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## **Applications of position sensitive detectors in Nuclear Medicine and Radiology**

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The use of imaging techniques in medicine continues to expand. Over the last decade, there has been a 30% increase in the number of investigations, with CT scans rising by almost three fold. The use of x-ray film has given way to the digital detector and companies strive for continuous improvement in both resolution and sensitivity. The latter is particularly important in terms of reducing the population radiation burden and in making screening programmes viable. Improvements in detector materials must be supplemented by improvements in read out and analysis electronics in order to provide faster framing rates. In Nuclear Medicine, the introduction of faster electronics has enabled the clinical implementation of time-of-flight systems, while real-time imaging in radiotherapy is being used to improve tumour/normal tissue dose ratios.

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