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Timing and clocking scheme in the upgraded LHCb detector

Complex upgrade of the LHCb detector in 2019-2020

- replace all Front-End and Back-End electronics
- replace >90% of the detector channels
- trigger-less data taking at full LHC frequency
- run at x10 more instantaneous luminosity for the next 10 years
- ~40 Tbps data acquisition system

 \rightarrow The upgraded LHCb readout system will be centrally controlled by a single Readout Supervisor

~40 MHz

