

Update on interfacing the CLIVAR ENSO package with ESMValTool

Eric Guilyardi (IPSL), Yann Planton (IPSL), Kim Serradell (BSC), Javier Vegas-Regidor (BSC), Björn Brötz (DLR), Jérôme Servonnat (IPSL),



Task 3.2: New standard on scientific provenance of model evaluation = « science / IT interface »

Use CLIVAR ENSO metrics pilot effort as a starting point

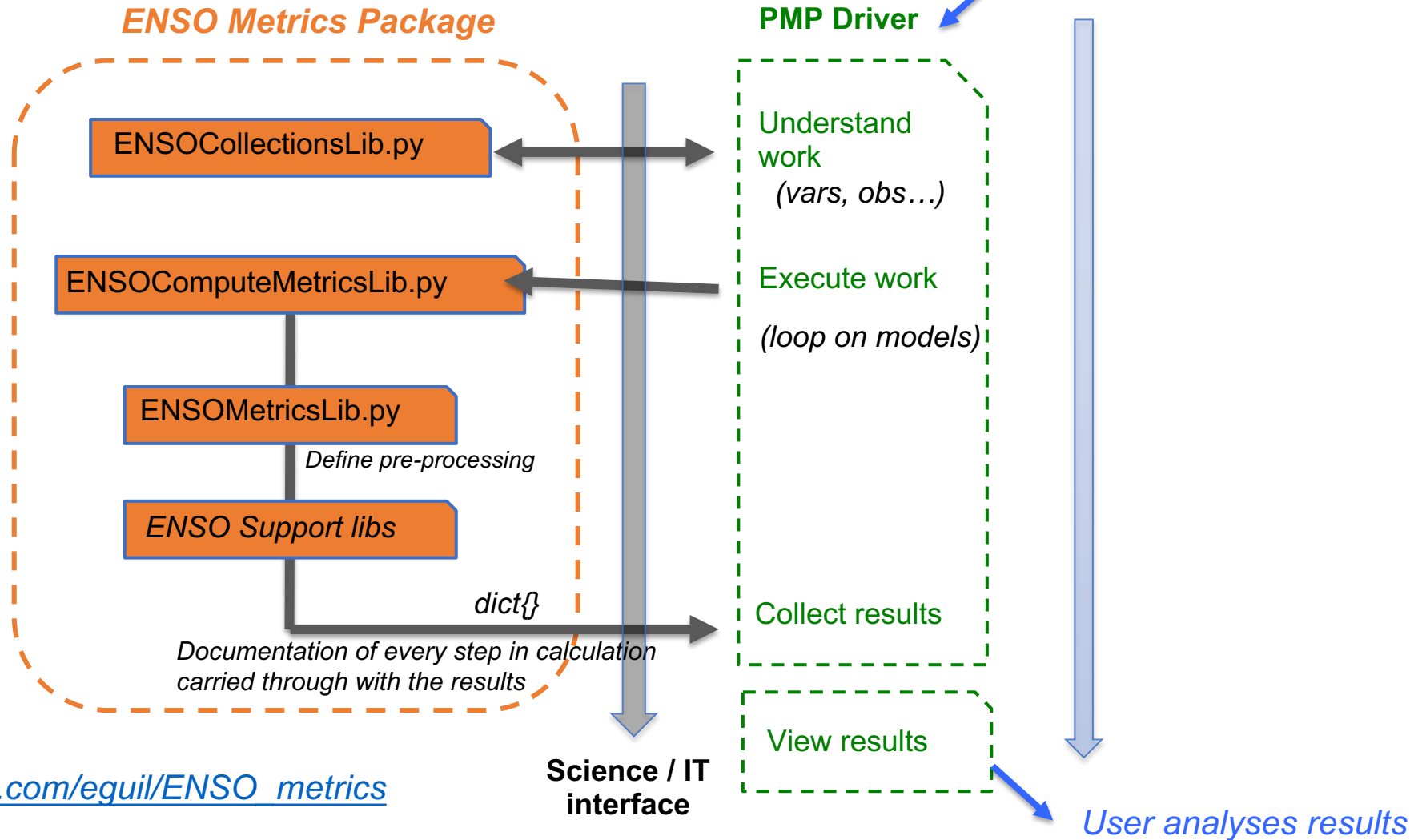
- Used PMP as driver
- Documented interface (done by Yann in code and on github + paper in revision in BAMS)
- Started exploration of ENSO metrics integration in ESMValTool (Javier)
- Both physical (NA2/T3.2) and technical (NA4/T5) considerations to be explored



Structure of pilot ENSO package

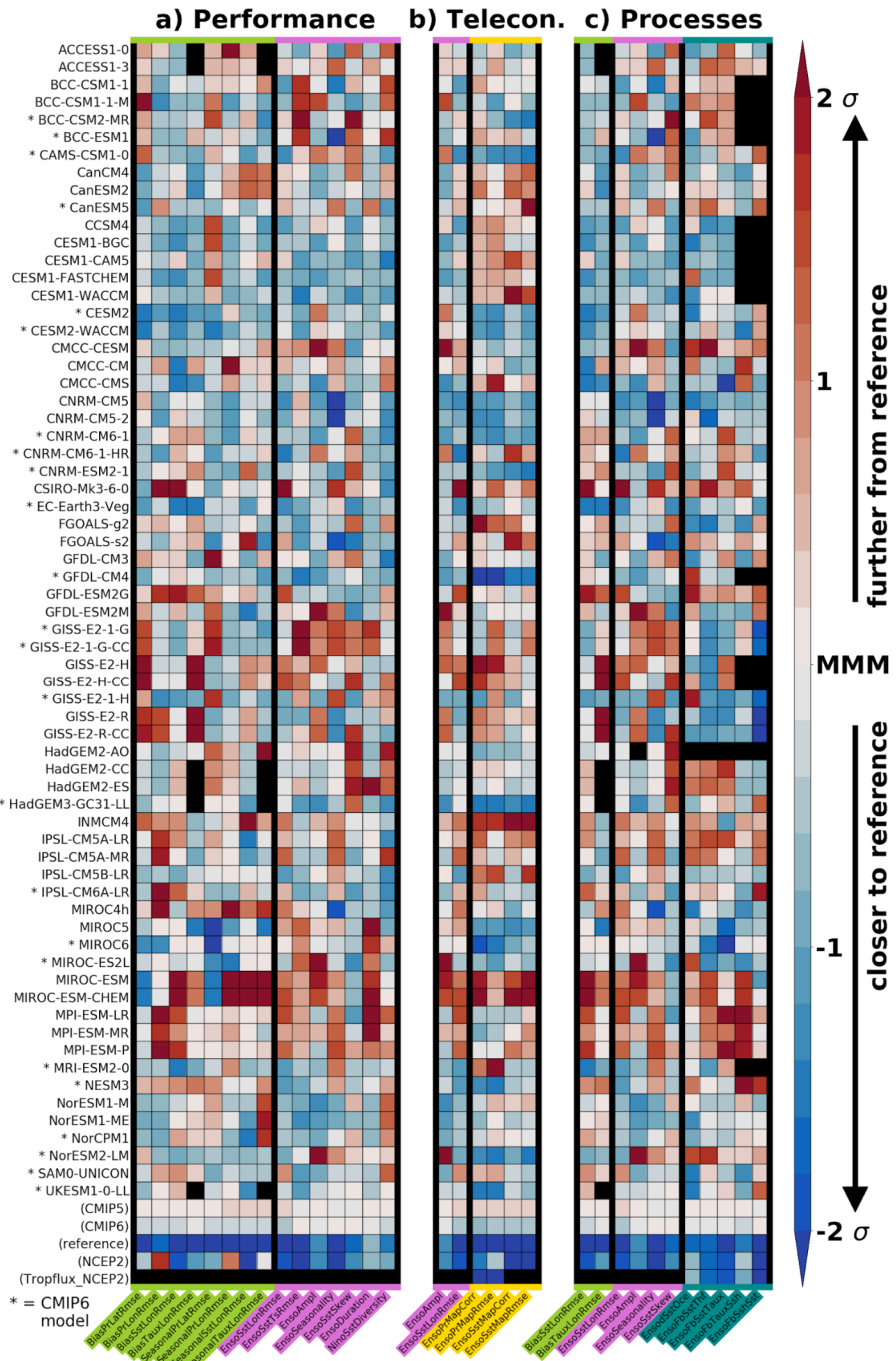
Engage with an IT infrastructure (driver), here PMP

*User chooses metric
collection and models*

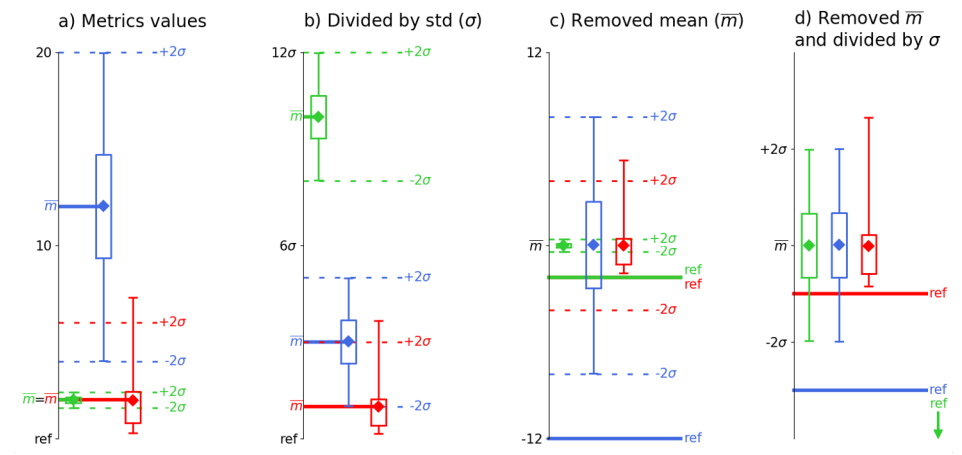


https://github.com/eguil/ENSO_metrics

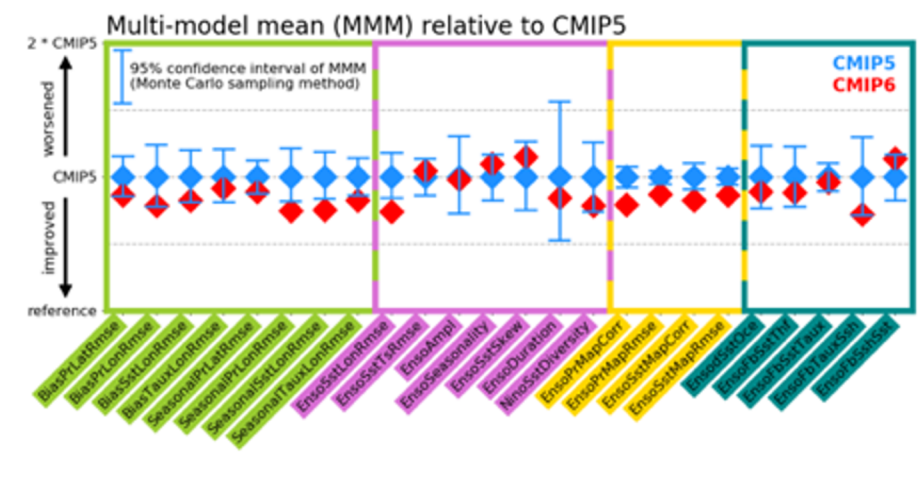




Paper in revision in BAMS: “Evaluating El Niño in climate models with the CLIVAR 2020 ENSO metrics package” by Yann Planton et al.

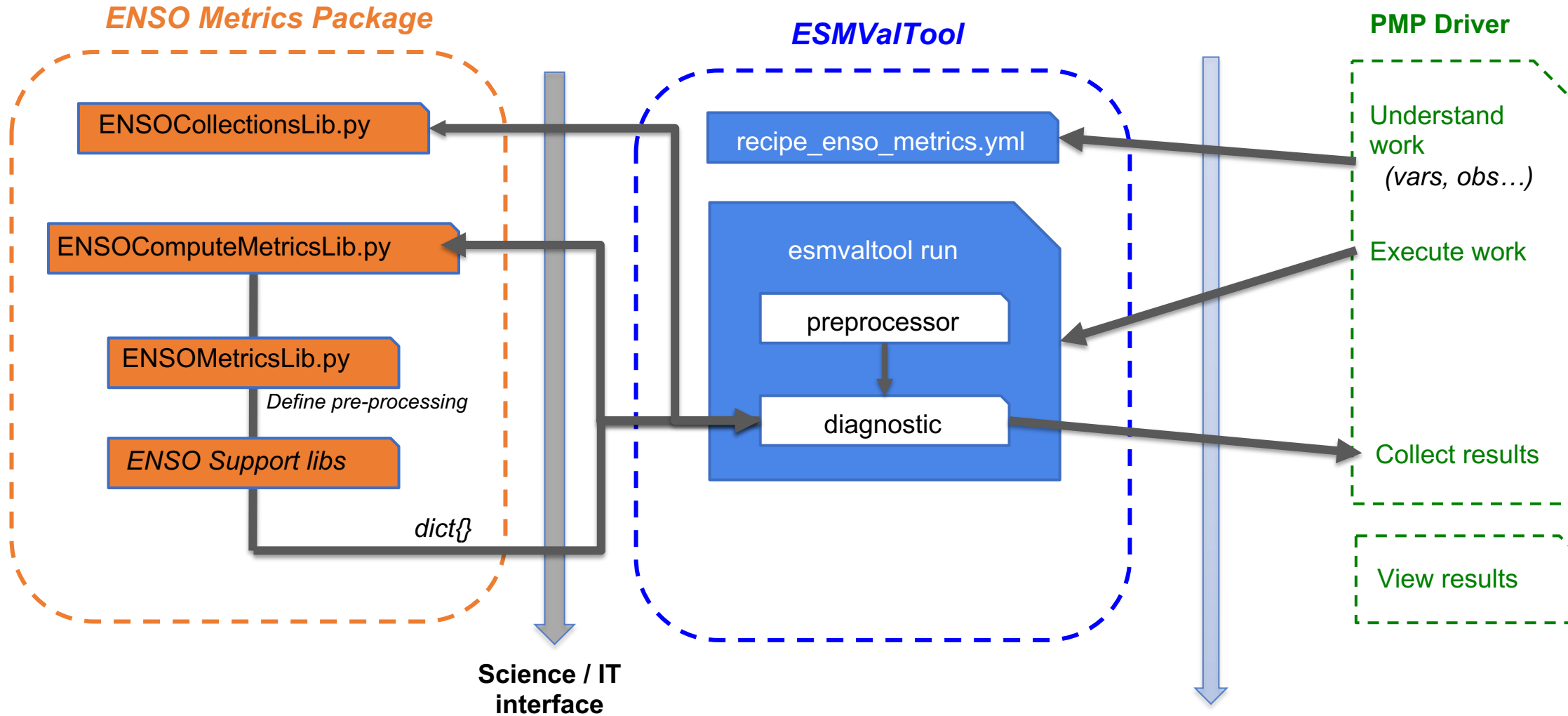


Idealized normal distributions (green and blue) and lognormal distribution (red) illustrating the need to scale the distributions for the portrait plot.

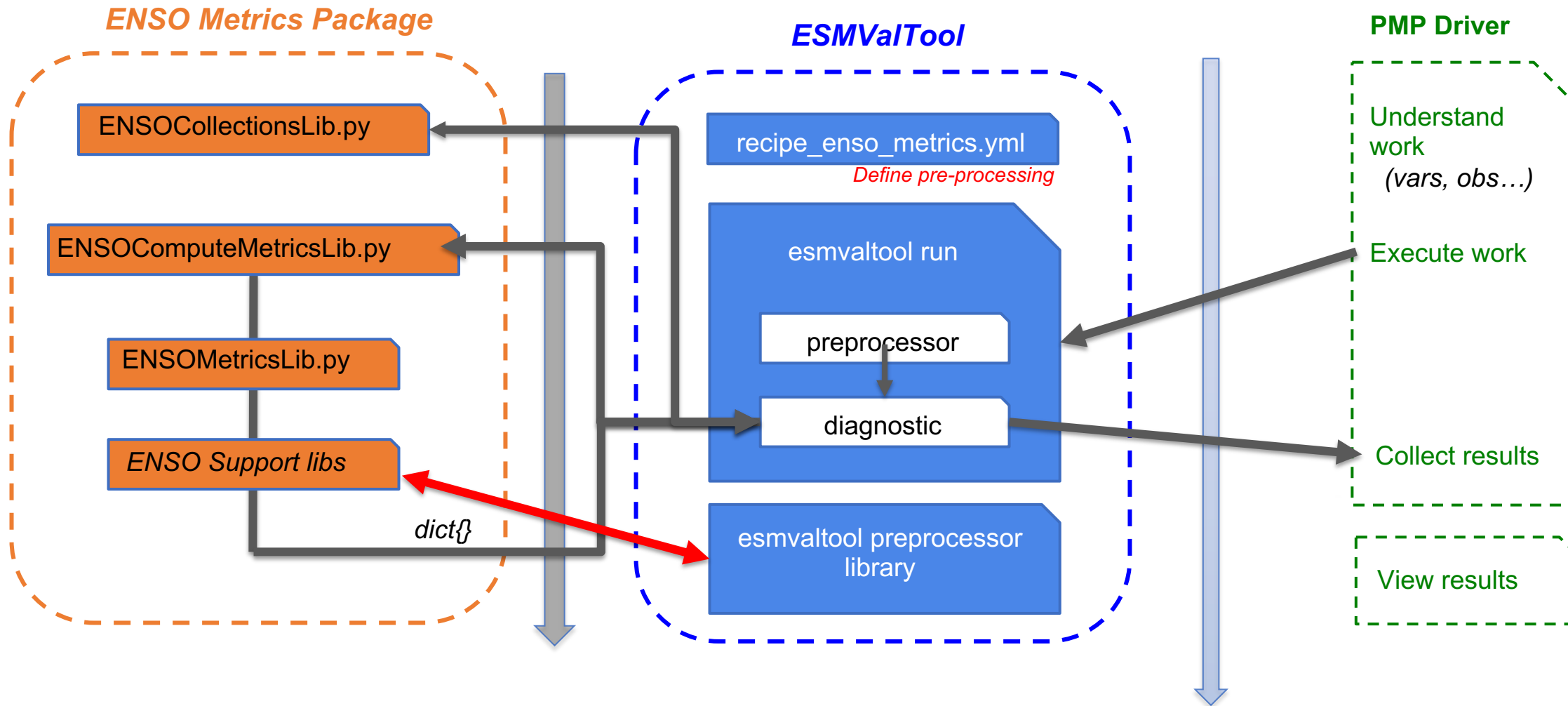


First tests of ENSO package in ESMValTool: current status

IS-ENES3 1st General
Assembly
25-27th March 2020



First tests of ENSO package in ESMValTool: future work



THE CONSORTIUM

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



with



National Centre for
Atmospheric Science
NATURAL ENVIRONMENT RESEARCH COUNCIL



DKRZ
DEUTSCHES
KLIMARECHENZENTRUM



CERFACS
CENTRE EUROPEEN DE RECHERCHE ET DE FORMATION AVANCEE EN ANALYSE SCIENTIFIQUE



Koninklijk Nederlands
Meteorologisch Instituut
Ministerie van Infrastructuur en Waterstaat



UK Research
and Innovation



netherlands
eScience



Norwegian
Meteorological
Institute



CHARLES
UNIVERSITY



*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/>



Follow us on Twitter !

@ISENES_RI



Contact us at

is-enes@ipsl.fr



Join the community
on ZENODO !