

Weather-Related Railway Infrastructure Failures

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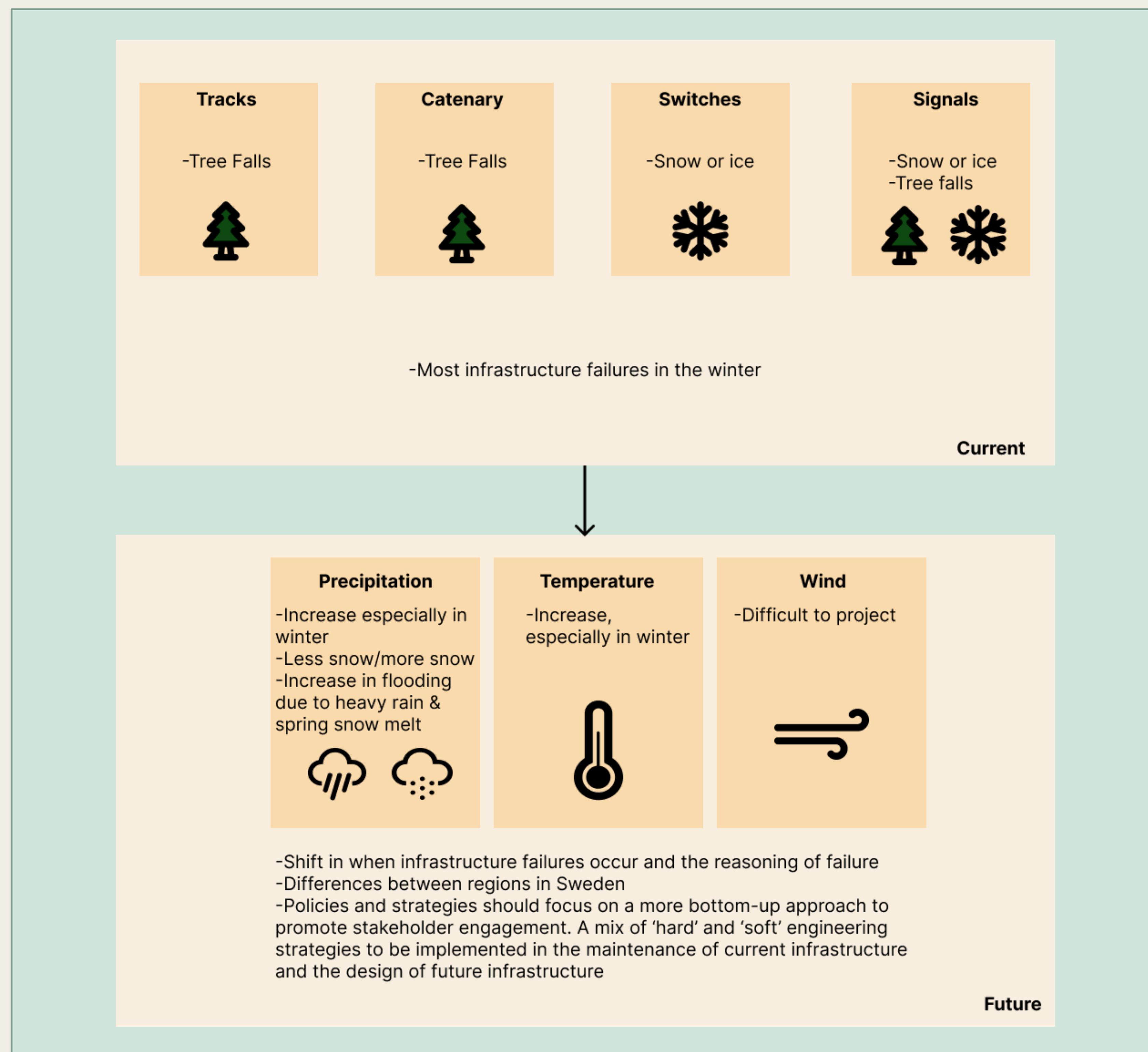
Research Aims & Questions

Railway infrastructure is vulnerable to adverse weather conditions and this vulnerability is expected to increase due to climate. By using infrastructure failure data from the Swedish Transport Administration between 2015-2020, we aim to understand:

1. Seasonal trends in weather-related infrastructure
2. Which infrastructure assets are vulnerable to what type of weather-related phenomena
3. The implications of climate change
4. Policy implications of climate change on the management of infrastructure

Assets of interest are: switches, track, catenary, and signal

Conclusions



Results

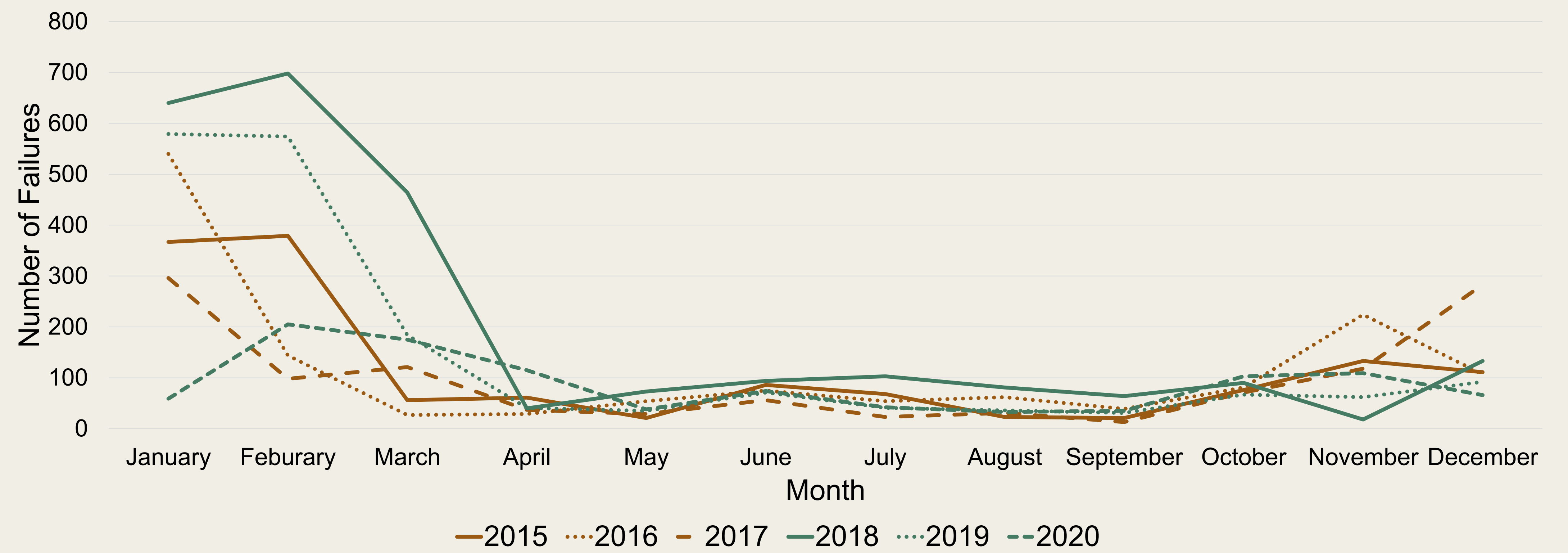


Figure 1. Seasonality of infrastructure failures

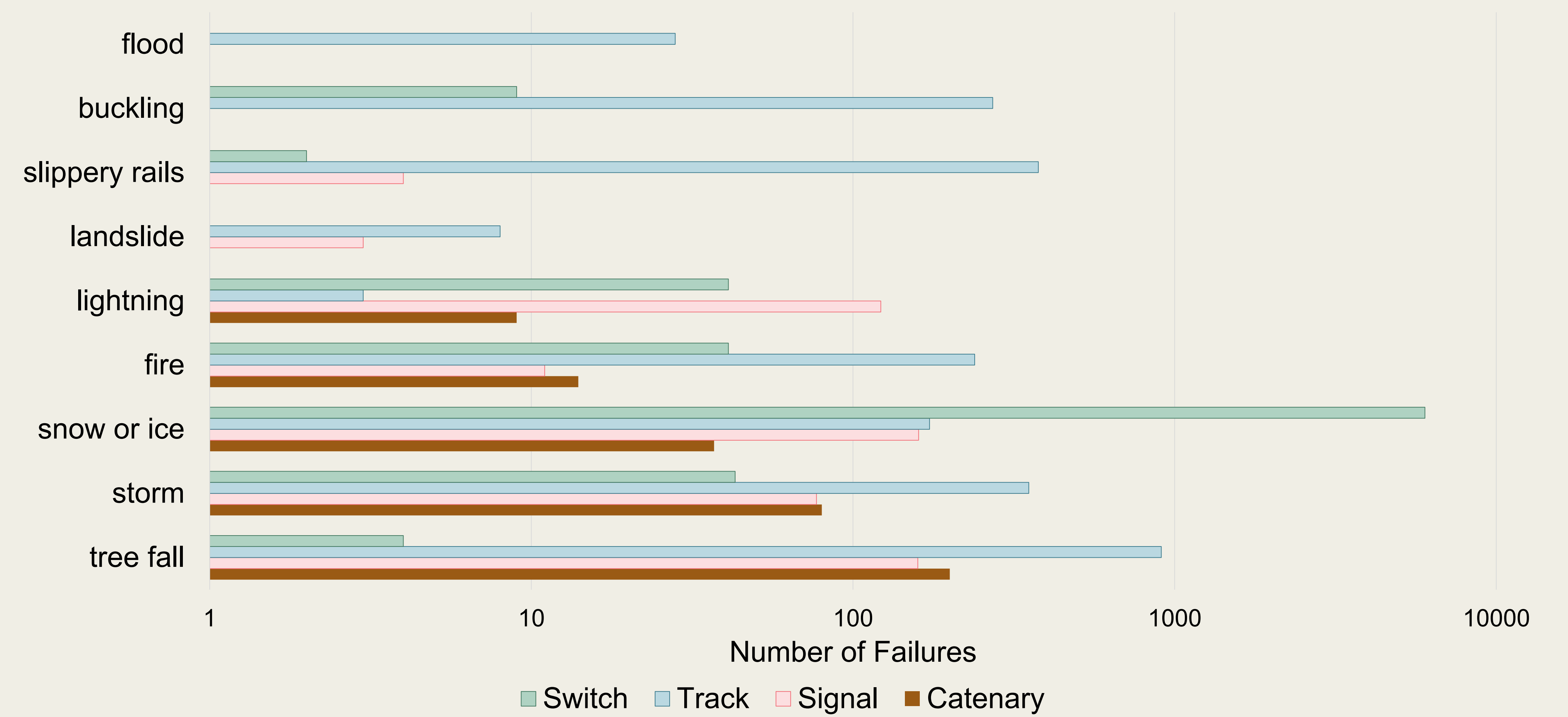


Figure 2. Number of infrastructure failures due to different weather-related phenomena

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