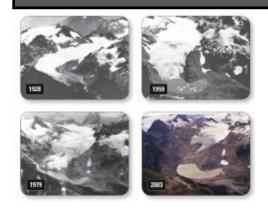
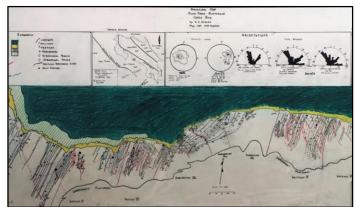
Winter Raptor
Survey:
From Paper &
Pencil to Mobile
Device

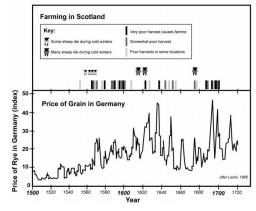


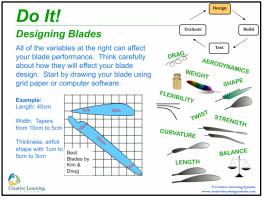
About

- K-12 STEM Educator
 - Classroom Teacher
 - Instructional designer
 - Program Evaluator
 - NASA, NIH, NCAR, for-profit, non-profit

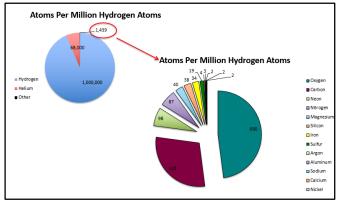






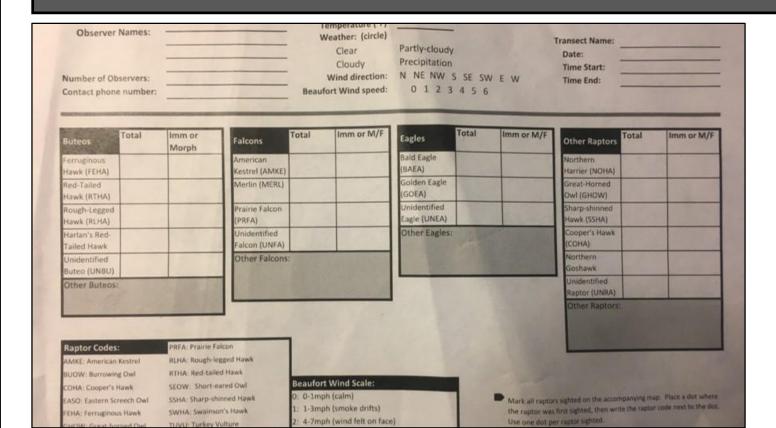


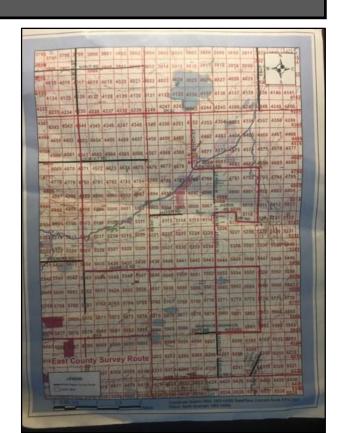




Goals

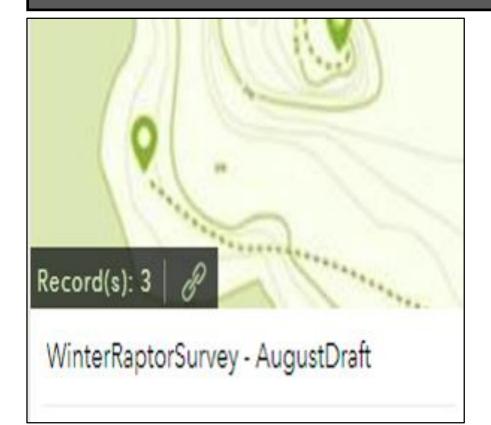
- Convert paper and pencil forms to online survey
- Ensure easy access and use for volunteer bird watchers
- Improve data collection, management, and analysis
- Provide a platform for development and sharing of external and internal visuals





Process

- Identify and review survey software options
- Select survey software based on ease of use for volunteer and county staff
- Develop and test survey from perspective of multiple audiences
- Pilot test and revise survey based on end user comments
- Share survey with county staff





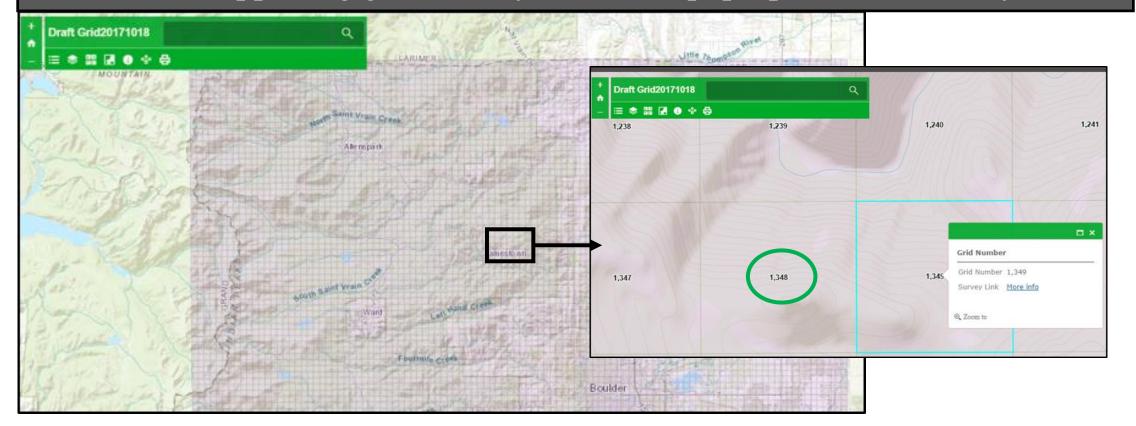
Challenges

- Selecting most appropriate software: Survey123 vs Survey123 Connect
- Developing survey with 1 to Many relationship; birds sighted to location
- Learning xlsForms
- Anticipating audience needs and abilities
- Converting survey to Web App (next step)

type	name -	label	WinterRaptorSurvey_AugustDraft
begin group	GroupViolation	<center>Violation Details</center>	
dateTime	ReportDateTime	Date & Time Observed:	Draft survey for Winter Raptor volunteers
select_multiple violationTypes	ViolationType	Type of Violation	
text	ViolationType_Other	Other Violation Description	Date *
text	ReportNotes	Notes:	Use the calendar to enter the Observation Date.
image	ViolationPhoto	Photo	■ ▼
geopoint	ViolationLocation	Location	
end group			Name *
			Please enter your first and last name.
begin group	GroupViolator	<center>Offender Details</center>	
select_one responsiblePartyType	ResponsibleParty	Туре	
text	OffenderName	Offender's name	
select_one yes_no	OffenderPresent	Is Offender or Representative Present at Time or Report?	Participants
image	Signature	Signature	How many total participants observed?
end group			123
note	Note	<center>Call Water Department</center> <	
В			Pl I
survey choices se	Phone number		

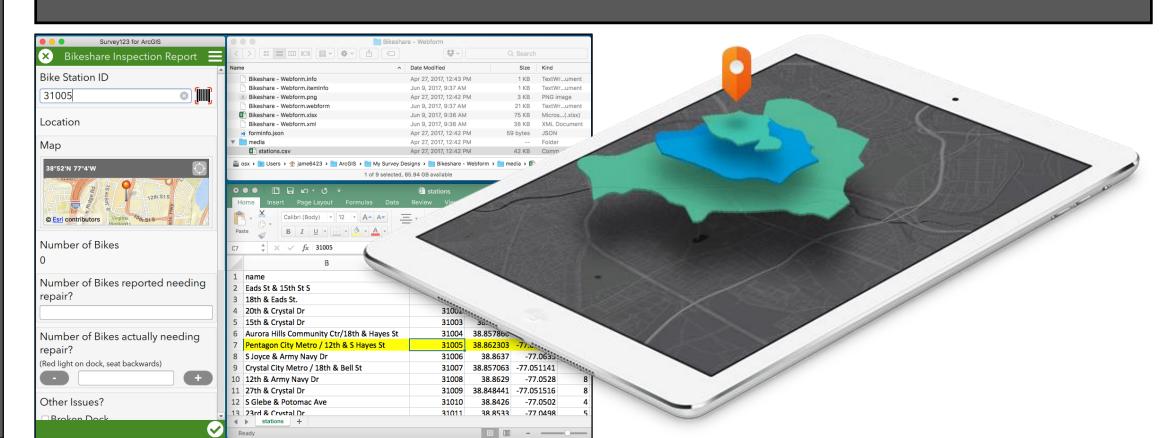
Successes

- Engaged cohort of volunteers open to using mobile devices in field
- Addressed a project that would otherwise have continued to gather dust
- Basic online survey functional
- Initial xlsForm created from Survey123 product
- Initial Web App using grid overlay with URL pop-up to online survey



Next Steps

- Update xlsForms to include automatic population of location and date information
- Pilot test Survey123 Connect using off-line mobile devices
- Update xlsForms/Survey123 Connect based on audience feedback with respect to using a web app



Questions?

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