Radiation tolerance	Radiation hardness Operating cold (-20°C) Pixel replacement possible
Pile up 140 → 200	Increase granularity
Longer latency → > 12.5 µs	Larger front-end buffers
Higher L1A rate → > 750 kHz	Bandwidth!
Improve resolution at high p _T Improve two-track separation	Increase granularity
Improve resolution at low n	

Reduce secondary interactions

Provide tracking to Level-1

40 MHz output for L1

Bandwidth

Reduce material