

## Background

- NPS, FWS, and other Federal land management areas (FLMAs) lack sufficient information regarding the severity of animal-vehicle collisions (AVCs).
- Currently no systematic collection or sharing of AVC data.
- Difficult for FLMAs to analyze, prioritize, fund, and implement mitigation solutions without accurate data.
- High quality, reliable, and accurate AVC data will support FWS and NPS Long Range Transportation Plans.
- This project has developed an AVC survey for the FWS and NPS that can be distributed to state DOTs, tribes, and non-government organizations (NGOs) that have access to ESRI ArcGIS accounts.

## ROaDS Phase 1

- Assess existing data collection systems.
- Developed a ROaDS on ESRI Survey123.
- Beta-test and adjust survey questions.
- Surveyed beta-testers on pros and cons of ROaDS.

## ROaDS Phase 2

- Developed recommendations for the DOI's and national AVC data standards.
- Adjust ROaDS survey based on Phase 1 responses.
- Explore location tracking during ROaDS surveying.

## ROaDS Phase 3

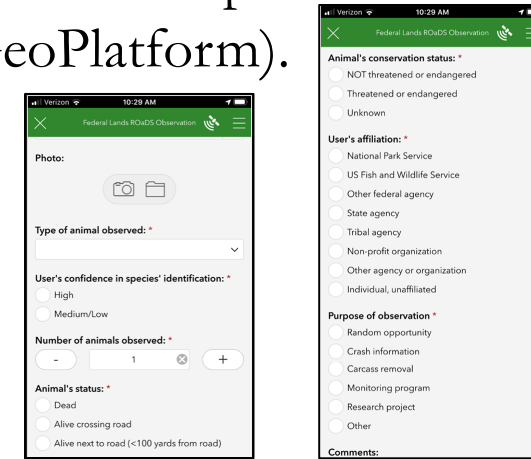
- Conduct workshops for AVC National data standards.
- Further adjust and fine-tune ROaDS survey.
- Beta-test ROaDS and connect with partners.
- Explore options for DOI deployment.

## ROaDS Phase 4 (current project)

- Deploy ROaDS onto DOI GeoPlatform.
- Develop plan for long-term management.
- Conduct outreach, training, and support for users.
- Engage other DOI agencies to use ROaDS.

## National ROaDS Deployment

- FWS is the main project funder and taking the lead for National deployment.
- The ROaDS survey was created with ESRI Survey123 and hosted on the National Geospatial Data Assets' Geospatial Platform (GeoPlatform).



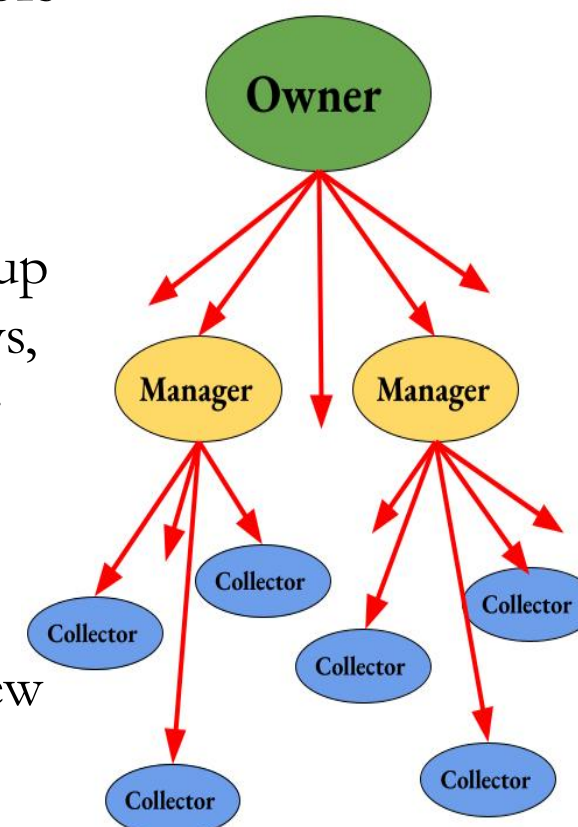
- ROaDS will be accessible to all USFWS employees with long-term technical support.

## ROaDS Survey

- Quality control and quality assurance** of data collected with ROaDS is controlled by the user types and roles associated with ESRI ArcGIS accounts.
- Data collected with low confidence in species identification **marked for review**.
- Threatened and endangered species** are only viewable by ROaDS managers.

## ROaDS Management in Survey123

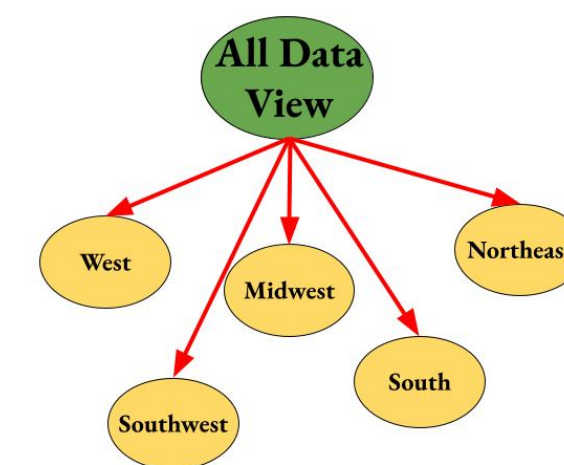
- Owners, managers, and collectors are the three types of ROaDS users.
- Owners:** creates the ROaDS group, adds content, select group member roles, define map views, and edit/customize surveys for management areas.
- Managers:** coordinate data collection within management unit, add group members, review low-confidence data, QA/QC within group.
- Collectors:** collect data and view maps



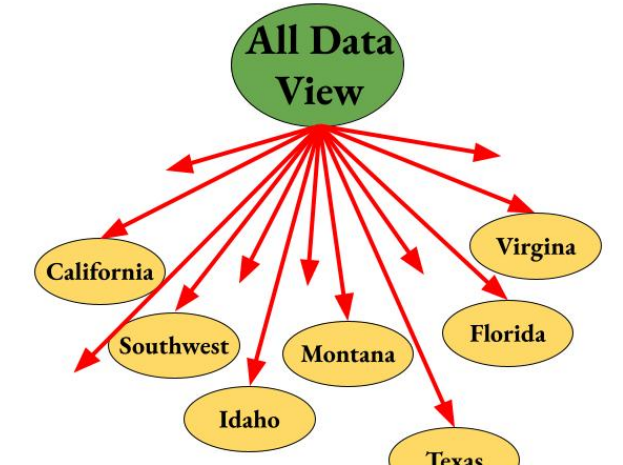
## Potential ROaDS Structure

- Structure and map views can be set up in many ways. The beta-test will determine the best option and establish required IT support for each.
- Group members put in different map views, collectors can only see data within their view.
- Below are examples of different ways to set up ROaDS survey and map views:

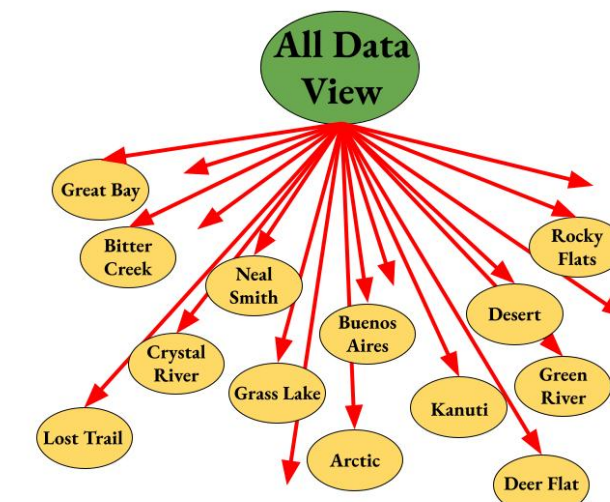
### By Region



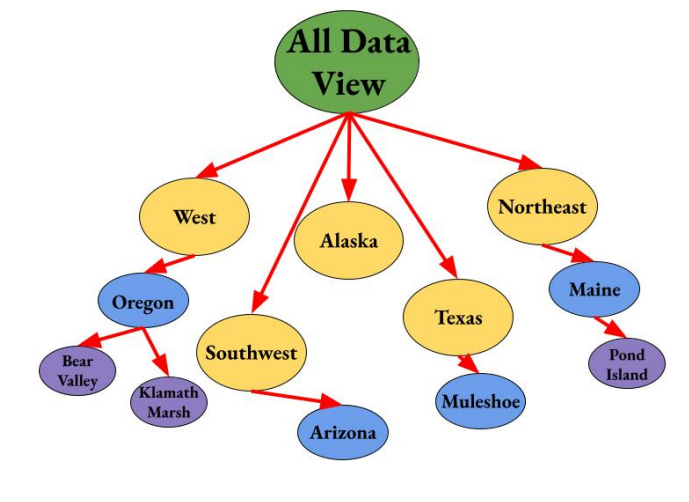
### By State



### By Management Area



### Combination



## Next Steps

- Beta-test ROaDS on with USFWS GeoPlatform before National deployment.
- Engage and train USFWS managers and users.
- Collect data

