

#### LHCb feedback on demonstrators 22.07.20 Christophe Haen



- [1] LHCb presentation at the QoS WS
- DOMA-QoS demonstrators

### In general

- LHCb cannot commit to do intensive testing and statistics
- Happy to give input and feedback
- Happy to perform functional tests

### Demo 1: Fast disk

- No real possible gain for LHCb
- See slide 11 of [1]

## Demo 2: erasure coding

- This type of technology would mean more data loss
- For it to be sustainable, a standardized file format for declaring data loss is paramount
- See slide 15 of [1]

## Demo 3: opportunistic storage

- We are happy to use this for our DIRAC certification tests
- Low activity, low volume, mostly functional tests

# Demo 4: shingled magnetic recording

- Some LHCb workflow could fit in there (write once, hardly remove)
- Could integrate some of these resources in prod if:
  - Either a new site provides this resource
  - Or a site already providing resources manages to hide this technology in the existing (for example, a given path of the namespace goes to these new disks)
  - It would be production data, so still need a minimal quality and reliability insurance

## Demo 5: low endurance SSD

Same as for demonstrator 1, SSD would not bring much to us