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Developments for tracking and timing detectors

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Current R&D in Hadron Collider tracking and timing detectors with potential to develop further into the FCC era is reviewed. Silicon strip and pixel detectors have made tracking at LHC rate and radiation conditions at all possible. The increase rate/radiation conditions at the HL-LHC by a factor of 10 compared to today's standard require intense R&D in sensors, readout ASICs, mechanics and cooling. In addition, picosecond timing seems to become possible using
thin sensors with dedicated features. The interesting aspects of this new R&D will be included in the presentation.

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