Webinar - New approaches to longstanding challenges: Emerging technologies and analyses for biodiversity impact assessment

Reference Sources

WildLabs - online community of practice for conservation technology. It has a number of resources that may be of interest to those looking for more information about a particular technology beyond these case studies: https://wildlabs.net

Other apps - Leaf Snap, Merlin/BirdNET and iNaturalist and Wildlife Insights for image recognition applications for biodiversity.

More information on the Smithsonian Conservation Biology Institute's (SCBI) drone program in Peru:
https://www.youtube.com/watch?v=L-FMFqsSYAA

More information on SCBI's work to understand fish diversity in the Peruvian Amazon:
https://nationalzoo.si.edu/ccs/news/finding-fish-peru-part-one
https://nationalzoo.si.edu/ccs/news/finding-fish-peru-part-two

More information on SCBI's use of passive acoustic monitoring (paired with camera trapping) for biodiversity assessment:
https://nationalzoo.si.edu/center-for-conservation-sustainability/news/eyes-and-ears-amazon-rainforest

Link to paper "Soundscape analysis and acoustic monitoring document impacts of natural gas exploration on biodiversity in a tropical forest"
https://www.sciencedirect.com/science/article/pii/S1470160X16306392

Link to paper "It's time to listen: there is much to be learned from the sounds of tropical ecosystems"
https://onlinelibrary.wiley.com/doi/abs/10.1111/btp.12593

Arbimon platform for acoustic data analysis:
https://arbimon.rfcx.org/

Link to paper "Reducing the blue spectrum of artificial light at night minimizes insect attraction in a tropical lowland forest"
https://resjournals.onlinelibrary.wiley.com/doi/abs/10.1111/icad.12479

More information on the impacts of artificial light at night:
https://www.smithsonianmag.com/smithsonian-institution/using-amber-filtered-bulbs-instead-of-white-light-attracts-fewer-bugs-180977495/