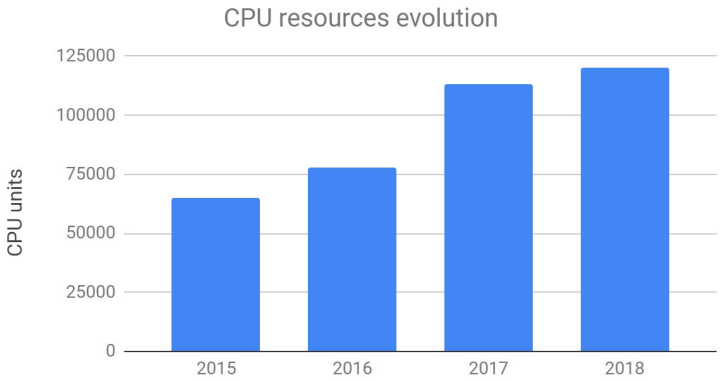
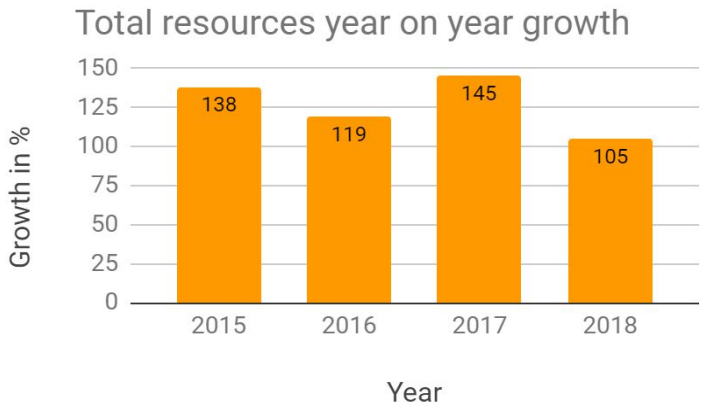
Grid resources share - from MC to analysis

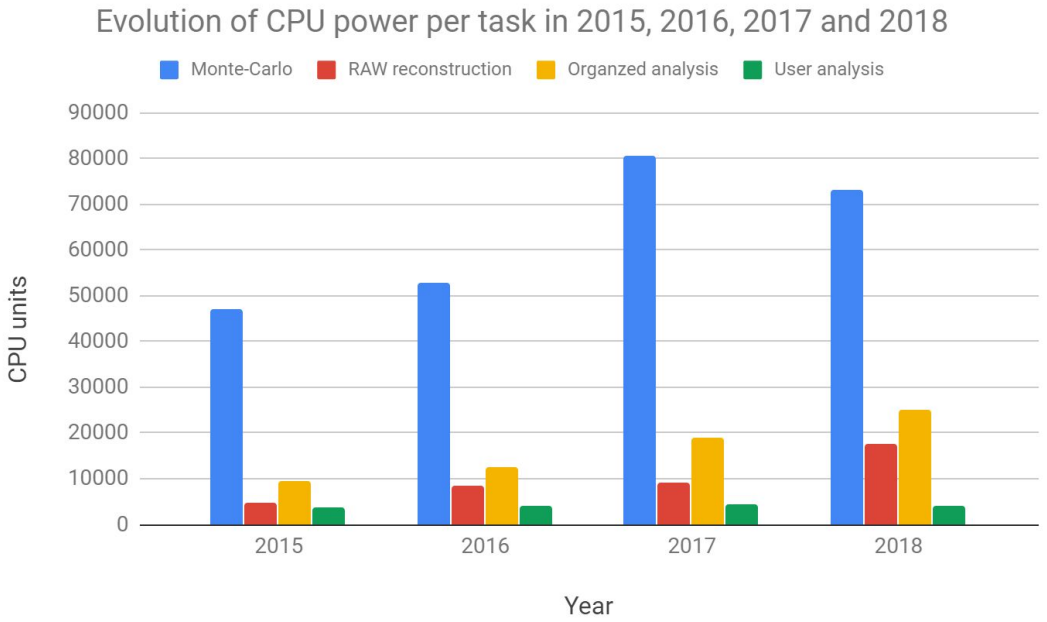
L. Betev

The winter is back!

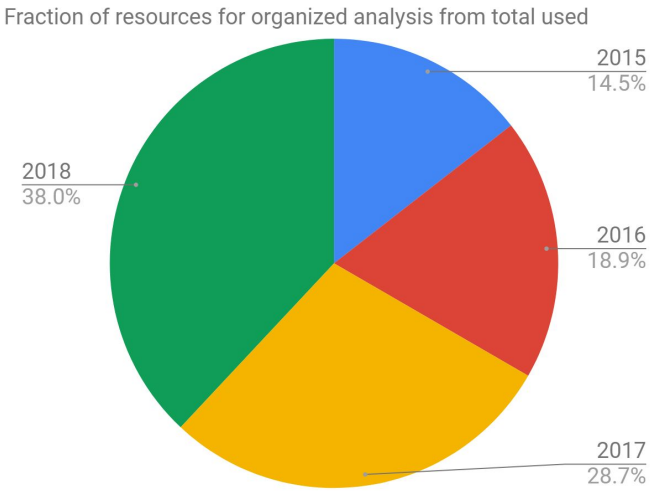
Evolution of CPU power per year and per task

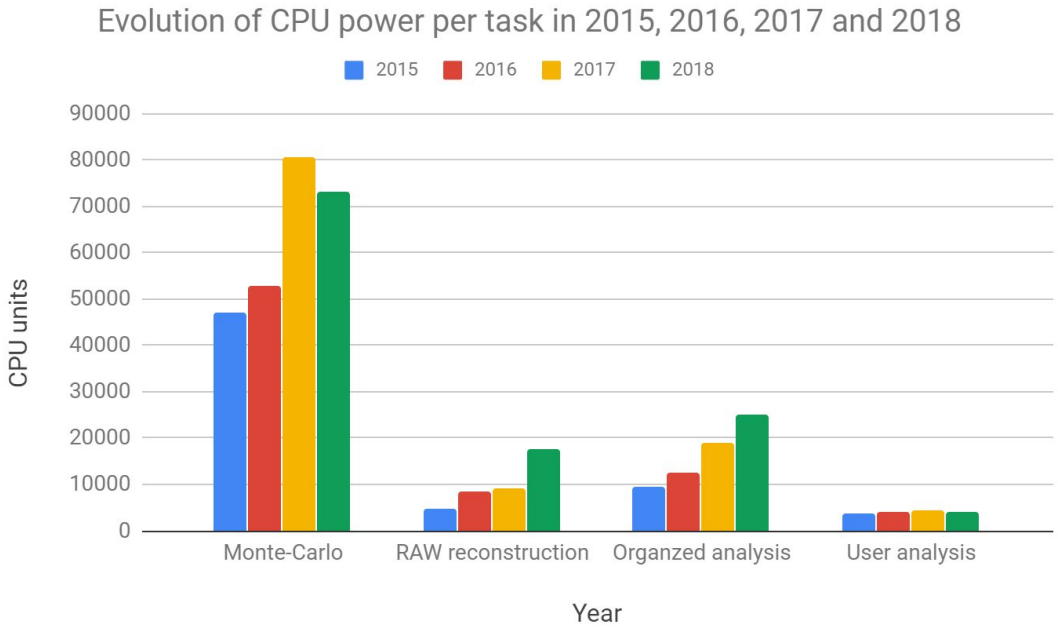




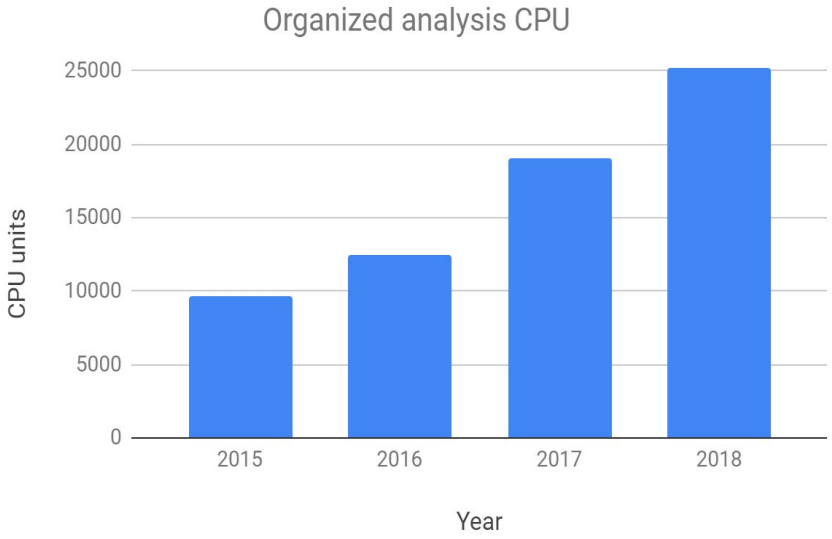


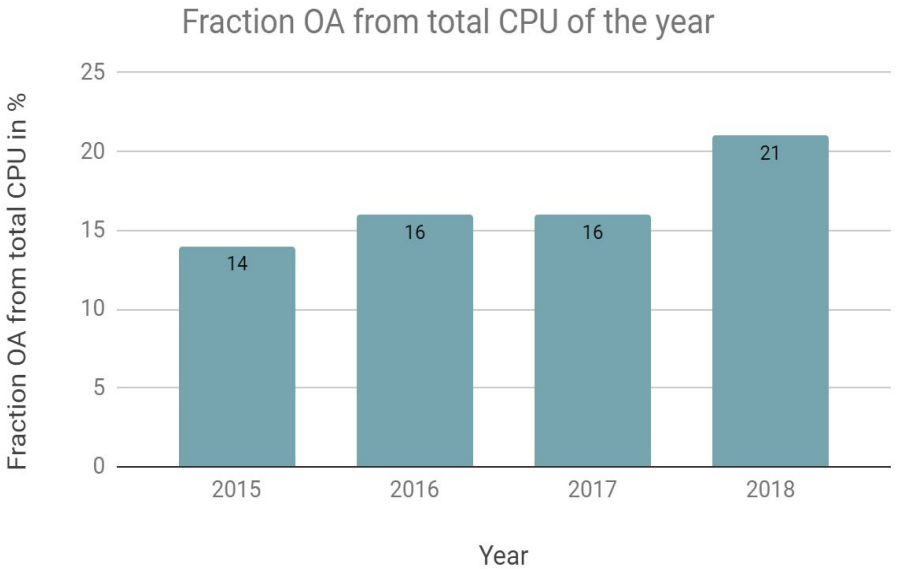
Another view of resources evolution



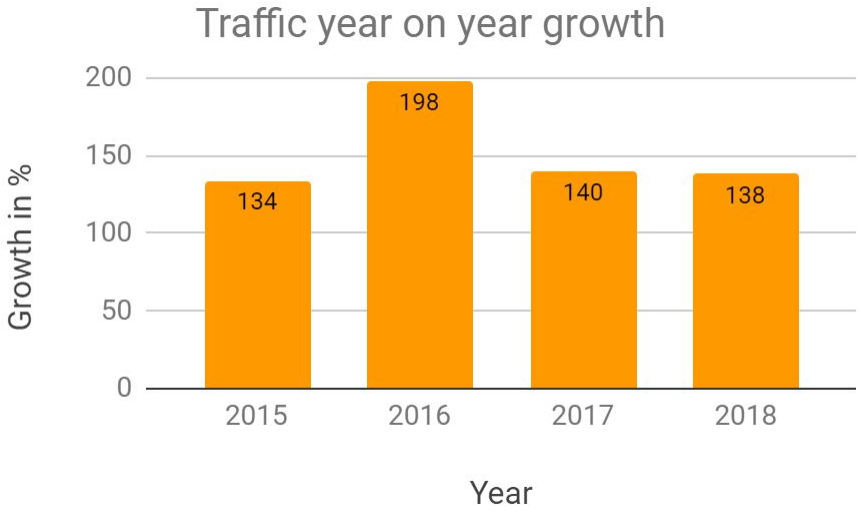


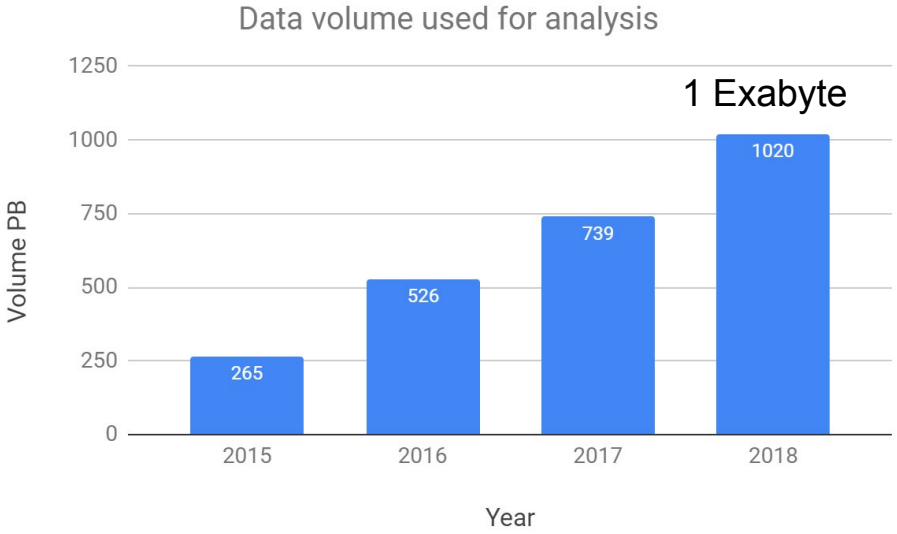
Organized analysis resources evolution



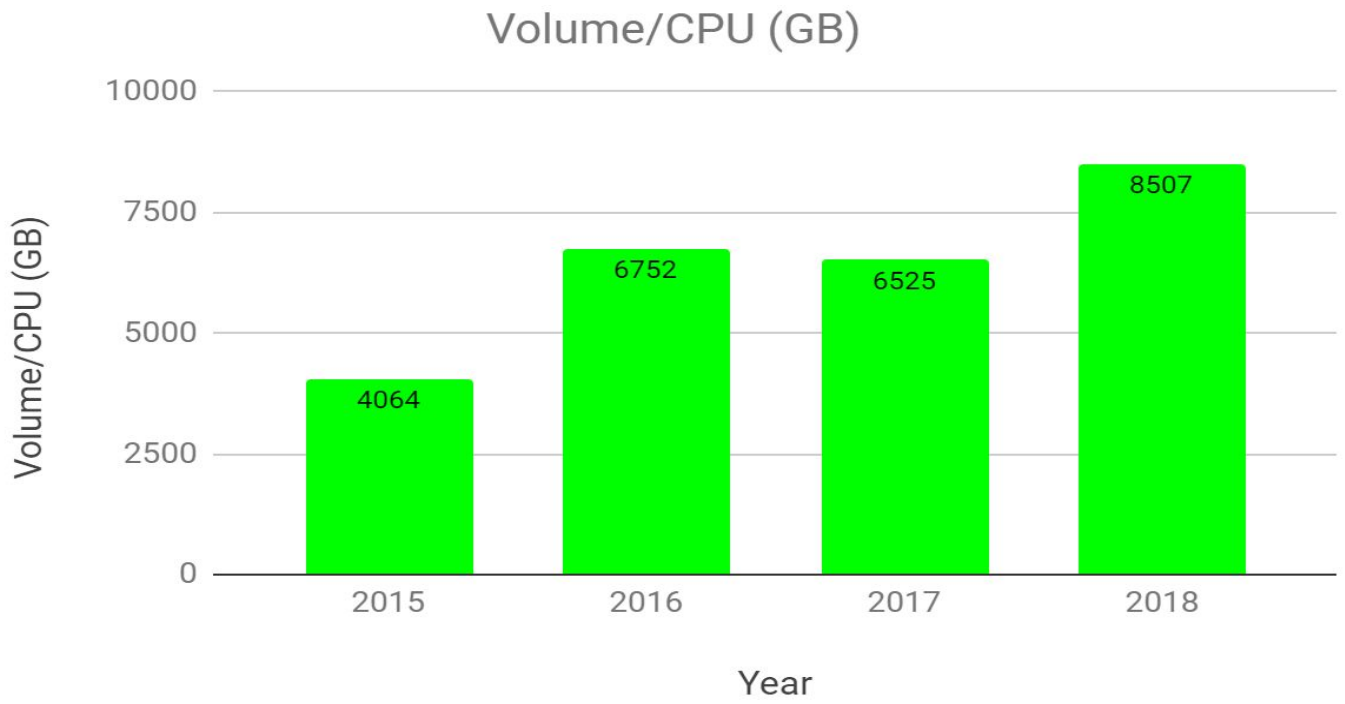


Data volume used for analysis

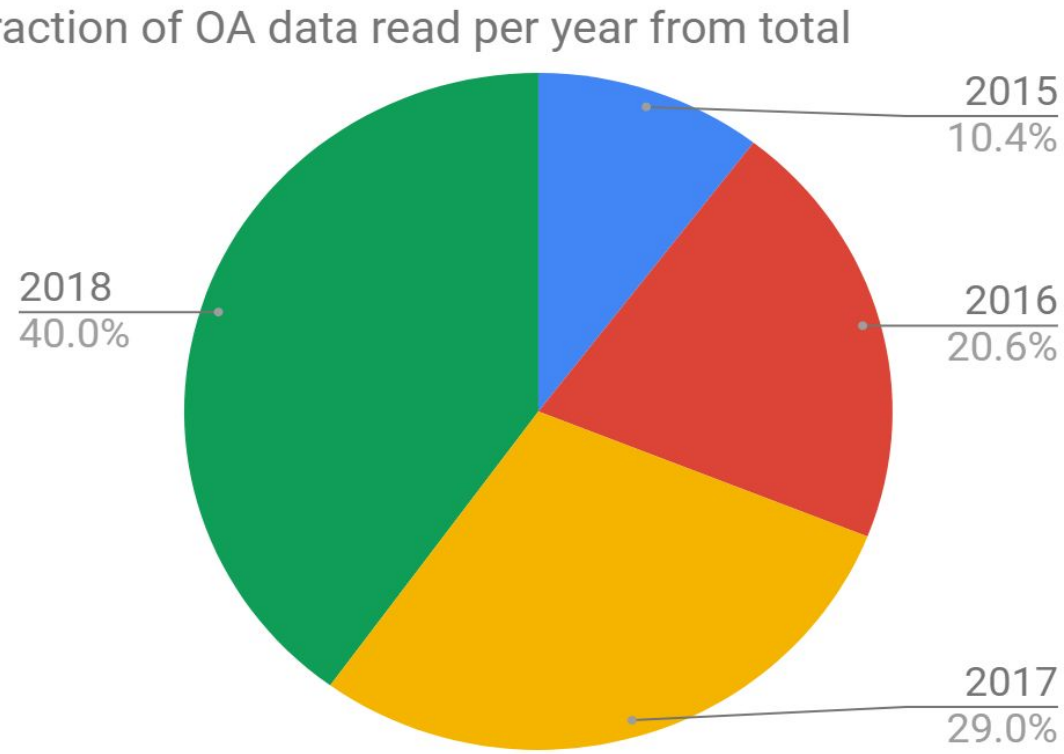




Data volume per CPU



Fraction of data in organized analysis



ALICE

Conclusions

- Grid CPU resources continue to grow at ~25% year on year, storage is at ~15%
- The fastest growing (by fraction) use of the resources is organized analysis
  - More than x2.5 CPU since 2015
  - About x4 in data volume since 2015
  - Does not track the absolute data volume growth
- So far, the infrastructure does not appear to be a bottleneck
  - Certainly helped by the improvements in the PWG analysis train operations
- Appetite for analysis is increasing - will not diminish in the next years (before Run3)