

## The buzz of AI: developing bioacoustic models for challenging real-world environments

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## Mosquito vector surveillance is:

- Time consuming;
- Expensive;
- With current methods, can only be done over limited spatial areas.

'Gold standard' methods also can have notable ethical issues...



Overall aim: To develop a mobile technology that people can use in remote areas to record the diversity and distribution of mosquitoes HumBug bednet with smartphone running Mozzwea Host seeking mosquito approaches the bednet to try and bite The data is mapped and information the person within sent back to the smartphone **Hum**Bug Mozzwear app captures flight Species identity data is logged in the HumBug database along with its tone and uploads it to the HumBug server location The flight tone is disaggregated to its component features and run through our species identification algorithm pipeline 🖉 🗺 HumBug





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