# LHCC Referee Meeting 24/05/2015

#### **ALICE Status Report**

# Predrag Buncic CERN



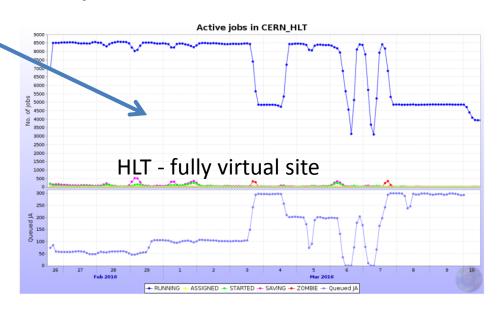
# The ALICE Grid sites today



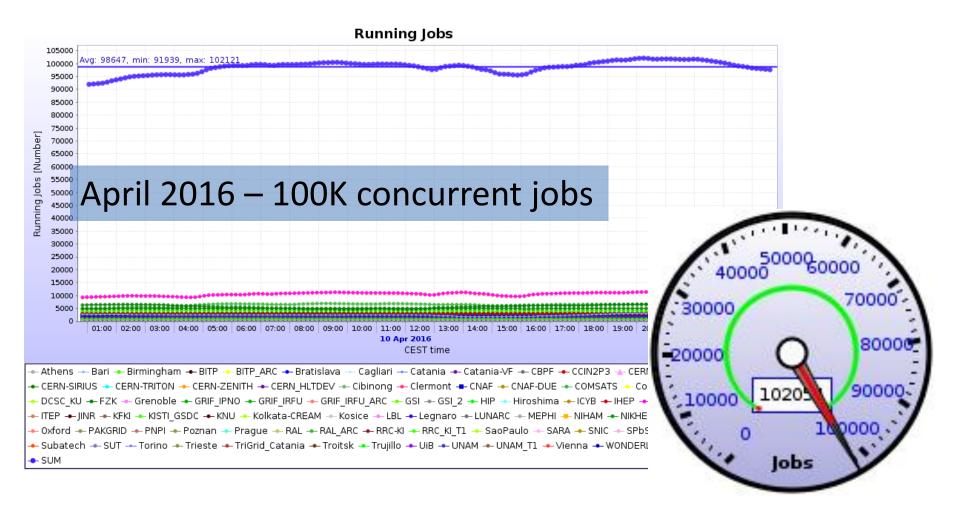
MoU signed with Azerbaijan, opening a door for possibly significant contribution to ALICE Grid

#### New sites

- ORNL since August 2015 (replaces LLNL)
- Bandung and Cibinong since August 2015
- CBPF since December 2015
- Vienna since April 2016
- Wuhan (back) since September 2015
- ALICE HLT cluster



#### Current record



#### Wall time resources share 2016

**Individual analysis: 6%** 

@all centres

460 users

**Organized analysis: 15%** 

@all centres

Share ~same as in 2015:

• RAW 3->9%

Ind.users-> 12->6%

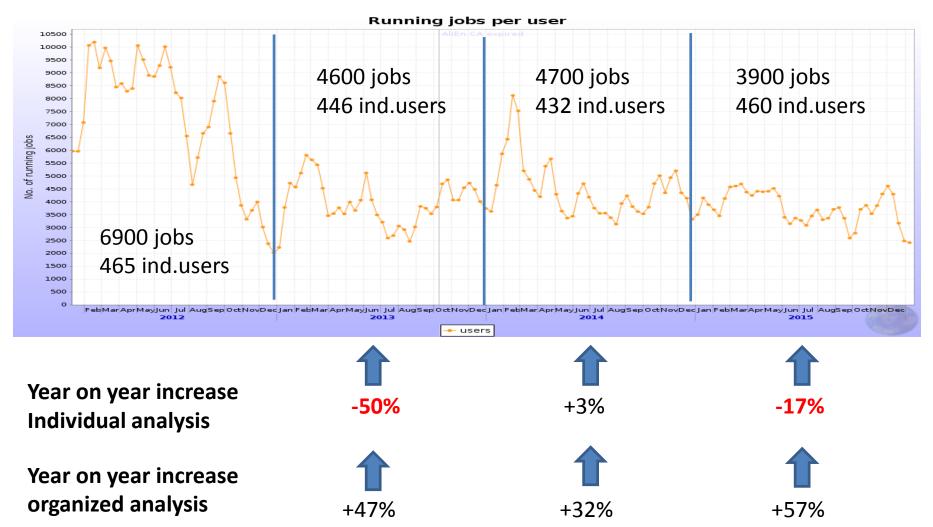
@ T0/T1s only MC productions: 70% @all centres alidaq: 2.32%

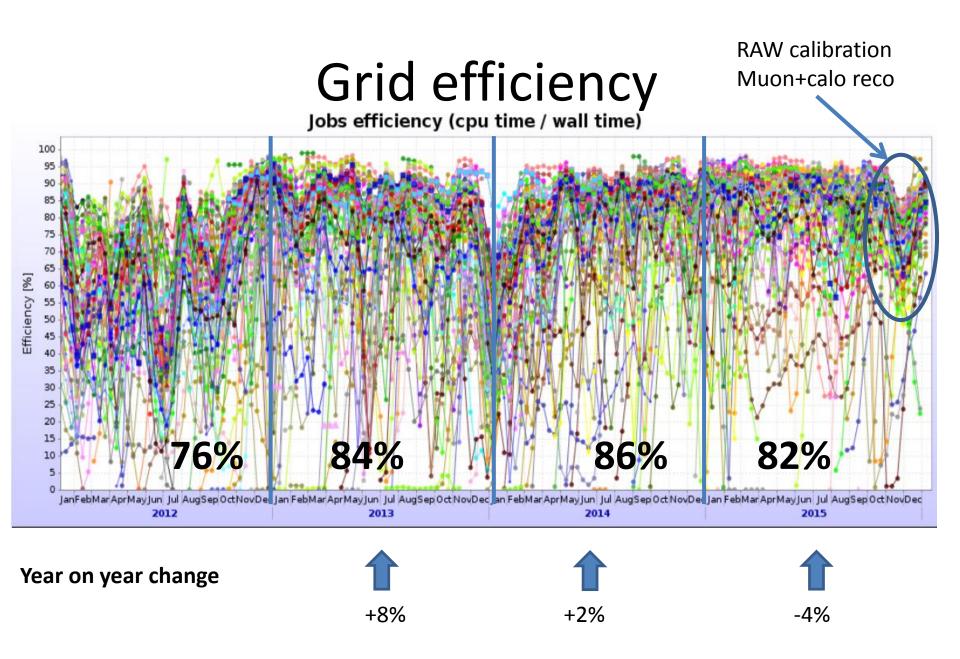
RAW data processing: 9%

# Organized analysis



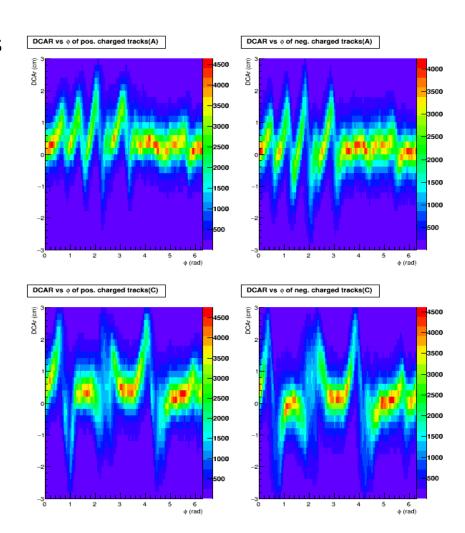
# Individual analysis



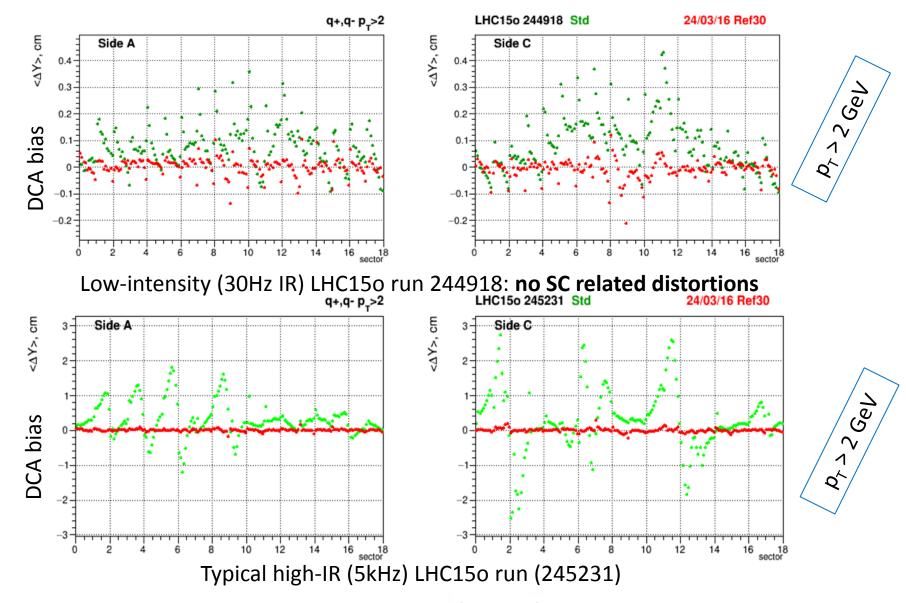


# Status of 2015 data processing

- Substantial IR-induced distortions in the TPC
  - Affect both p-p and Pb-Pb data
- Sophisticated correction algorithms development in the past 6 months
- Data reconstructed partially (first physics, lower IR runs)
  - Bulk of reconstruction still pending
- More details in today's meeting with referees:
  - https://indico.cern.ch/event/ 469079/



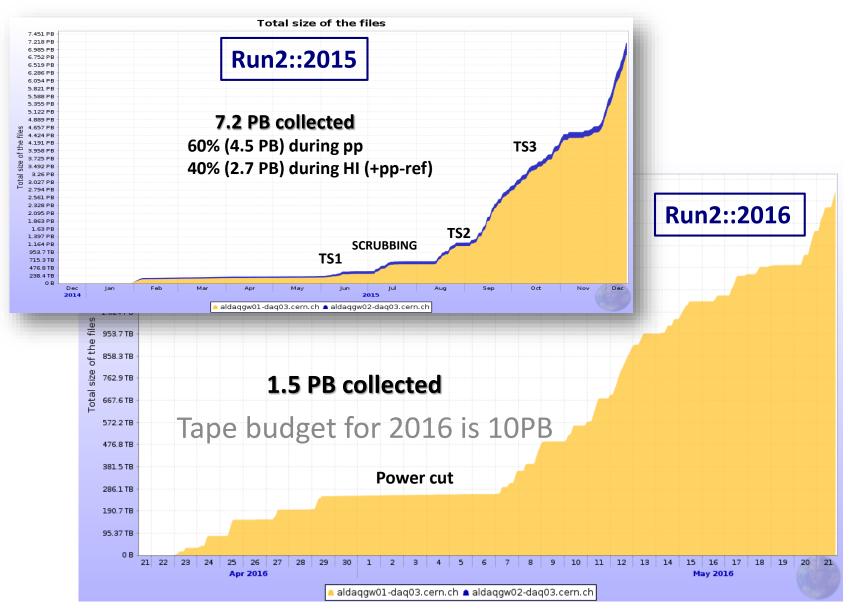
#### Use TPC track DCA to vertex as a figure of merit for reconstructed kinematics quality



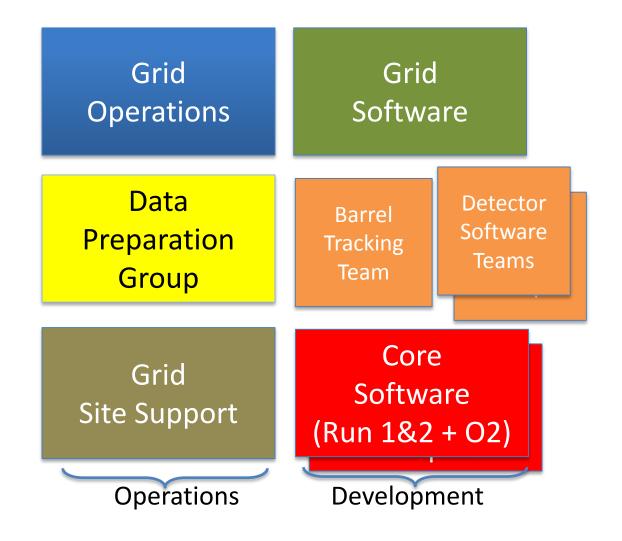
#### **Production status**

- Low IR (<500 Hz) data reprocessing (pass2) with new calibration procedure
  - Finished on May 15
  - Preliminary QA confirms improvement wrt pass1
- High ID (<IR> ~ 5kHz) data first production
  - Started, currently at the stage of reconstruction for calibration
    - (with rescaled default distortions correction to cover full range of distortions)

#### Status of 2016 data taking



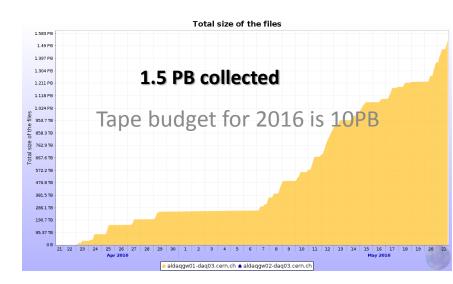
# New organization of the ALICE Offline Project



# **ALICE Summary**

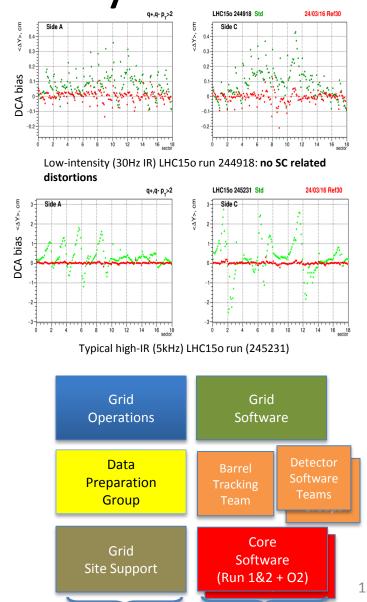
- ALICE Grid is still growing beyond 20% year on year
  - Adding new sites
    - Austria, USA, Indonesia, Brazil, CBPF
    - HLT
  - MoU signed with Azerbaijan, expected to join ALICE grid by the end of 2016
- Crossed psychological barrier of 100k concurrently running jobs
  - Demonstrates scalability of ALICE distributed computing
  - We need only x2 to fulfill the upgrade needs
- Increased share of raw data processing
- Healthy decrease of share of individual analysis in favour of organized one resulting on reasonable job efficiency
- Run 2 data taking progressing well





### **ALICE Summary**

- Substantial IR-induced distortions in the TPC
  - Affect both p-p and Pb-Pb data
  - Sophisticated correction algorithms development in the past 6 months
  - Completed low IR (<500 Hz)</li> data reprocessing (pass2) with new calibration procedure, High IR ( $\langle IR \rangle \sim 5kHz$ ) production just started
- New organization has been put in place aiming to streamline data preparation and processing



Operations

Development