Interactive comment on “A methodology based on numerical models for enhancing the resilience to flooding induced by levee breaches in lowland areas” by Alessia Ferrari et al.

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The study proposed a methodology to create a database of numerically simulated flooding scenarios with embankment failures with the objective of improving resilience to flooding and increasing hazard preparedness in lowlands with levee breach-induced inundations.

The study is well worth investigating and the paper was well written. The application of the proposed model may have significant implications for hazard preparedness. Here are my concerns:

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Although the authors briefly mentioned that optimization techniques have been implemented (see lines 29 and 30 of the manuscript) they have failed to cite recent relevant studies that have applied mathematical modeling and optimization strategies. It is important that the authors emphasize this more in this study. The following are some critical references:

