

# The Future of Flood Protection as Part of the Water Management 4.0 – A First Glance through the Digital Spectacles

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## Abstract

The flooding events of the past years have shown that a better data basis, increased understanding of processes and monitoring as well as the (online) provision of information, such as, for example, the resisting force of dikes, could have contributed to the improvement of operative flood protection. The flood protection of the future presupposes a holistic consideration of all phases of the flood risk management cycle based on Industry 4.0. In current German and Dutch research projects the digitalization the networking and the visualization of information are investigated, in order to able to provide a good basis for decision to actors with an incident. Along with the further development and continuance of research the transfer of the events and tools into the administrative level, national as well as international, is a challenge.

## Keywords:

*Flooding, Industry 4.0, Water Management 4.0, flood risk management, digitalization, networking.*

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