Record Media

Collect Media

Collect Notebook

Package Data

AI Categorize

Manual Categorize

Package Upload

Catagorize Training

Package Download

Master Backup

Report Upload

Remote or Office Access

Research Report

Camera Trap to Report Flow

This proposed data flow scales and improves the existing Fieldae camera trap to data report process. Automation is used to standardize formats and accelerate the pipeline wherever possible. Discrete components are designed for todays needs, the future, and scaling.

Images and video are recorded in strategically placed camera traps. Periodically the memory cards are retrieved and needful field data is noted. A Raspberry Pi class wifi device receives the media and packages it with notebook annotations entered through a web interface. The media is then categorized within the package by an AI tool. A web interface presents pre-catagorized media for manual corrections and/or upload to master storage (and backup). Additional corrections and/or AI training takes place from the master, until packages are exported as CSV and media files. Reports are generated from the data and uploaded back to the master.

Any number of Raspberry Pi class devices may be used with an expected cost of $20-$50 per site, or <$15 for an upload to master only version (NodeMCU class).