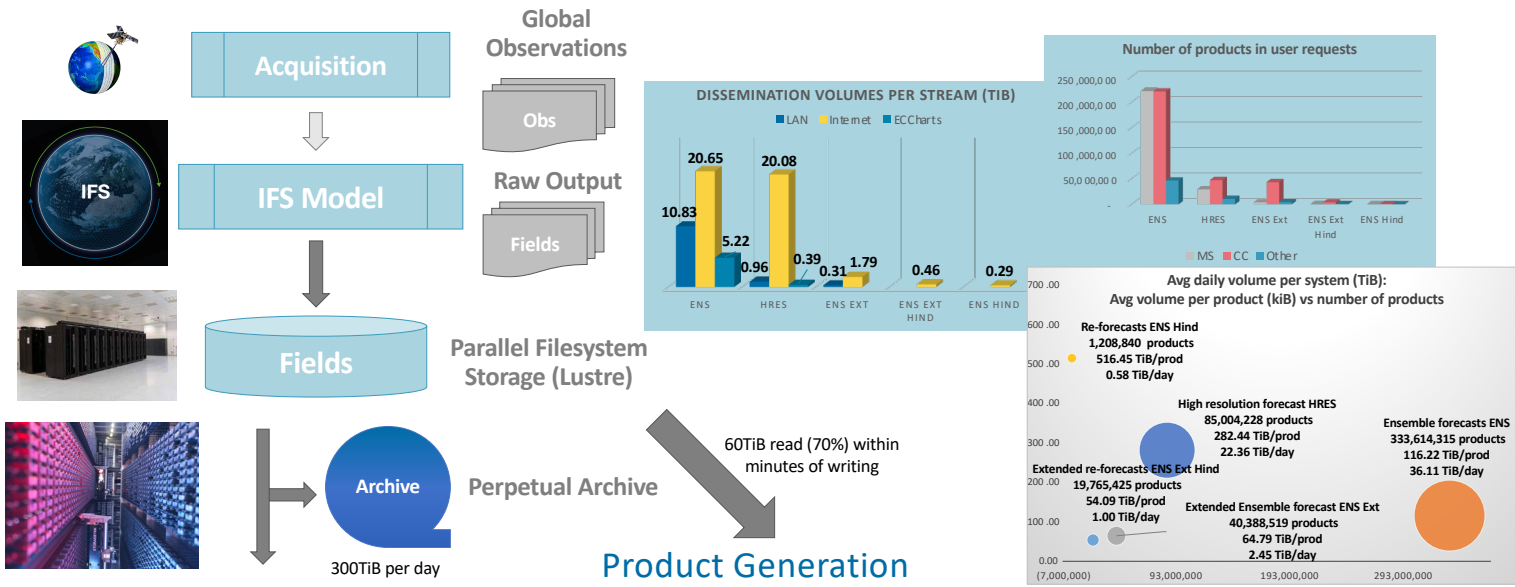


Harnessing HPC in ECMWF's Meteorological Product Generation

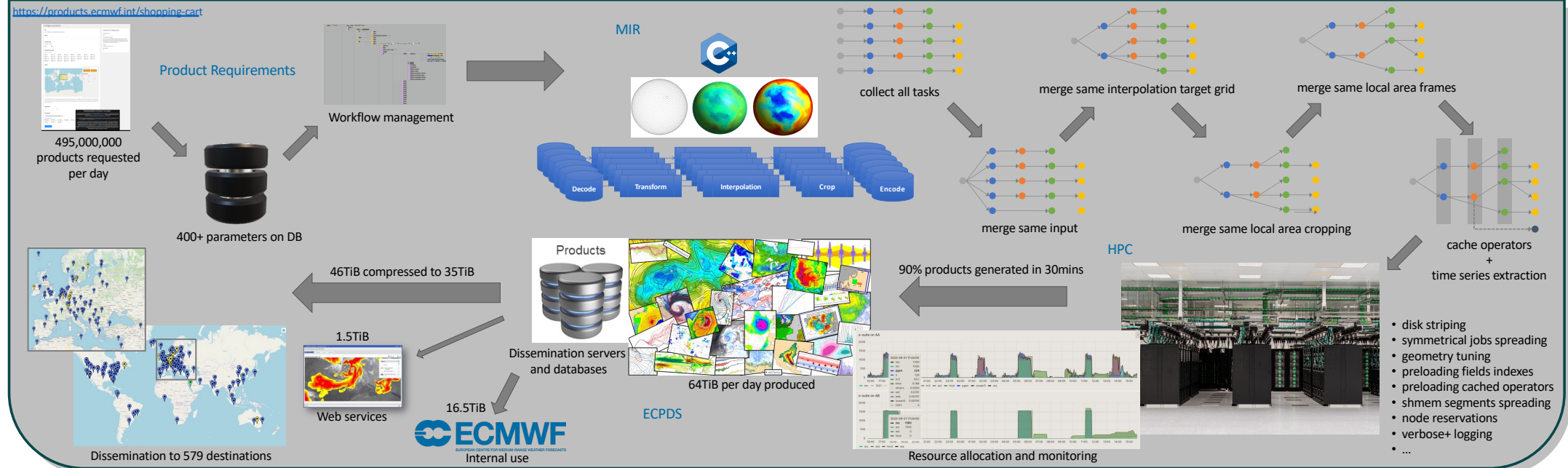
D. Decremer, E. Danovaro, I. Hadade, T. Quintino, P. Maciel, E. Pidduck, B. Raoult, S. Smart



48r1 Cycle upgrade

- Ensemble System Resolution $T_{CO639} \rightarrow T_{CO1279}$
- Extended Ensemble System Size $50+1 \rightarrow 100+1$
- Ensemble system split
- Decommission of overlap streams
- CCSDS packing
- New products
- New derived statistical products
- New soil levels
- IFS model upgrades
- Upgraded orography and coastlines
- opendata catalogue expansion
- ...

→ 2.5X increase in processed volume



Find us
<https://www.ecmwf.int>
<https://products.ecmwf.int/shopping-cart>
<https://confluence.ecmwf.int/display/FCST/Implementation+of+IFS+Cycle+48r1>

Contact info
 Dr. Damien Decremer
 Ph.D.
 ✉ damiendecremer@ecmwf.int