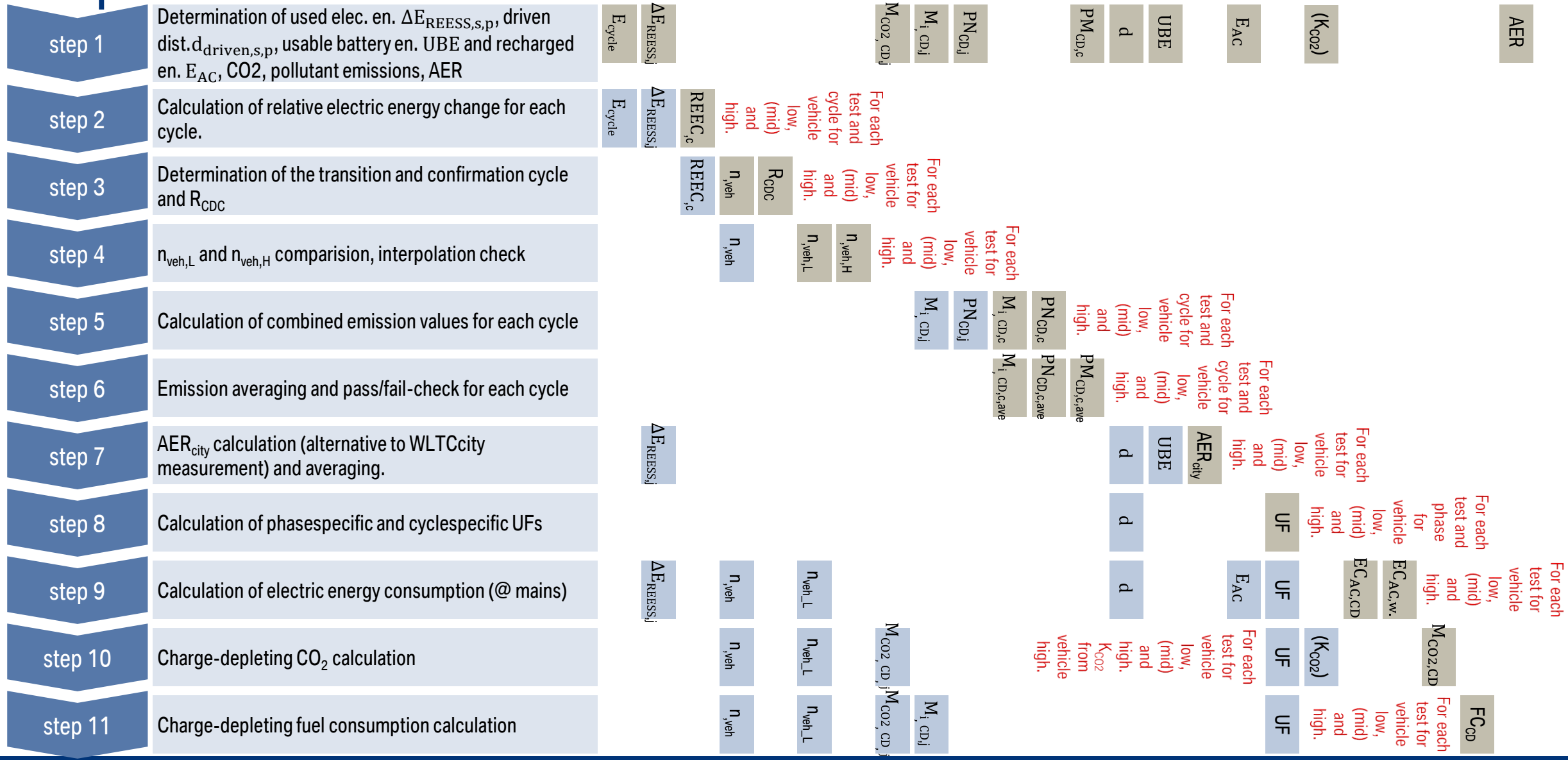
## For WLTP Phase 2

FOR SG EV MEETING, 25TH OF APRIL 2016

PARIS

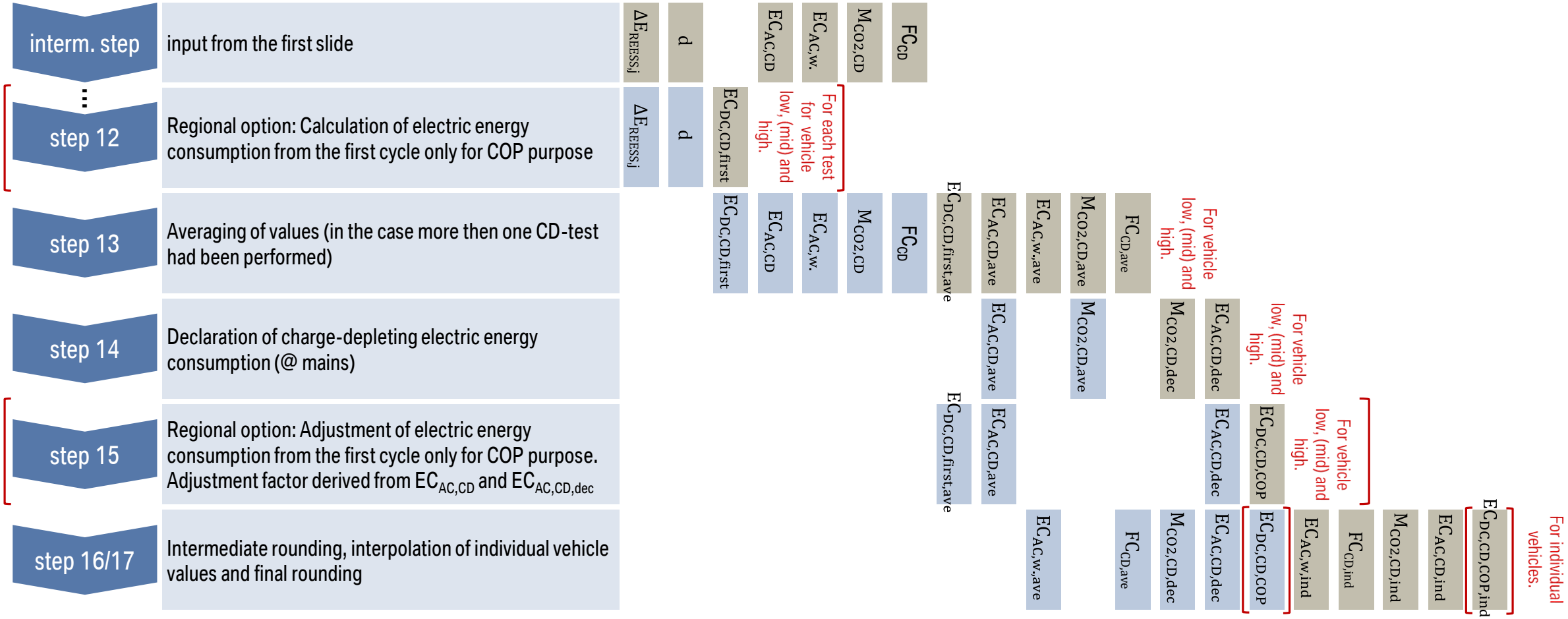
# EV POSTPROCESSING FOR OVC-HEV

# EV POSTPROCESSING OVC-HEV CD(1)



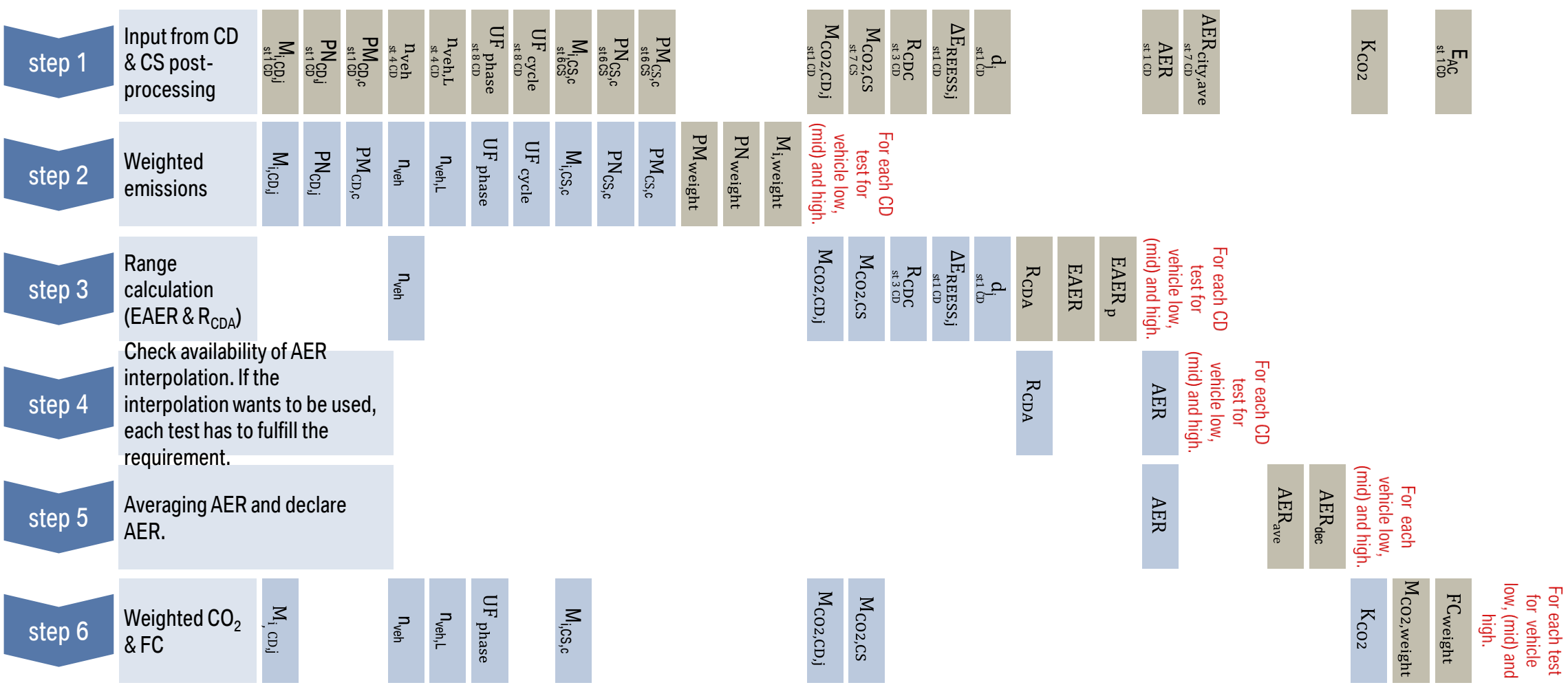
# EV POSTPROCESSING OVC-HEV CD(2)

| | |
|---|---|
| interm. step | input from the first slide |
| ⋮ | |
| step 12 | Regional option: Calculation of electric energy consumption from the first cycle only for COP purpose |
| step 13 | Averaging of values (in the case more then one CD-test had been performed) |
| step 14 | Declaration of charge-depleting electric energy consumption (@ mains) |
| step 15 | Regional option: Adjustment of electric energy consumption from the first cycle only for COP purpose. Adjustment factor derived from $EC_{AC,CD}$ and $EC_{AC,CD,dec}$ |
| step 16/17 | Intermediate rounding, interpolation of individual vehicle values and final rounding |

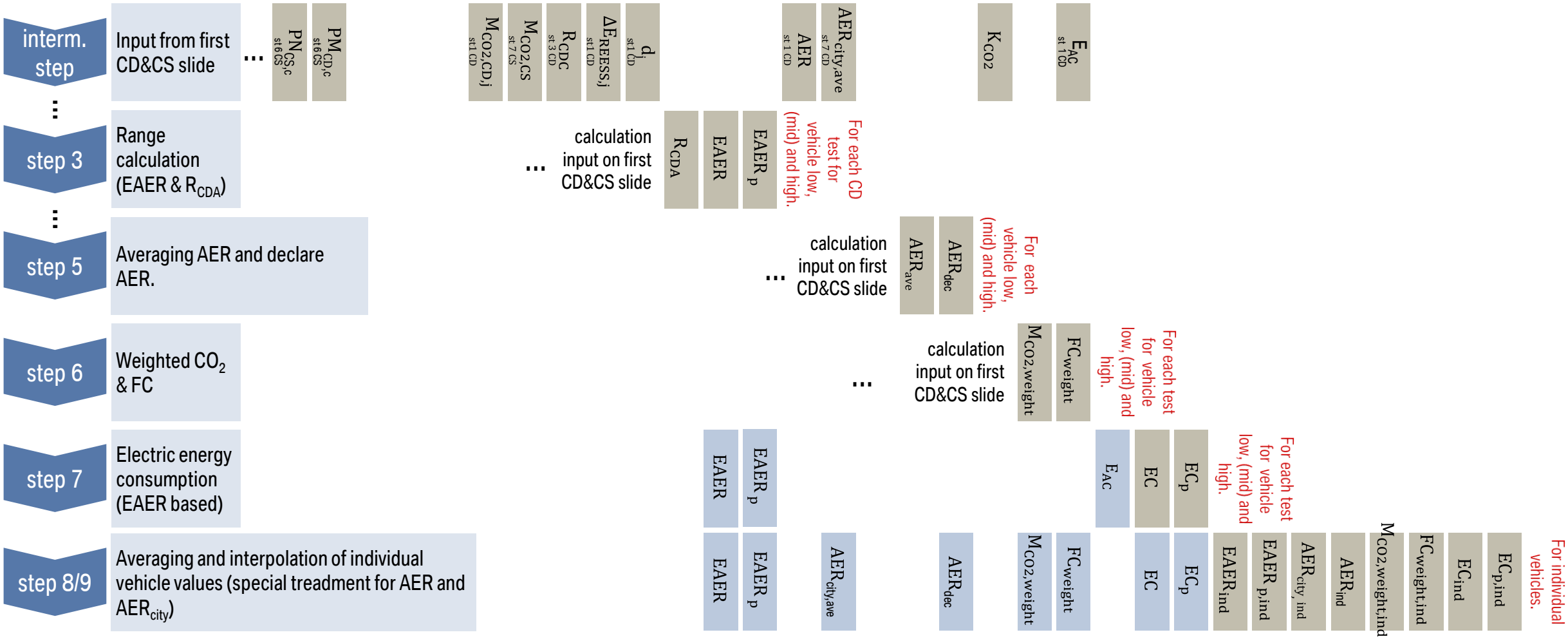



**Note:**
**The AER interpolation first has to be checked with a criteria that depends on $R_{CDA}$ → slide for CD & CS merging**
**Same $n_{veh_L}$ and $n_{veh_H}$ is necessary if more than one charge-depleting test shall be averaged.**
**UF coefficients not shown in this figure, but of course necessary.**

# EV POSTPROCESSING OVC-HEV CD+CS(1)



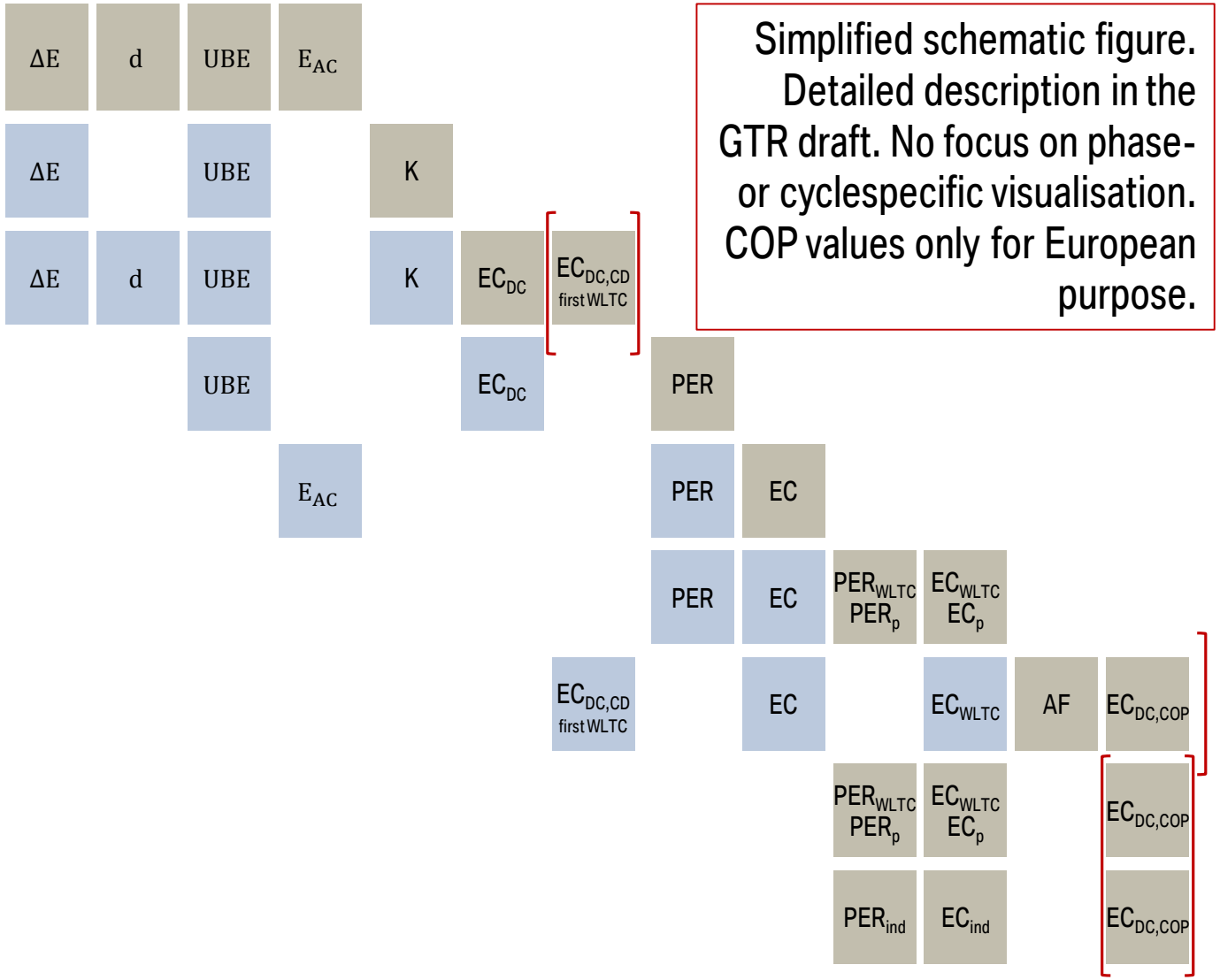
# EV POSTPROCESSING OVC-HEV CD+CS(2)



# EV POSTPROCESSING FOR PEV (STP)

# EV POSTPROCESSING PEV (STP)

| | |
|---|---|
| step 1 | Determination of used electric energy $\Delta E_{REESS,s,p}$, driven distances $d_{driven,s,p}$, usable battery energy UBE and recharged energy $E_{AC}$ |
| step 2 | Calculation of weighting factors |
| step 3 | Calculation of electric energy consumption (@REESS) |
| step 4 | Calculation of pure electric range |
| step 5 | Calculation of electric energy consumption (@ mains) |
| step 6 | Averaging of tests and declared value |
| step 7 | Adjustment of electric energy consumption for COP |
| step 8 | Final results (vehicle low and high) for the interpolation and intermediate rounding |
| step 9 | Interpolation for individual vehicle values |




Simplified schematic figure. Detailed description in the GTR draft. No focus on phase- or cyclespecific visualisation. COP values only for European purpose.

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# Thank you for your attention

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