

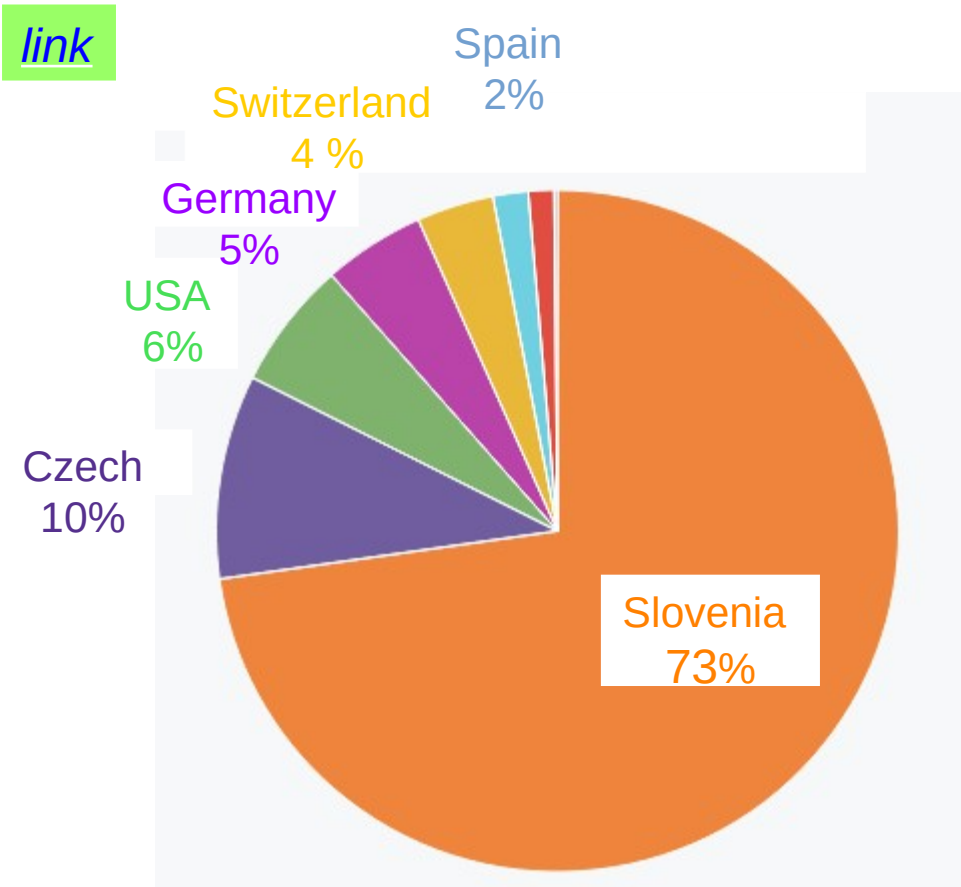
# Usage of HPC/GPU

*Frédéric Derue, LPNHE Paris*

Calcul ATLAS France (CAF) meeting  
16<sup>th</sup> September 2021

- **HPC resources are not pledged**

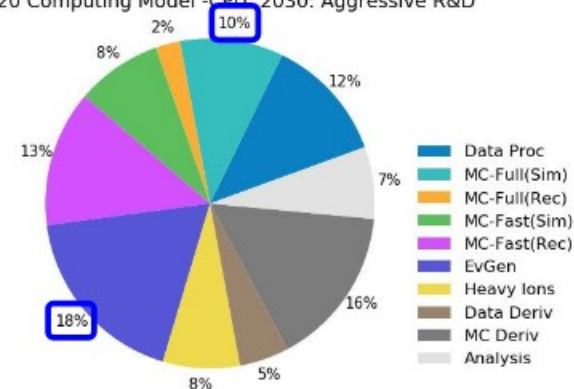
- represents 34% of all HS06 usage, GRID 52%



## R2R4: CDR Outcomes and Observations

- Our models indicate we can do physics without GPUs or HPCs
  - But the last months have demonstrated how much HPCs (x86 based) could provide if we are able to use them!
  - Lots of ATLAS **grid cycles** go to common apps like G4 & Sherpa
    - These are not strictly up to us, but we will benefit from common work
    - Important to continue to engage with these groups
- We don't have a silver bullet
  - No single dominant application to optimize right now
  - Picture could always change if some items are improved!

ATLAS Preliminary  
2020 Computing Model - CPU; 2030: Aggressive R&D



- CDR Recommendations for ATLAS: