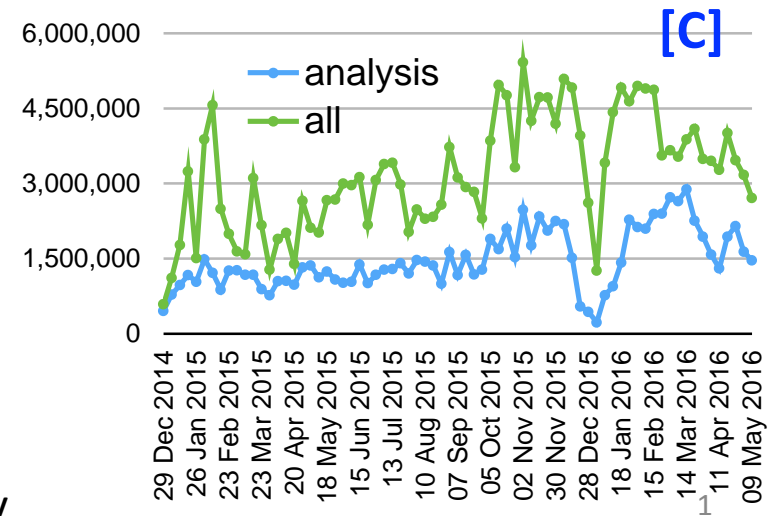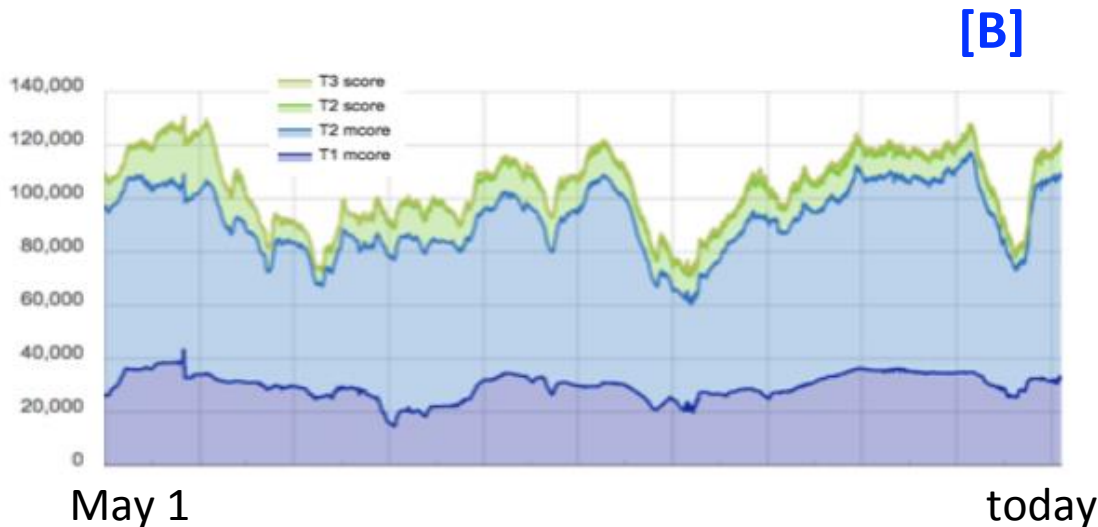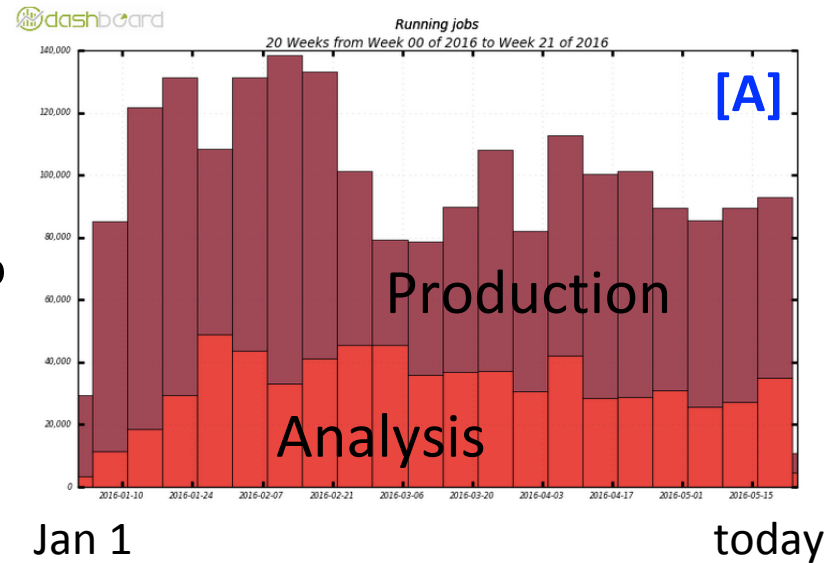# CMS: Operations Activity load remains high

- Run-2 resume in 2016 was smooth
- 2016 **Tier-0 and CMSSW** software deployed with no hurdles
- **global pool** [A] handles ~100k jobs regularly
- **multicore** [B] deployed at the Tier-2 level too
- Load in **distributed analysis** [C] higher than 2015, systems are keeping up
- Starting preparation work for **p-Pb run** for Heavy Ion program

[A]

Running jobs
20 Weeks from Week 00 of 2016 to Week 21 of 2016

Production

Analysis

Jan 1   today

[B]

- T3 score
- T2 score
- T2 mcore
- T1 mcore

May 1   today

[C]

- analysis
- all

CMS Software development towards 2017

- Major detector changes planned for 2017
  - All new pixel detector including 4th layer of pixels
    - Especially important as pileup increases as the upgrade addresses both data flow limitations in current detector
    - Biggest impact for software is new track seeding capabilities given 4th layer
  - Upgraded electronics in HCAL endcap
    - This upgrade was previously planned for LS2 but has been partially moved to the EYETS given aging effects observed during data taking
    - Provide TDC capability and effective depth segmentation

CMS will produce all new detector simulation samples for 2017-2018 data taking. Major reconstruction software changes planned to be ready for production before data taking starts

Software for HL-LHC TDRs in developed at the same time