

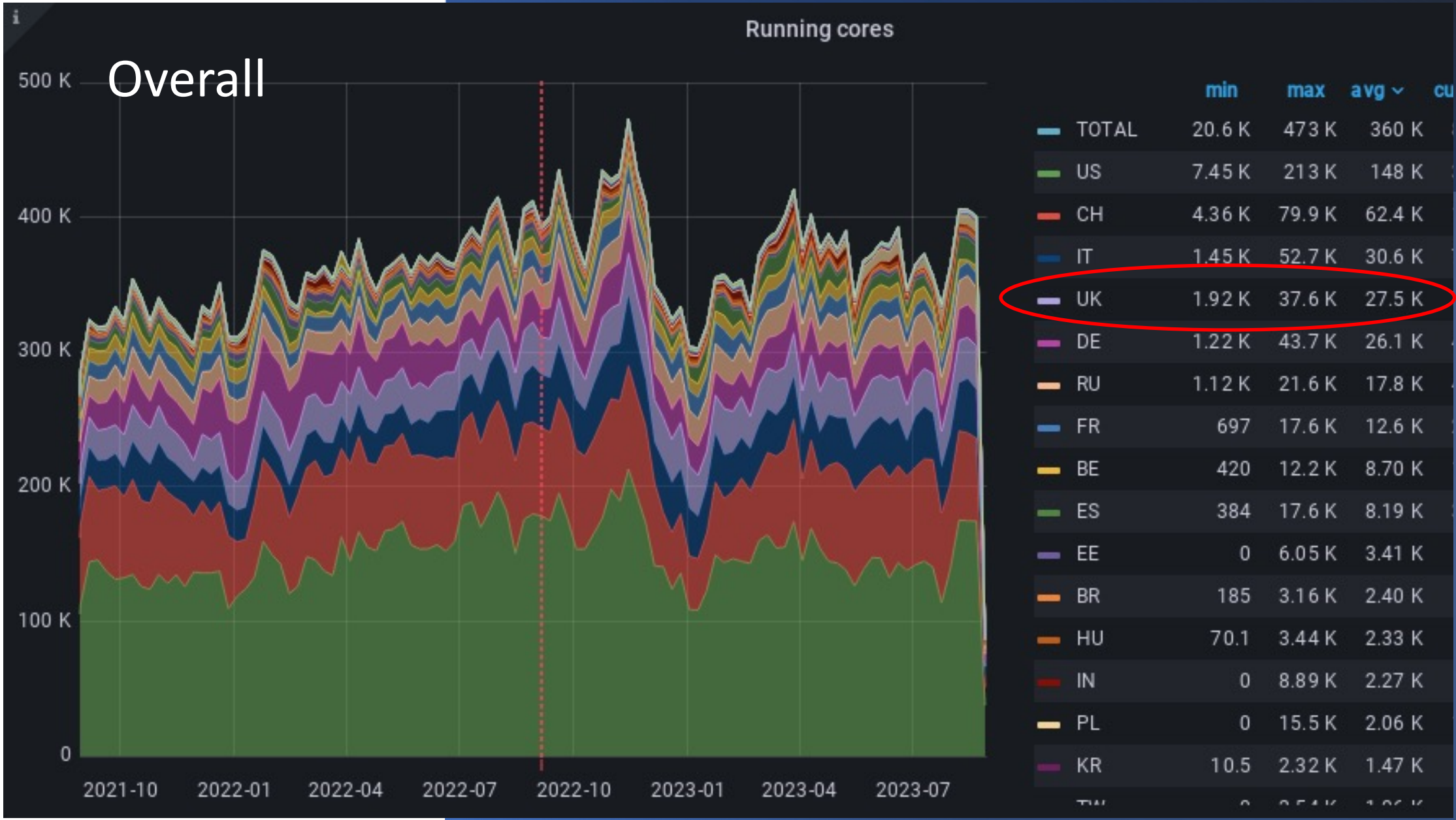
CMS Update

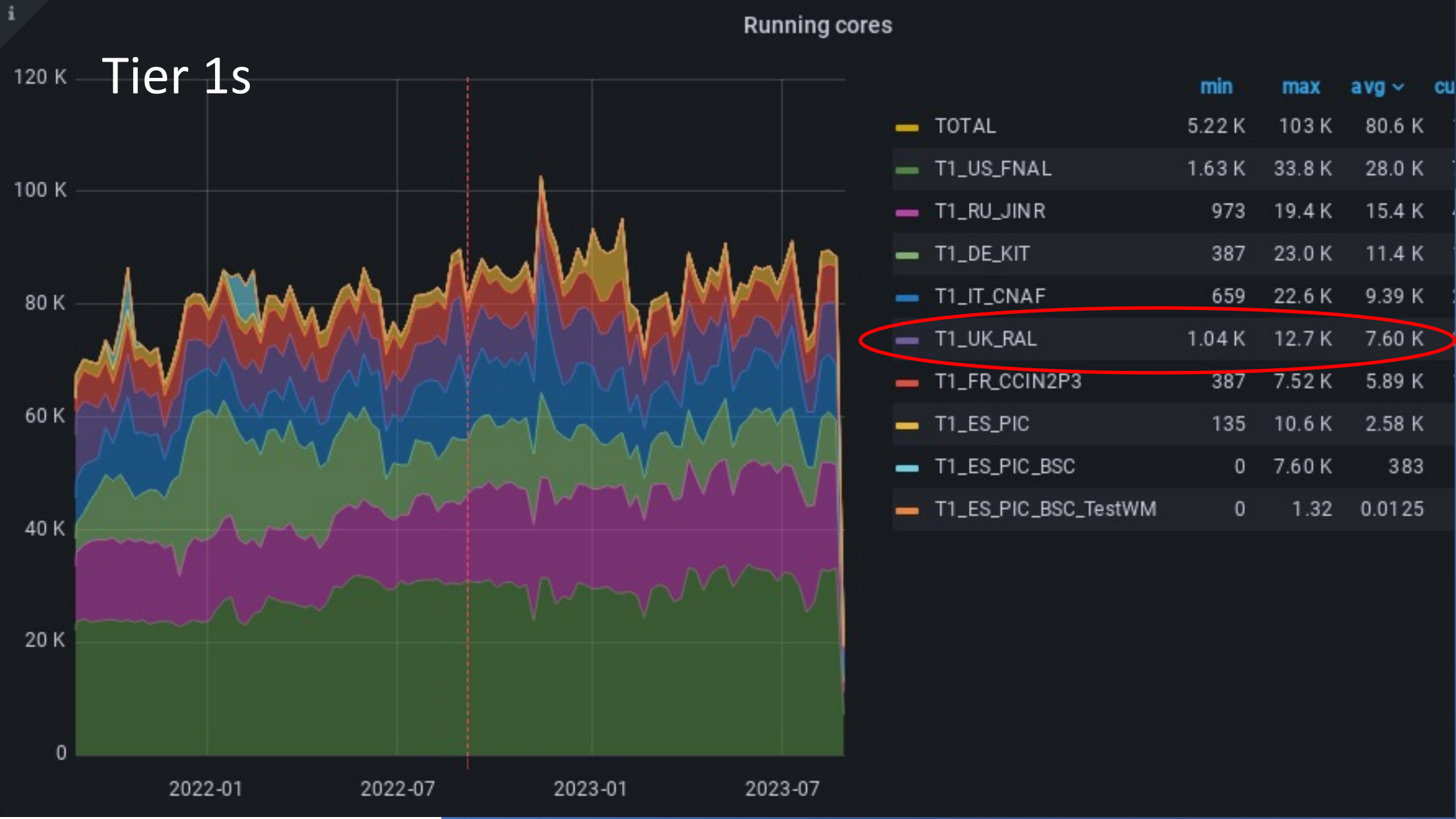
Chris Brew, Katy Ellis, David Colling
GridPP50, Ambleside.

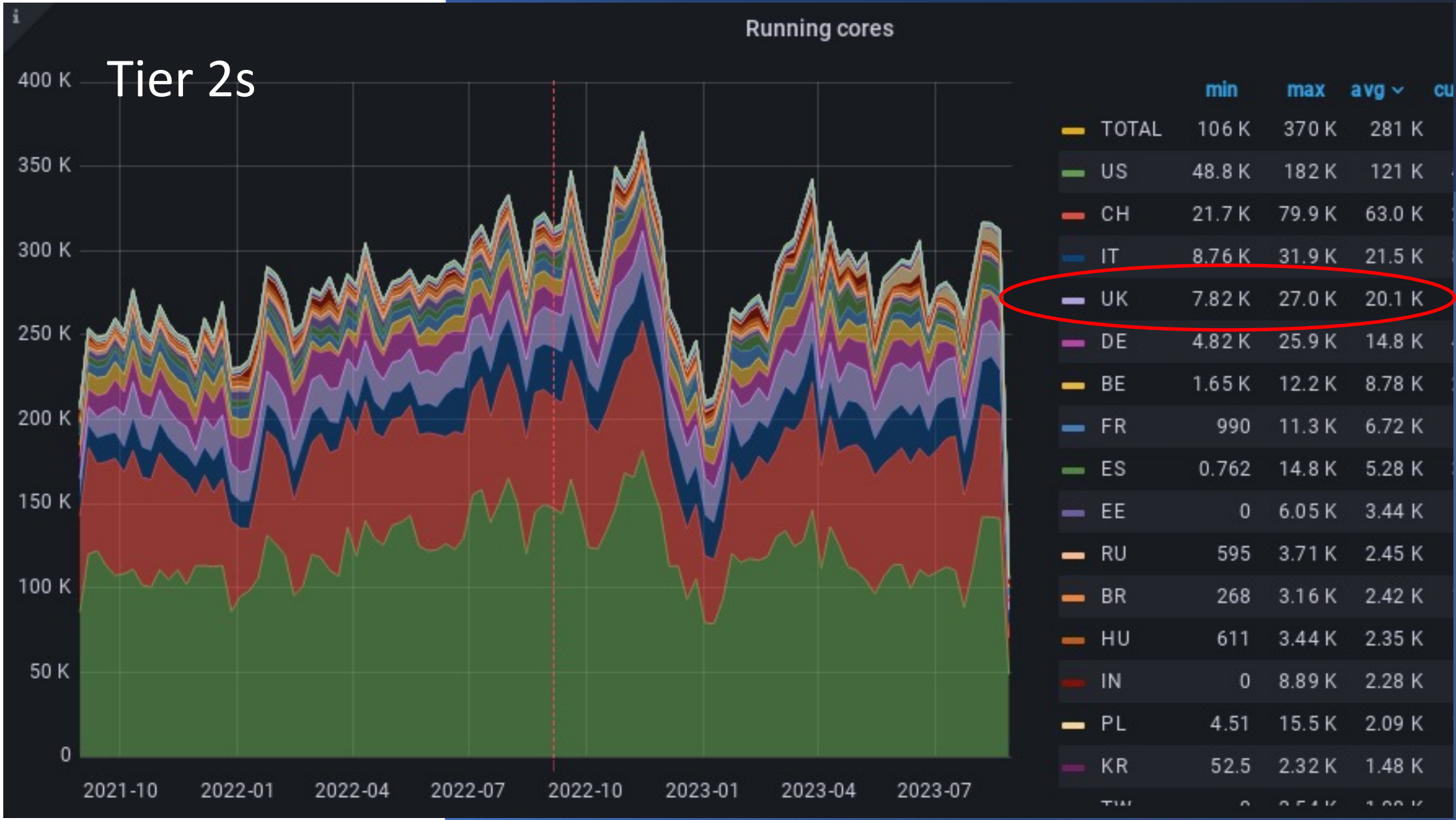
30th August – 1st September 2023

Outline

- UK Status/Performance
- CMS Status/Performance
- Other Things

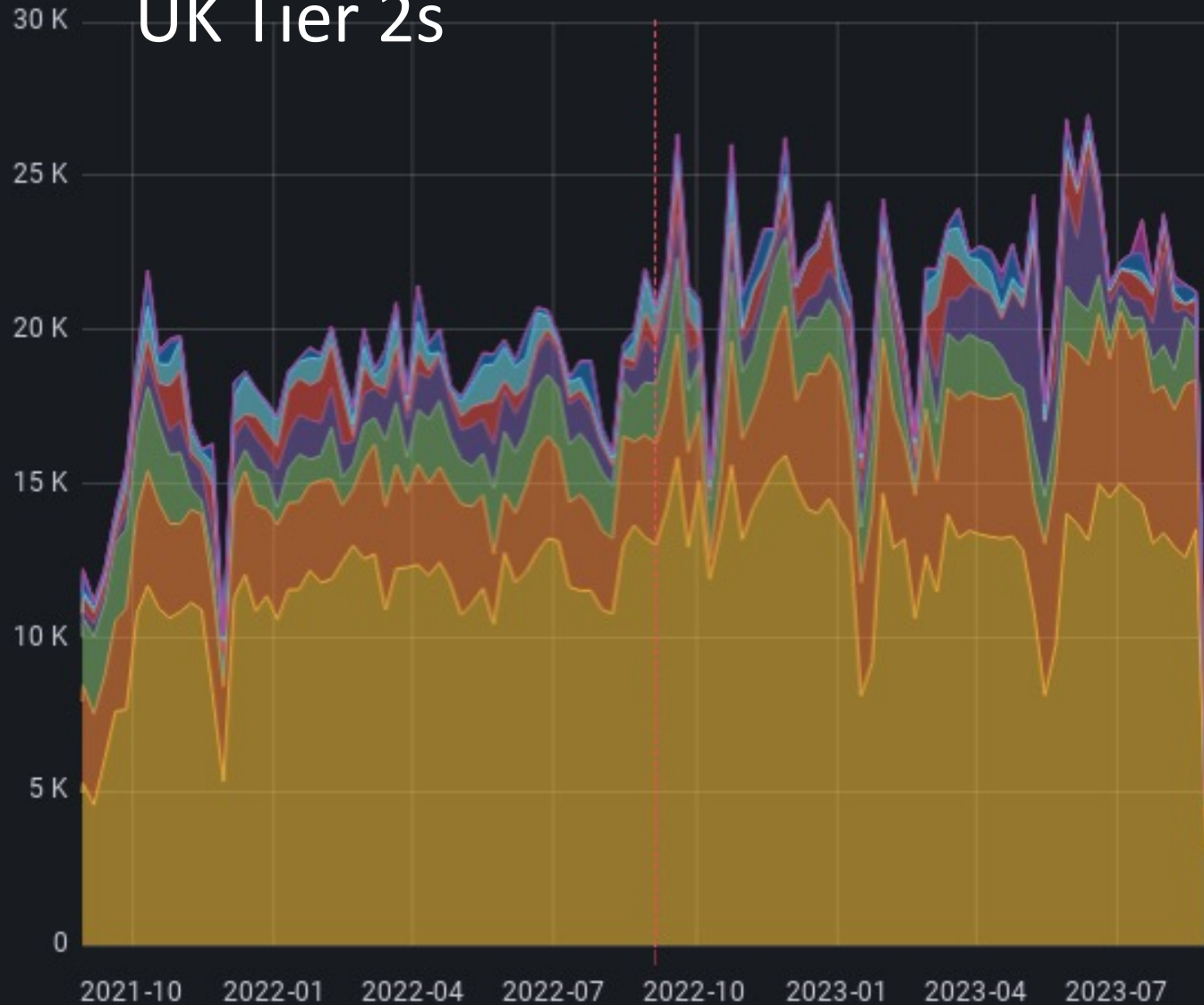






UK Tier 2s

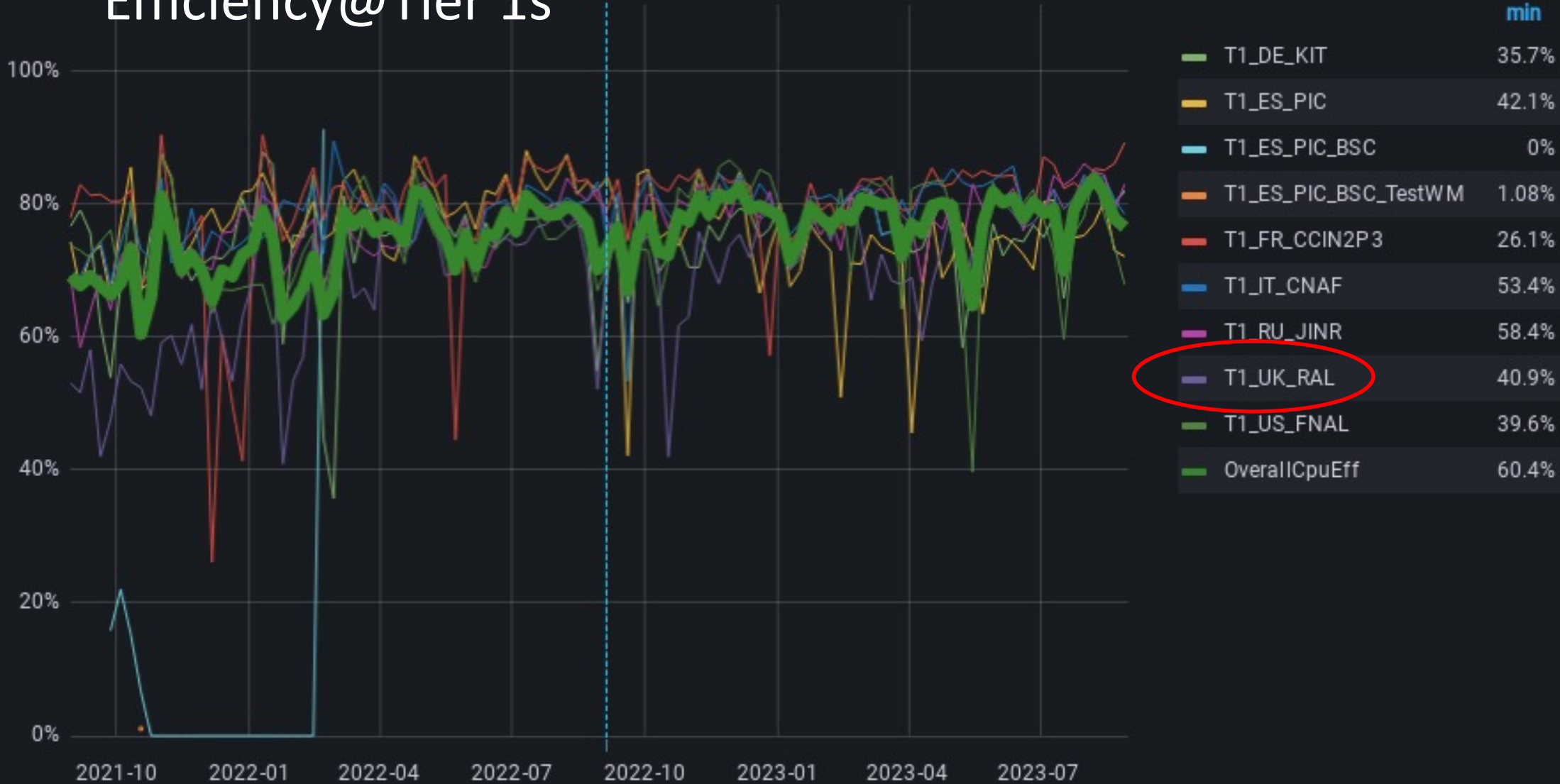
Running cores



	min	max	avg	cu
TOTAL	882	27.0 K	19.9 K	
T2_UK_London_IC	394	15.9 K	12.0 K	
T2_UK_SGrid_RALPP	249	5.70 K	3.55 K	
T2_UK_London_Brunel	161	2.73 K	1.63 K	
T3_UK_ScotGrid_GLA	27.0	6.89 K	1.17 K	
T3_UK_London_QMUL	0	2.34 K	634	
T2_UK_SGrid_Bristol	3.52	1.63 K	491	
T3_UK_London_RHUL	25.1	1.28 K	338	
T3_UK_SGrid_Oxford	8.20	1.11 K	67.5	

Efficiency@Tier 1s

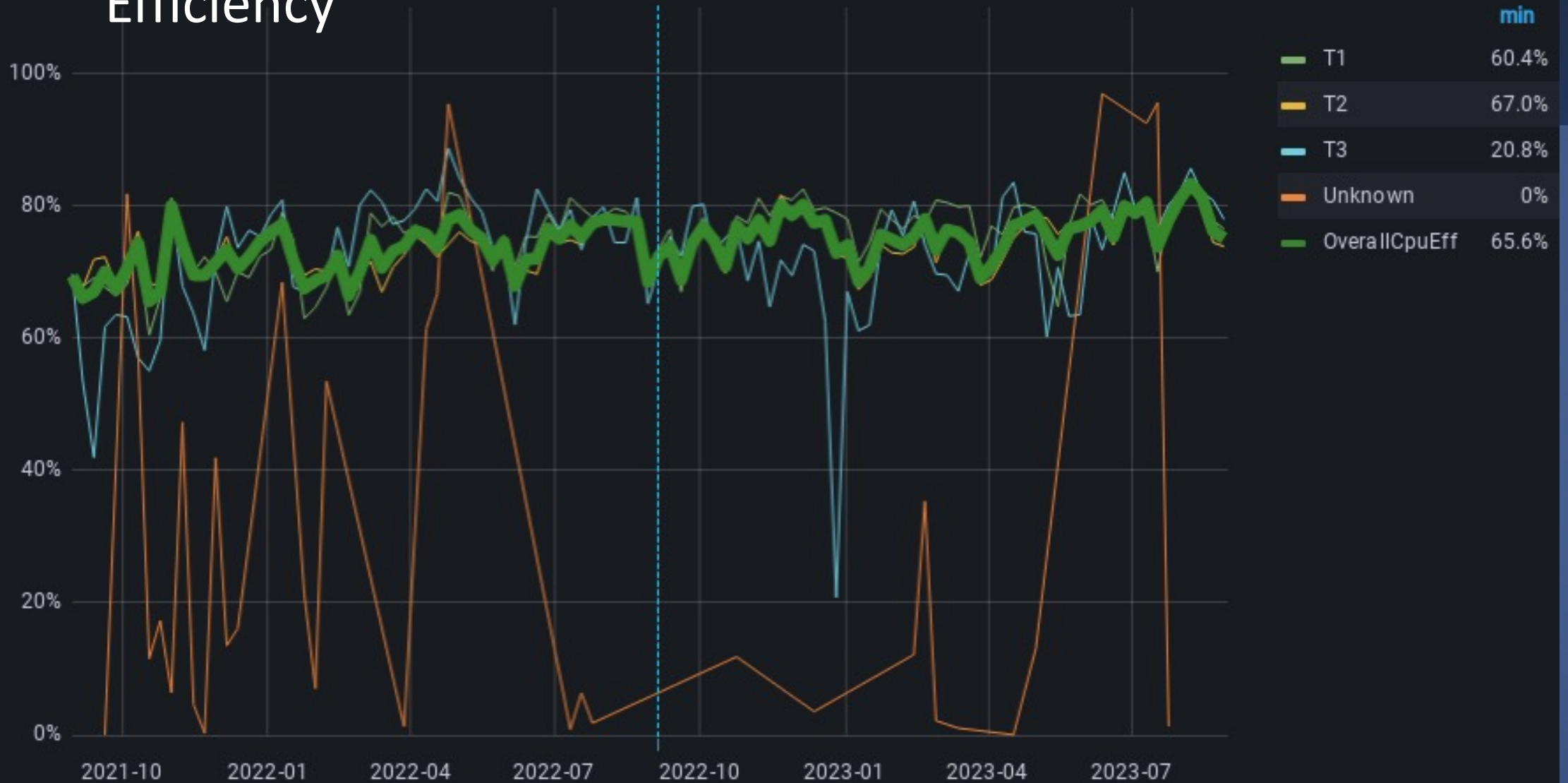
Average CPU efficiency



CMS is getting Better

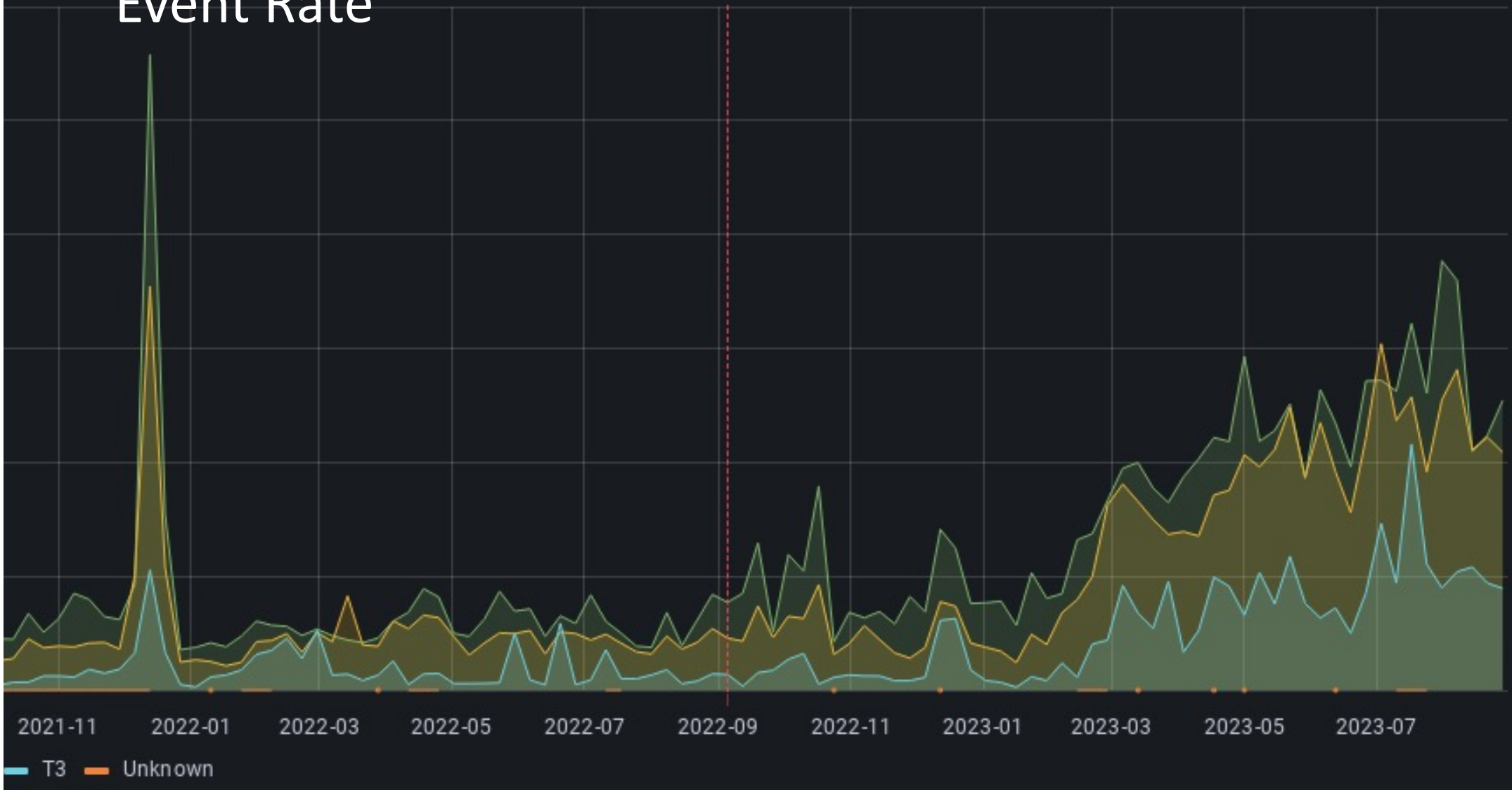
Efficiency

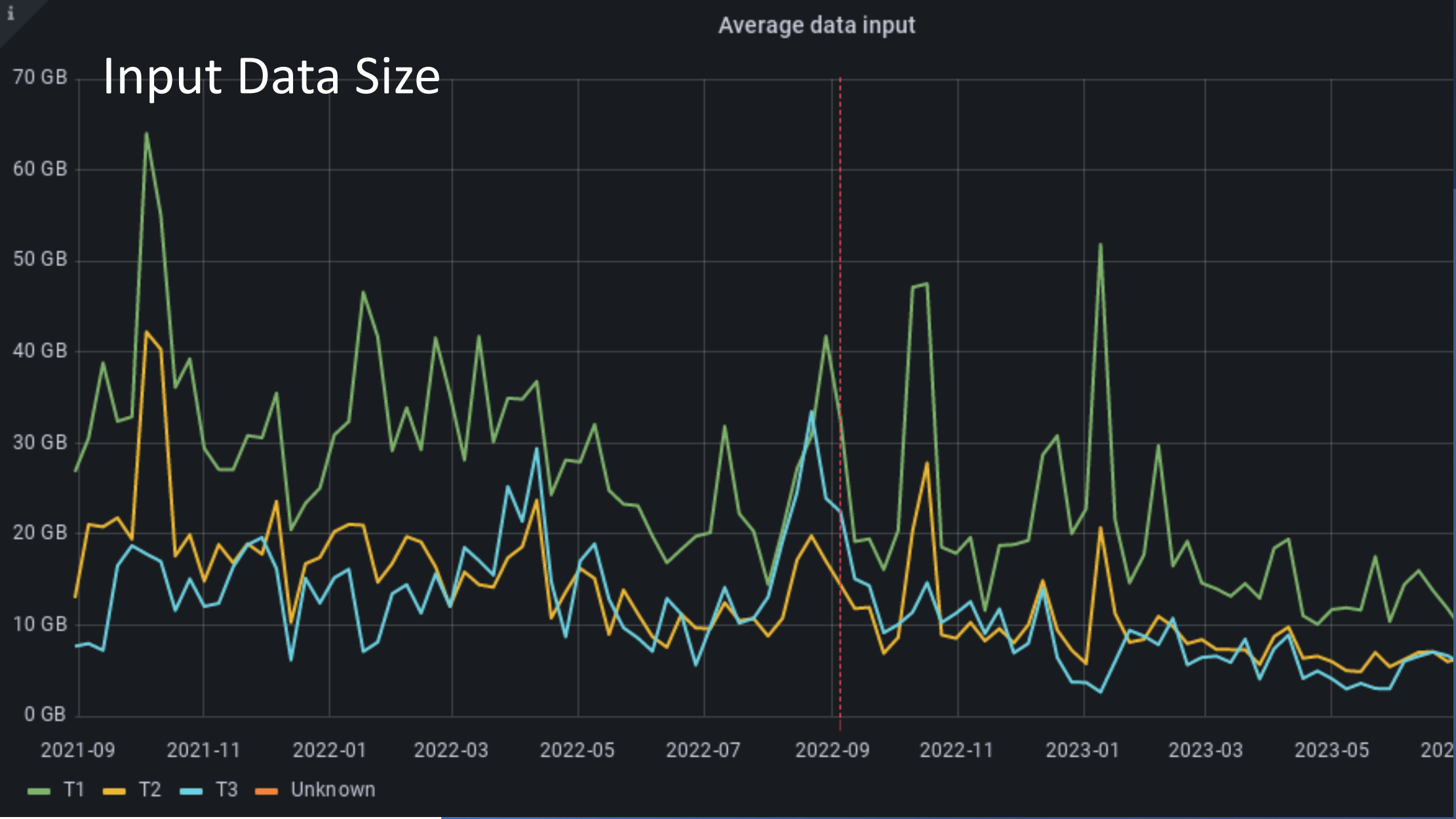
Average CPU efficiency



Event Rate

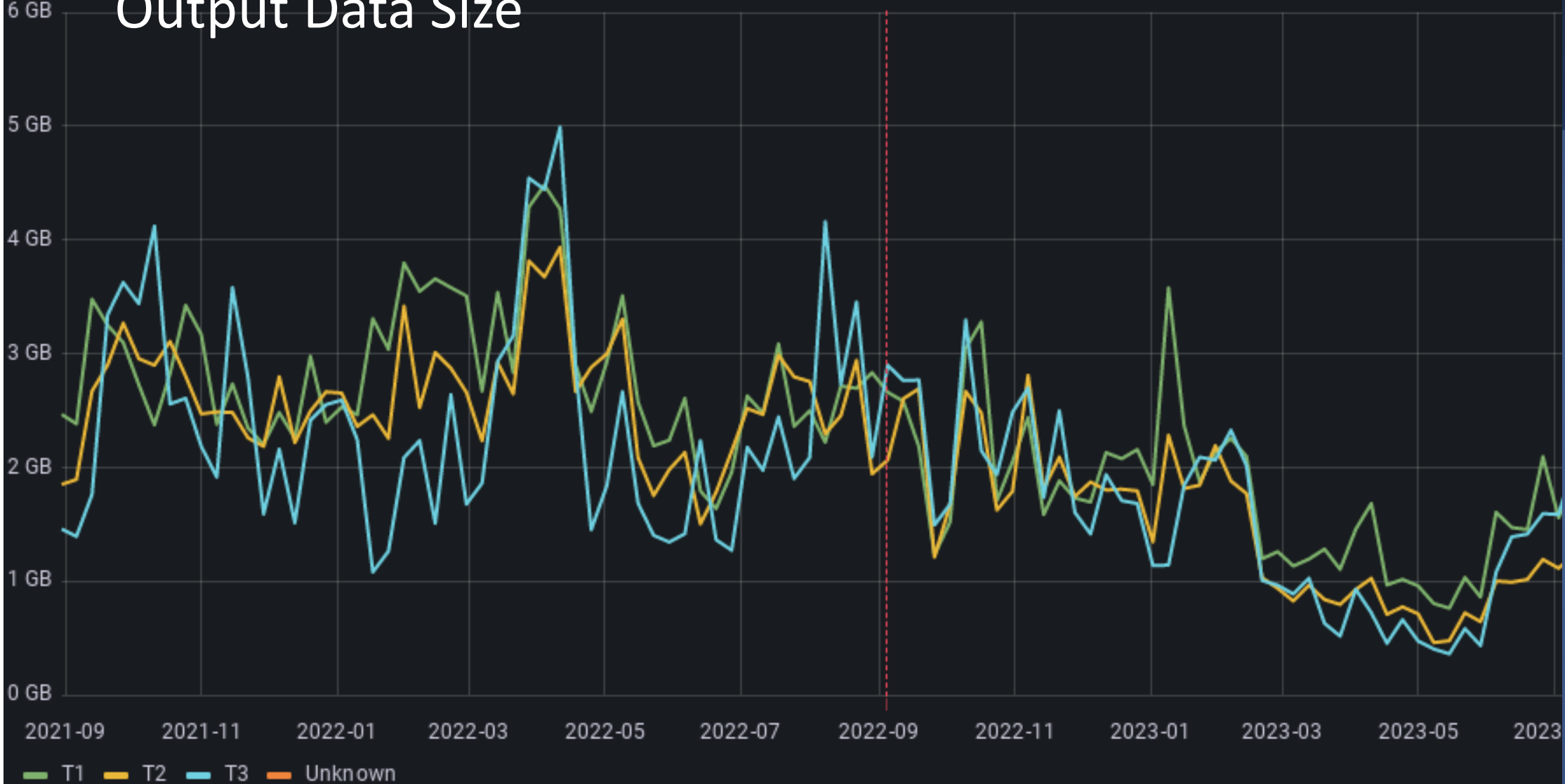
Average event rate





Output Data Size

Average data output



Other interesting things stopping you going home

- CMS Software on ARM

```
[brew@mercury011 COMP]$ ls -d /cvmfs/cms.cern.ch/e18*  
/cvmfs/cms.cern.ch/e18_aarch64_gcc10 /cvmfs/cms.cern.ch/e18_amd64_gcc10 /cvmfs/cms.cern.ch/e18_ppc64le_gcc10  
/cvmfs/cms.cern.ch/e18_aarch64_gcc11 /cvmfs/cms.cern.ch/e18_amd64_gcc11 /cvmfs/cms.cern.ch/e18_ppc64le_gcc11  
/cvmfs/cms.cern.ch/e18_aarch64_gcc12 /cvmfs/cms.cern.ch/e18_amd64_gcc12 /cvmfs/cms.cern.ch/e18_ppc64le_gcc12
```

- We can fill your network pipe
- GPUs in the High-Level Trigger Farm
- Tokens
- Supercomputers

