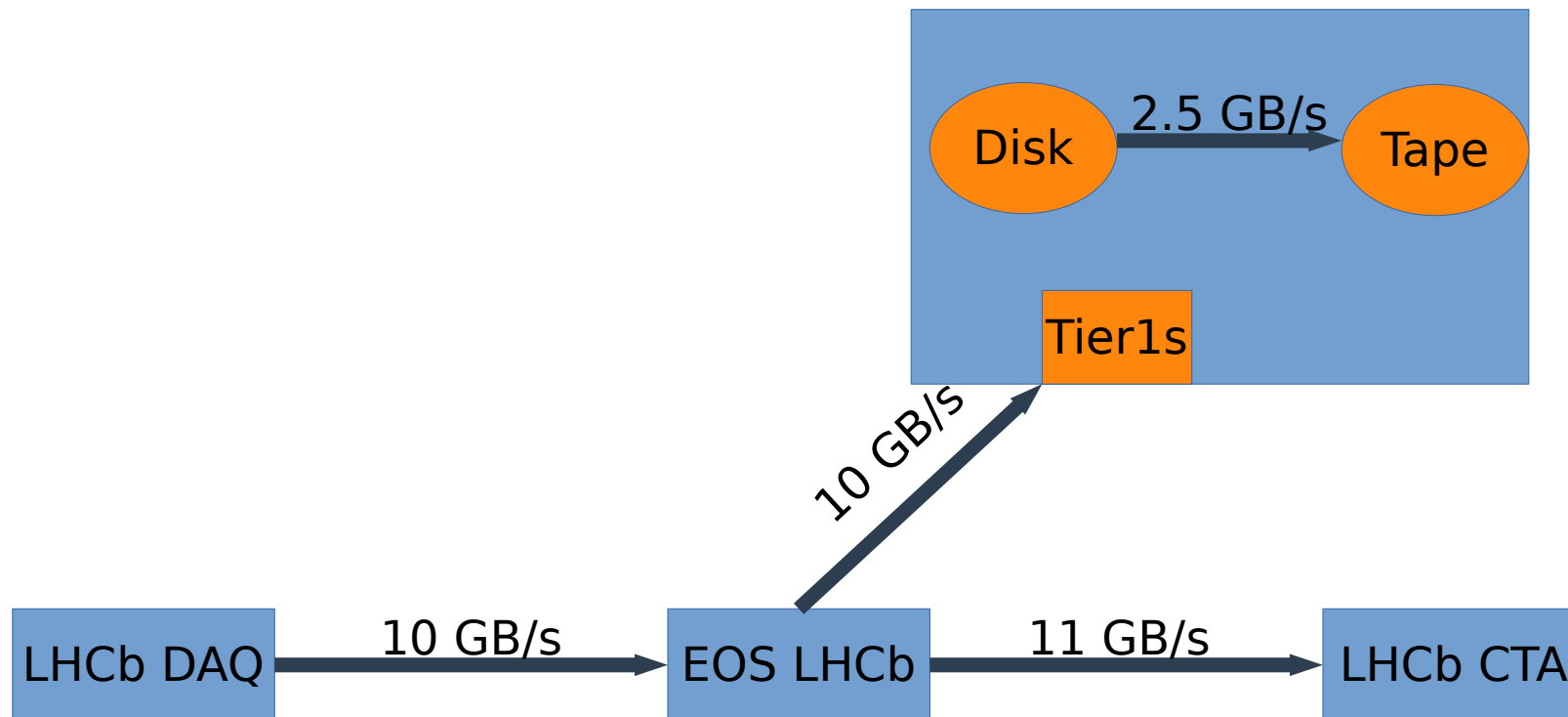


# Staging speed vs buffer space



Data workflow and throughput to tape during data taking

LHCb computing TDR section 6.1.3



Caution: unit is GB per LHC second

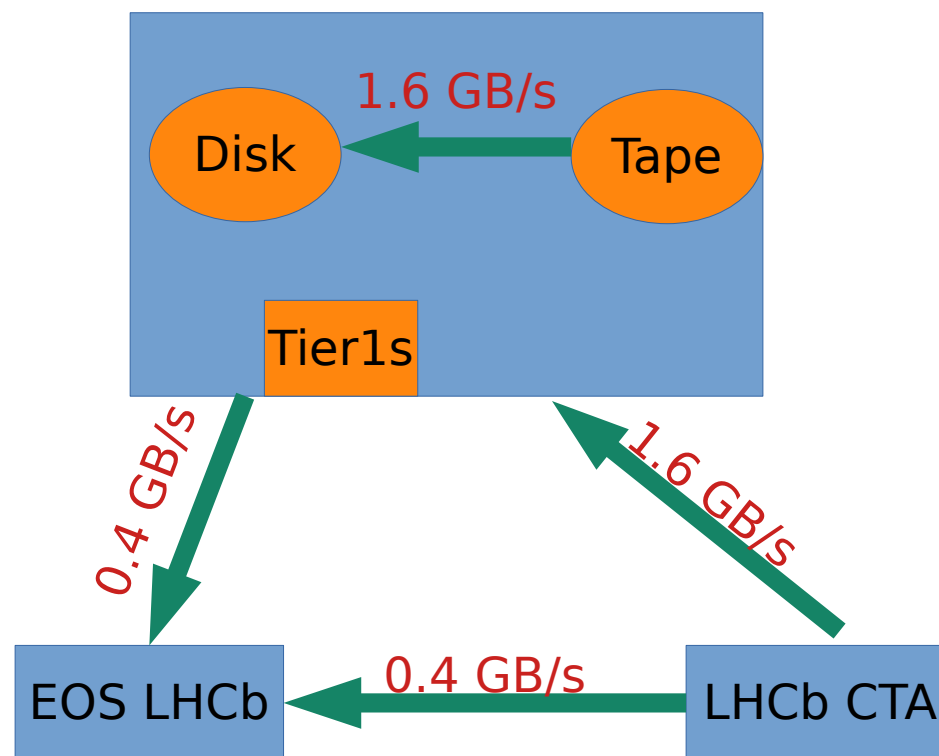
# Staging speed vs buffer space



Data workflow during winter shutdown

LHCb computing TDR section 6.1.3

Reprocessing in 4 months means 4GB/s staging speed



Caution: unit is GB per real second

# Staging speed vs buffer space



- **4 months is the maximum time allowed for reprocessing**
  - Can sites do twice as fast ( $\sim 8\text{GB/s}$  aggregated T1+CERN) ?
  - During Run2, observed aggregated throughput  $\sim 1\text{GB/s}$
- **Staging faster  $\rightarrow$  smaller buffer needed**
- **Note: tape classes show very efficient for massive recall**
- **Conclusion: staging throughput is not to be forgotten**
  - Especially if more experiments start having similar reprocessing strategies (e.g. Data Carousel)