

## **Adaptation tools in practice at the local level- Experiences from applying a LCLIP (local climate impacts profile) on three Swedish municipalities**

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### Background and method/approach

The method Local climate impact profile (LCLIP) developed for and used by foremost municipalities in the UK was modified and used in three small Swedish municipalities in Southern Sweden. The municipalities in our study face similar challenges regarding climate change and share similar status regarding strategic climate change adaptation work (just starting). An LCLIP is supposed to inform on current vulnerability to weather and climate thereby improving the preparedness for expected changes. An LCLIP involves a media trawl of local press to make a catalogue of recent weather related local impacts, interviews with local officers at different departments to deepen the understanding of these events, and efforts to communicate results within the municipality.

### Results and conclusions

Overall and preliminary results are that the method was easy to modify and apply to the three Swedish municipalities and that the results of the LCLIP, including the process itself, were appreciated by officers in the municipalities. Possible uses of results mentioned by officers are: inputs to the planning process, as part of an adaptation plan and possibly as a prelude to a risk and vulnerability assessment. Several common aspects of the municipalities seem to warrant modification of the original LCLIP into a Swedish version where interviews focus on types of weather events and their consequences rather than on specific dates when they occurred and where emphasis is also put on making an inventory of adaptation ideas. When comparing between the three municipalities, we found similarities and differences in vulnerability with respect to intense rain, coastal erosion and heatwaves, differences that seem to be attributed to variations in infrastructure, locations and organization. Proposals for further methodological development is to focus on specific weather events such as flooding in a regional perspective and to carry out a full-scale LCLIP in several municipalities as a basis for a regional adaptation plan thereby identifying common challenges and possibilities and necessity for cross-municipality cooperation.