

## IS-ENES Carbon Footprint group

### Who are we, what do we want to achieve?



- Voluntary group that naturally emerged after Casimir's talk on IPSL carbon footprint at IS-ENES3 KO; 23 persons on the slack channel now!
- Bottom-up approach, not a task described in IS-ENES3 DoW
- First telco on September 10th 2019, 5 target actions identified



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### *Action 1 - Identify a carbon footprint representative for each IS-ENES3 partner (S. Valcke)*

- BSC: Mario Acosta
- CNRS-IPSL: Eric Guilyardi, Balaji
- DKRZ: Maria Moreno, Martina Stockhause
- CERFACS: Sophie Valcke
- CMCC: Italo Epicoco
- STFC: Martin Juckes
- SMHI: Helena Martins, Uwe Fladrich
- NLeSC: Jaro Camphuijsen
- UNIMAN: Mike Ashworth
- IS-ENES3 (project manager): Sophie Morellon



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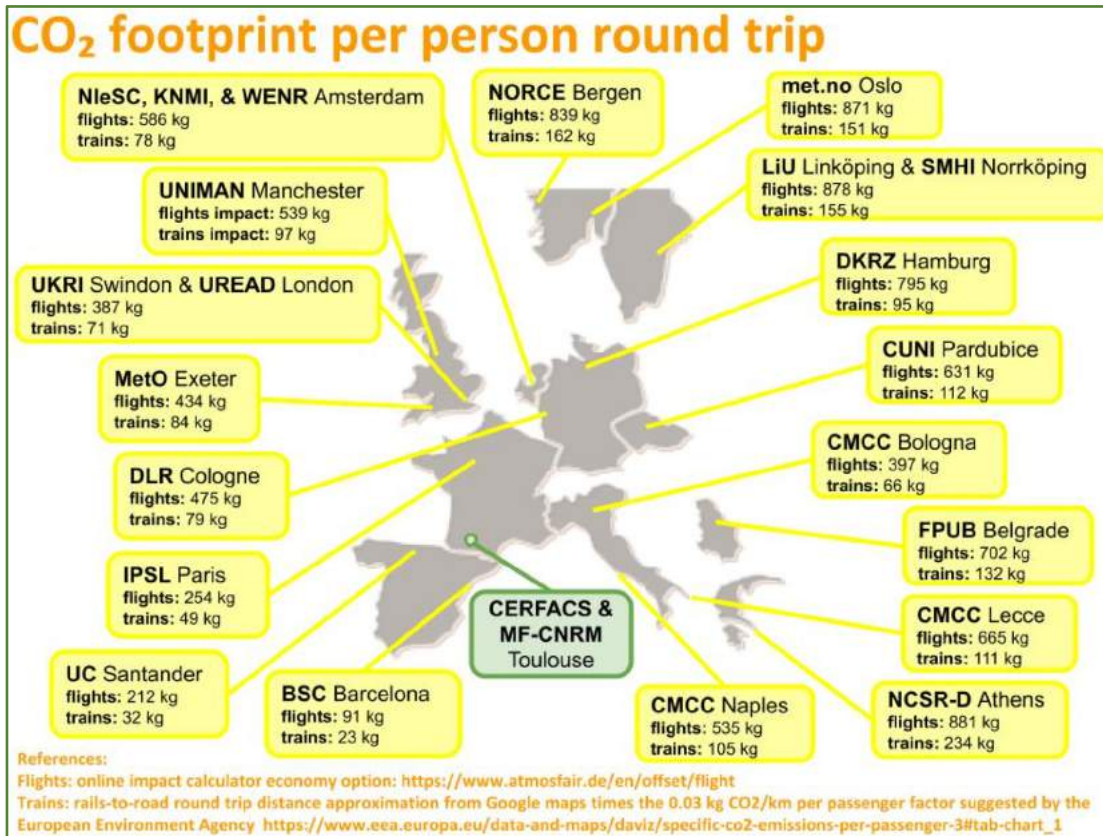
Partners with no official representative :

UREAD-NCAS, MetO, BSC, KNMI, DLR, UC, met.no, MF-CNRM, NCSR-D, WENR



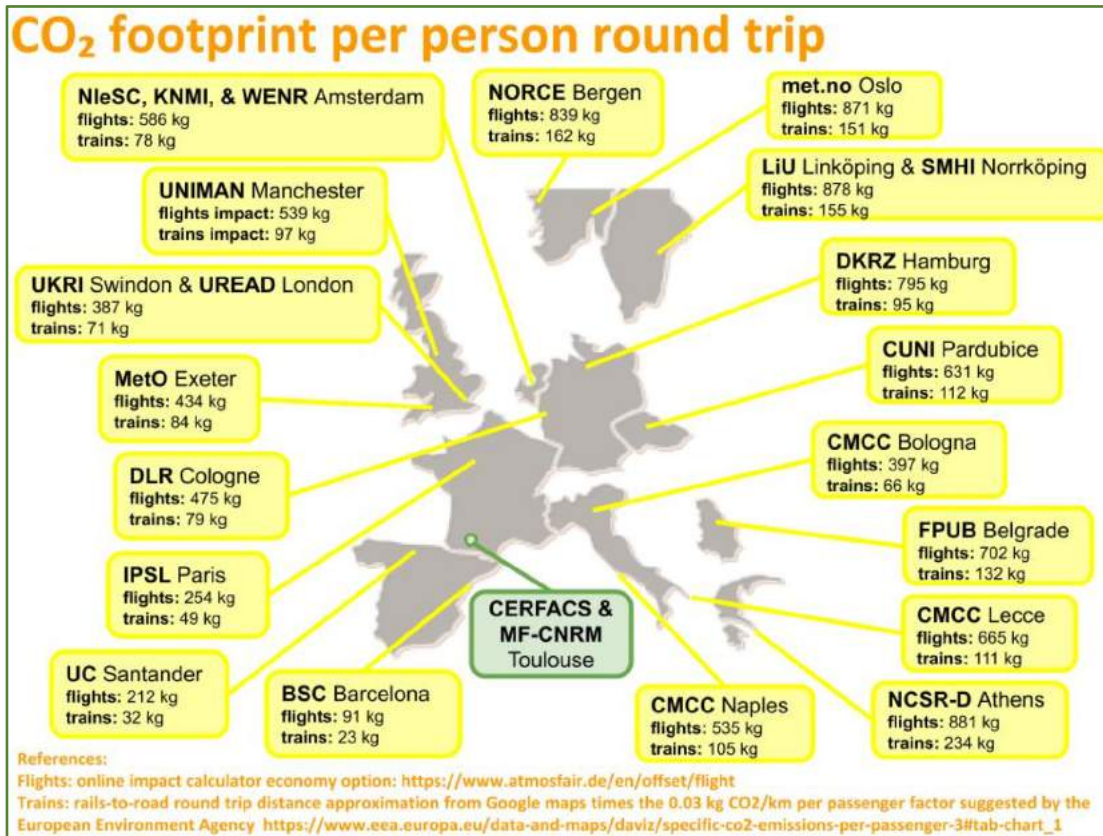


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Also planned: questionnaire to evaluate IS-ENES3 carbon footprint

Finally: very-low carbon GA, thanks COVID-19



More seriously: a good opportunity to evaluate the possibility of organizing more virtual meetings !





*Action 3 - Write a short document on best practices to be distributed to all IS-ENES3 partners regarding all project aspects, e.g. travelling, organising workshops, etc. (H. Martins)*







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### Identification of three documents to support Action 3:

- European Commission Guide for Sustainable meetings and events  
<https://slack-files.com/TG73PA95K-FNKBR9QQM-c0803ff9f6>
- IS-ENES3 Communication and Dissemination  
<https://slack-files.com/TG73PA95K-FN7T631FV-4b37daa4f0>
- AQUACLEW (SMHI 2018 project) Climate Friendly Research  
<https://slack-files.com/TG73PA95K-FNM7JPUGP-7703926957>





*Action 4 - Help the CPMIP effort (IS-ENES3 WP4) to obtain number regarding the energy consumption and carbon footprint linked to the CMIP6 simulations (M. Acosta)*







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- CPMIP is a set of metrics to evaluate the computational efficiency of a Earth System Model execution, **including JPSY (the energy consumption per simulated year) given in Joules.**
- CPMIP for CMIP6 is being collected here by several institutions:

*<https://docs.google.com/spreadsheets/d/1rNSGb4uZHMIx4jnrlBMtIQ6mGWXWDUTeE-9ntjn4FxE/edit#gid=242464663>*

- It is a collaborative effort, it would just take one hour of your time, at most
- A final collection will be done end of 2020, but everyone can participate now





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- Primary contribution: computer simulations carbon footprint

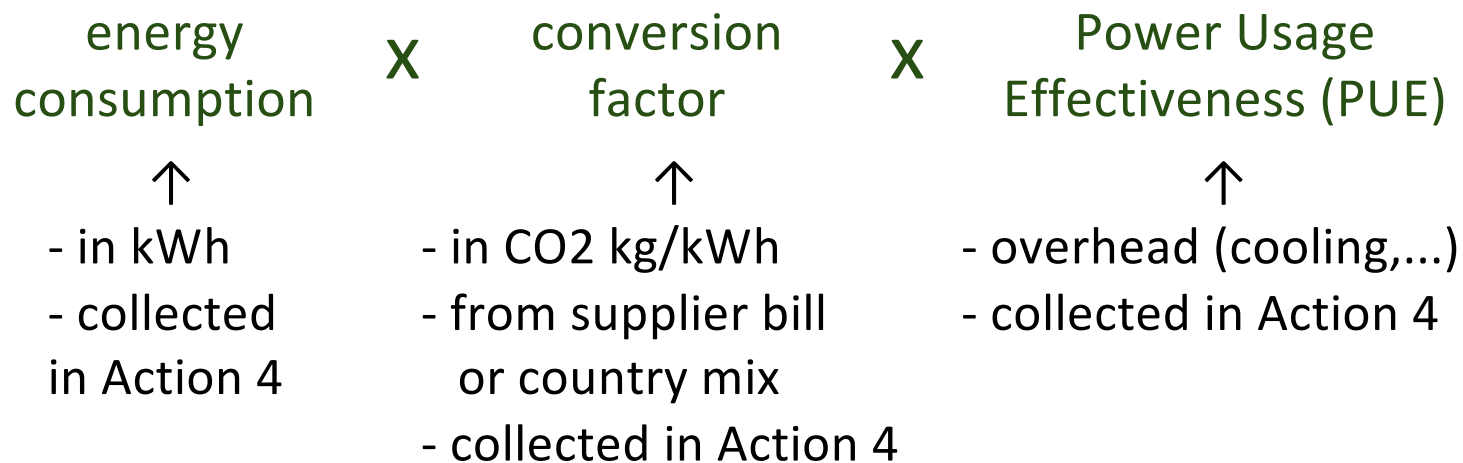
energy consumption	X	conversion factor
↑		↑
- in kWh - collected in Action 4		- in CO2 kg/kWh - from supplier bill or country mix - collected in Action 4





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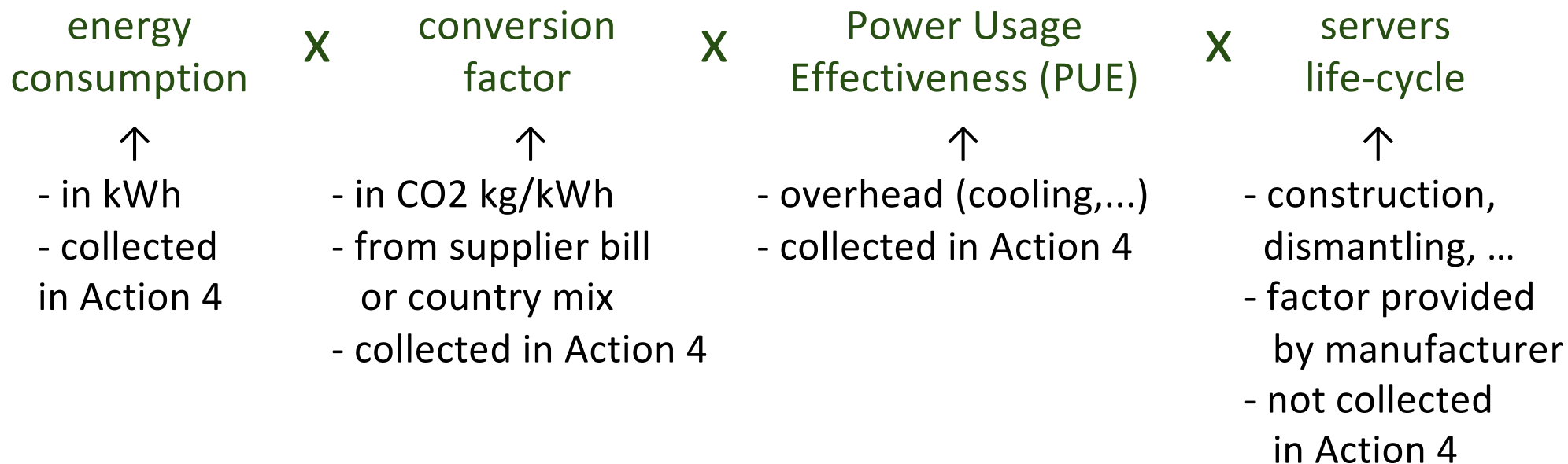
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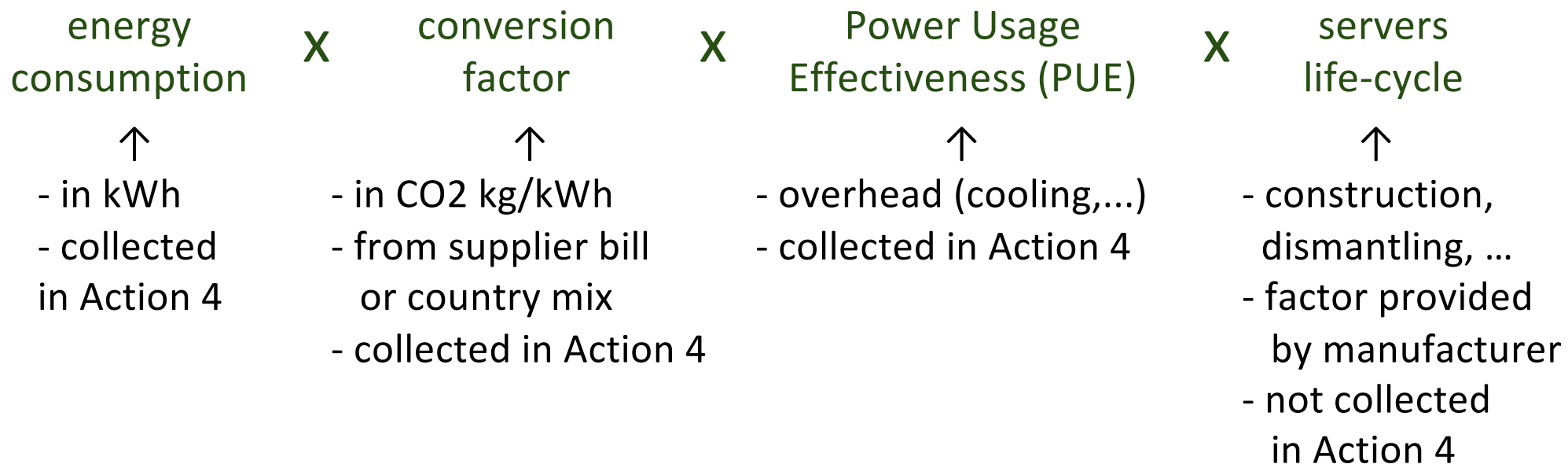
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- Secondary contribution: travelling, building energy consumption,...





Want to take part? Join us !!!!

Carbon footprint virtual meeting Friday 14h30

<https://cerfacs.webex.com/cerfacs-en/j.php?MTID=m3849c81efb03a6d44169ec4f25e6cc64>





## THE CONSORTIUM

Coordinated by CNRS-IPSL, the IS-ENES3 project  
gathers 22 partners in 11 countries



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°824084*



Our website  
<https://is.enes.org/>



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**@ISENES\_RI**



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[is-enes@ipsl.fr](mailto:is-enes@ipsl.fr)



Join the community  
on ZENODO !