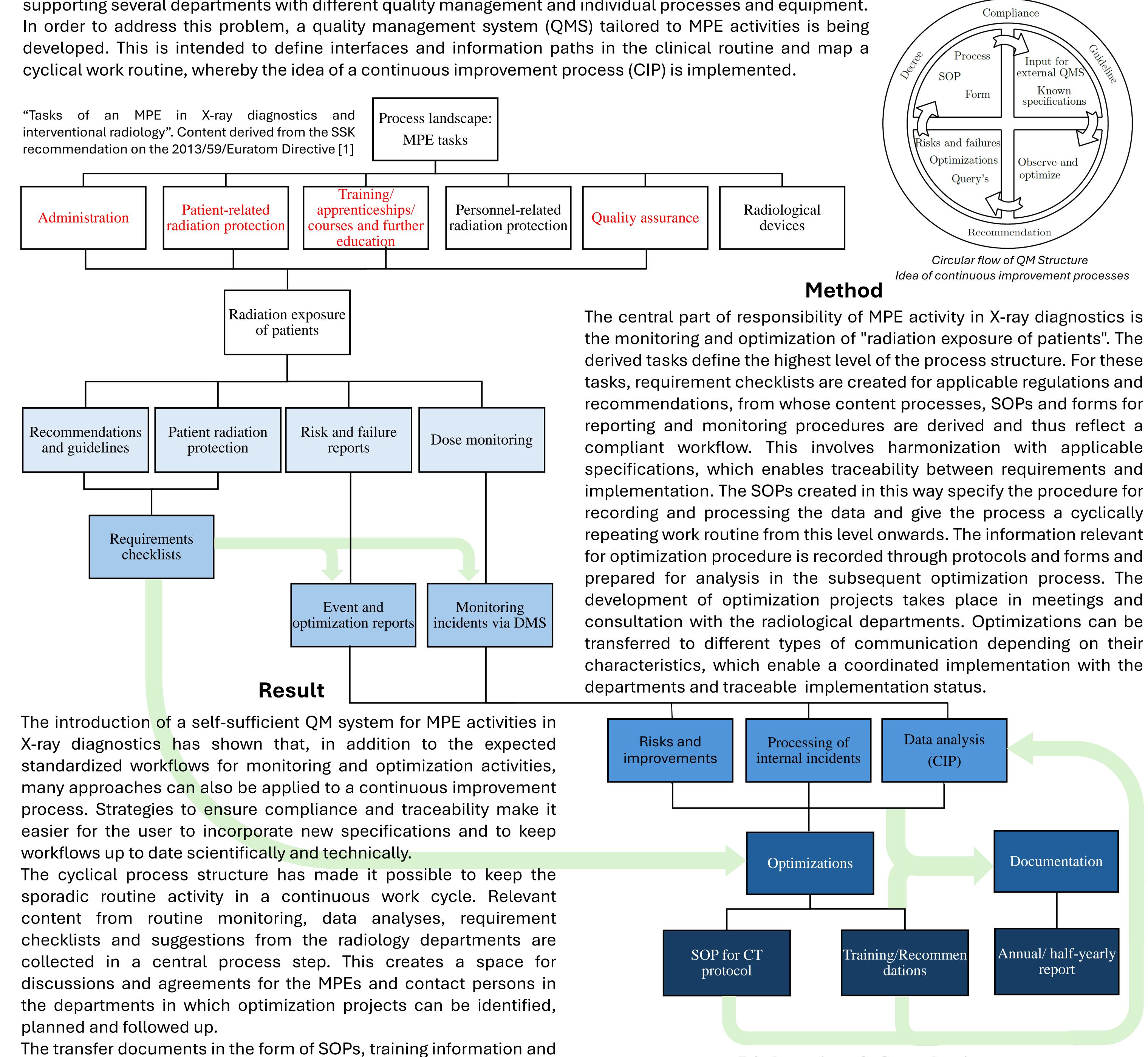


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Introduction & Motivation

The involvement of a medical physics expert (MPE) is a new requirement in many radiology departments, which is why established processes from clinical routine typically do not exist. Monitoring, optimization and training in the area of radiation protection is an interface activity and should cause as few disruptions to the process as possible in the tightly scheduled clinical routine. An additional problem arises from supporting several departments with different quality management and individual processes and equipment. Compliance Process Input for external QMS

an MPE in X-ray diagnostics and Process landscape:



consultation with the radiological departments. Optimizations can be transferred to different types of communication depending on their characteristics, which enable a coordinated implementation with the

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transfer documents have proven to be an important means of successfully transferring optimizations into clinical routine. The CT protocol SOPs are particularly helpful in this regard, as they reflect both the literature-based recommendation and the respective device situation. Furthermore, this enables a clear separation between the internal QM system and that of the respective department and the standardization of the QM content can be reduced to a relevant level.

At the end, the lower stages of the process allow the output of completed analysis and optimization activities to flow back into higher-level process structures, thereby closing the process cycle and implementing the CIP concept.

Diskussion & Conclusion

Due to the discontinuous nature of the work, the QM system has proven to be helpful asset in the implementation of MPE tasks. The system shows its strengths particularly in communication with the radiology departments, which are very busy, as an orderly and resultoriented analysis and transfer structure enables smooth agreements. However, continuous development and consistent application of the structures is essential, as otherwise the system will quickly become outdated and no longer applicable. Therefore, when introducing such a maintenance-intensive system, a clear decision must be made for consistent implementation.

[1] Strahlenschutzkommission; "Hinzuziehung eines Medizinphysik-Experten bei medizinischradiologischen Tätigkeiten – Umsetzung der Anforderungen der Richtlinie 2013/59/Euratom"; 09-2017

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