

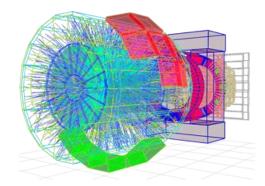
# The detector read-out in ALICE during Run 3 and 4

Filippo Costa

CHEP 2016 Conference, San Francisco, October 8-14, 2016

# ALICE

### **ALICE UPGRADE**



#### O<sup>2</sup> computing farm:

- ~ 100 k CPU cores
- ~ 5000 GPUs and ~500 FPGAs
- ~ 60 PB of storage



#### 3.6 TByte/s into PC farm

#### O<sup>2</sup> (Online Offline) System

Partial calibration and reconstruction online, replacing the original raw data with compressed data



**STORAGE** 

90 GB/s

#### Acq rate:

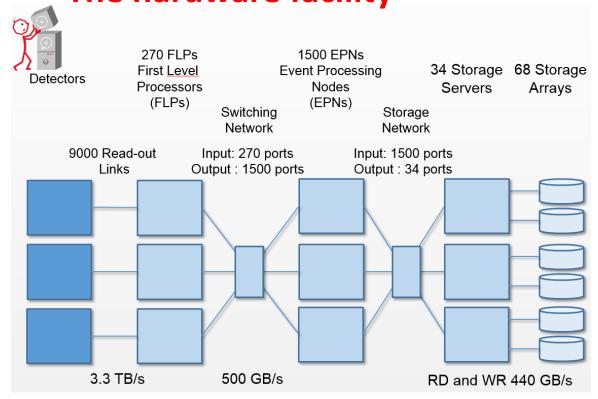
Pb-Pb 50 kHz pp and p-Pb up to 200 kHz

Complete change in detector readout

- · continuous
- triggered

New DAQ - HLT - OFFLINE systems.

## The hardware facility



# ALICE

### **Detectors readout in continuous mode**

