



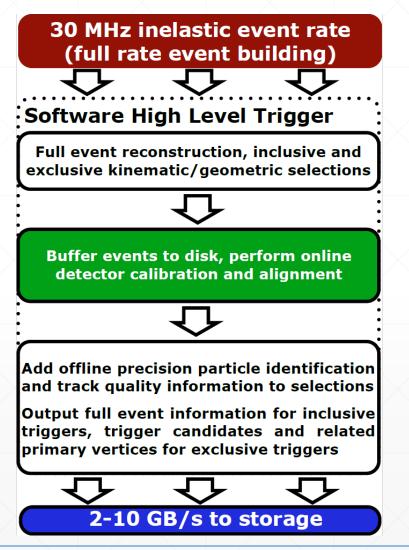


Reconstruction at 30 MHz for the LHCb upgrade

Tomasz Szumlak, on behalf of LHCb collaboration

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LHCb Upgrade I Trigger System



- ☐ Triggerless readout and full software trigger
 - Process data at machine clock (40 MHz crossings and 30 MHz of visible interactions)
 - No LO (hardware) bottleneck
- ☐ No further offline processing
 - All data taken in Turbo mode
 - Run II is a critical testbed for this technology
 - Offline resources can be used for simulation and central data analysis

