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The ERICHA project aims to integrate the products generated with a tool for European Rainfall-Induced Hazard Assessment in monitoring and forecasting hazards triggered by intense rain in real time. In this tool, the flash-flood hazard assessment is based on i) the nowcasts of accumulated precipitation generated from European radar composites (OPERA) and ii) the catchment integrated-rainfall that is used as an indicator of the potential hydrological hazard in small and medium catchments.

To improve the hazard identification and assessment, we have characterized the uncertainty of the radar precipitation inputs used for flash flood hazard assessment. Also, we show the long-term evaluation of hazard assessment based on the 3 years (2013-2016) of high-resolution (2 km, 15 minutes) radar rainfall nowcasts.