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Challenges in Real-Time Seismology: Moving on from REAKT

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Earthquake risk is on the rise, and a substantial proportion of the world's population is still highly vulnerable to earthquakes. Important preventive actions such as earthquake-resistant construction and retrofitting of structures have not been applied sufficiently to reduce seismic risk on a global scale. In Europe the situation is further complicated by the existence of numerous highly vulnerable historic city centres. In this situation, operational earthquake forecasting (OEF), earthquake early warning (EEW) and real-time actions with focus on reducing the vulnerability of populations and infrastructures (RTA), are potentially important contributions to risk reduction. The EC funded project REAKT (Strategies and Tools for Real-Time Earthquake Risk Reduction; http://www.reaktproject.eu) ended in December 2014. It was focussed on addressing these challenges in real-time Seismology, with a particular focus on adopting a system level, holistic approach that focusses on the en-user needs and perspectives. This presentation will briefly summarise the main achievements but also highlight the future research needs of the community.