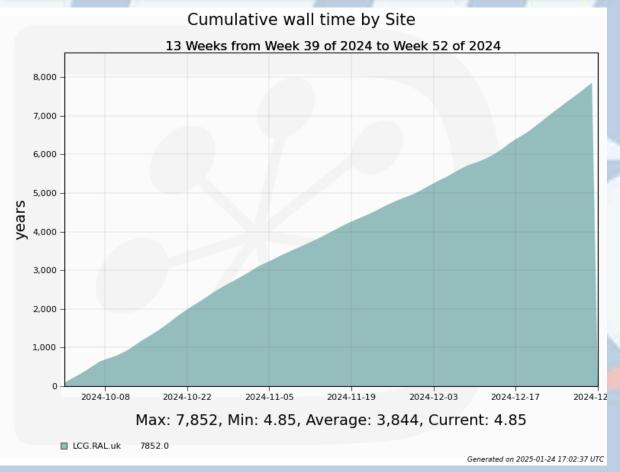
Resource Review alexrg Meeting (2024 Q4)



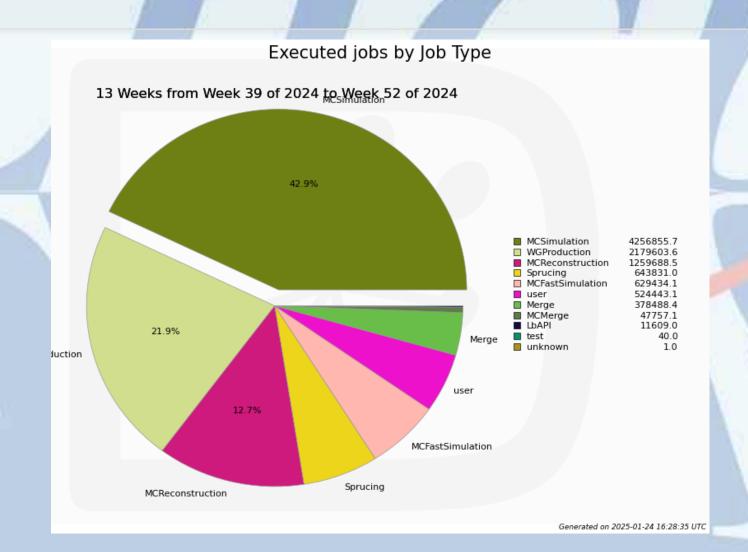
## Computing resources



- Normalized values from LHCb can not be trusted
- Using raw walltime, we have:
  7852\*365\*14.3/92 = 445473HS23
  - 14.3 is an updated normalization factor after the introduction of 2023 Gen
  - Pledge is 180kHS23 < 445kHS23</li>

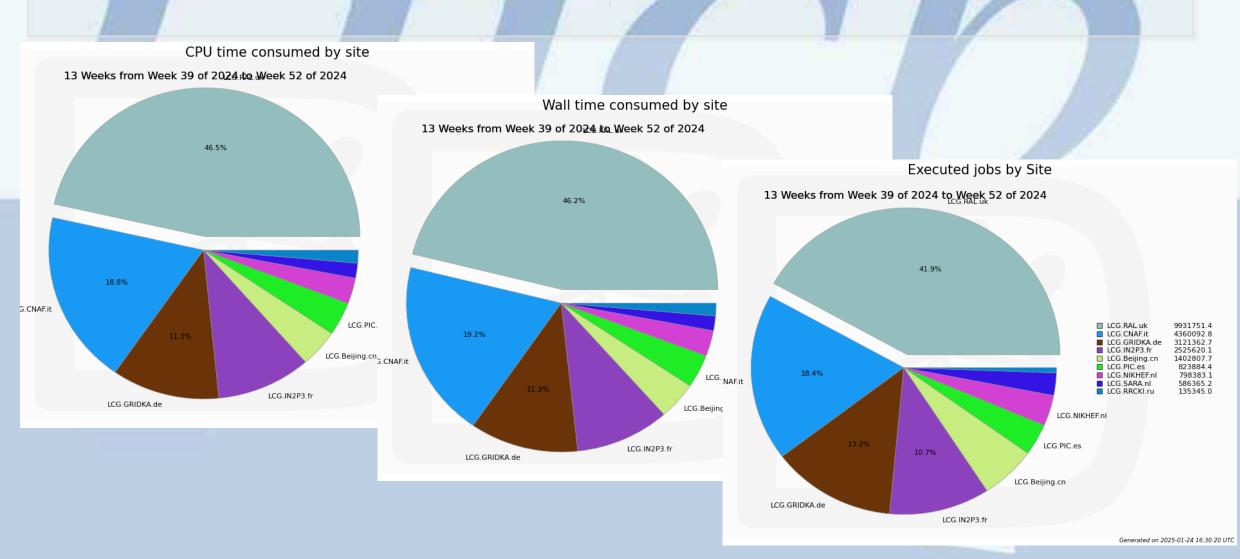
## Computing resources

A lot of Sprucing and WGProd jobs, due to the data taking + reprocessing campaign.



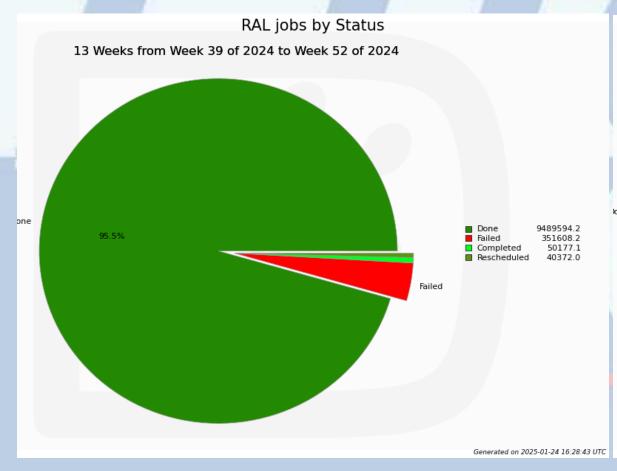
## Comparison

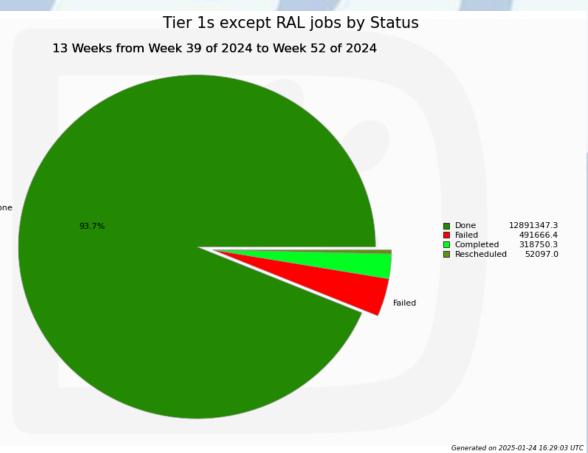
RAL provided the most computing resources for LHCb among Tier-1 sites. Even more than the usual share (33%).



## Comparison

- RAL Job failure rate is comparable to other T1s
  - Higher than usual due to nproc issue





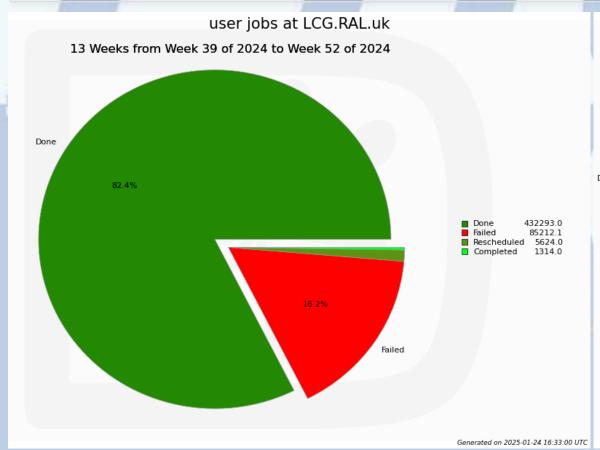
## Comparison

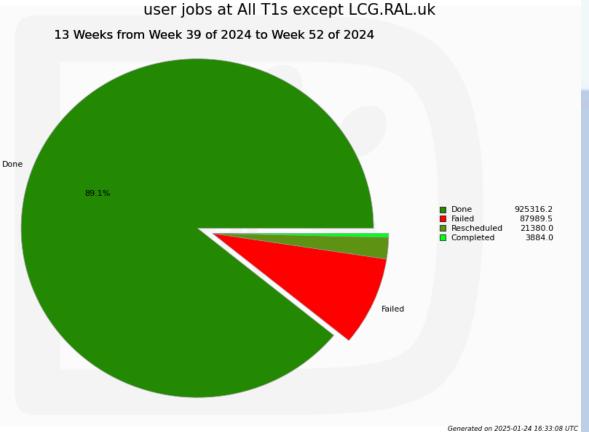
## The same is true for "wasted" CPU Time/walltime



## Comparison (User Jobs)

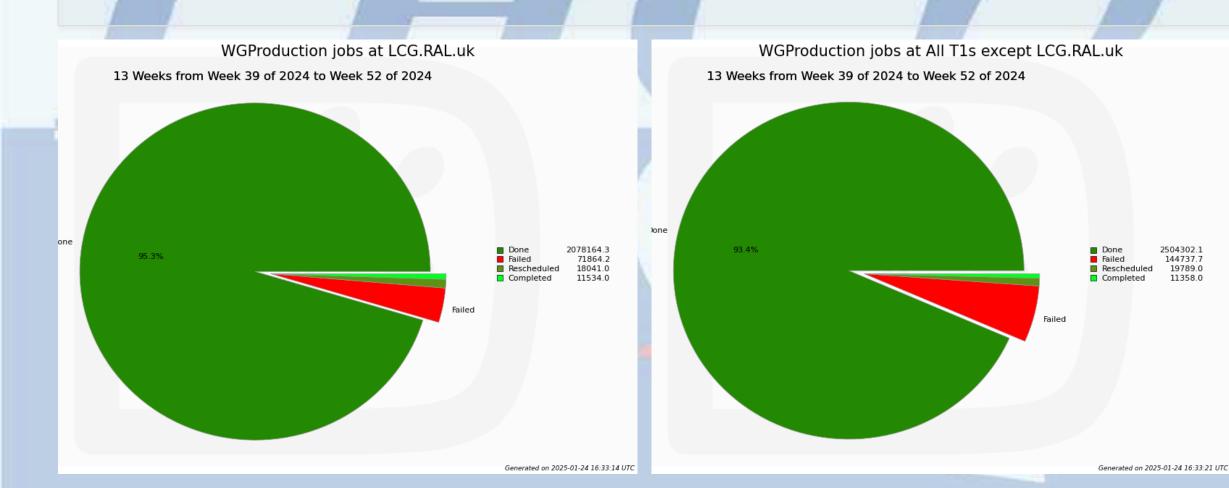
- Among all job types, user jobs have one of the highest failure rates
- For RAL it is higher than for the other T1s
  - Most probably due to nrpoc limit issue





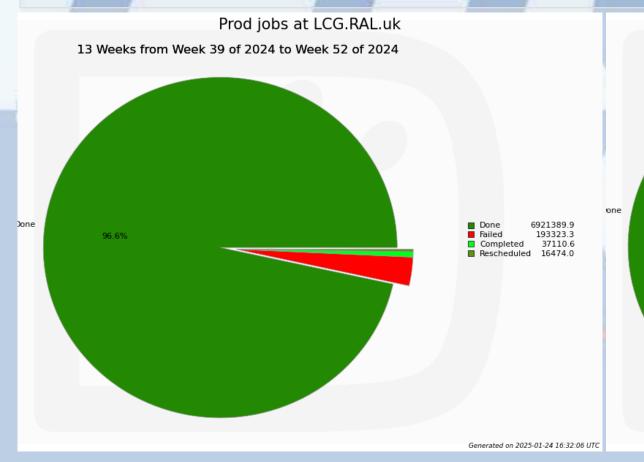
# Comparison (WG Prod)

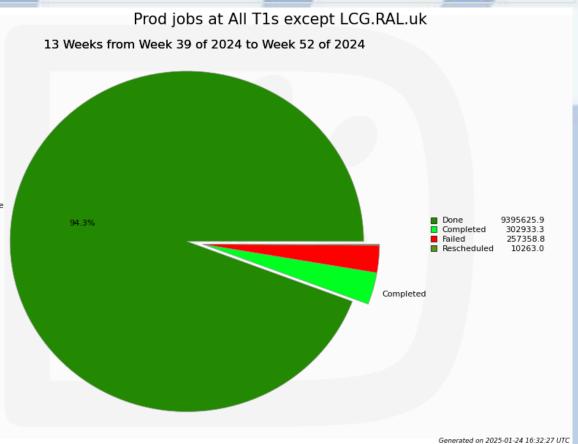
 For WGProduction jobs, failure rate at RAL is lower than at the other Tier-1s



## Comparison (Sim+data proc)

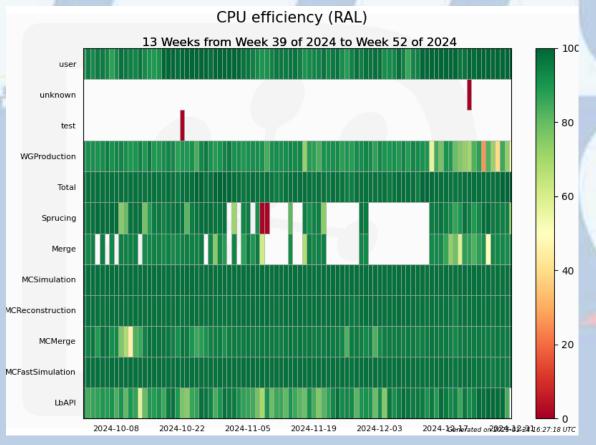
- For prod jobs failure rate is higher than usual
  - But comparable with others

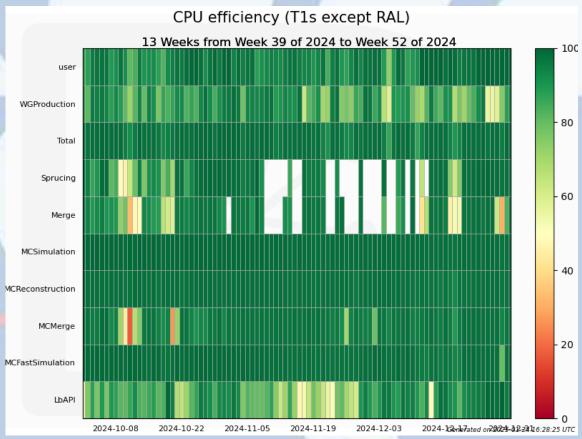




Efficiency

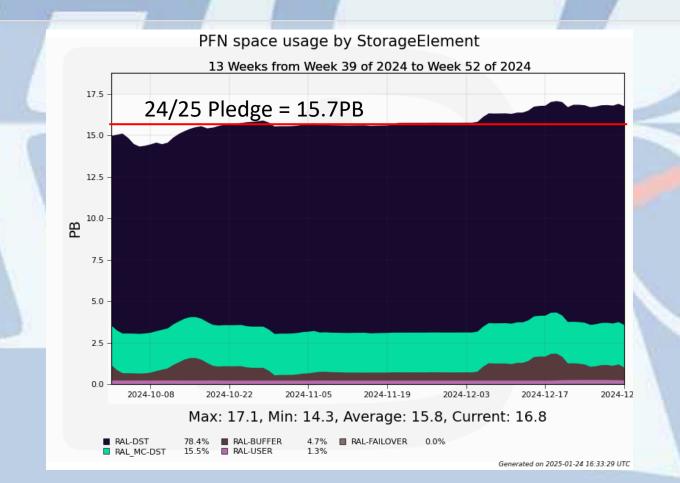
Good efficiency for almost all job types





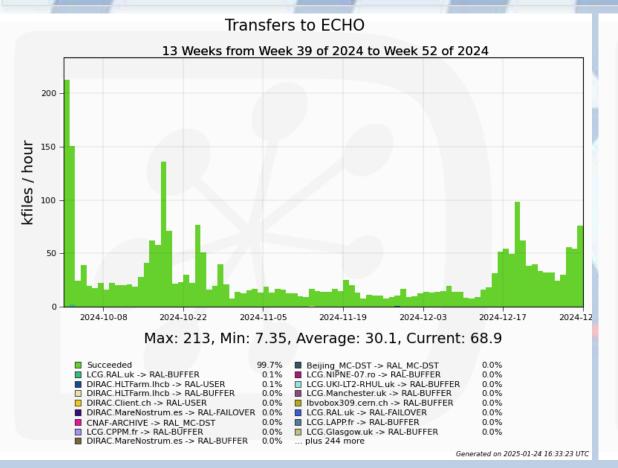
### Disk Usage

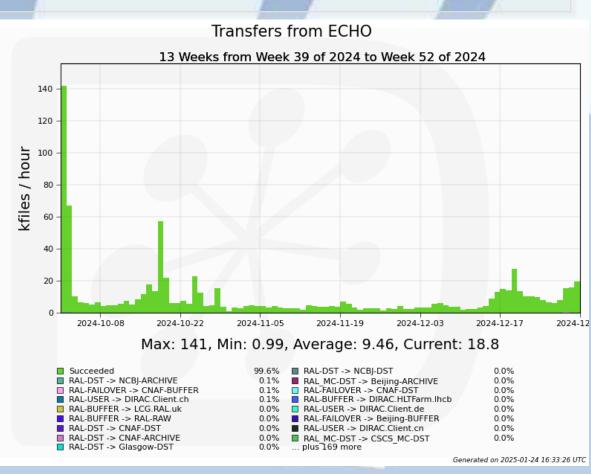
- Increased usage due to reprocessing campaign
  - 24/25 pledge was exceeded

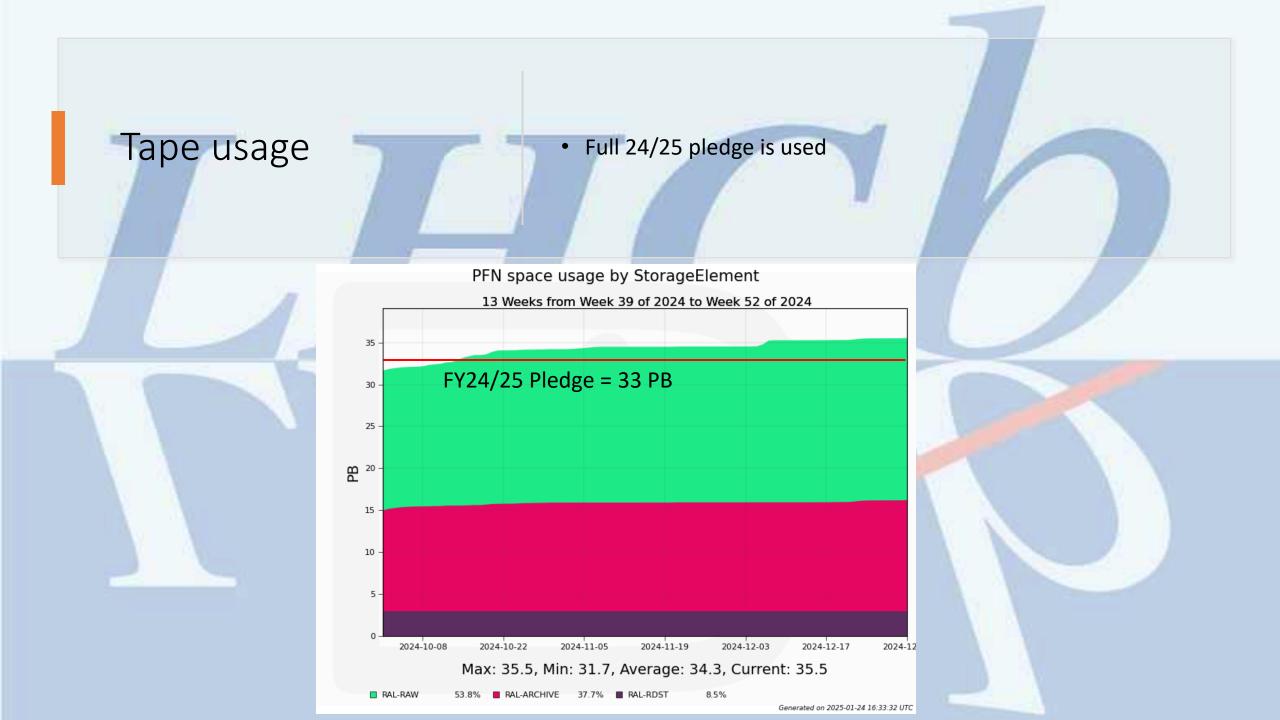


#### Disk transfers

#### Good transfer efficiency, no significant problems

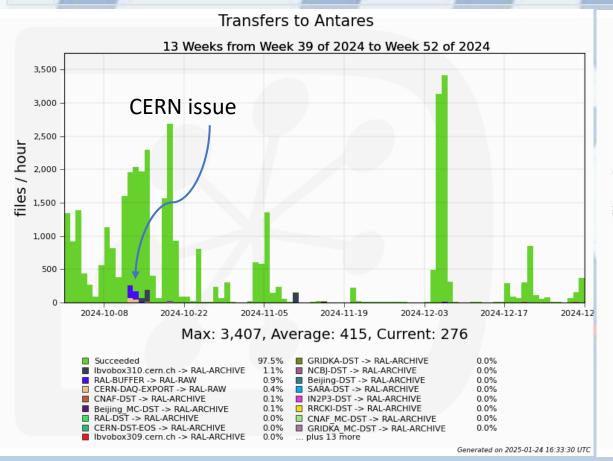


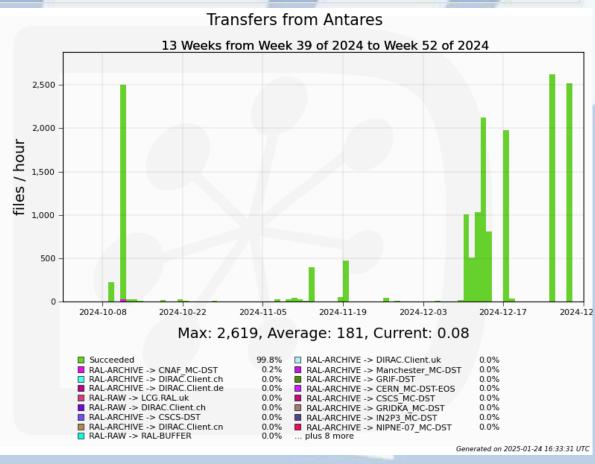




Good transfer efficiency, with a few known issues

### Tape transfers





#### ETF tests

- Overal A&R looks good
- Migration to EL9 container (and newer arc client version) for test infrastructure reduced noise in CE tests
- Some minor fixes in tests (e.g. profile refactoring)



