

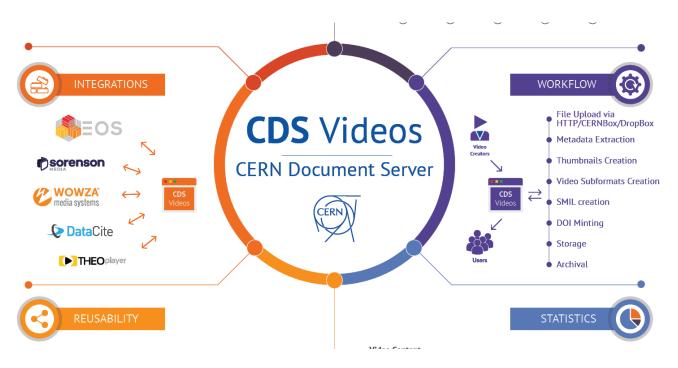
The CHEP 2018 Poster Awards

CHEP 2018, Sofia, Bulgaria

Latchezar Betev

#308 - CDS Videos - The new platform for CERN videos

Flavio Costa, Esteban Gabancho, Jose Benito Gonzalez Lopez, Ludmila Marian, Nicola Tarocco, Sebastian Witowski (all CERN)



#510 - Patatrack

Adriano Di Florio (Universita e INFN, Bari) Felice Pantaleo (CERN)

Patatrack

F. Pantaleo (CERN) – felice@cern.ch on behalf of the CMS Patatrack Team







CMS Trigger

- Two levels: Level-1 and High-Level Triggers
- Reduce input rate (40 MHz) to a data rate O(kHz) that can be stored, reconstructed and analysed offline maximizing the physics reach of the experiment

Today:

- Level-1 Trigger output rate limited to 100 kHz by the readout electronics
- High Level Trigger: based on the CMS software, running on 30,000 CPU cores

Starting from Run4 (2026):

Moore's curse

- Between 2018 and 2026, Gordon Moore will owe us a factor 16
- We will optimistically get a factor 4 performance

Reality leaves a lot to the imagination

- Patatrack team was born in 2016
- Driving CMS towards awareness of evolving technology in preparation for future upgrades

#603 - Collaborative Scientific Authoring at CERN: A user-centered approach

Nikos Kasioumis (CERN) Valeria Brancolini (CERN)

