The South Africa's Data Pipeline for Wetlands and Waterbirds (BIRDIE) processes data submitted by citizen scientists to compute decision-relevant outputs, making them available via an online dashboard, and via an API for system integration. Behind the scenes, these citizen-science data are analyzed using a suite of statistical techniques to estimate population dynamics and species distributions. The project will contribute to the implementation of conservation programmes at multiple scales; from international agreements, such as the Ramsar convention, to site-specific programmes.