DUNE signoff

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Introduction

- Computing effort not yet mature (still)
  - Computing model not yet finalised
  - Metrics and plots not yet readily available
    - Still understanding / rationalising different sources
  - Running off shared instances
    - Job submission and monitoring
    - FIFE, UCSD glide-submission, ...

- Computing consortium working on improving the situation

- Running much fewer jobs than expected
  - Known issue (still)

- RAL overall running quite well for DUNE
  - Many thanks!

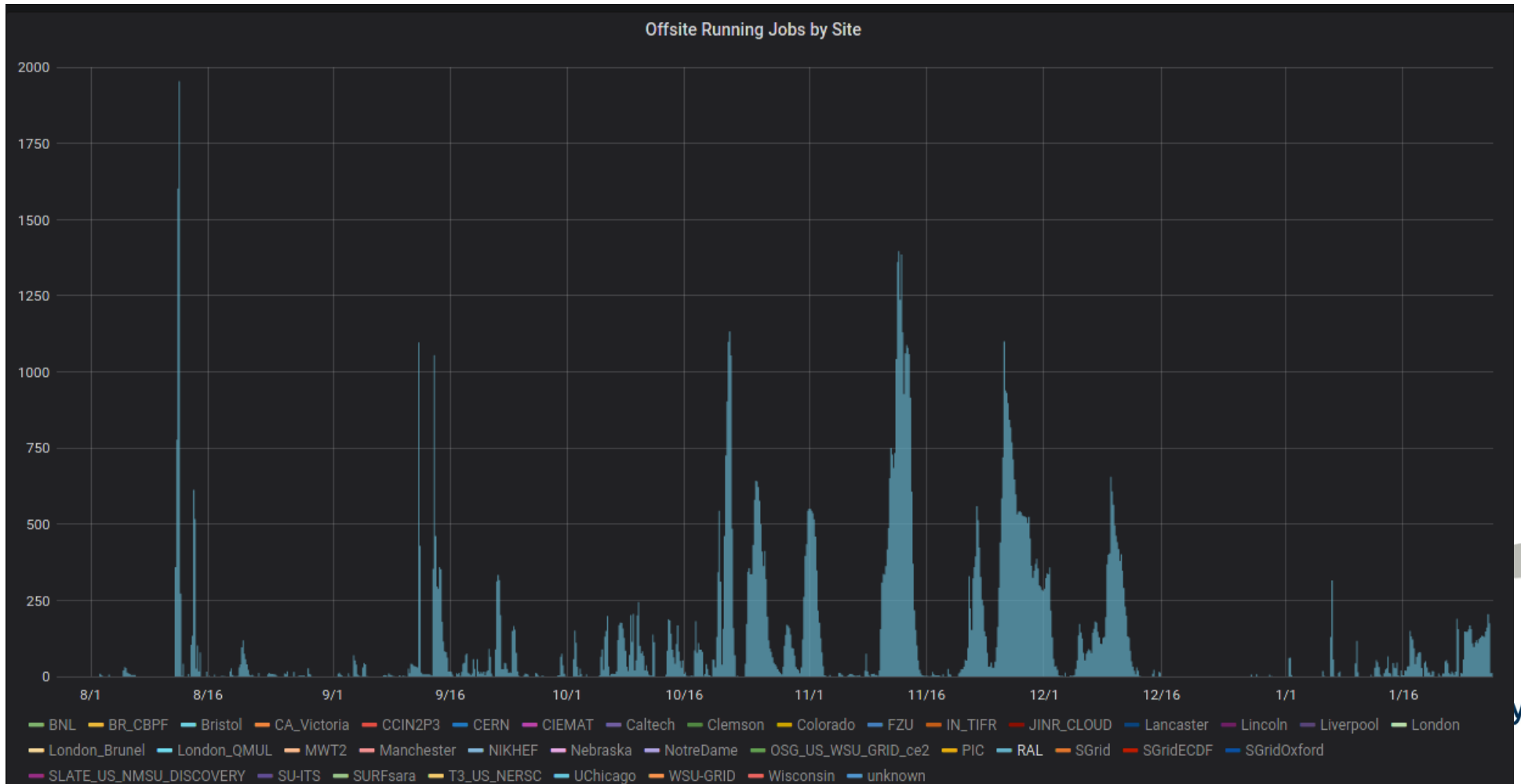**Science & Technology**
Facilities Council
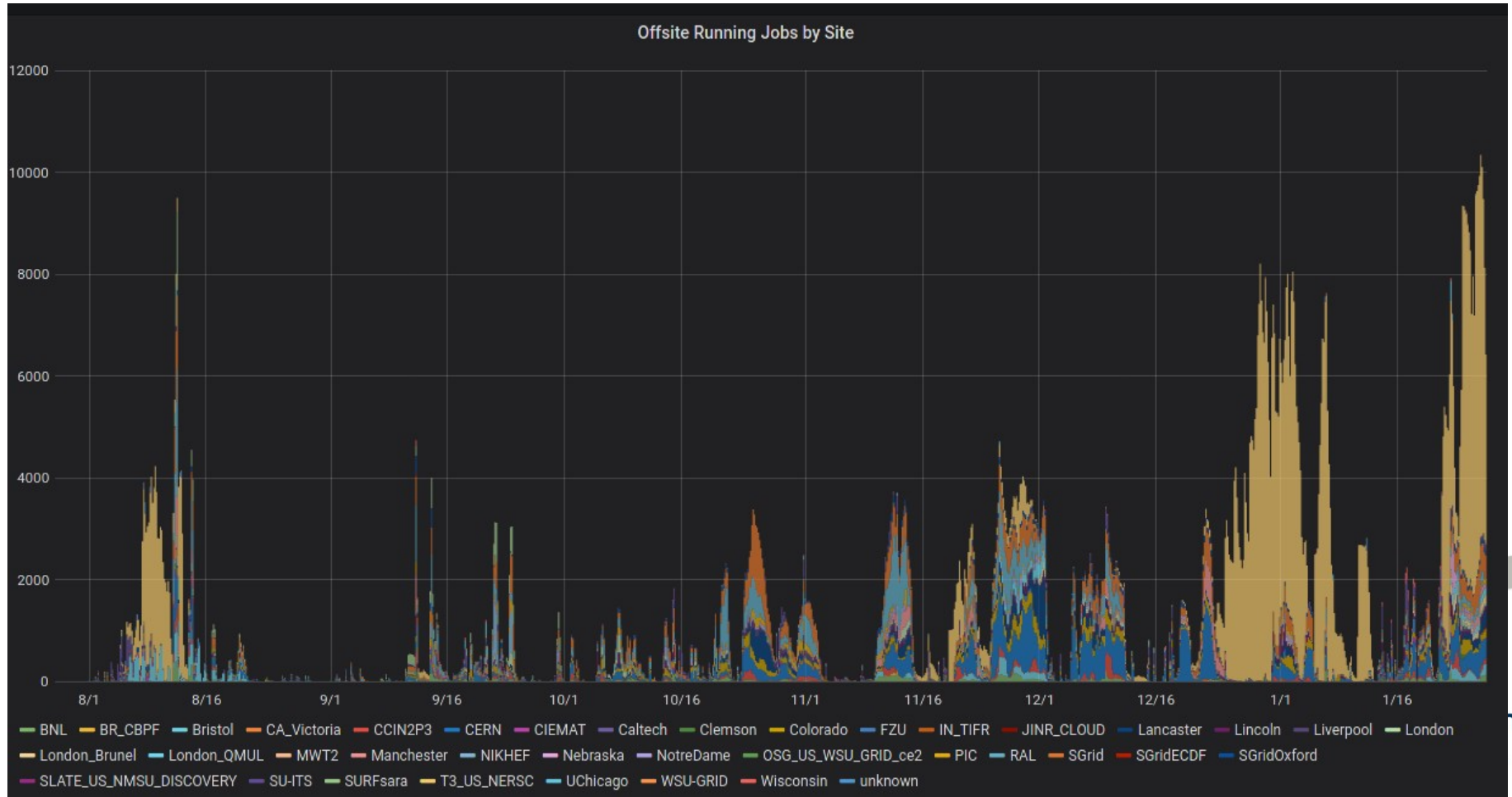
DUNE jobs summary

- Most jobs are multi-core
  - 8-core jobs at RAL
  - Lots of TensorFlow usage
- Software not yet mature enough to run all needed simulations
  - Still too bloated to run on the grid
  - Some effort from DUNE in moving users to "off site" (non-Fermilab)
- Too little computing manpower
  - Spread too thin to worry about smaller details
  - Ongoing work
- glide-in WMS probably not yet properly tuned for RAL
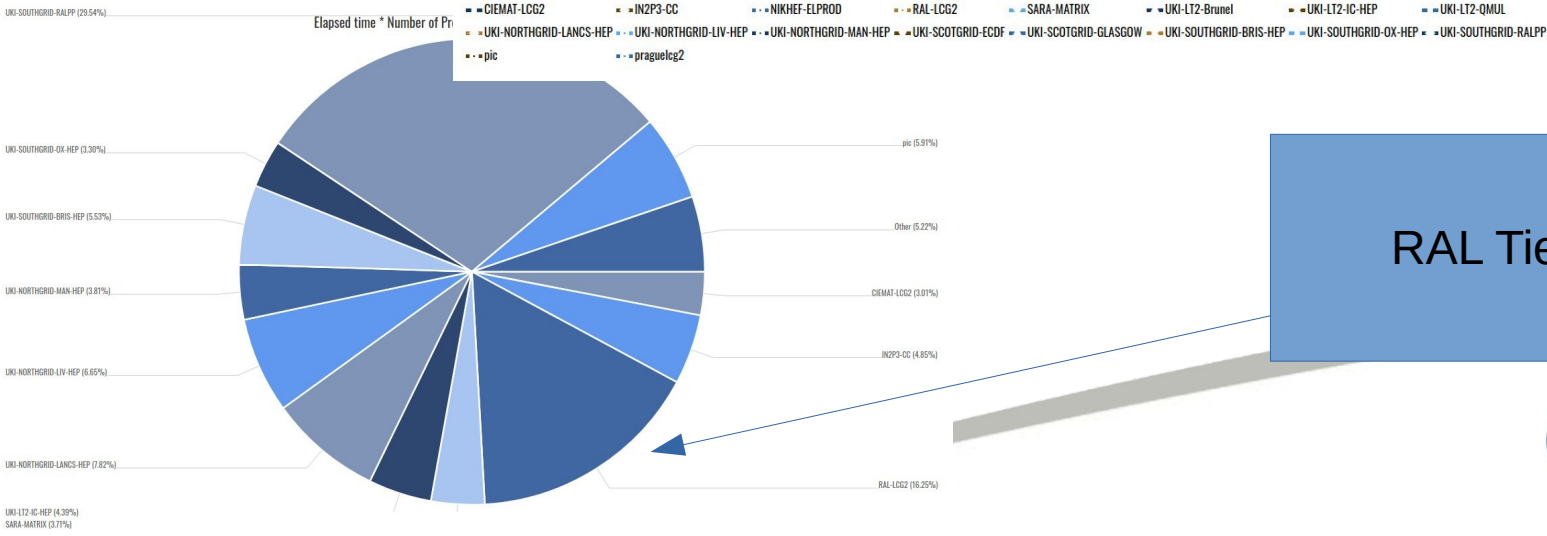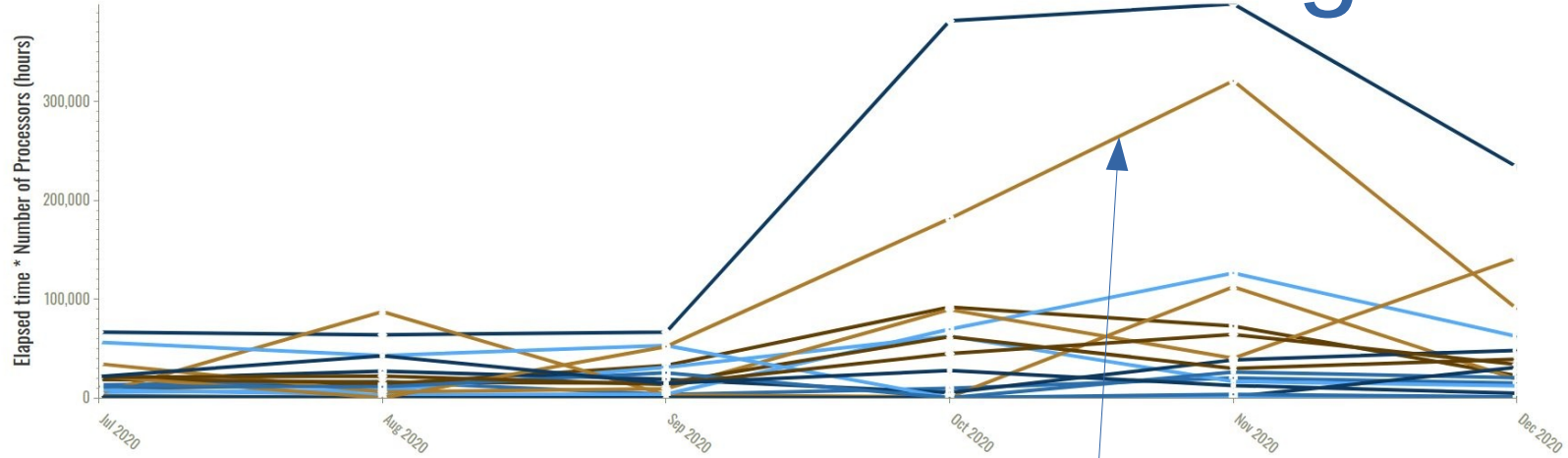 - A few attempts have been made
  - Not clear what is the issue.

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CPU used at RAL : FIFEMon

Offsite Running Jobs by Site

CPU used at all sites : FIFEMon

Offsite Running Jobs by Site

CPU used from EGI Accounting

Storage used at RAL

➢ From DUNE rucio

(1.19) -bash-4.2$ rucio list-rse-usage RAL_

USAGE:

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  used: 955.584 TB

  rse: RAL_ECHO

  updated_at: 2021-01-26 23:23:11

  free: 44.416 TB

  source: storage

  total: 1.000 PB

  rse_id: 74b1c7c3d91f4afd9df68e76b6b79

➢ Mostly stable over many months

➢ Note : Allocation 1PB