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Developing the Ka:'yu:'k't'h'/Che:k'tles7et'h' First Nations Stewardship Program

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Olson, Erica, "Developing the Ka:'yu:'k't'h'/Che:k'tles7et'h' First Nations Stewardship Program" (2022).
Salish Sea Ecosystem Conference. 84.

<https://cedar.wwu.edu/ssec/2022ssec/allsessions/84>

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Developing the Ka:'yu:'k't'h'/Che:k'tles7et'h' First Nations Stewardship Program



Salish Sea Ecosystem Conference 2022





**Ka:yu:k't'h'/Che:k'tles7et'h'
First Nations**

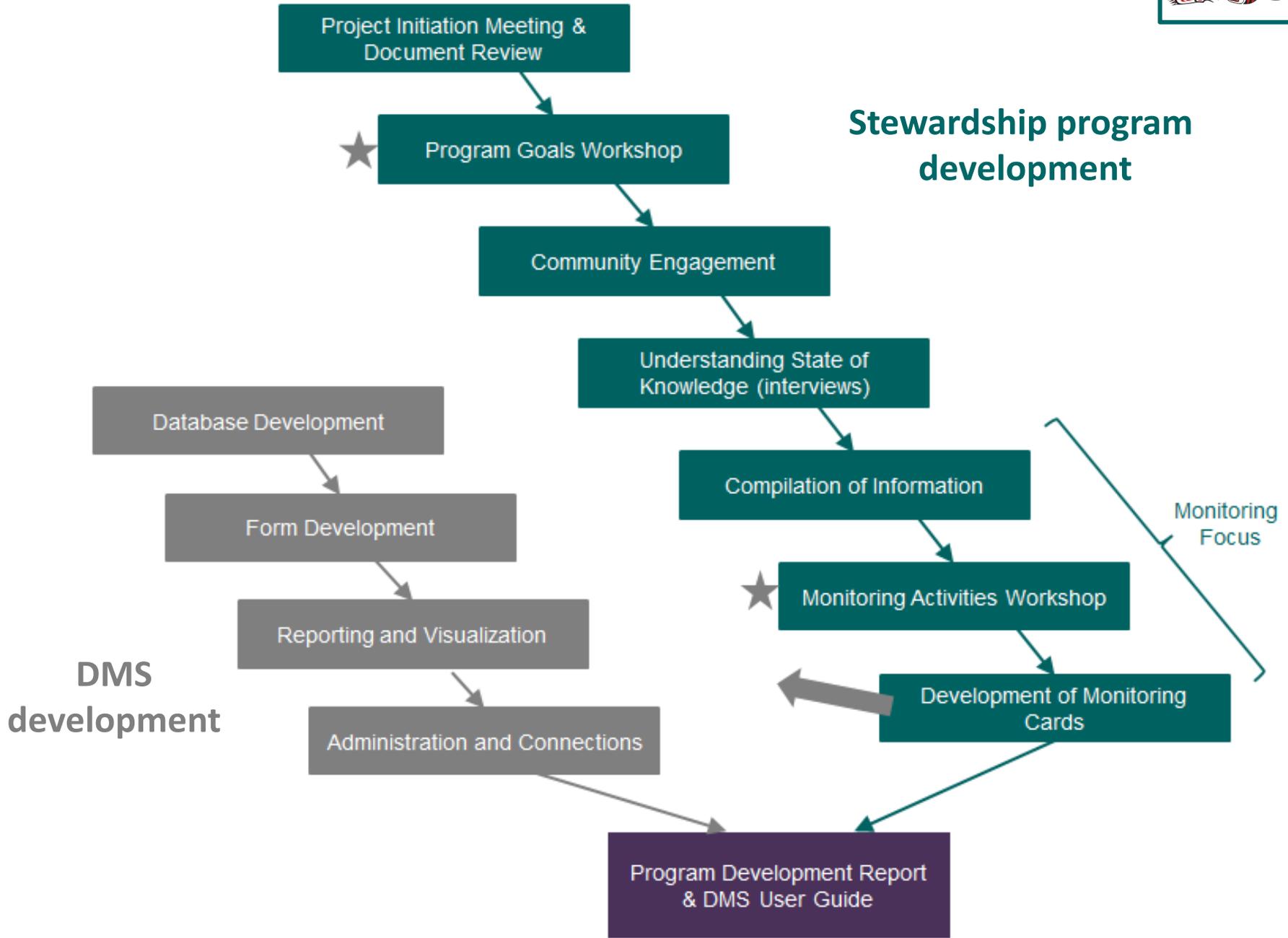


Stewardship Program



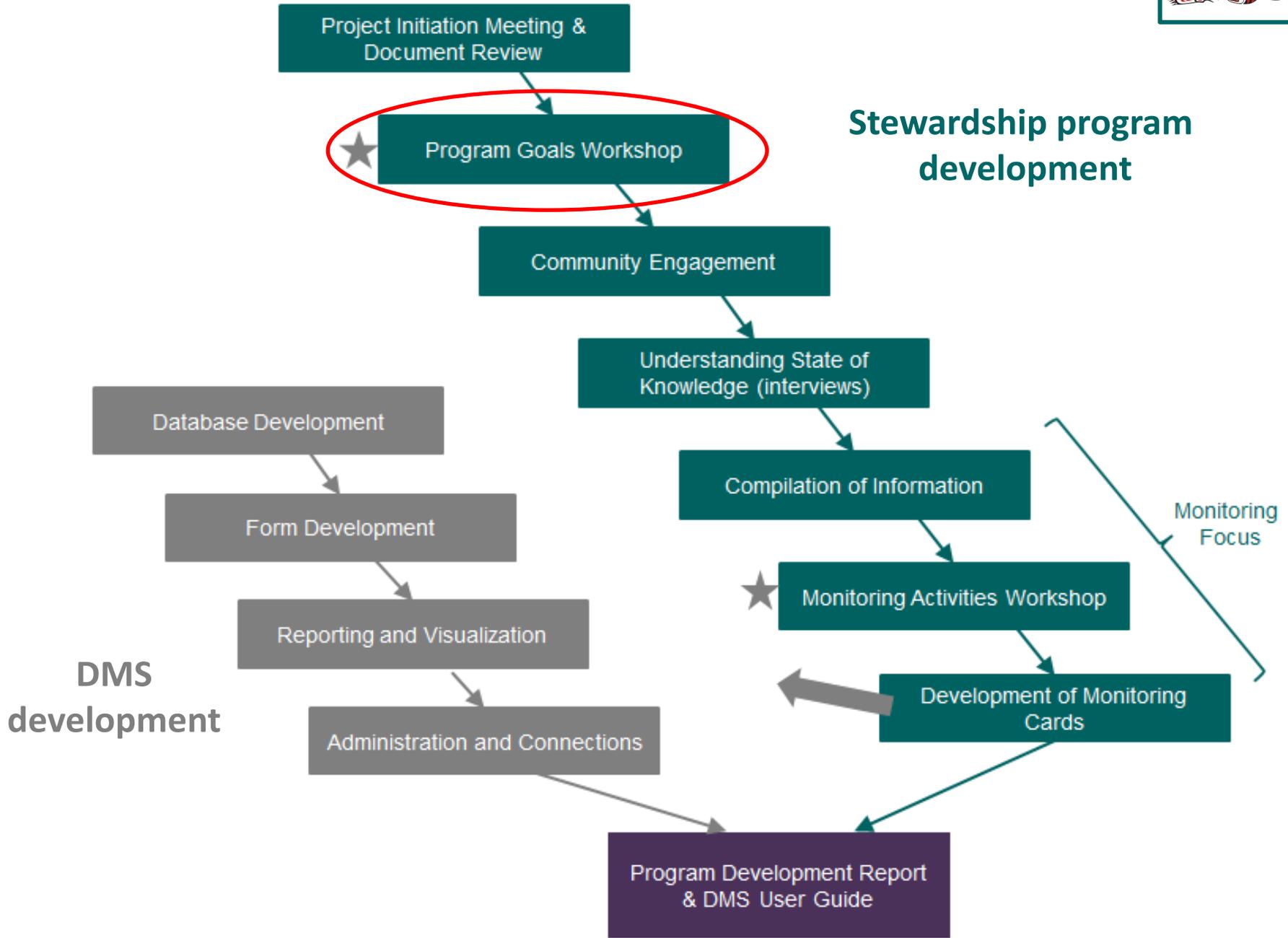
Stewardship Program

- **Support program development**
Validate program goals, document key issues and concerns, identify key monitoring activities, and develop methods and protocols for undertaking the monitoring activities
- **Develop a data management system (DMS)**
To store program information, including a robust database and key data input functionality





Stewardship Program Development





Project Initiation Meeting & Document Review

★ Program Goals Workshop

Community Engagement

Stewardship program development

Objectives:

- Understand the factors that lead to the creation of the KCFN Stewardship Program
- Confirm the goals of the program
- Gain initial insights about the community issues and concerns that will be further explored during community engagement

DMS development

Administration and Connections

Development of Monitoring Cards

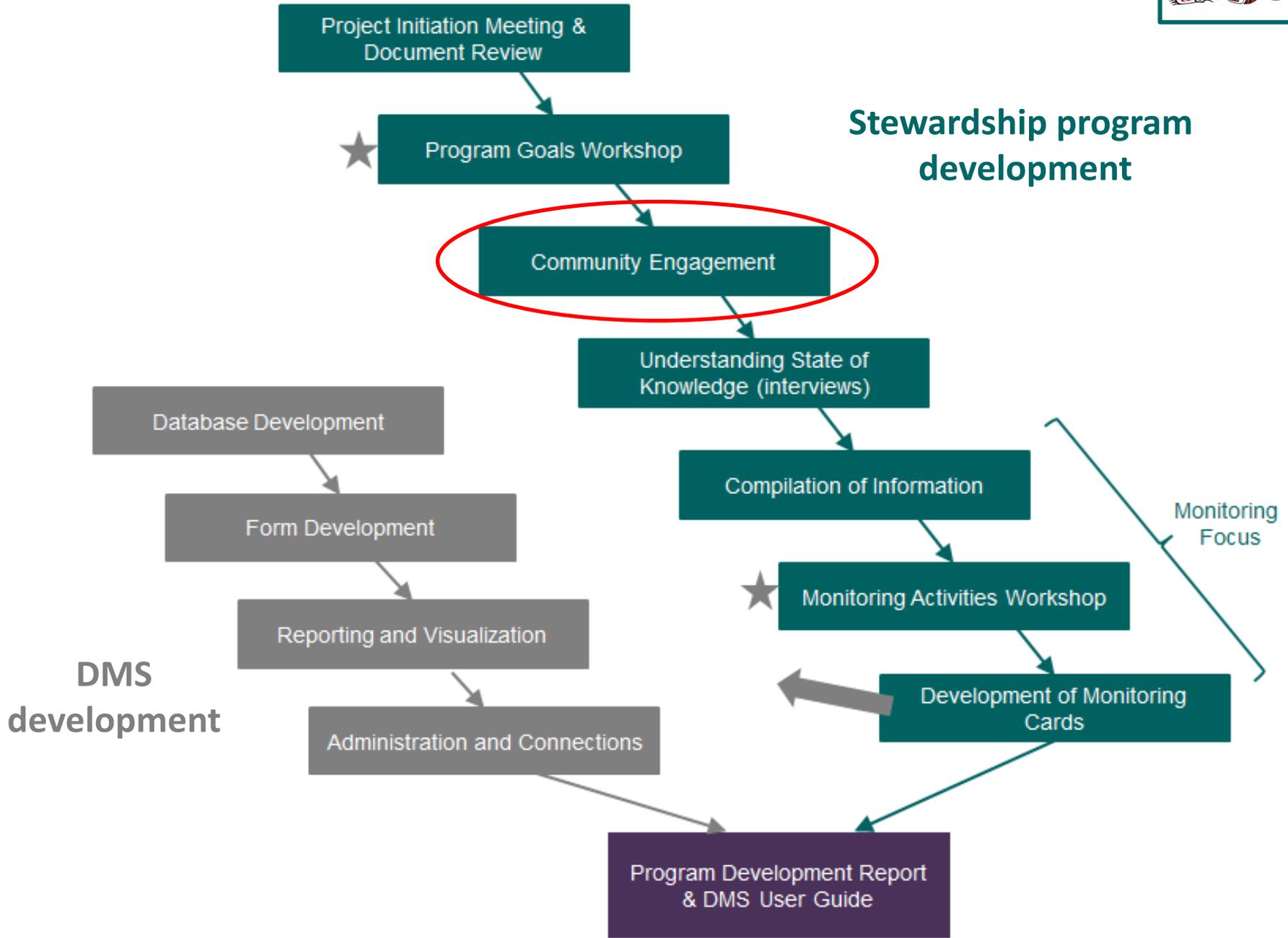
Program Development Report & DMS User Guide



Program Goals Workshop



- Why a Stewardship Program?
 - Mitigate current environmental impacts, and enhance / restore lands and waters for future generations
 - Document changes with monitoring
 - Improve decisions
 - Establish KCFN's authority as stewards
 - Revitalize KCFN culture and traditions
- *The program should be guided by Nuu-chah-nulth sacred principles, recognizing that everything is connected, honoring respect for all things, and taking care of present and future generations.*





Project Initiation Meeting & Document Review

★ Program Goals Workshop

Community Engagement

Understanding State of Knowledge (interviews)

Database Development

Compilation of information

Objectives:

- Review Stewardship Program goals
- Discuss issues and concerns that could be addressed through Stewardship Program activities

DMS development

Administration and Connections

Cards

Program Development Report & DMS User Guide

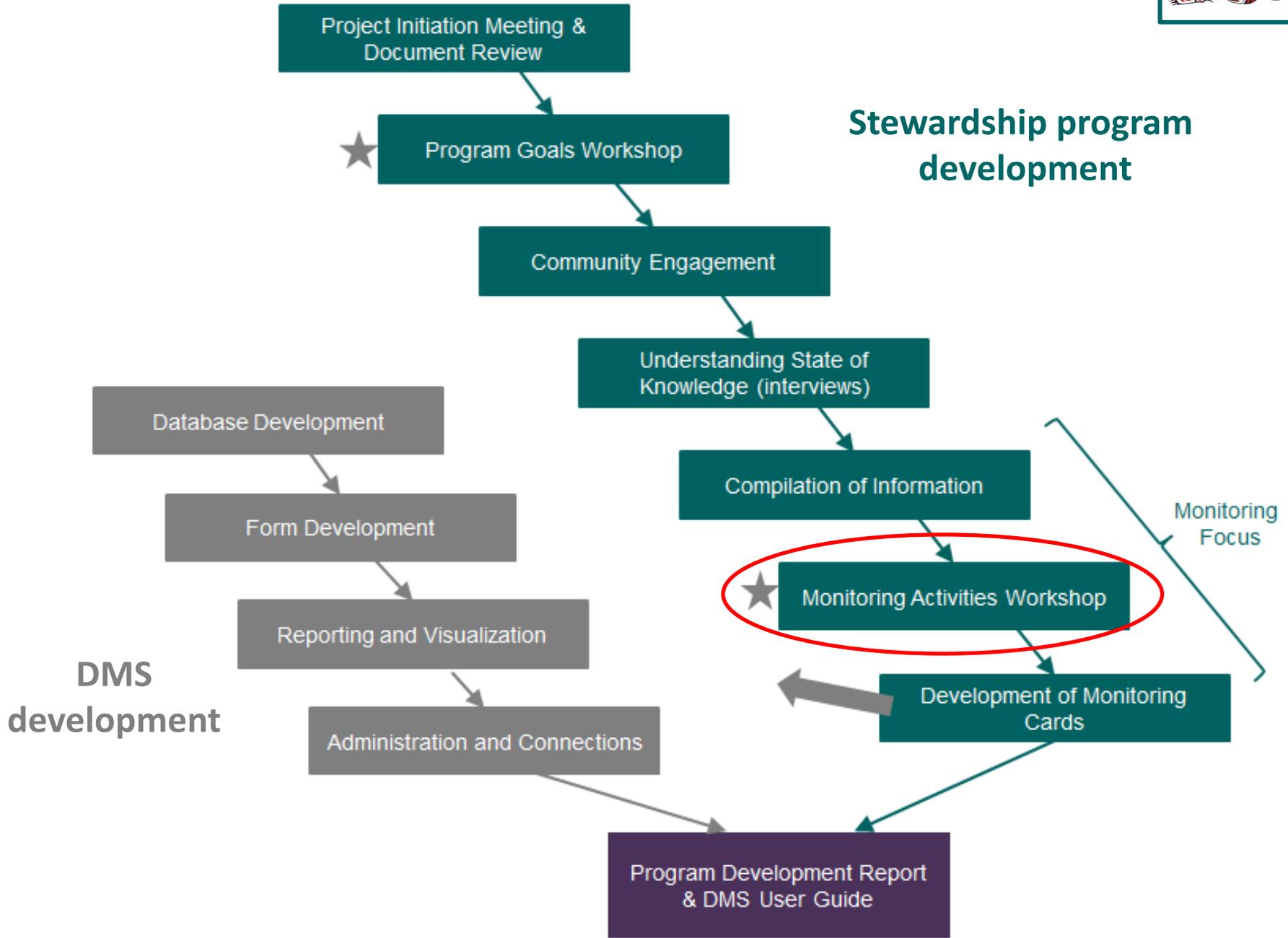
Stewardship program development



Community Engagement



- Monitor and adapt to **climate change**
- Identify and protect **cultural sites**
- Restore and protect **access to traditional foods**
- Restore **ecosystem balance**
- Conduct **outreach with visitors**
- Have **oversight over industry**
- Document **unwanted activities**
- Follow up on **community member concerns** and report back





Project Initiation Meeting & Document Review

Objectives:

- Review outputs from the community engagement meetings
- Discuss the types of monitoring activities the program should pursue in the next few years
- Identify the activities for the program should focus on in the near term and the ones for monitoring card development

Stewardship program development

Compilation of Information

Monitoring Activities Workshop

Development of Monitoring Cards

Monitoring Focus

Form Development

Reporting and Visualization

Administration and Connections

Program Development Report & DMS User Guide

DMS development



Program Goals



- 1. Affirm KCFN as stewards of the KCFN hahuulth and Treaty Lands**
- 2. Protect ecological balance and cultural heritage places**
- 3. Gather data to improve decisions regarding the KCFN hahuulth and Treaty Lands**



Integrated Monitoring Activities List

Completed / Ongoing

- Sea otter (complete)
- Green crab
- Ungulates
- Bivalves (intertidal surveys, harvest beaches)
- Boat monitoring
- Water quality monitoring
- Seals and sea lions (complete)

Planned / Desired

- Culturally modified trees
- Cultural sites
- Forestry
- Abalone, Gooseneck, Urchin, Sea Cucumber, Mussels, Barnacles
- Traditional harvest foods

- Wolves
- Kelp
- Birds (marbled murrelet; puffin)
- Bears
- River flows & temperature
- Fish stocks
- Micro-Trolling
- Habitat restoration
- Invasive species (other than green crab)
- Tourism & recreation
- Vessel traffic
- ORR: Suspicious Activities (Observe, Record, Report)
- Climate Indicators



Monitoring Cards

Ecological & Cultural Status & Condition

- **Invasive Species: Green Crabs**
- **Dungeness Crab**
- **Terrestrial Predators**
(wolves, bears)
- **Ungulates** (deer, elk)
- **Intertidal Invertebrates**
(bivalves: oyster, clam, mussel; gooseneck and other barnacles)
- **Subtidal Invertebrates**
(abalone, sea urchin, sea cucumber)
- **Marine Predators**
(sea lions, seals, sea otters)
- **Abiotic Indicators**
(climate indicators, water quality)
- **Cultural Sites**

Human Activities

- **Forestry**
- **Boat-based Activities**
- **Opportunistic Observations: Wildlife & Suspicious Activities**



Monitoring Cards



Table of Contents

Introduction and Monitoring Questions

Indicators and Metrics

Decision-Making and Planning Processes

Methodology and Sampling Design Considerations

Sample design

Response design

Skills and Equipment Needs

Data Analysis and Reporting Considerations

Data Management System (DMS) Considerations

Linkages to External Programs and Collaborators

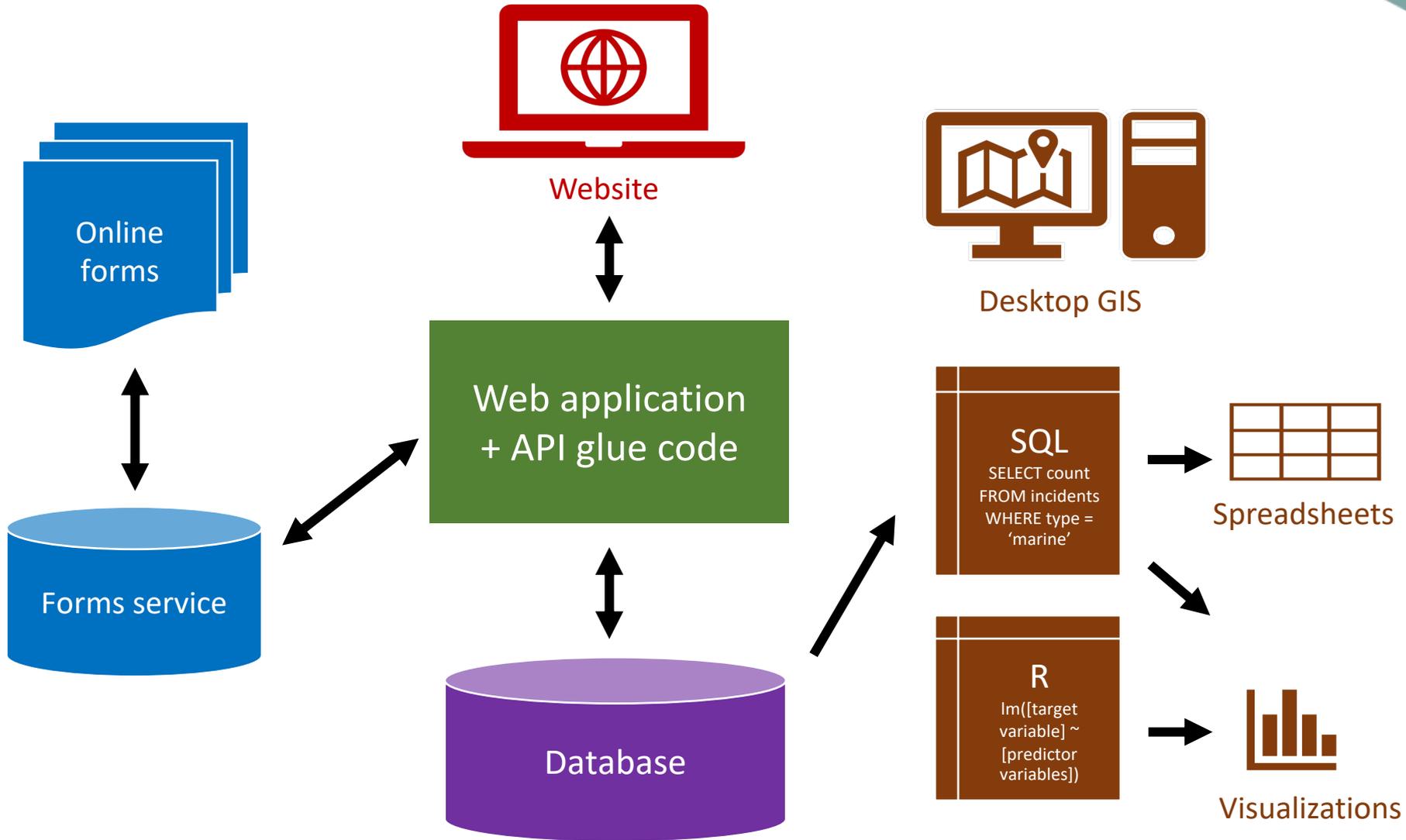
References



Data Management System Development

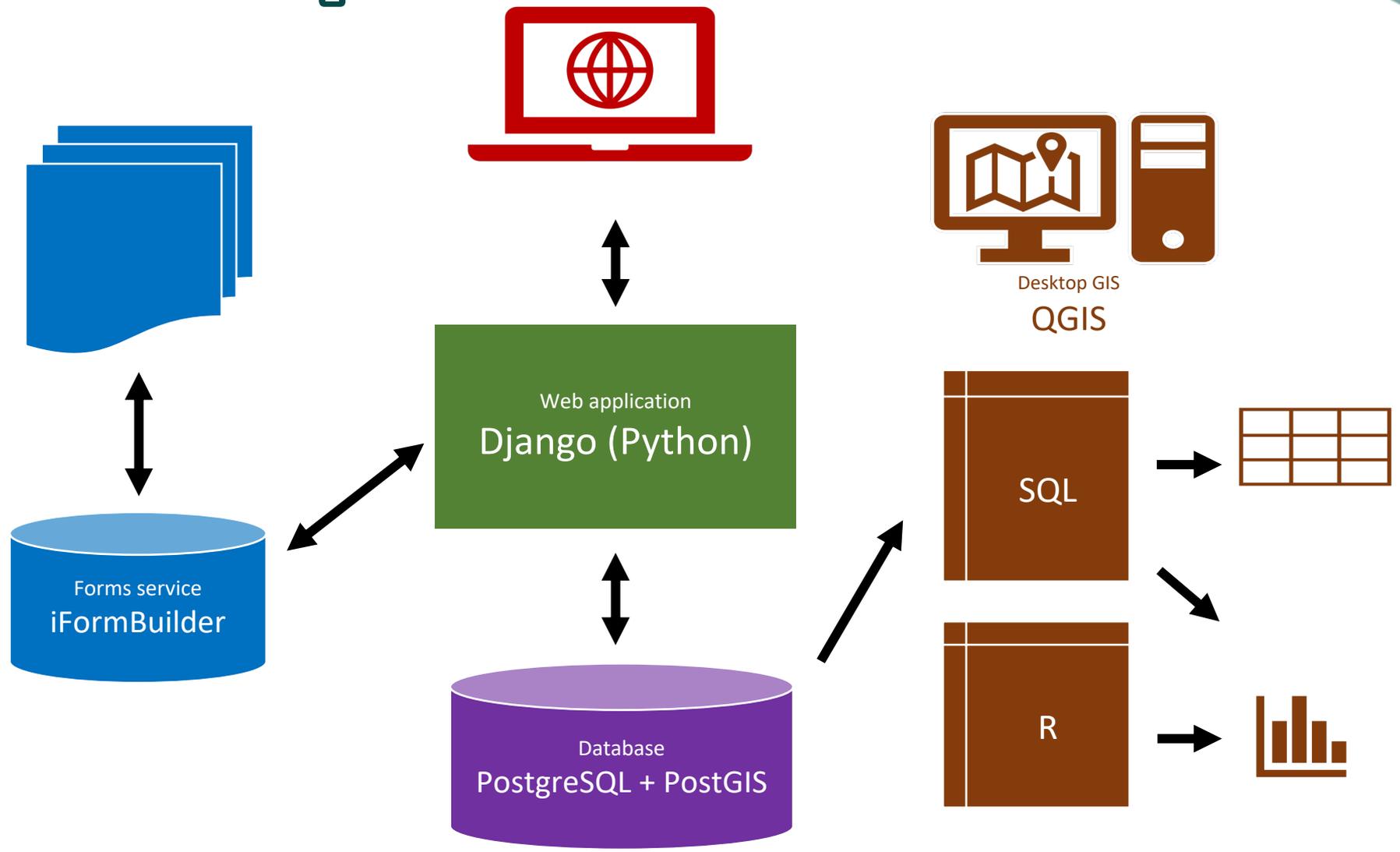


Architecture





Technologies



A misty mountain landscape with a lake in the foreground. The scene is hazy, with layers of mountains receding into the distance. The foreground shows the dark, rippling surface of a lake. The text "Now and Next" is overlaid in white on the left side of the image.

Now and Next





Questions?

Thank You!

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