

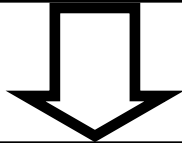
LHCb Upgrade Trigger Diagram

**30 MHz inelastic event rate
(full rate event building)**

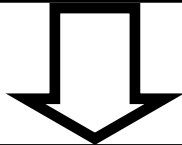


Software High Level Trigger

Full event reconstruction, inclusive and exclusive kinematic/geometric selections



**Run-by-run detector
calibration**



**Add offline precision particle identification
and track quality information to selections**



2-5 GB/s rate to storage