Methods of Standardized Data Collection, the Evolution.

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Multiple Applications can be used

Standardized field data collection tools

- geoMEtri
- PPF App
- SMART and Cybertracker
- Collector for ArcGIS
- Survey123
- GeoODK
geoM3tri

- Monitoring and Evaluation Tool

- **geoM3tri** is a collection tool that is used in the field to collect information.
  - Mobile application
  - Desktop application

- **Collation**
  - Collect and combine (text, information, data)

- **Collaboration**
  - The action of working with someone to produce something

- **Consolidation**
  - Make (something) physically stronger or more solid
  - Combine (a number of things) into a single more effective or coherent whole.
Field collection methods

Past or current way of doing things:
- GPS
  - Needs to correlate with forms
- Field forms
  - Needs to be captured

Future way of doing things:
- Smartphones
  - Offline capabilities
  - Cached map options
SMART and Cybertracker

- SMART is a standalone database built into the laptop
- Good for offline environments where connectivity is low
- Highly configurable
- Difficulty incorporating and exporting data to Feature Classes
- Cybertracker the mobile collection tool for SMART
  - Limited capabilities to automatically send the data
  - Has no mapping capabilities in the application, rather just the sequence
  - Can collect data offline and via satellite
  - Has kiosk mode to limit users to collection of data only
  - Customisable to make the sequence user friendly to those that are illiterate
  - Customisable to change the sequence “flow”
Collector for ArcGIS

- Android and Apple based
- Customized basemaps
- Cached maps capabilities
- Collect data in offline environment
- Feeds directly into PPF SDE feature classes
- Customized based off subtypes and domains of FC
- Can't customize the “flow” of how the data/attributes are collected
- Specific attributes pre-defined by the FC that you are wanting to populate
- Uses ArcGIS Online and credit system to download cached maps
Survey123

- Android and Apple
- Survey type flow
- Customizeable by the designer quite easily and friendly
- Can create a “flow” that says “if this then that”
- Can add pictures to the survey for illiterate persons?
- Can feed nicely into PPF SDE
- Can have data collected in an offline environment
- No map to show current location
- Has a desktop application to check how the creation of the survey works
- Data stored in XML format
- Sequence has a “flow” that is created by the questions being asked
geoODK

- Android and Apple
- XLS form, similar to Survey123
- Customizable by the designer quite easily and friendly
- Can create a “flow” that says “if this then that”
- Can feed into PPF database after data is verified
- Can have data collected in an offline environment
- No map to show current location
- Sequence has a “flow” that is created by the questions being asked
- Extra steps are needed in order to bring data into an ArcGIS environment
Conclusion

- Look at Trans-frontier Conservation Areas
- Outline and refine a data collection process that correlates to the PPF standards
- Ensuring the data is collected in an accurate, uniform and specified steps.
- Important factors
  - Offline environment
  - Easy to use
  - Sequence “flow” is seamless
  - Data flows into PPF SDE and ArcGIS environment

- A combination of these tools may be needed to have the desired effect of how data is collected and collated and collaborated