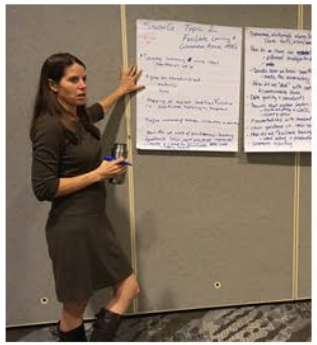


cheers to 20 years

Morning Social in progress; meeting will begin at 9 AM

StreamNet

www.streamnet.org

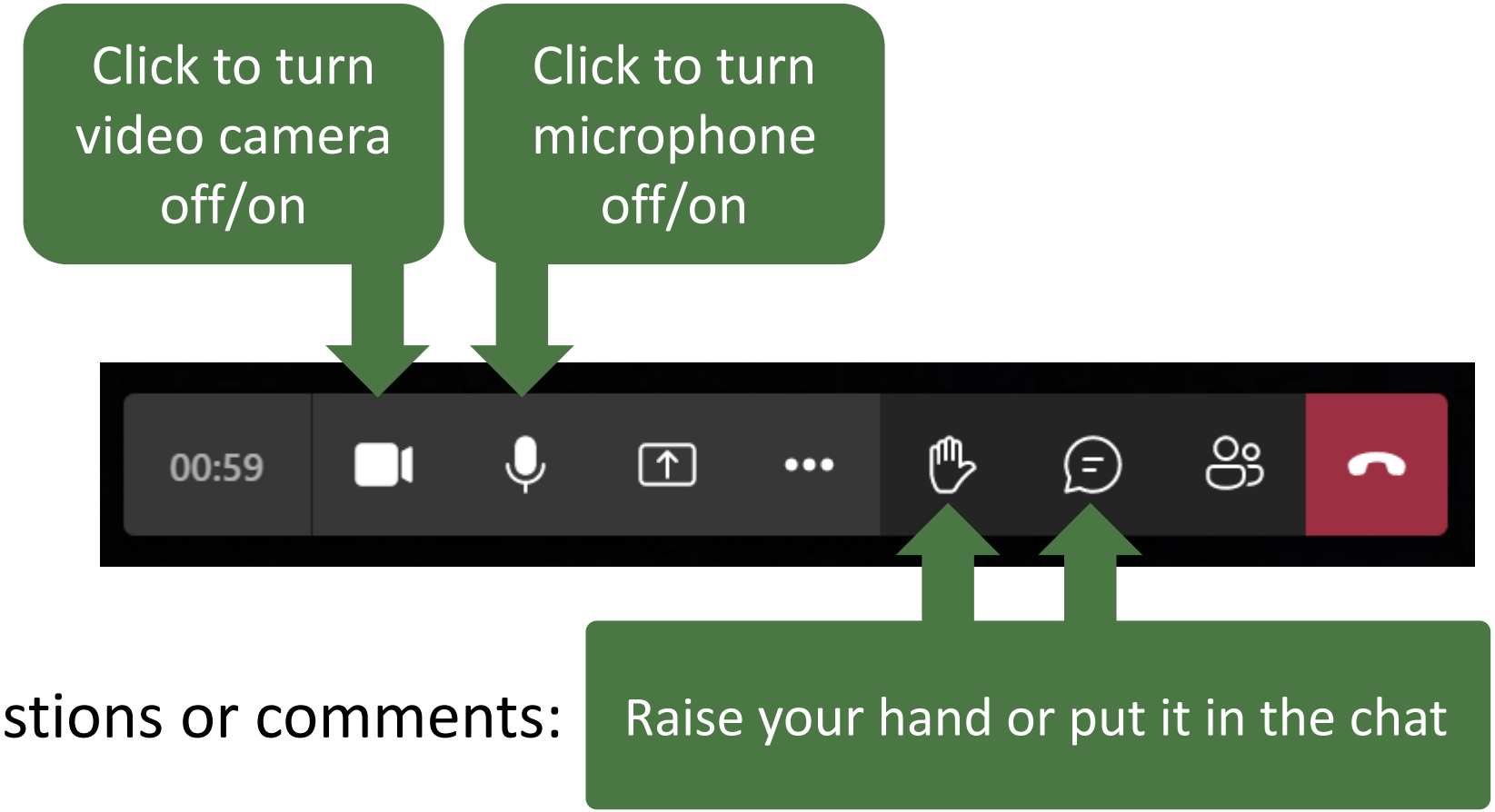
pacific northwest aquatic monitoring partnership

StreamNet Executive Committee & PNAMP Steering Committee Joint Session

November 6-7, 2024

Microsoft Teams Tips

Please turn camera and mic off when not speaking.



Questions or comments:

Welcome!

In the interest of fostering an open and welcoming environment, PNAMP commits to make participation in our activities a harassment-free experience for everyone regardless of age, disability, ethnicity, gender identity and expression, level of experience, nationality, race, religion, or sexual identity and orientation.

Be Respectful **Be Accountable** **Communicate Effectively** **Value Differences** **Collaborate**

Agenda (Pacific)

9:00	Welcome and Introductions
9:15	PNAMP Project Short Updates: - Next step of effectiveness monitoring - Intensively Monitored Watersheds (IMW) - Toxics Monitoring Subgroup (TMS) - MonitoringResources.org
10:10	BREAK
10:30	Welcome - Joint Session of StreamNet Executive Committee and PNAMP Steering Committee
11:00	Updates on StreamNet and PNAMP Collaborations: - Coordinated Assessments Partnership (CAP) - Fish Monitoring Work Group (FMWG) - Salmon Data Mobilization
11:45	LUNCH
12:55	Return from lunch - Afternoon Session starts at 1pm

Image: Microsoft Stock

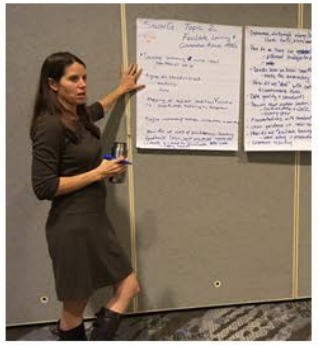
Founding Partners and Steering Committee

Bonneville Power Administration	Jim Geiselman
California Department of Fish and Wildlife	Scott Downie
Columbia Basin Fish & Wildlife Authority	Frank Young
Columbia River Inter-Tribal Fish Commission	Phil Roger
Colville Confederated Tribes	Keith Wolf
Environmental Protection Agency	Dave Powers
Idaho Department of Fish and Game	Pete Hassemer
National Oceanic and Atmospheric Administration NWFSC	John Stein
Northwest Indian Fisheries Commission	Bruce Davies
Northwest Power and Conservation Council	Steve Waste
Oregon Watershed Enhancement Board	Greg Sieglitz
Pacific States Marine Fisheries Commission	Bruce Schmidt
U.S. Army Corps of Engineers	Paul Ocker
US Bureau of Land Management	Al Doelker
US Bureau of Reclamation	Michael Newsom
US Forest Service	Linda Ulmer
US Geological Survey	David Busch
Washington Department of Fish & Wildlife	Dan Rawding
Washington Governor's Salmon Recovery Office	Steve Leider
Washington Salmon Funding Recovery Board	Bruce Crawford
Washington State Department of Ecology	Steve Butkus

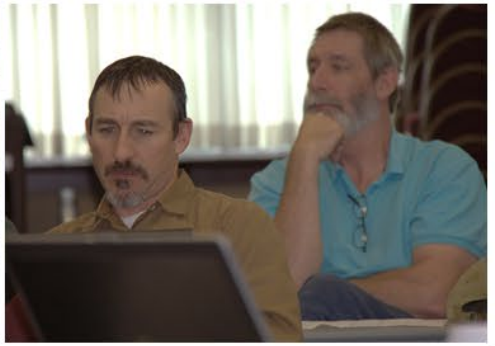
Current Steering Committee

Bonneville Power Administration	Jody Lando/Russell Scranton
California Department of Fish and Wildlife	*Vacant*
Columbia River Inter-Tribal Fish Commission	Denise Kelsey/Sheryn Olson
Colville Confederated Tribes	John Arterburn
Environmental Protection Agency	Lisa Kusnierz
Idaho Department of Fish and Game	Tim Copeland
National Oceanic and Atmospheric Administration NWFSC	Chris Jordan/Katie Barnas
National Oceanic and Atmospheric Administration	Greg Sieglitz
Northwest Indian Fisheries Commission	Bruce Jones
Northwest Power and Conservation Council	Patty O'Toole
Oregon Watershed Enhancement Board	Courtney Shaff/Ken Fetcho
Pacific States Marine Fisheries Commission	Nancy Leonard
U.S. Army Corps of Engineers	*Vacant*
US Bureau of Land Management	Mike Brown
US Bureau of Reclamation	*Vacant*
US Forest Service	Christine Hirsch
US Geological Survey	Steve Waste
Washington Department of Fish & Wildlife	Phil Sandstrom
Washington Governor's Salmon Recovery Office	Greer Maier
Washington State Department of Ecology	Ed Krynak

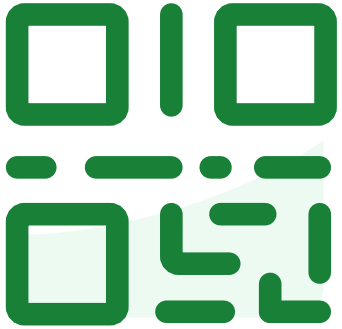
pacific northwest aquatic monitoring partnership



cheers to 20 years



PNAMP Fun Facts



Join at slido.com
#teamwork

ⓘ Start presenting to display the joining instructions on this slide.

slido

How many total steering committee members have there been since PNAMP's start in 2004?

ⓘ Start presenting to display the poll results on this slide.

slido

Approximately how many people have participated in PNAMP activities over time?

ⓘ Start presenting to display the poll results on this slide.

slido

PNAMP Fun "Facts"! Which of the following statements are true?

ⓘ Start presenting to display the poll results on this slide.

PNAMP Project Short Updates

Image: Microsoft Stock

PNAMP: What, How?

Communities of Practice

Host meetings, workshops, work groups to share information about monitoring methods, design and results

Collaborative Projects

Develop strategies for more standardized and coordinated regional monitoring (methods, design, analysis) and improved access to data and information

Tools & Resources

Develop and support users of online tools to support consistent and detailed documentation for projects & datasets

Effectiveness Monitoring Work Group

Levels-of-Evidence Approaches

The levels-of-evidence approaches consist of at least three interdependent appro
monitoring actions to determine biological benefit:

(1) ***Watershed-scale Monitoring***—This approach is similar to IMWs, but is impl
a sub-population scale (a watershed scale smaller than the geographic area
population). As with IMWs, this approach may include control-treatments in m
habitat action types or single action types. Because watershed-scale monitori
not directly measure the effects of actions at the population scale, status/tren
monitoring should be used to assess possible changes at the scale of the pop

(2) ***Project-based Monitoring***—Project-based monitoring includes measuring pl
biological effects of individual actions at a reach or habitat unit scale. Becaus
of monitoring does not directly measure the effects of actions on the populati
complementary status/trend monitoring is needed to assess possible change
scale of the population. Effects of individual actions or classes of actions can
assessed through extrapolation of action influence and modeled connection
condition to population processes.

(3) ***Status/Trend Monitoring***—Status/trend monitoring of population productivity
habitat condition is a long-term effort (decades) that can assess effects of act
through correlation of productivity change to habitat condition and action repo
Status/trend monitoring provides higher certainty of inference if before-after d
collected at the population scale and physical and biological effects are meas
reach or habitat unit scale.

These approaches are not mutually exclusive, and as shown in Table 4, lie along
of inferential certainty from relatively strong to relatively weak. IMWs provide more inferential
certainty at the population scale than do levels-of-evidence approaches, to the extent that
IMWs are design-based at the population scale. That is, inferences from IMWs are based on

Assessing Effectiveness

- Different monitoring approaches with important trade-offs
- Status & trends is part of assessing effectiveness

Approach	Where applied	How long?	Certainty	Opportunities
		Short	High	Rare
Intensively monitored watersheds (IMW)	Population & watershed			
Sub-watershed monitoring	Subpopulation or sub-watershed			
Local project assessments	Site or stream reach			
Status & trend monitoring	Population & ESU	Long	Low	Many

2007. From “IMWs in Context” by PNAMP Effectiveness Mon Work Group

Intensively Monitored Watersheds

What's new

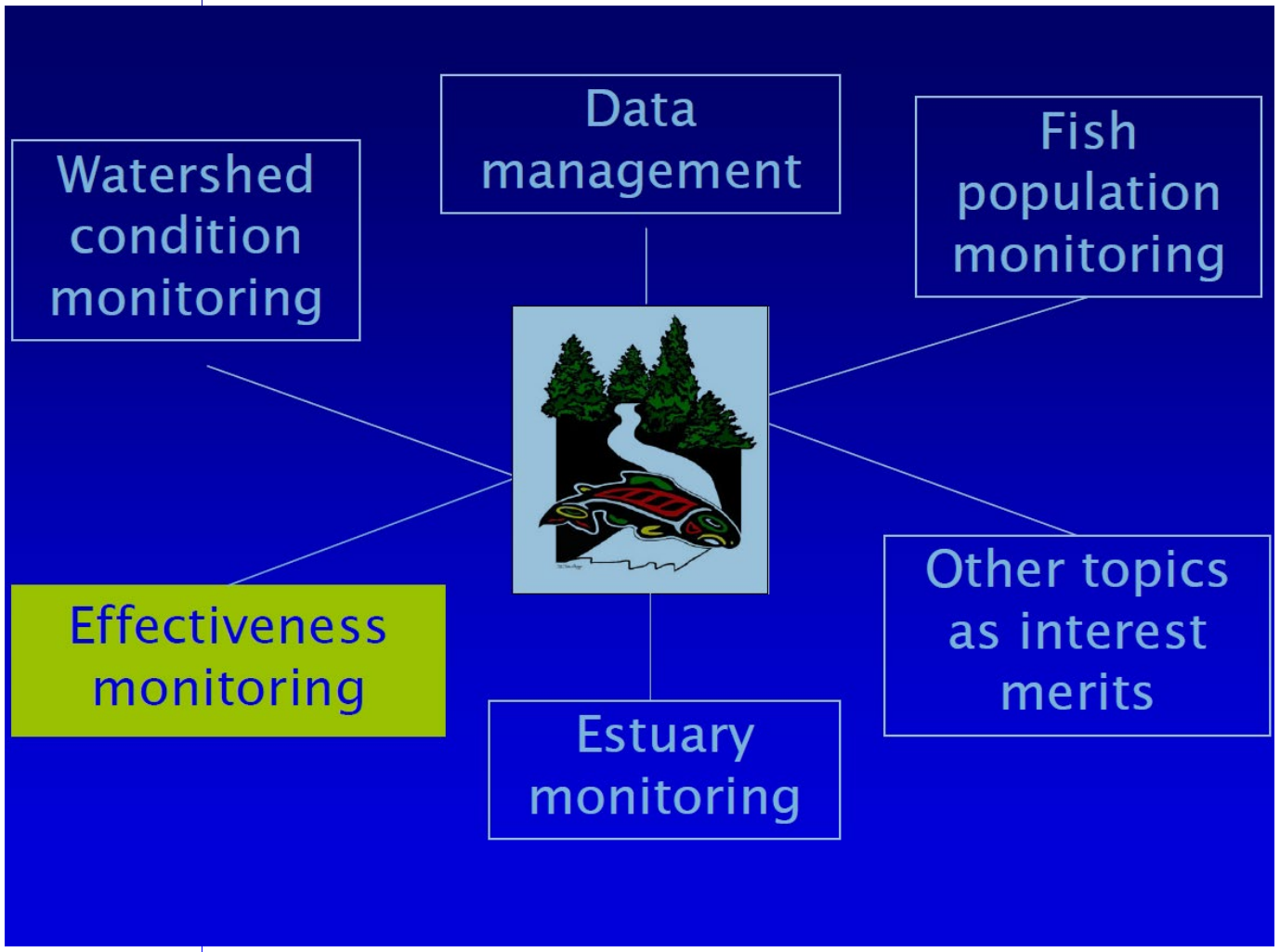
- Submitted abstracts for an IMW Lessons Learned session at the Salmon Recovery Conference (April 28-30, 2025 in Yakima, WA)
- Convened small group to plan workshop(s) to develop a vision for what's next for large-scale effectiveness monitoring

Image: Greg Shine

PNAMP's History with Effectiveness Monitoring

Today we have Projects:

- Habitat Data Sharing
- Data Mgmt & Mobilization
- Fish Population Monitoring
- Effectiveness Monitoring
  - IMW Forum
- Other Topics
  - Remote Sensing Forum
  - Monitoring Resources
  - Toxics Monitoring Subgroup
  - Emerging Tech Info Sessions



From 2006 PNAMP presentation by Steve Leider to NPCC

Discussion:
What's Next for Effectiveness Monitoring?

- What is important to PNAMP Partners?
- How can we use PNAMP processes to help Partners identify solutions?
  - Visioning Workshop(s)?
  - What else?
- How can we capitalize on past collaborations and our current Communities of Practice to address these needs?

Image: Microsoft Stock

Toxics Monitoring Subgroup (TMS)

Purpose: Provide a forum to exchange toxics monitoring information, discuss challenges, and coordinate monitoring activities.

Three virtual meetings and one workshop each year

COLUMBIA RIVER BASIN
RESTORATION PROGRAM

EPA

USGS
science for a changing world

Toxics Monitoring Subgroup

Collaborative tasks

- Identify data gaps and areas of synergy for sampling and data management
- Develop recommendations for common collection and analytical methods to enable cross-project data comparisons
- Discuss and agree on screening values/thresholds for specific constituents to be monitored

Monitoring Resources User Support

- Recent Accomplishments
  - Displayed nearly 4800 data collection events from the BLM AIM program on to our Explorer maps
  - Provided a Monitoring Resources Orientation to BPA CORs
  - Updated guidance documents
  - Provided 1-to-1 user support work sessions
  - Documented best practices methods from:
    - AFS – Methods for Fish Biology
    - AFS – Fisheries Techniques
- What's Happening Next
  - Continued support for PNAMP, StreamNet, and BPA working groups
    - Salmon Data Mobilization, CAP/HCAX, FMWG, etc.
  - A survey to users to determine what support or training is most desired
  - Further documentation of best collection/analysis practices
  - Update any necessary guidance and training
  - Present a Monitoring Resources overview to the NPCC staff


Image: Sam Cimino

Monitoring Resources Development

- Recent Accomplishments
  - Documenting Actual Data Collection Events after field work made easier
  - Provided necessary “tune-ups” to libraries and maps to ensure Monitoring Resources longevity
  - Simplified the process of collaborating on products within Monitoring Resources
  - Created a more user-friendly/easier to maintain discovery map
- What’s Happening Next
  - Continue to simplify the documentation process and access to the metadata
    - Libraries that highlight best practices
    - Templates that will kickstart the documentation process
    - Increase capacity to compare, harmonize, integrate via LLMs
    - Updates to discovery maps
  - Linking Monitoring Resources to StreamNet and CBFish
    - Create greater interoperability – reduce documentation redundancies
      - Background, objectives, focal species, etc.
  - MonitoringResources.org backend upgrades to stay on pace with CBFish

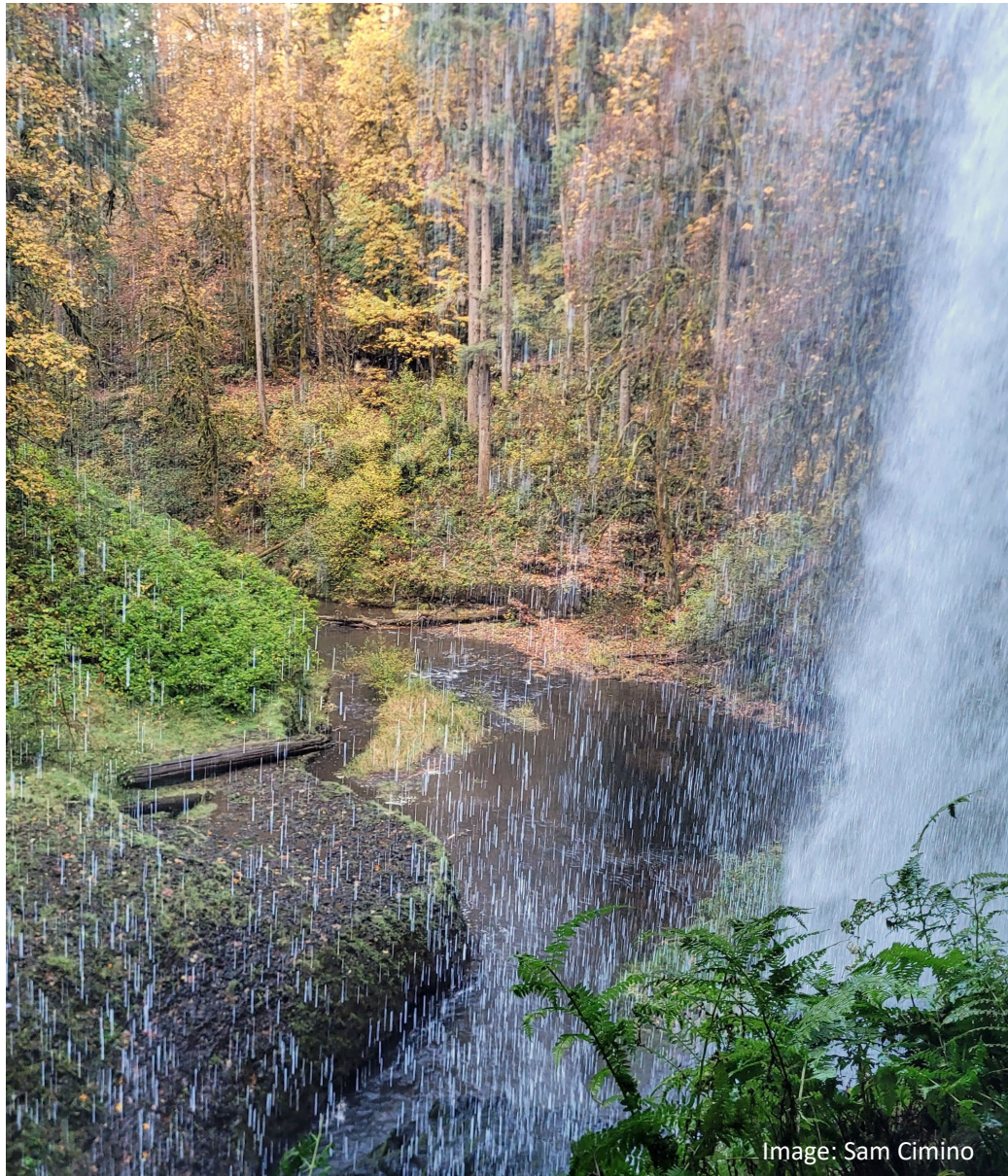


Image: Sam Cimino

BREAK

Return at 10:30 for beginning of the
Joint Session of StreamNet Executive Committee and
PNAMP Steering Committee

Image: Microsoft Stock

Welcome!

Joint Session of the StreamNet Executive Committee & PNAMP Steering Committee

Image: Microsoft Stock

Agenda (Pacific)

10:30 Welcome - Joint Session of StreamNet Executive Committee and PNAMP Steering Committee

11:00 Updates on StreamNet and PNAMP Collaborations:

- Coordinated Assessments Partnership (CAP)
- Fish Monitoring Work Group (FMWG)
- Salmon Data Mobilization

11:45 LUNCH

12:55 Return from lunch - Afternoon Session starts at 1pm

Images: Microsoft Stock

CAP and HCAX

FY24 Accomplishments

- Hatchery Indicator Project (HCAX)
  - Finished data exchange standard, data are flowing
- Implementing changes informed by 2023 CAP Workshop
  - Updates to StreamNet website for usability "Acronym translations"
  - Review fields in existing standards
  - Connecting systems such as CAX/HCAX, Monitoring Resources, other webservices
- Use PNAMP Fish Monitoring Work Group to support CAP needs
- Outreach: CAP Newsletter (2 issues); and Presentations (5):
  - “Teamwork Makes the Dreamwork: Managing Regional Fish and Habitat Data”, 2024 AFS by Sam Cimino;
  - "Building Relationships and Data Sharing Technologies to Inform Regional Decisions", 2024 World Fisheries Congress by Mari Williams;
  - "Collaborative Data Exchange in the Pacific Northwest Through the Coordinated Assessments Partnership", Oregon AFS 2024 by Mari Williams;
  - "Providing Timely Data for Management Decisions through Collaborative Data Exchange in the Pacific Northwest", 2023 AFS national meeting by Mari Williams

CAP and HCAX

FY25 Planned Tasks

- Hatchery Indicator Project (HCAX)
  - Finish query
  - Receive data!
  - User Training Workshop at AFS WA/BC (March 2025) with Canada DFO: *"Tracking hatchery data from eggs to spawners across regions"*
- Implement changes informed by 2023 CAP Workshop
  - Update Terms and Definitions in Standards
  - Consider new standards emerging from FMWG
  - Modernize metadata publishing
  - Connecting systems such as CAX/HCAX, Monitoring Resources, other webservices
- Use PNAMP Fish Monitoring Work Group to support CAP needs
- Outreach: newsletter for CAP Outreach Forum and conduct annual survey of participants

Carrying Capacity Standards

Review of carrying capacity estimation methods, including: Habitat expansion, stock-recruit models, quantile regression, Individual based models, and food web modeling.

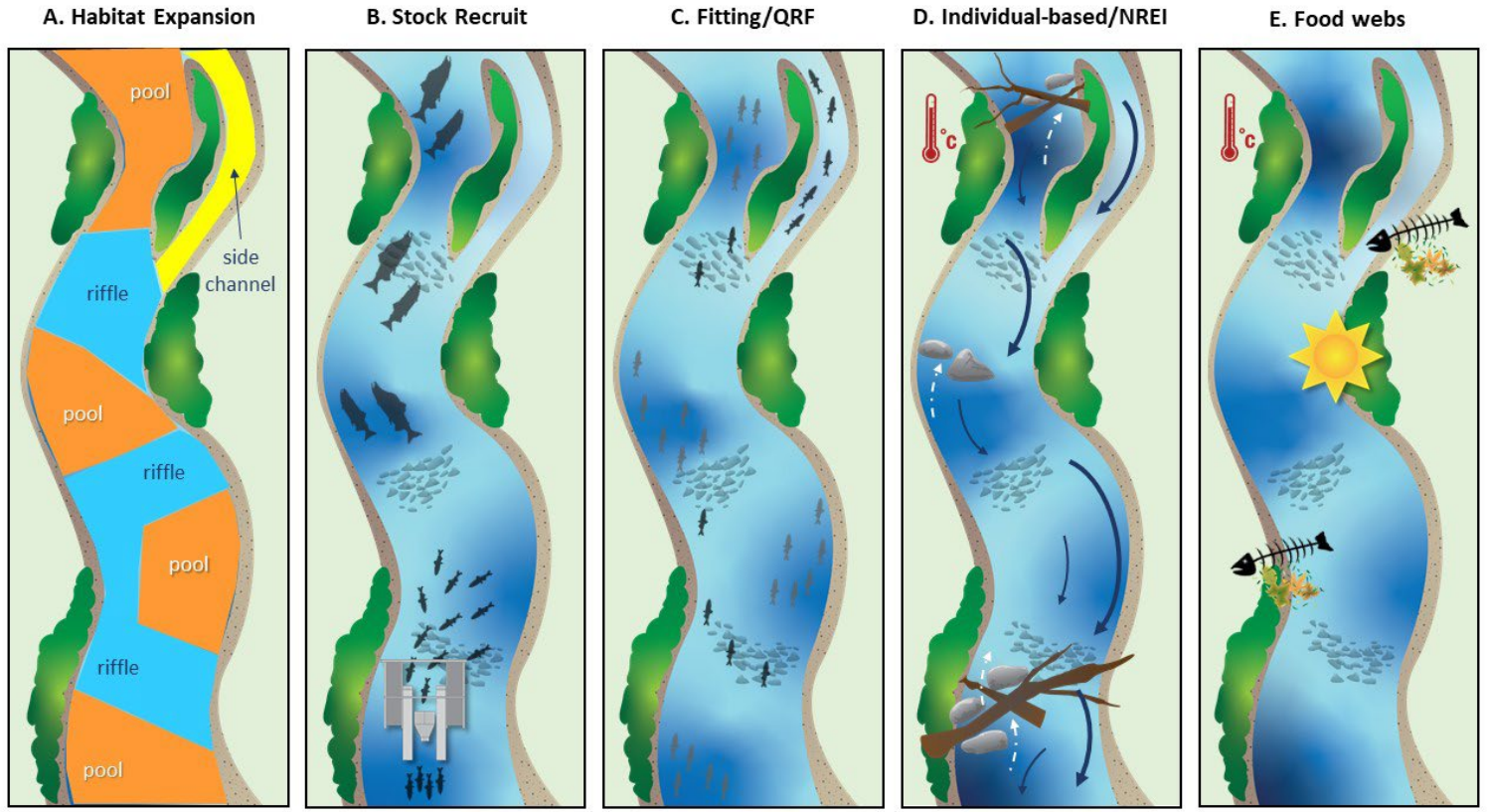
Authors: Morgan H. Bond, Timothy Copeland, Tim Beechie, Sean M. Naman, Joe R. Benjamin, J. Ryan Bellmore, Kevin E. See, Correigh Greene, Jennifer M. Bayer, Megan Dethloff, and Russell Scranton

Progress:

- Authors are editing sections to match tone and brevity
- Editing final discussion section, tables and figures

Next Steps:

- Figures and tables adapted to each authors' section
- Full draft of document for external review



Task Leads:

Morgan Bond (NOAA)
morgan.bond@noaa.gov

Tim Copeland (IDFG)
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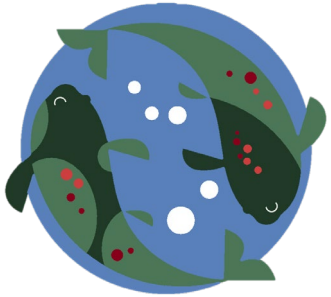
Russell Scranton (BPA)
rwscranton@bpa.gov

Jen Bayer (USGS/PNAMP)
jbayer@usgs.gov

Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov

Image: Morgan Bond, NOAA



Rotary Screw Trap (RST) Data Collection

Purpose: A comprehensive resource for Columbia River Basin rotary screw trap specific information from multiple regional systems and sources.
Current Milestone: working to develop the dashboard as a tool for connecting facility data, location info, contact info for management entity, etc.

Ideas & Planned Dashboard Updates

- More advanced filtering: by year, etc.
- Obfuscate sensitive location info
  - Remove lat/long from data view
- Include trap purpose: LCM, tagging, etc.
- Work with FMWG & PNAMP to have biologists QC CRB data
  - Once dashboard is out of development stage

Explore: Interest and approach for entities to submit non-Columbia River Basin content.

Task Leads:

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rwscranton@bpa.gov

Nancy Leonard (PSMFC)
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Meg Dethloff (USGS/PNAMP)
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Mari Williams (PSMFC)
mwilliams@psmfc.org

Megan Griffiths (PSMFC)
mgriffiths@psmfc.org

Rotary Screw Trap (RST) Data Collection

Timeline/Process

January/February 2025: pick back up active development of dashboard with Neil at QW (pending staff resources)

Spring/Summer: Present dashboard to FMWG

Fall/Winter 2025: Goal is to have the content correct and dashboard UI bugs fixed

Non-CRB Data

- Who is interested in submitting data from outside of the Columbia River Basin?
- Ideas for implementation?
  - Standardize template for entities to populate (individual entity lift)
  - PSMFC staff upload completed standardized template (low lift on staff resources)
  - Other?

Task Leads:

Kasey Bliesner (ODFW)
kasey.bliesner@odfw.oregon.gov

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rwscranton@bpa.gov

Nancy Leonard (PSMFC)
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Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov

Mari Williams (PSMFC)
mwilliams@psmfc.org

Megan Griffiths (PSMFC)
mgriffiths@psmfc.org

PIT Tag Array Data and Related Data Analyses

2024 PTAGIS presentation poll and PNAMP FMWG – PIT task specific survey results

11. Based on feedback from participants at the 2024 PTAGIS workshop, these three needs were identified. Rank your priorities:

More Details

12. Rank **WEBINAR** topic interest from greatest (top) to least (bottom).

More Details

14. Rank **IN-PERSON WORKSHOP** topic interest from greatest (top) to least (bottom).

More Details

Task Leads:

Marika Dobos (IDFG)
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Russell Scranton (BPA)
rwscranton@bpa.gov

Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov

PIT Tag Array Data and Related Data Analyses

Data Management Tools and Training for PIT Tag Detection Data webinar series has been proposed for Feb/March 2025

Potential structure:

Level 1 Training for early career biologists, data managers, and refreshers

a) Mastering advanced reports and data extraction in PTAGIS
b) Mastering skills in Excel for managing PIT detection data
c) Honing skills in R for graphics and managing detection data
d) Honing skills in using PITcleanr

Level 2 Training in data tool repositories

a) GitWhat? Understanding utility and how to's of GitHub
b) Tools to estimate stuff in DART – What does it all mean and is it useful for me?

Task Leads:

Marika Dobos (IDFG)
marika.dobos@idfg.idaho.gov

Russell Scranton (BPA)
rwscranton@bpa.gov

Meg Dethloff (USGS/PNAMP)
mdethloff@usgs.gov

Update Terms and Definitions Used in CAP Data Standards

Task Leads:

Jen Bayer (USGS/PNAMP)
jbayer@usgs.gov

Mari Williams (PSMFC)
mwilliams@psmfc.org

Purpose:

- Review and update terms to ensure accuracy and consistency between DESs
- Will increase confidence in CAP data
- Will enable linking CAP controlled vocabularies to other datasets within PSMFC and externally
- Helps ensure appropriate reuse and supports interoperability across datasets

➢ Very high priority identified at 2023 CAP Workshop

Update Terms & Definitions in CAP Data Standards

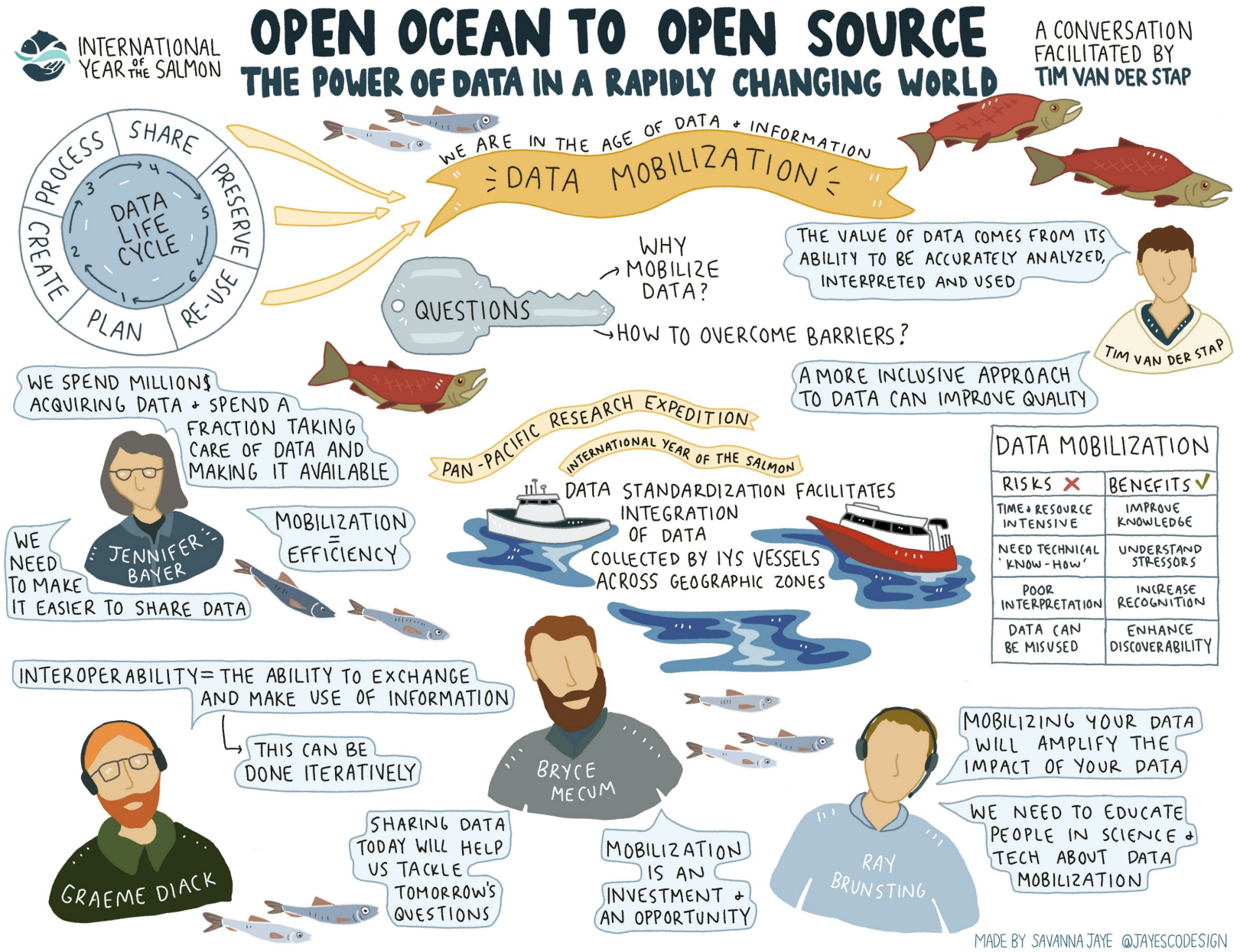
Work to Date:

- extract terms and definitions from CAP and SN DESs, review and flag issues – first round by staff completed.
- provided update to StreamNet SC, shared current draft version, request input as to additional items to be flagged

What's Next:

- **Winter:** collect input from SMEs using MS Forms (i.e. not in person meetings)
- **Spring:** share final draft
- **March:** include updated Terms & Definitions in workshop and/or talks at WA/BC AFS in Vancouver, BC

We're Not Alone in Striving to Make Data Available & Reusable



Salmon Data Mobilization

FY24 Accomplishments

- 2024 AFS WA/BC Chapter symposium co-sponsored by Canada DFO: *Data Longevity Achieved! Reproducibility throughout the lifecycle and beyond*
- Created Research Data Alliance *Salmon Research and Monitoring Interest Group* to formalize ad hoc international working group
- Publication out soon: *Salmon Data Mobilization* Diack et al North Pacific Anadromous Fisheries Commission Bulletin
- Invited participants in emerging Salmon Climate Initiative (SCI; led by Long Live the Kings); bringing monitoring and data mobilization insight to SCI

Image: Jen Bayer

Salmon Data Mobilization

FY25 Planned Tasks

- Host workshop 2025 AFS WA/BC *Fishing for Clarity: Data Exchange via Controlled Vocabularies and Ontologies in Salmon Science* collaboration with DFO Canada, NCEAS, StreamNet, PNAMP and other international partners
- Publish 'how to' paper: *How to mobilize salmon data: a practical guide for salmon data stewards and developers* Brett Johnson, Jennifer Bayer, Tomas Bird, Minh Doan, Lara Erikson, Nancy Leonard
- Launch Research Data Alliance (RDA) Interest Group working groups to address specific aspects such as data standards, interoperability, and capacity building.

Image: Jen Bayer

Next steps and lunch details – Return at 12:55 pm

Image: Microsoft Stock

Welcome Back

Joint Session of StreamNet Executive Committee and PNAMP Steering Committee

Image: Microsoft Stock

Current StreamNet and PNAMP Staff

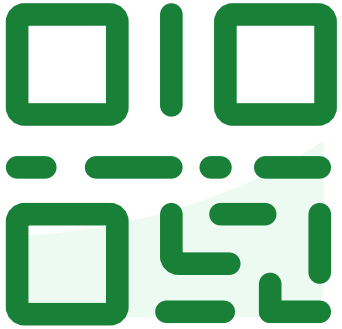
StreamNet Staff (4 FTE)

- Nancy Leonard
- Mike Banach
- Mari Williams
- Greg Wilke
- Monica Diaz
- Megan Griffiths
- Kate Al-Sheikhly

PNAMP Staff (3 FTE)

- Jen Bayer
- Amy Puls
- Megan Dethloff
- Sam Cimino

Image: Microsoft Stock



Join at slido.com
#teamwork

ⓘ Start presenting to display the joining instructions on this slide.

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How many years of collective facilitation experience do current StreamNet and PNAMP staff have?

ⓘ Start presenting to display the poll results on this slide.

slido

How many pets do StreamNet and PNAMP staff currently have?

ⓘ Start presenting to display the poll results on this slide.

slido

Who would win in a dodge ball match?

ⓘ Start presenting to display the poll results on this slide.

Image: Microsoft Stock

Columbia River Inter-Tribal Fisheries Commission Presentation

Emerging Technologies Information Sessions

Collaborative Project Co-Sponsored by PNAMP and PSMFC

Planning committee:

- Kasey Bliesner (ODFW)
- Evan Brown (IDFG)
- Sam Cimino (PNAMP/USGS)
- Megan Dethloff (PNAMP/USGS)
- Lara Erikson (PSMFC)
- Denise Kelsey (CRITFC)
- Nancy Leonard (PSMFC)
- Allan Martin (PSMFC)
- Amy Puls (PNAMP/USGS),
- Mari Williams (PSMFC)

Image: Sam Cimino

Emerging Technologies Information Sessions

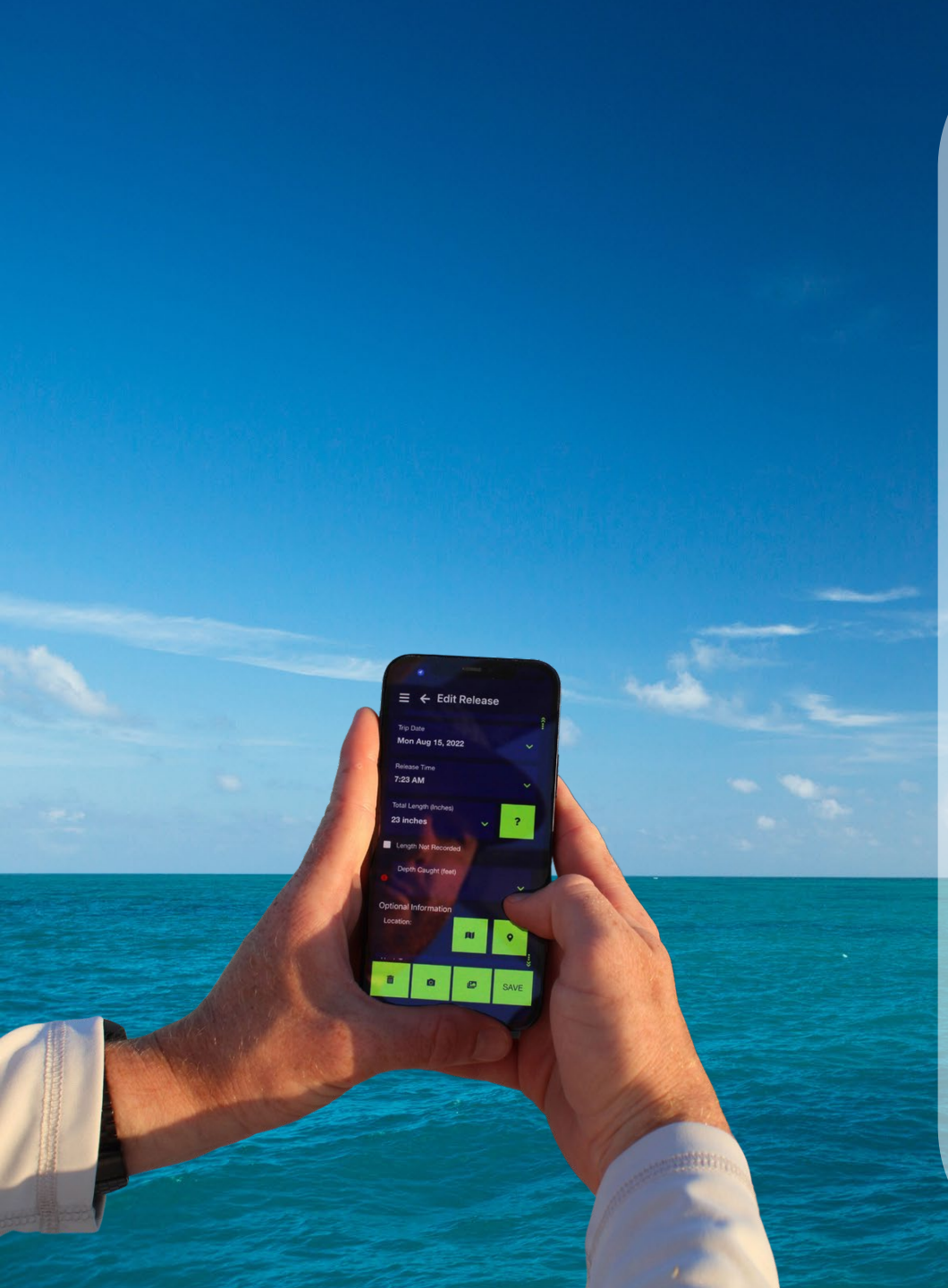
- Recent Accomplishments
  - Surveyed past participants and selected our session topics and series schedule
    - Modeling and Analysis, AI and ML, Data QA/QC, Genetics, and Remote Sensing
    - Every Wednesday January 8, 2025 – February 5, 2025; 9:00 AM – 11:00 AM (Pacific)
  - Identified and secured presenters
  - Created a program
  - Sent an event announcement via the PNAMP Newsletter and opened up registration
- What's Happening Next
  - Provide more outreach to the ETIS community
  - Host the webinar series
  - Post presentations to the PNAMP YouTube Channel

SciFish

FISHERMEN DRIVEN DATA COLLECTION

CITIZEN SCIENCE POWERED BY ACCSP

Julie DeFilippi Simpson
Deputy Director
Atlantic States Marine Fisheries Commission (ACCSP)



SciFish

a customizable citizen science platform for the US Atlantic coast

Julie DeFilippi Simpson, ACCSP

StreamNet PNAMP Meeting

November 2024

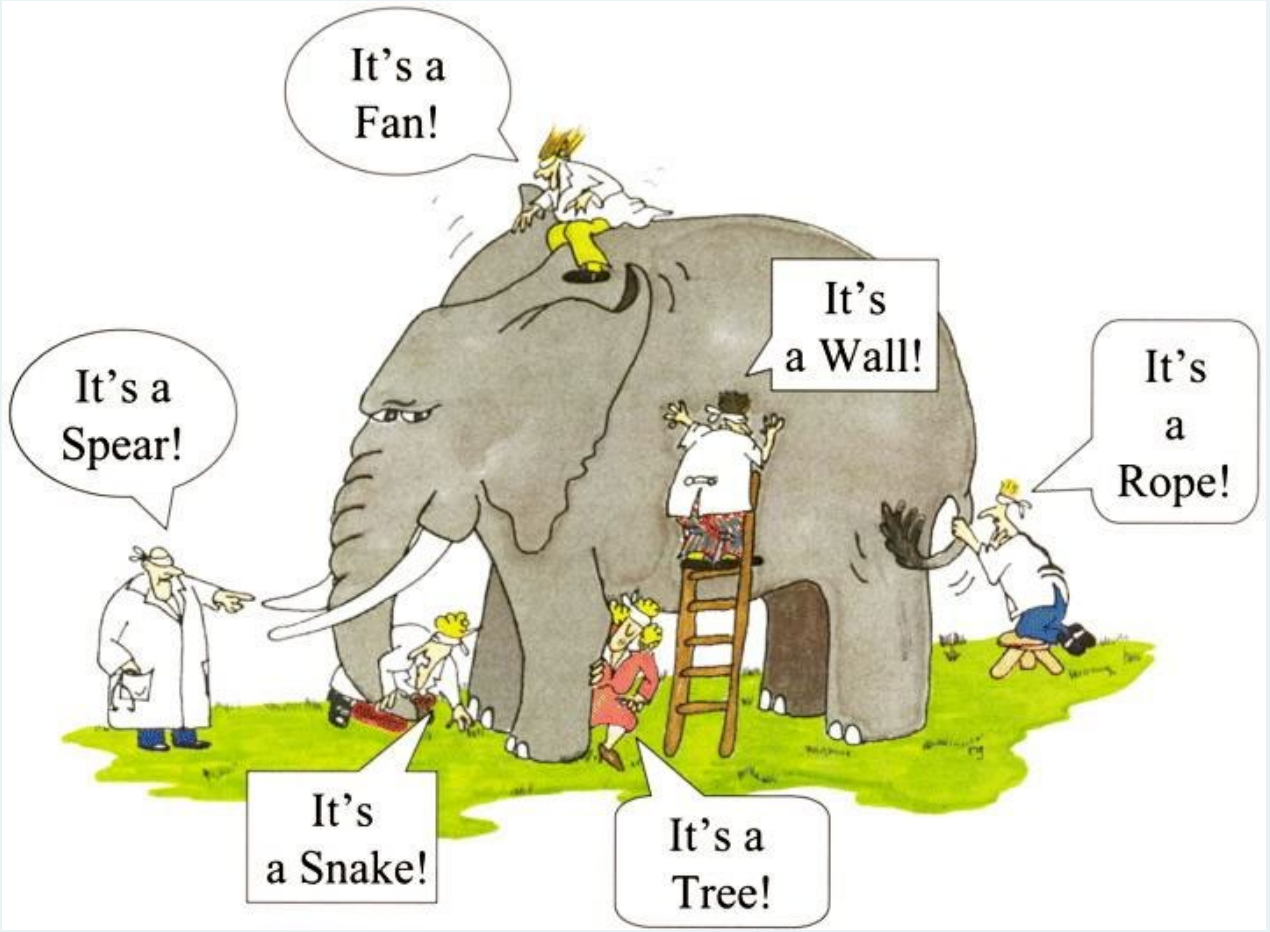
ACCSP

Topics

Citizen Science as a Tool

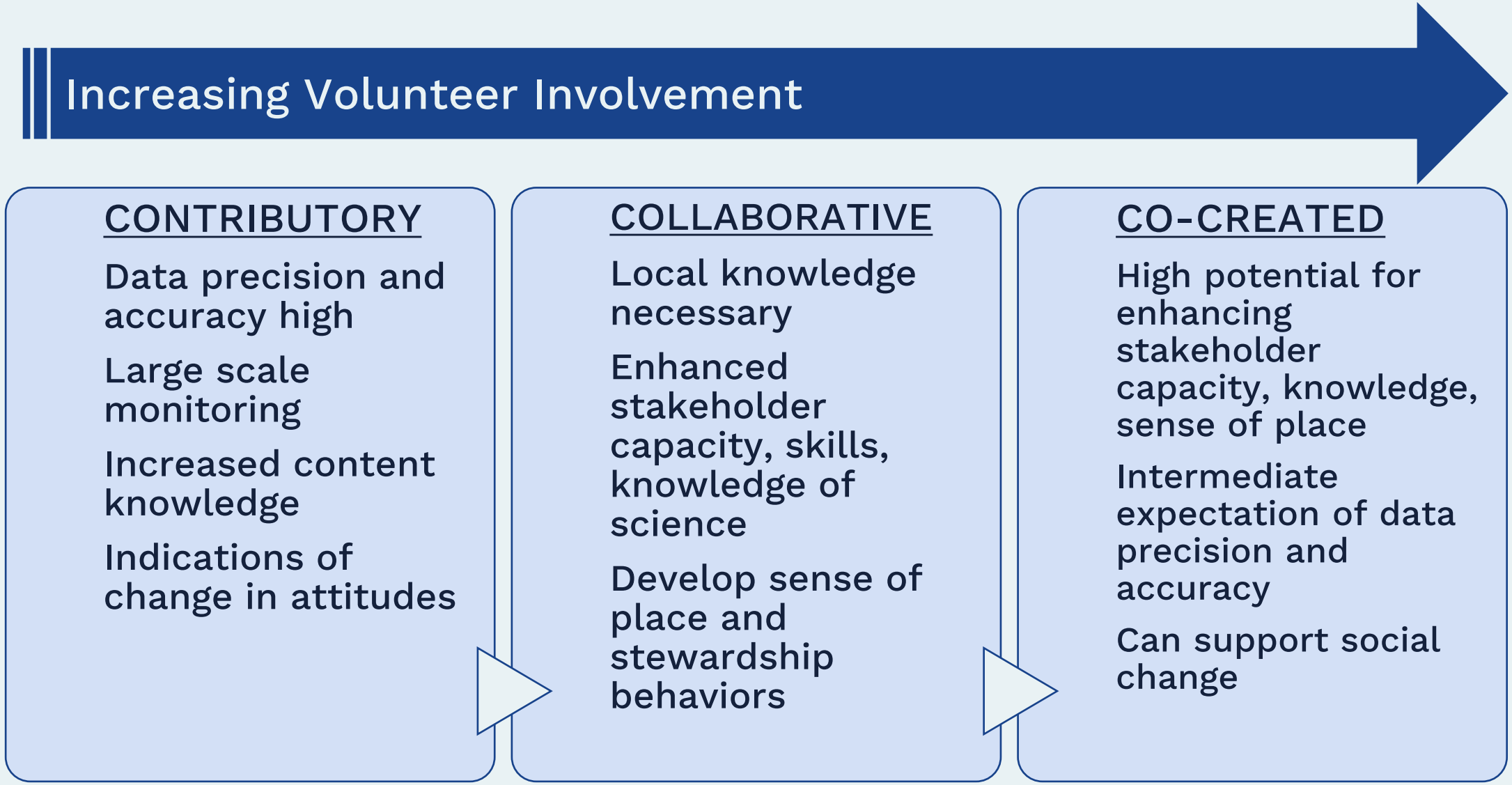
SciFish Platform

Citizen Science



G. Renee Guzlas

Spectrum of Citizen Science



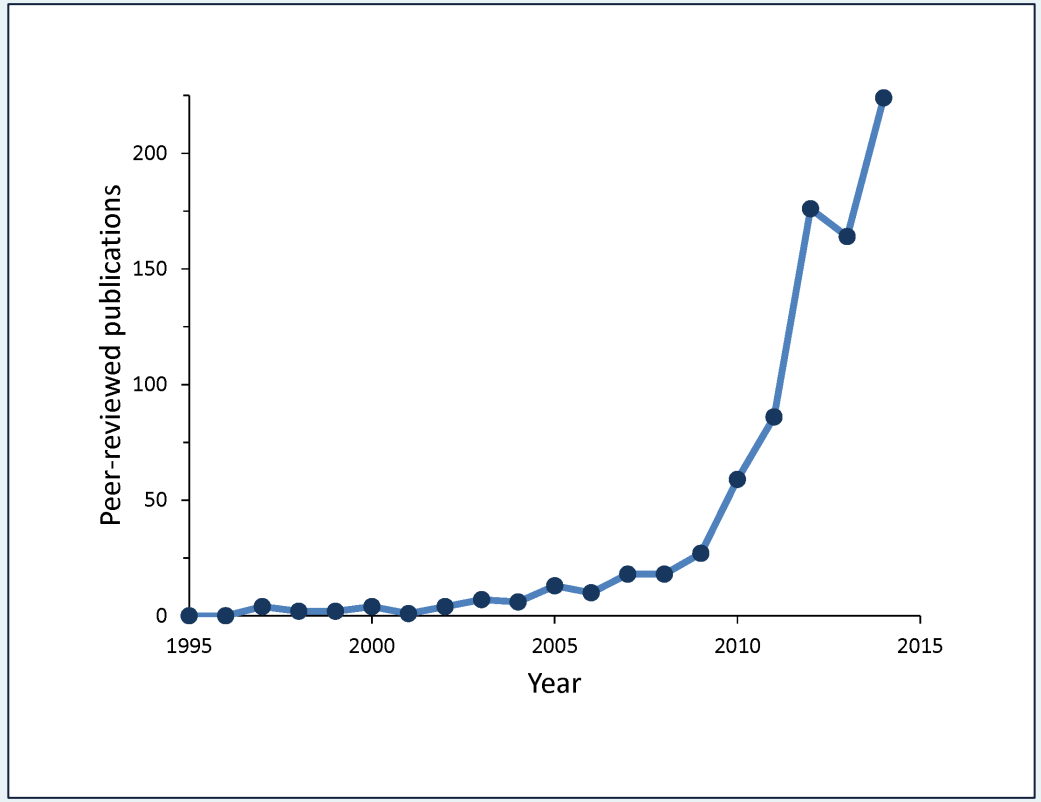
Ecology and Society 17(2): 29

Growing interest in Citizen Science

Increased growth in number of scientific publications that use or study citizen science

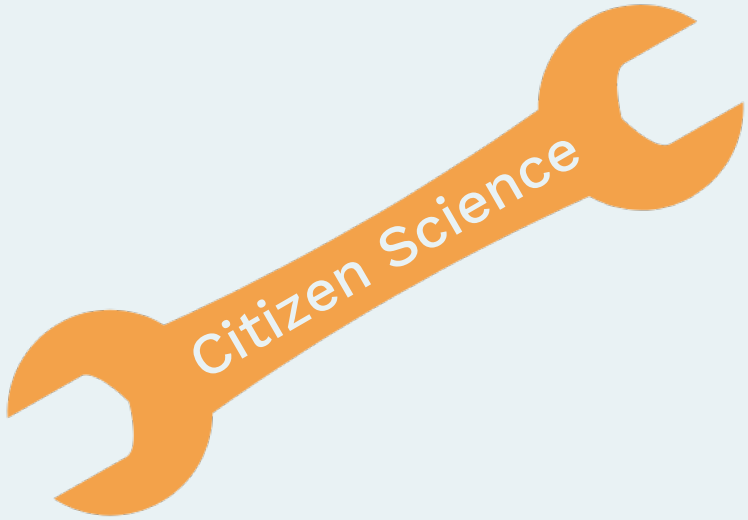
Crowdsourcing & Citizen Science Act of 2016

NOAA named citizen science a Science & Technology focus area in Jan 2020; released their CitSci strategy in Jan 2021 and CitSci action plan in 2023



McKinley et al. 2015

Citizen Science can be a powerful tool



Is it the right tool for your data needs & circumstances?

Is CitSci the Right Approach?

Should you consider a citizen science approach?

Increasing suitability for a citizen science approach

Clarity of aim/question	Importance of engagement	Resources available	Scale of sampling	Complexity of protocol	Motivation of participants
Clear aim/ question	Engagement is important	Plenty of resources	Large-scale sampling	Simple protocol	Good reasons to participate
Vague aim/ question	No engagement or only one-way communication	No resources	Small-scale sampling	Complex protocol	Reasons to participate are not clear

Pocock, M.J.O et al., 2014

CITIZEN SCIENCE POWERED BY ACCSP

SciFish Platform

SciFish Introduction

Growing interest in using citizen science, which is a powerful tool to better understand marine fish populations

Vision: To create a citizen science mobile application that encourages and supports the capture and sharing of data on Atlantic coast fisheries.

Develop a citizen science mobile application and menu-driven project builder interface to eliminate need for stand-alone apps and standardize data collection

SciFish Development Drivers

Reduce costs needed to develop individual applications

Reduce time to create applications from ground up

Increase consistency in data fields and structure

SciFish Approach

- Focus on data collection for marine and/or diadromous fisheries along the Atlantic coast
- Fill data gaps or data deficiencies and address identified research needs
- Use intentional design and clearly articulate how collected data will be used in management and/or stock assessments
- Standardize collection of citizen science data from Atlantic coast fisheries
- Provide a single platform for multiple data collection projects

SciFish Administration & Oversight

Administration through ACCSP

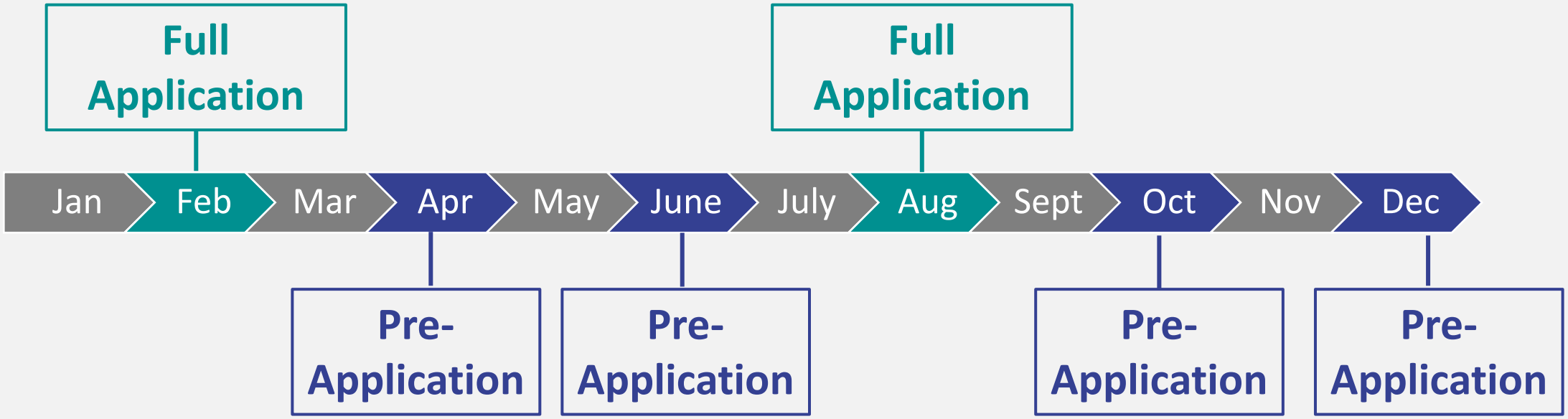
Primary oversight by: SciFish Advisory Panel (SAP)

SciFish Advisory Panel

- Julia Byrd (SAFMC)
- Julie DeFilippi Simpson (ACCSP)
- Angela Giuliano (MD DNR)
- Fran Karp (ACCSP Advisor RI)
- Kathy Knowlton (GA DNR)
- Dee Lupton (ACCSP Advisor NC)
- George Maynard (NOAA Fisheries)
- Laura Oremland (NOAA Fisheries)
- Brandi Salmon (NC DMF)
- David Sikorski (ACCSP Advisor MD)

SciFish Project Development

Multi-step Application Process



SciFish Full Application

Other Topics: Collaborators, Goals, Methods, Impact on Assessment/Management

DATA USE	DATA MANAGEMENT PLAN	VOLUNTEER TRAINING PLAN
COMMUNICATION PLAN	BUDGET	RISK

SciFish Uses

SciFish Projects

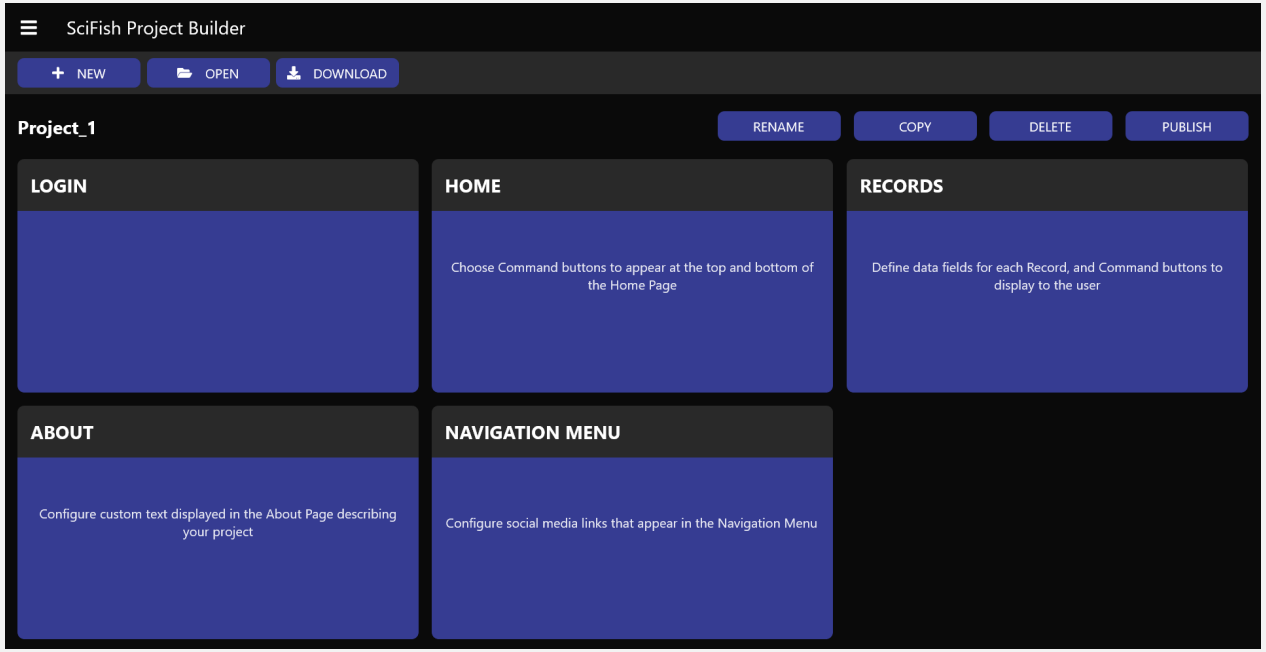
New Project

New Project

SciFish API

SciFish Platform

SciFish Project Builder

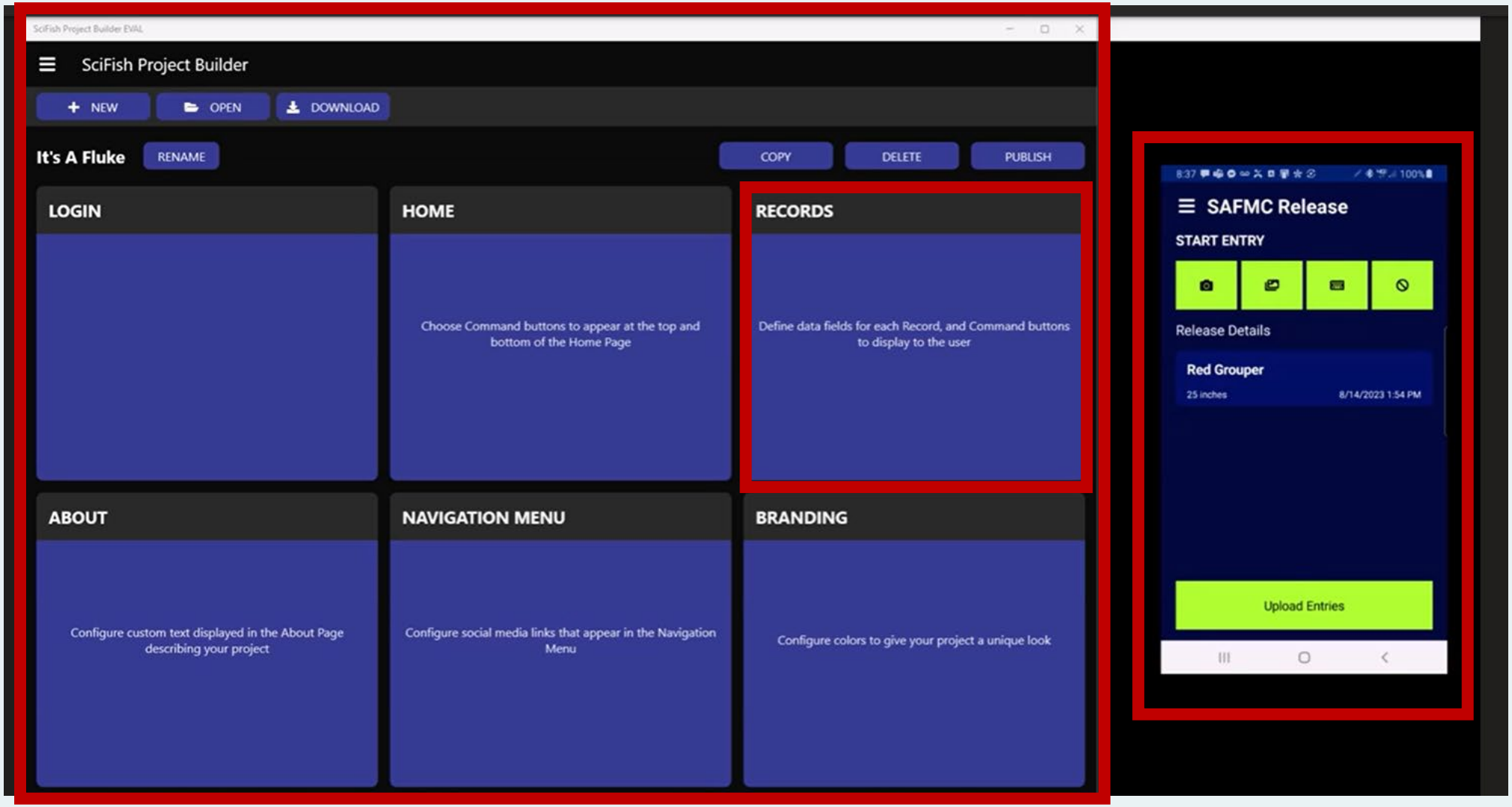


[ACCSP SciFish Builder.mp4]

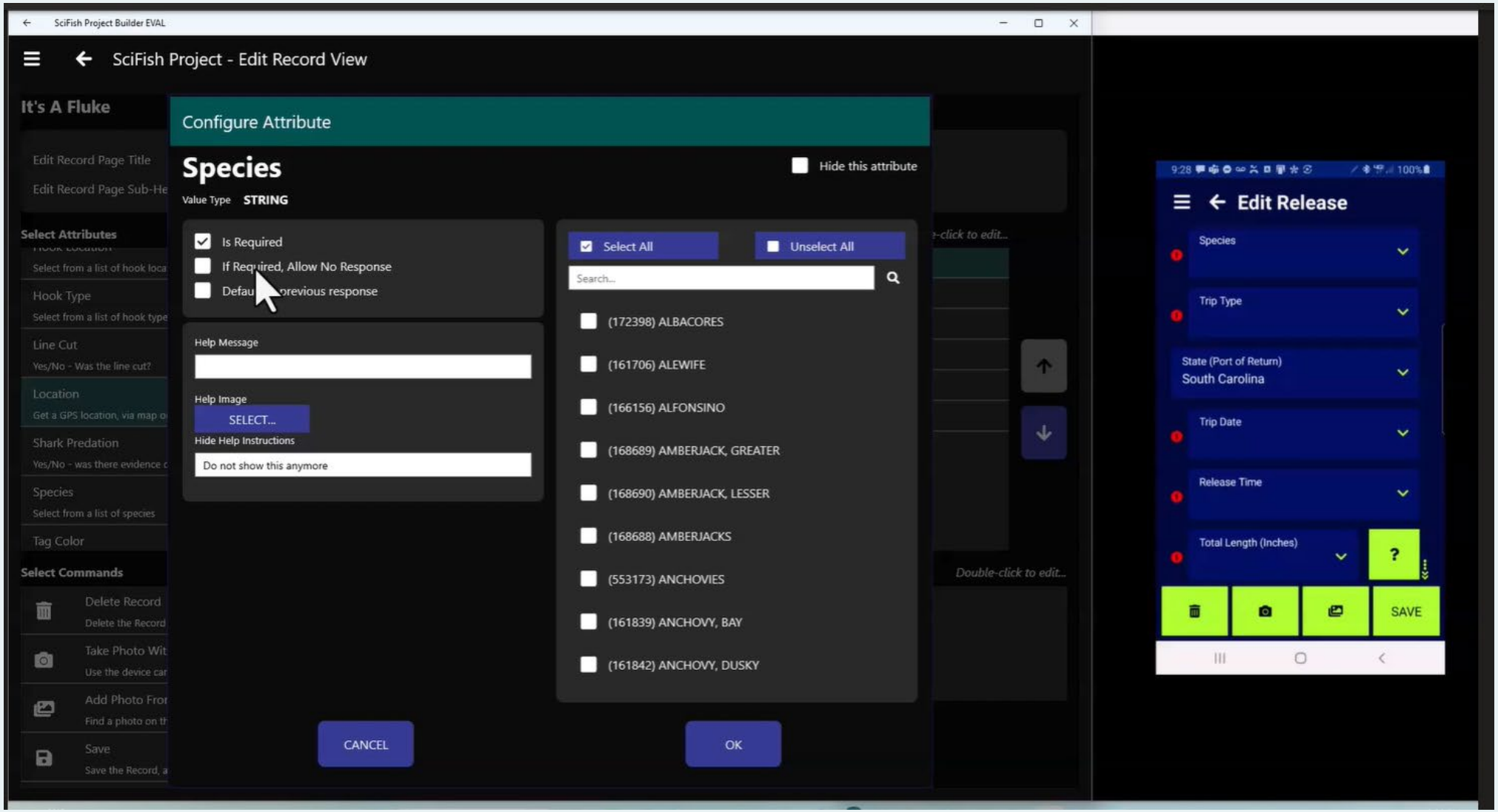
SciFish Mobile App

ACCSP SciFish Builder.mp4

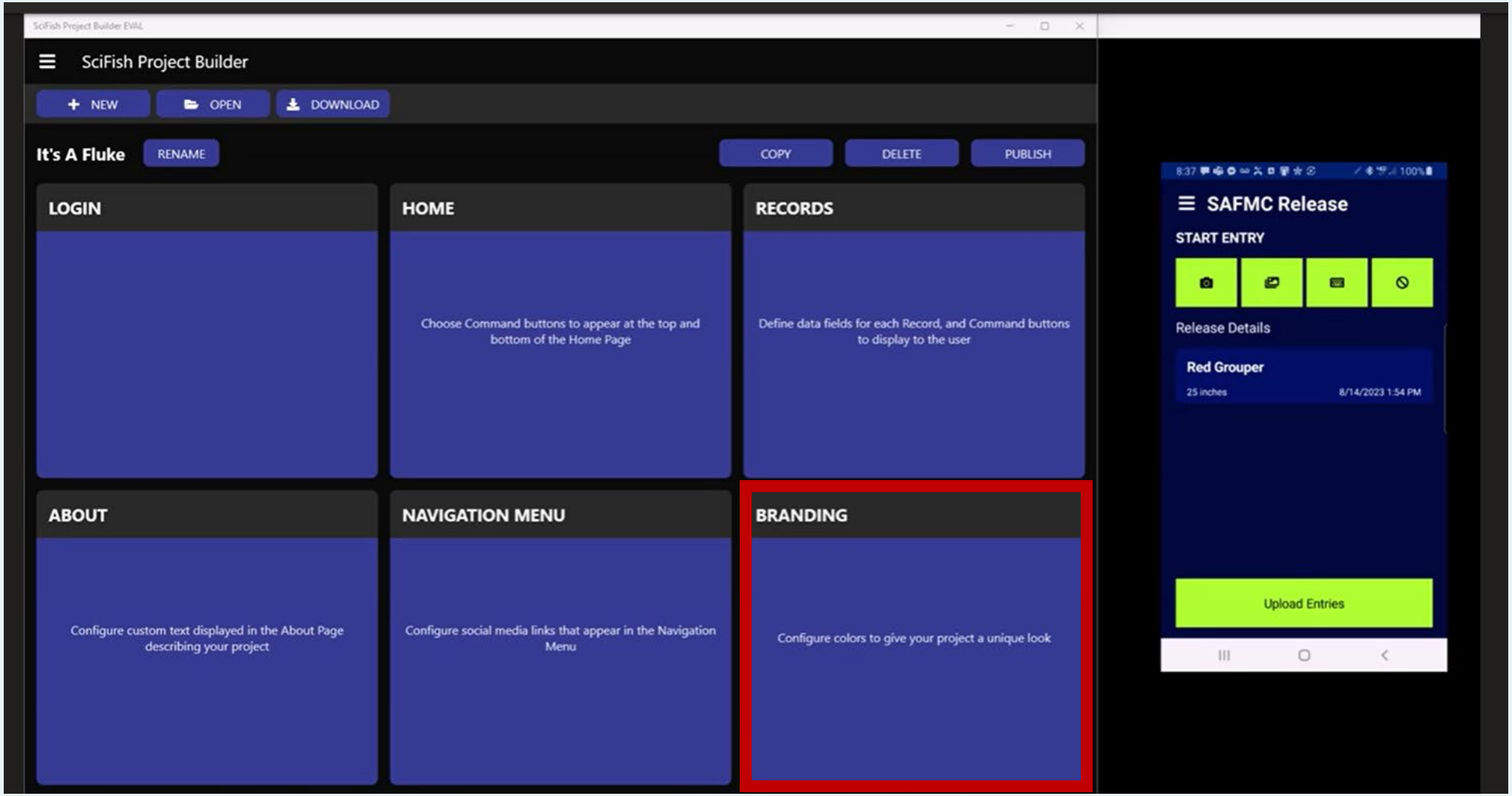
Building a SciFish Project



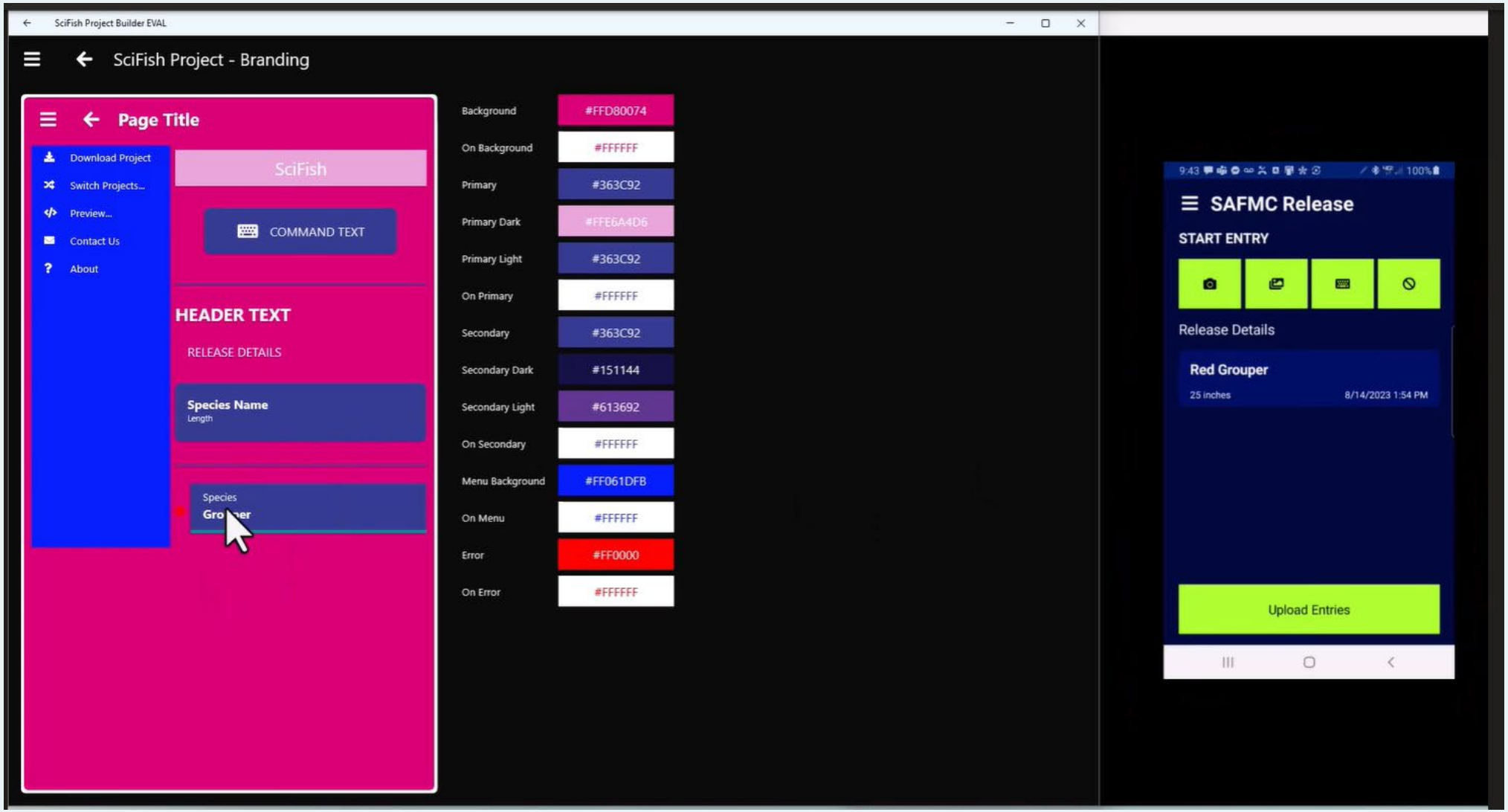
Building a SciFish Project



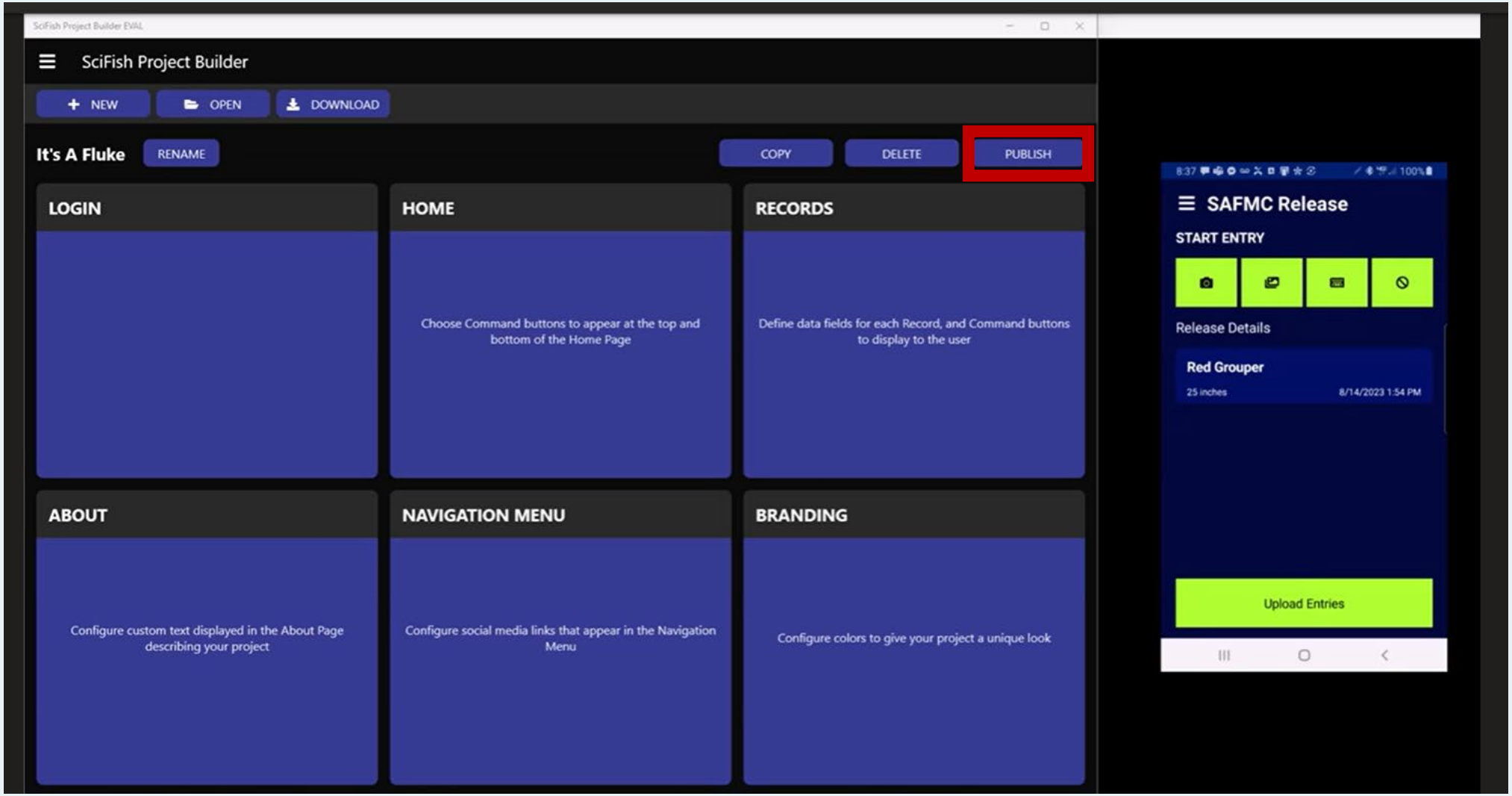
Building a SciFish Project



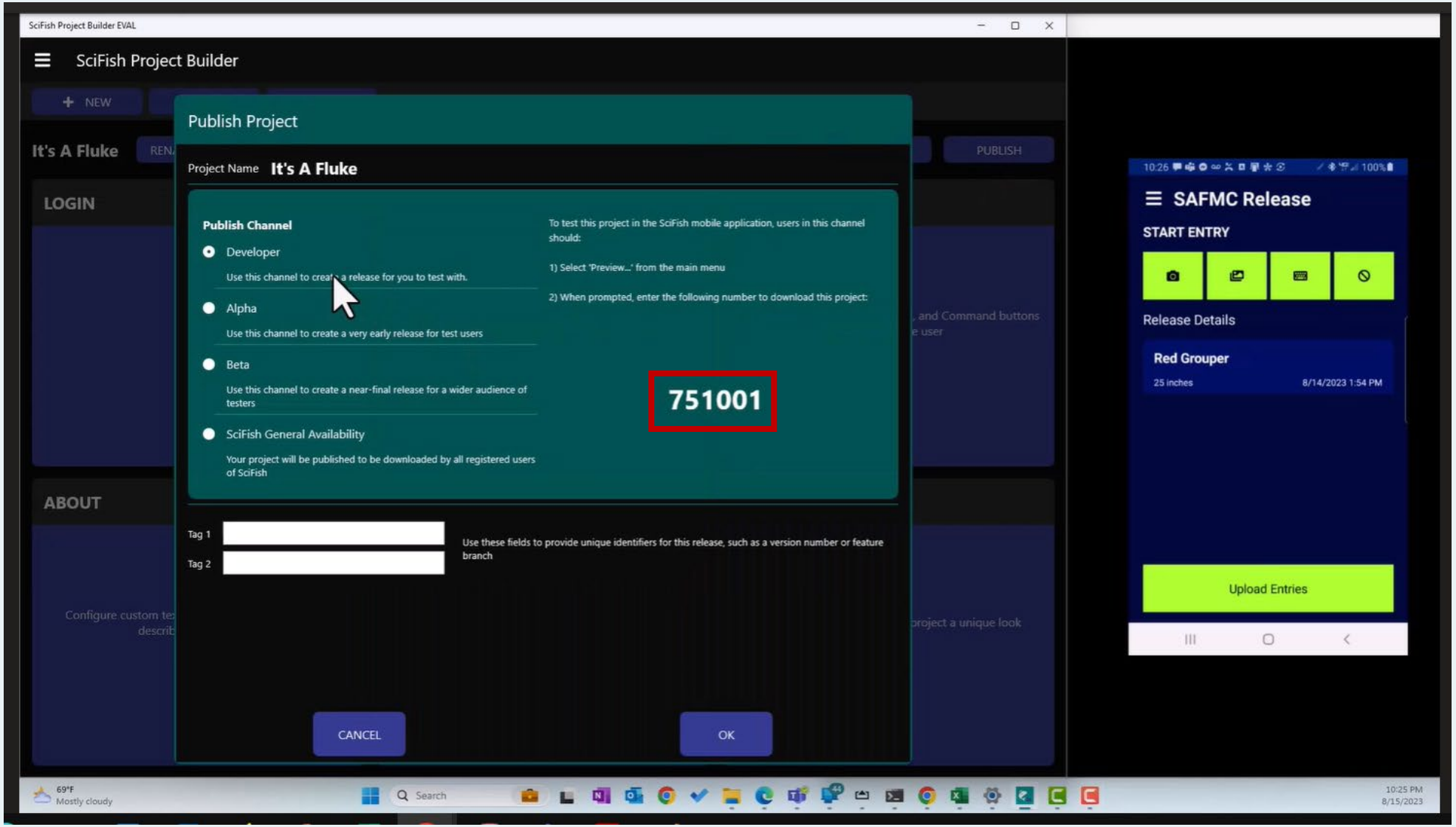
Building a SciFish Project



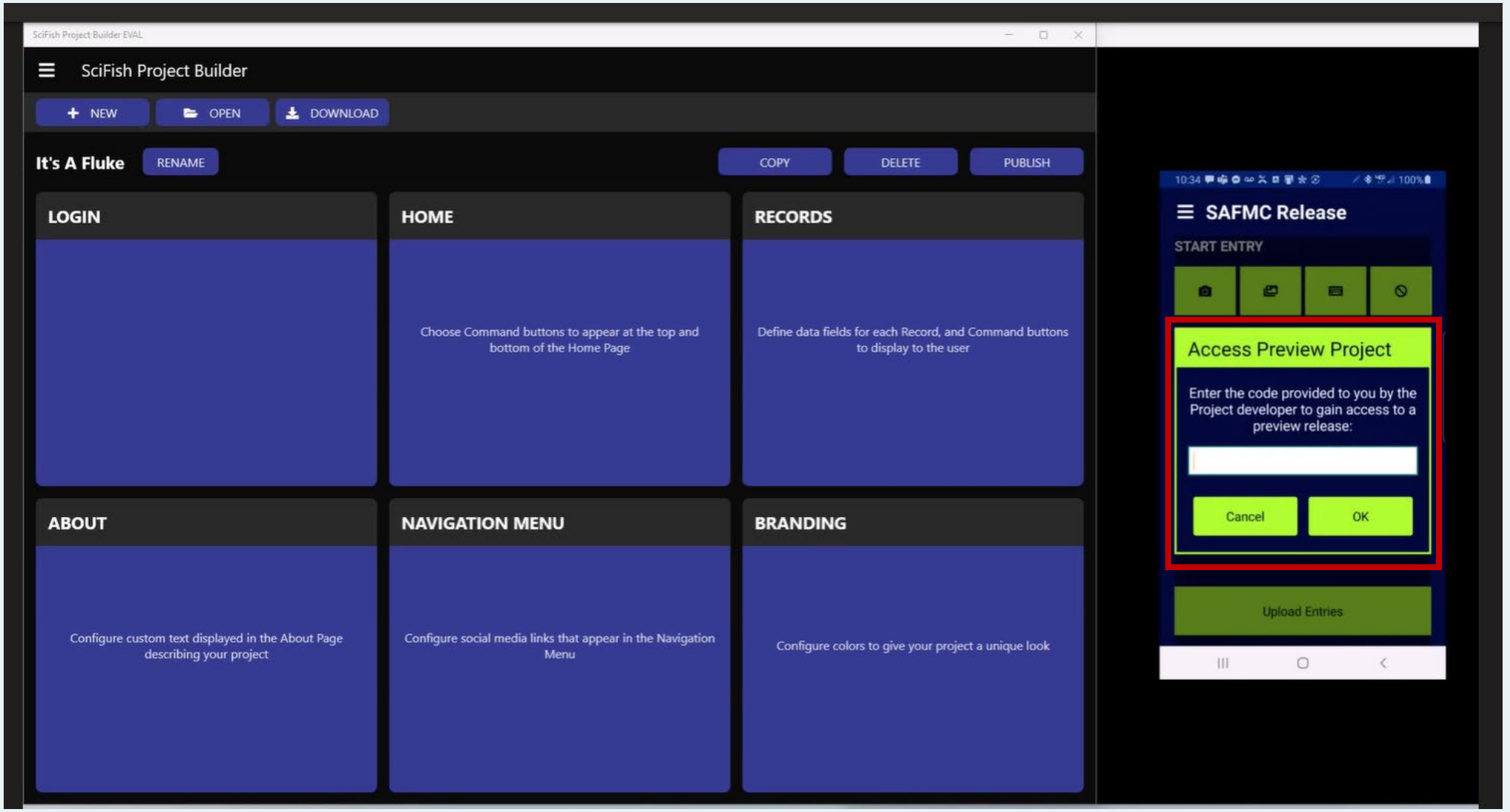
Building a SciFish Project



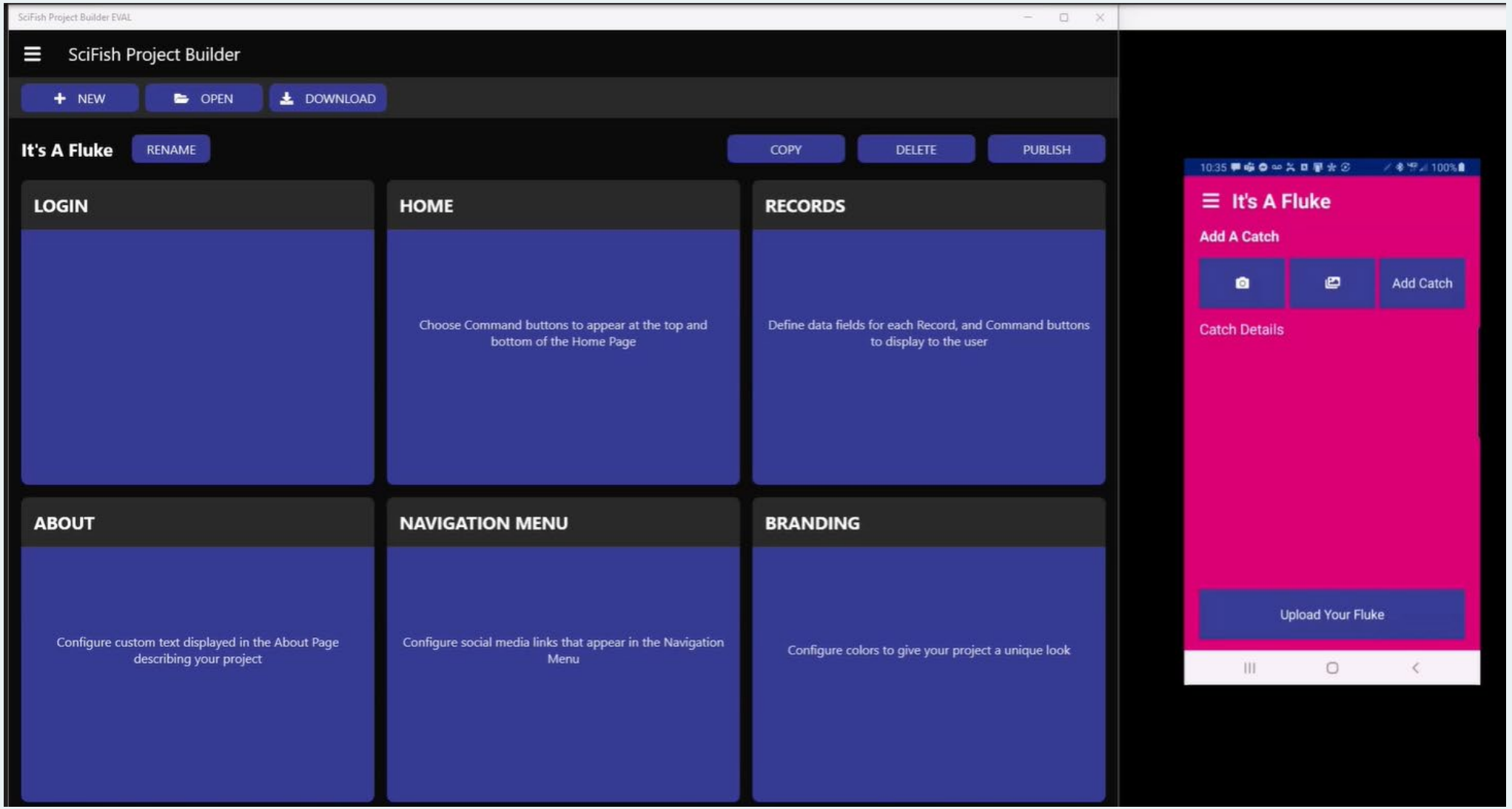
Building a SciFish Project



Building a SciFish Project



Building a SciFish Project



SciFish: Key Takeaways

- Focus on supporting citizen science projects
- Standardize collection of citizen science data on the Atlantic
- Intentionally designed projects that fill existing data gaps
- Project development is ‘free’, but uses ACCSP resources
- SciFish Advisory Panel

SciFish: accsp.org/what-we-do/scifish/

Julie Simpson, ACCSP
Julie.Simpson@accsp.org

StreamNet and MonitoringResources.org Connections

- Monitoring Resources Data Connectivity & Improvements Analysis Report
  - Prepared by ESA from the input of PNAMP, PSMFC, DFO Canada, and BPA over multiple sessions
    - Restructure Monitoring Resources to better accommodate long trends (HLIs)
    - Reminders to update data collection events in Monitoring Resources when uploading data to StreamNet
    - Add focal species to Monitoring Resources Sample Designer – connects to StreamNet and CBFish
    - Utilize AI/ML to simplify/kickstart metadata documentation
- Update map layers and standardize symbology
  - NOAA is in the process of standardizing the SW and NW regional datasets: includes ~ 280 ESUs and pops
  - Continue to work on improving the Facilities dataset, anticipate WDFW to submit updated data
  - Update to FishDist, plan to incorporate a data submission from MFWP and hopefully others

Image: Microsoft Stock

Member Updates/Round Robin

Share your news! Just keep it short – please stay under 3 minutes.
We will rotate between in-person and virtual participants, raise your hand online to be queued for your update

StreamNet ExCom Members *indicates participation with PNAMP SC

- Jody Lando*, BPA
- John Arterburn*, Colville Tribes
- Donella Miller and Sheryn Olson, CRITFC
- John Cassinelli, IDFG
- David Schmetterling, MFWP
- Patty O'Toole*, NPCC
- Greg Sieglitz*, NOAA Fisheries
- Katie Barnas, NOAAF Northwest Fisheries Science Center
- Ian Tattam* and Art Martin, ODFW
- John Netto, USFWS
- Phil Sandstrom*, WDFW

Additional PNAMP Steering Committee Signatory Members

- Denise Kelsey, CRITFC
- Tim Copeland, IDFG
- Chris Jordan, NOAA-Northwest Fisheries Science Center
- Courtney Shaff, OWEB
- Mike Brown, US BLM
- Lisa Kusnierz, US EPA
- Chris Hirsch, USDA Forest Service
- Steve Waste, USGS
- Ed Krynak, WA Ecology
- Greer Maier, WA GSRO

Image: Microsoft Stock

Wrap up and Next Steps

Image: Microsoft Stock

Adjourn

Image: Microsoft Stock

StreamNet Executive Committee Meeting

November 7, 2024

Day 2 of Joint PNAMP - StreamNet Meeting

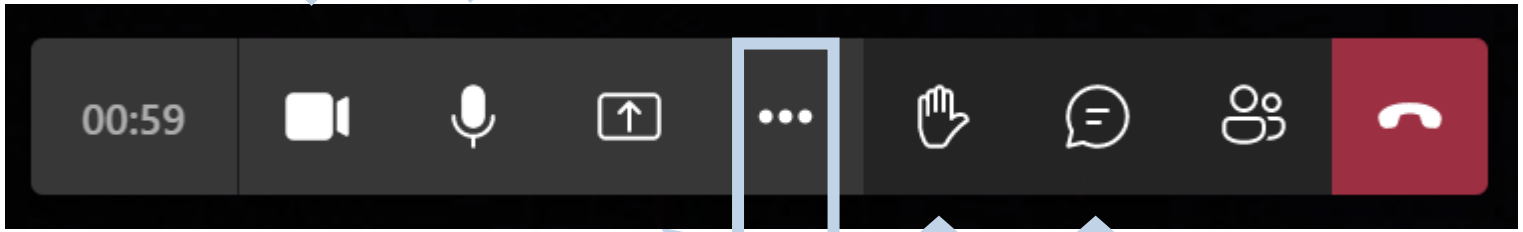
Welcome

Please leave web cameras on to facilitate discussion

Click to turn video camera off/on

Please turn mute when not speaking.

Click to turn microphone off/on



Check device settings
if you are having problems with audio/video

Raise your hand or put it in the chat

Questions or comments

StreamNet
www.streamnet.org

Introductions

All online participants, please use the chat to provide your name and affiliation

All participants, introduce yourself when your name is called

- In-room participants
- MS Team participants

Please leave web cameras on to facilitate discussion

https://www.wellable.co/blog/8-tips-for-holding-productive-inclusive-hybrid-meetings/

Agenda

(times are approximate, Pacific Time)

November 7, 2024	
TIME (PT)	AGENDA ITEM
9:00	Welcome and introductions
9:10	Action Item Updates
9:30	StreamNet Tech Team Updates
9:50	Stretch Break
10:00	CAP 5-year plan
10:30	HCAX Implementation
11:00	Adjourn/Lunch

Cascara tree by Mari Williams

StreamNet Executive Commitee Updates on Action Items from 2023

Nancy Leonard

Action Items from 2023

1) **CAP HCAX**
   - Organize HCAX final meeting and wrap up grant
2) **MAFAC dashboard**
   - Finalize and inform Columbia Basin Collaborative.
3) **Screw Trap Dashboard**
   - Determine appropriate resolution for locations
   - Confirm and implement process to update content
4) **CAP Fish HLI action items**
   - Identify options for data download tracking
   - As applicable review/revise/expand data discovery naming standards
   - Update and deploy new CAP DES version and clarify terms
   - Approach to communicate to the public target data update date range for CAP Fish HLI

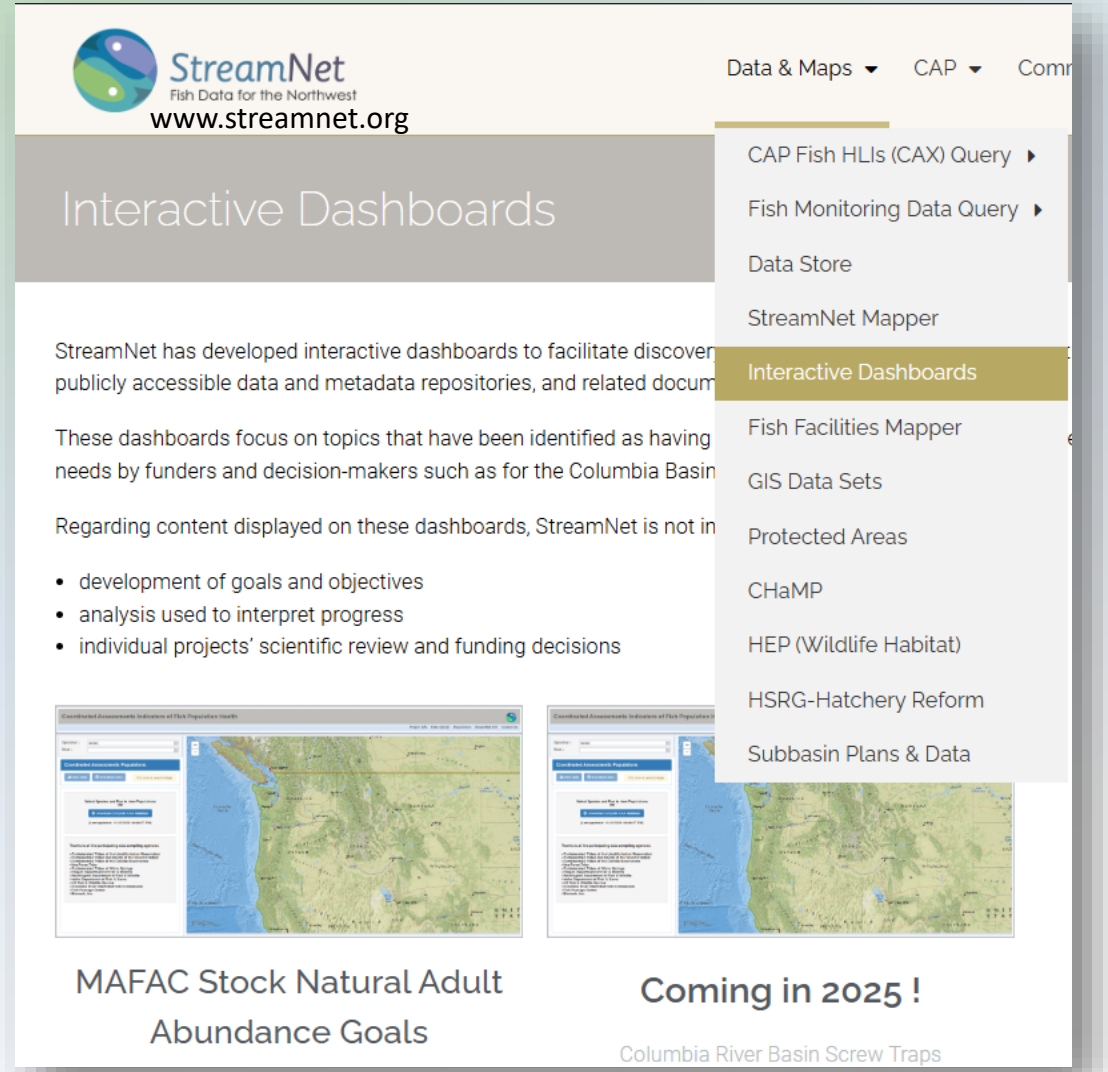
HCAX EPA Grant wrap up

- Final HCAX meeting held May 21, 2024
- Contract ended August 31, 2024
- Final invoices received October 2024
- Submitted final report to WA GSRO (prime on grant) November 2024

1) CAP HCAX

Finalize and inform Columbia Basin Collaborative

- Shared information on the CAP Fish HLI and MAFAC with CBC
  - Sept 24th
  - Oct 10 (CBC Assessment & Trends Sub-group)
- Performed QA/QC, updated documentation, and finalized further refinements
- Now accessible from www.streamnet.org

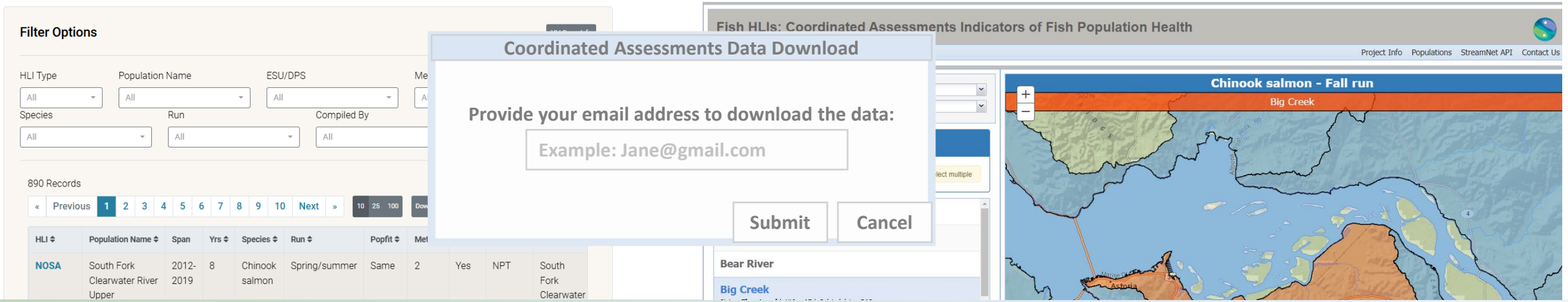


2) MAFAC dashboard

Determine appropriate resolution for locations & confirm and implement process to update content

- Discussed at StreamNet Tech Team meetings and Steering Committee meetings regarding the options to obscure exact location
- Work is in progress for the Rotary Screw Trap Dashboard (connects to FMWG task)

3) Screw Trap Dashboard



Identify options for data download tracking

- Discussed at StreamNet Tech Team meetings
  - Pop up/intercept page requesting email and affiliation
- Not yet finalized for implementation

4) CAP Fish HLI action items

Coordinated Assessments Data Exchange Standards

Version 20240517

Approval Date: 5/17/2024
Effective Date: 7/22/2024

Update and deploy new CAP DES version and clarify terms

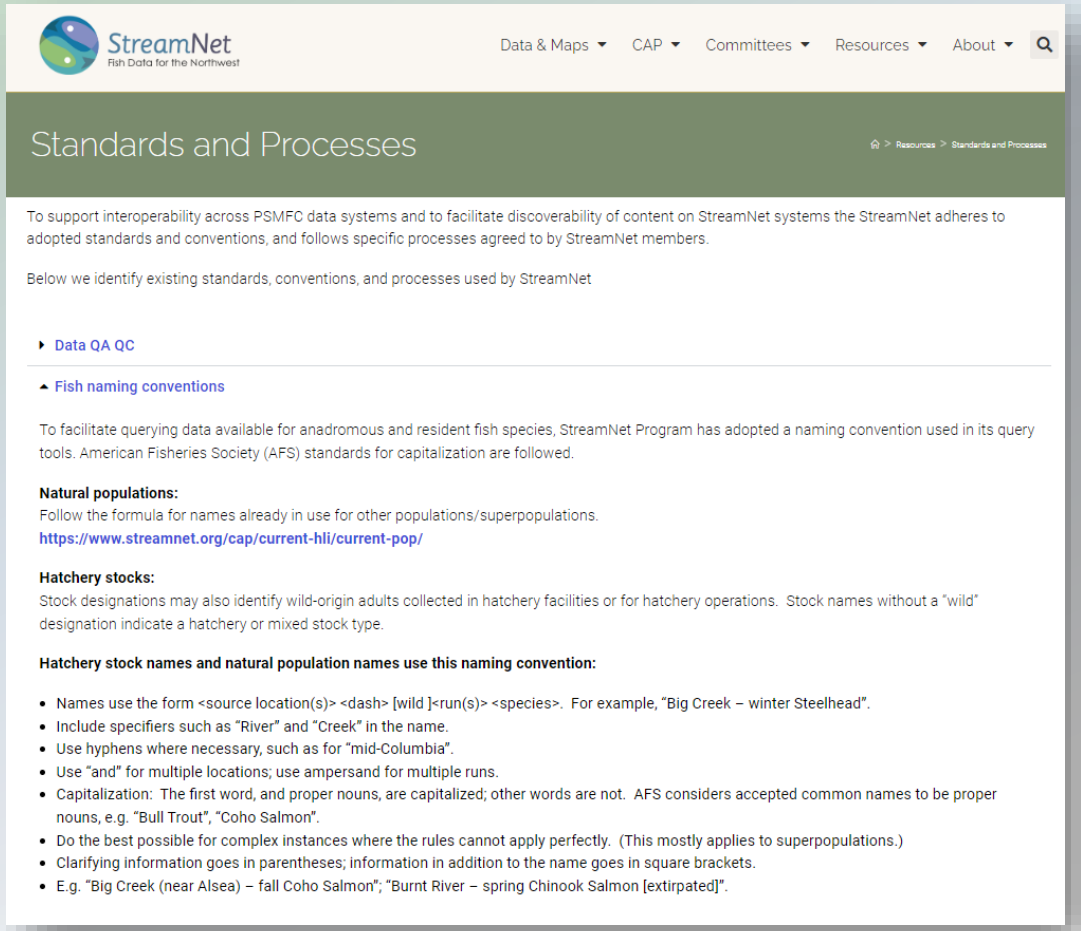
- CAP DES updated 7/2024 *(more details next agenda item)*

- Clarification of terms and definitions in process
  - FMWG task group expertise will be leveraged to inform clarifications included in the queries and downloaded files

4) CAP Fish HLI action items

As applicable review/revise/expand data discovery naming standards

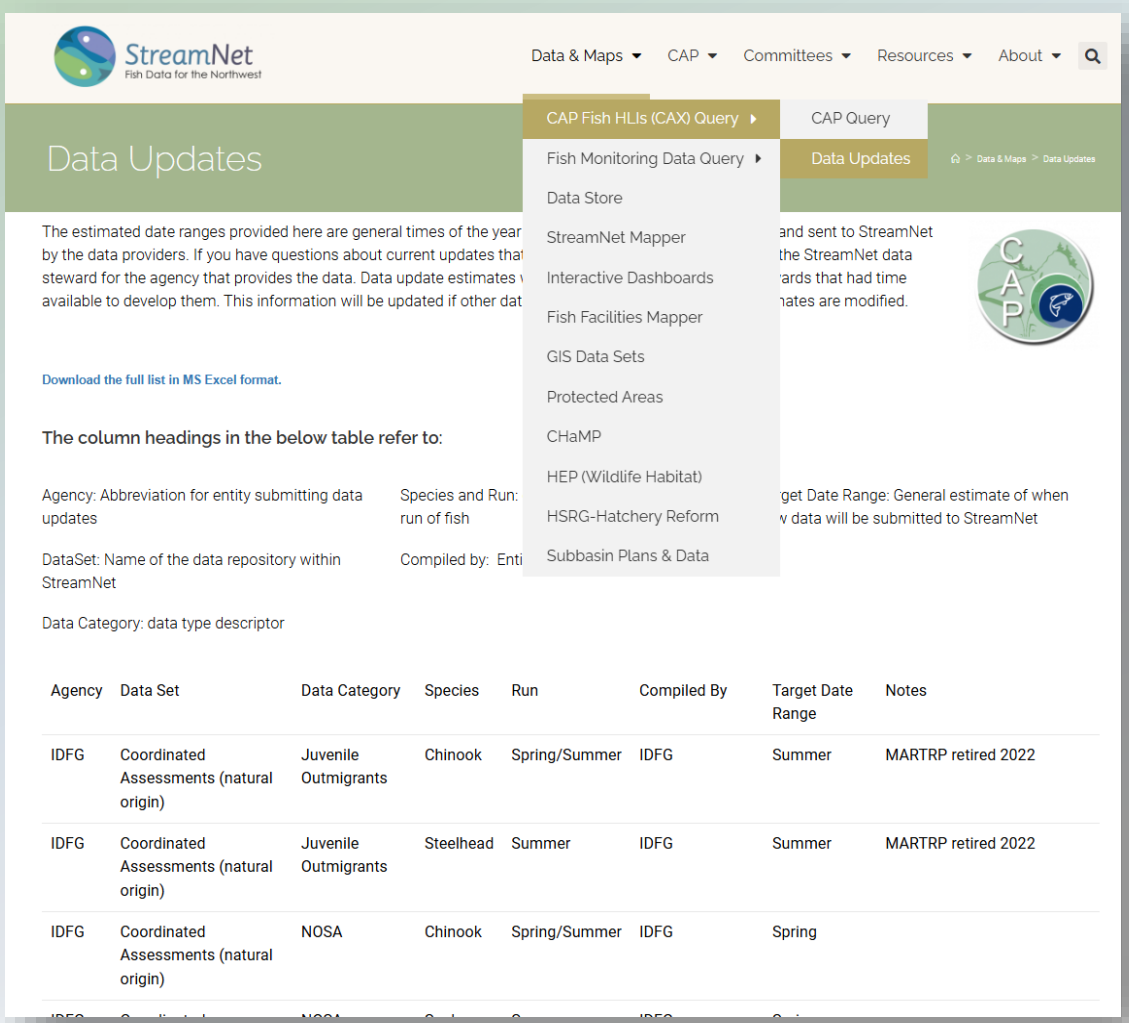
- The Data Discovery Naming standards discussion was assigned to the technical team.
- Tech Team formalized the naming convention standards for
  - natural origin (NO) salmon aligns with NOAA formal name structure
  - hatchery origin fish similar to NO structure with adjustments for stocks



4) CAP Fish HLI action items

Approach to communicate to the public target data update date range for CAP Fish HLI

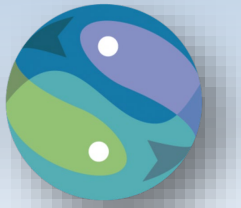
- Determined not possible to use existing update field to automate a target date range for CAP fish HLI data.
- Developed a webpage to house the update date range table.
- Update date range table populated with data provided by data providers.



4) CAP Fish HLI action items

StreamNet Team Updates

Mari Williams



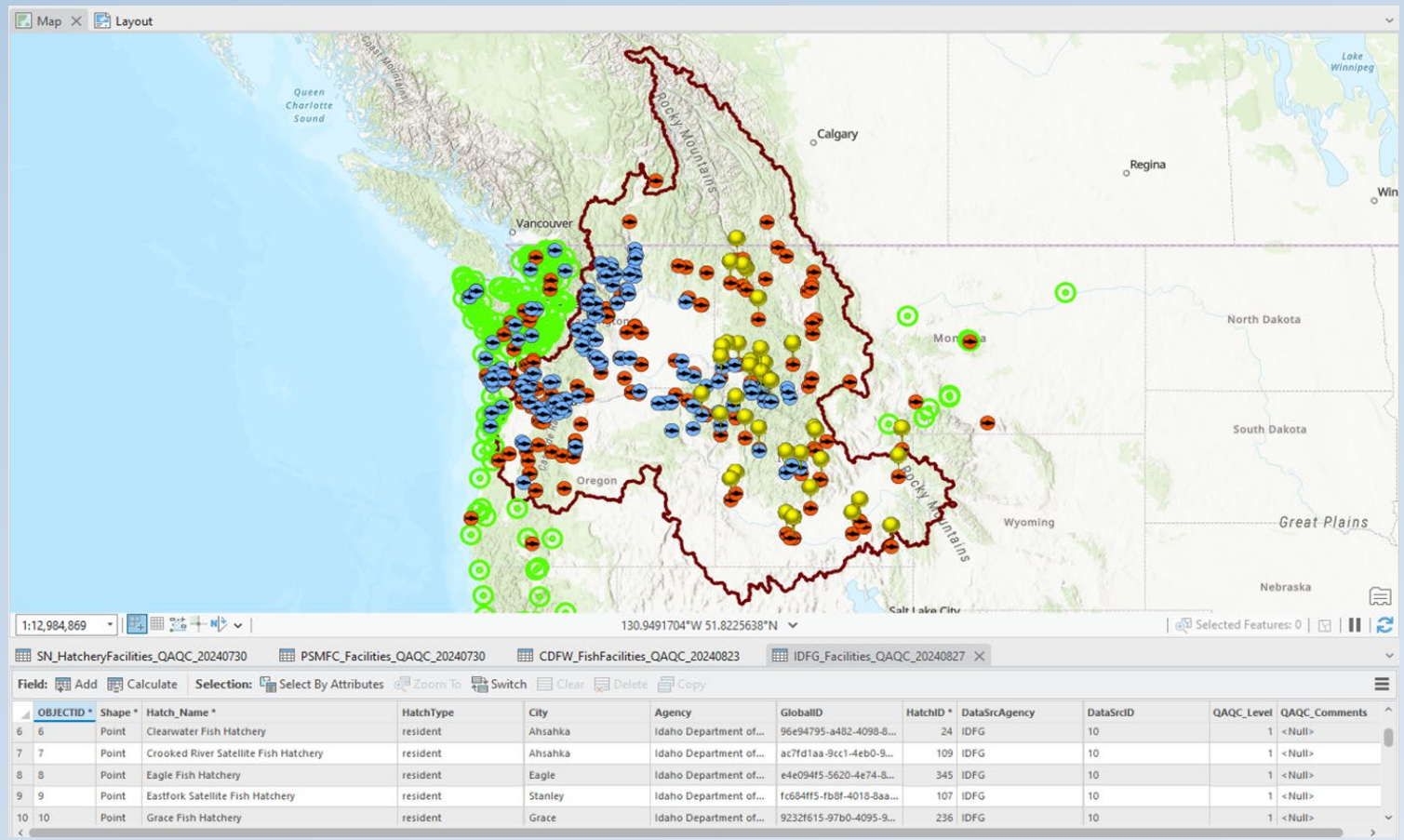
SN Tech Team

Meetings in March and July

- **DES Releases**
  - StreamNet DES 2024.1 effective 2/1/2024
  - CA DES update effective 7/22/2024
    - TimeSeriesID
  - HCA ("HCAX") DES 6/14/2023
- Web page for expected data updates
  - Available at https://www.streamnet.org/home/data-maps/data-updates/
- Rotary Screw Trap Dashboard

PSMFC GIS and StreamNet

- PSMFC GIS 'Fish Facilities' dataset
- Designed to promote consistent georeferencing and encourage integration across projects and partnerships
- working with StreamNet partners to QA/QC the existing data outside of the CRB



	OBJECTID *	Shape *	Hatch_Name *	HatchType	City	Agency	GlobalID	HatchID *	DataSrcAgency	DataSrcID	QAQC_Level	QAQC_Comments
6	6	Point	Clearwater Fish Hatchery	resident	Ahsahka	Idaho Department of...	96e94795-a482-4098-8...	24	IDFG	10	1	<Null>
7	7	Point	Crooked River Satellite Fish Hatchery	resident	Ahsahka	Idaho Department of...	ac7fd1aa-9cc1-4eb0-9...	109	IDFG	10	1	<Null>
8	8	Point	Eagle Fish Hatchery	resident	Eagle	Idaho Department of...	e4e094f5-5620-4e74-8...	345	IDFG	10	1	<Null>
9	9	Point	Eastfork Satellite Fish Hatchery	resident	Stanley	Idaho Department of...	fc684ff5-fb8f-4018-8aa...	107	IDFG	10	1	<Null>
10	10	Point	Grace Fish Hatchery	resident	Grace	Idaho Department of...	9232f615-97b0-4095-9...	236	IDFG	10	1	<Null>

Fish Facilities GIS dataset

QA/QC Process involves:

1) Comparing existing PSMFC dataset with original StreamNet datasets and best available source agency data.
2) Confirming locational accuracy and consistency of attribution where a facility occurs in multiple datasets. Defer to source agency but compare to aerial imagery as well.
3) Compare and reconcile attributes, purposely retaining [HatchID] while using Alternate name and Comment fields to describe edits or questions.
4) Potentially add facilities from source agency with support from partners

CAP DES Development Team

TimeSeriesID added to Natural Origin CAP DES

A1. NOSA Table

This table stores information concerning natural origin spawner abundance (NOSA) and natural origin escapement. NOSA refers to the number of live natural origin fish available to participate in natural spawning during the spawning period Escapement refers to the number of natural origin fish returning to spawn that pass upstream of a specified location during a specified time period.

(Back to Table of Contents)

Field Name	Field Description	Data Type	Codes/Conventions for NOSA Table	
Fields for defining a unique record				
ID (unique)	Value used by computer to identify a record.	*GUID*	This value is a globally unique identifier (GUID) exactly 36 characters long. • When submitting a new record you may include this value or leave it blank. If you include this value then it will be used by the central system. If you leave it blank then a value will be created for you, and it will be sent back to your system where it must be incorporated. • When updating or deleting records this value must be included.	
TimeSeriesID	This field identifies the time series a record belongs to. Records with the same TimeSeriesID are grouped and presented together on the CAX query systems. Assigned by data compilers or regional data assemblers as appropriate.	Integer	TimeSeriesID is used in several tables in this DES, in several tables in the CA hatchery DES (HatcheryReturns, etc.), and in the Trend table of the StreamNet DES (where it is called "TrendID"). The same TimeSeriesID cannot be used in more than one of these tables.	Assigned TimeSeriesID ranges are the same as assigned TrendID ranges in the StreamNet DES. Coordinate with other personnel in your organization assigning TimeSeriesID and TrendID values. 10,000-19,999 = MFWP 20,000-22,499 = CRITFC

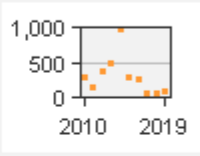
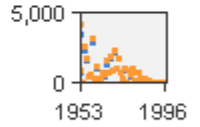
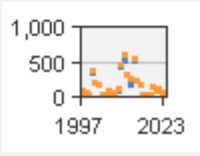
CAP DES Development Team

TimeSeriesID added to Natural Origin CAP DES

- Can effectively communicate if records for the same population can be used together for timeseries analysis

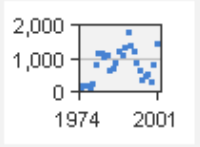
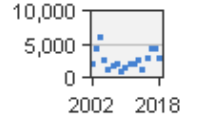
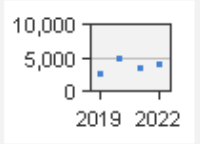
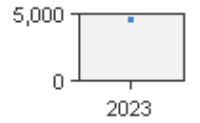
Natural Origin Spawner Abundance

Catherine Creek - spring Chinook salmon

Catherine Creek Whole population NPT best estimate (method 2)	
Catherine Creek Whole population ODFW best estimate (method 1)	
Catherine Creek Whole population ODFW best estimate (method 2)	

Natural Origin Spawner Abundance

Clackamas River - spring Chinook salmon

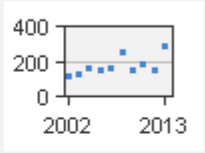
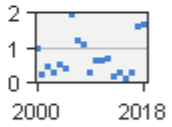
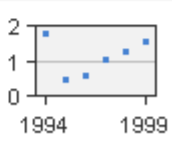
Clackamas River Whole population ODFW best estimate (method 1)	
Clackamas River Whole population ODFW best estimate (method 2)	
Clackamas River Whole population ODFW best estimate (method 3)	
Clackamas River Whole population ODFW best estimate (method 4)	

CAP DES Development Team

TimeSeriesID

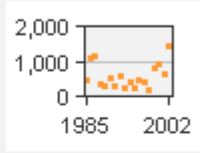
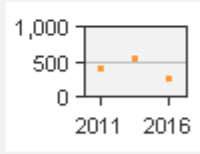
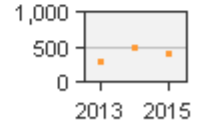
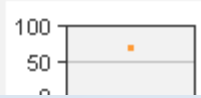
Recruits per Spawner

Entiat River - spring Chinook salmon

Entiat River - Entiat River Whole population Recruits = Returns to spawning ground R/S Type = Smolts per female spawners USFWS best estimate (method 1)	
Entiat River - Entiat River Whole population Recruits = Returns to spawning ground R/S Type = Total recruits per total spawners USFWS best estimate (method 1)	
Entiat River - Entiat River Whole population Recruits = Returns to spawning ground R/S Type = Total recruits per total spawners WDFW best estimate (method 1)	

Natural Origin Spawner Abundance

Fifteenmile Creek - winter Steelhead

Fifteenmile Creek and tributaries Whole population ODFW best estimate (method 1)	
Fifteenmile Creek and tributaries Whole population ODFW best estimate (method 2)	
Fifteenmile Creek and tributaries Whole population ODFW best estimate (method 3)	
Fifteenmile Creek and tributaries Whole population ODFW best estimate (method 4)	
Fifteenmile Creek and tributaries Whole population ODFW best estimate (method 5)	

CAP DES Development Team

TimeSeriesID added to Natural Origin CAP DES

DataStatus Table Proposal from ODFW

- Additional information can be included in a TimeSeriesID Table
- Define the TimeSeriesID and include any information relating to the series once rather than in each record in the HLI tables
- Can facilitate data update expectations and automate the table
- Can identify in one record if monitoring has ended

Break

CAP 5-year Plan

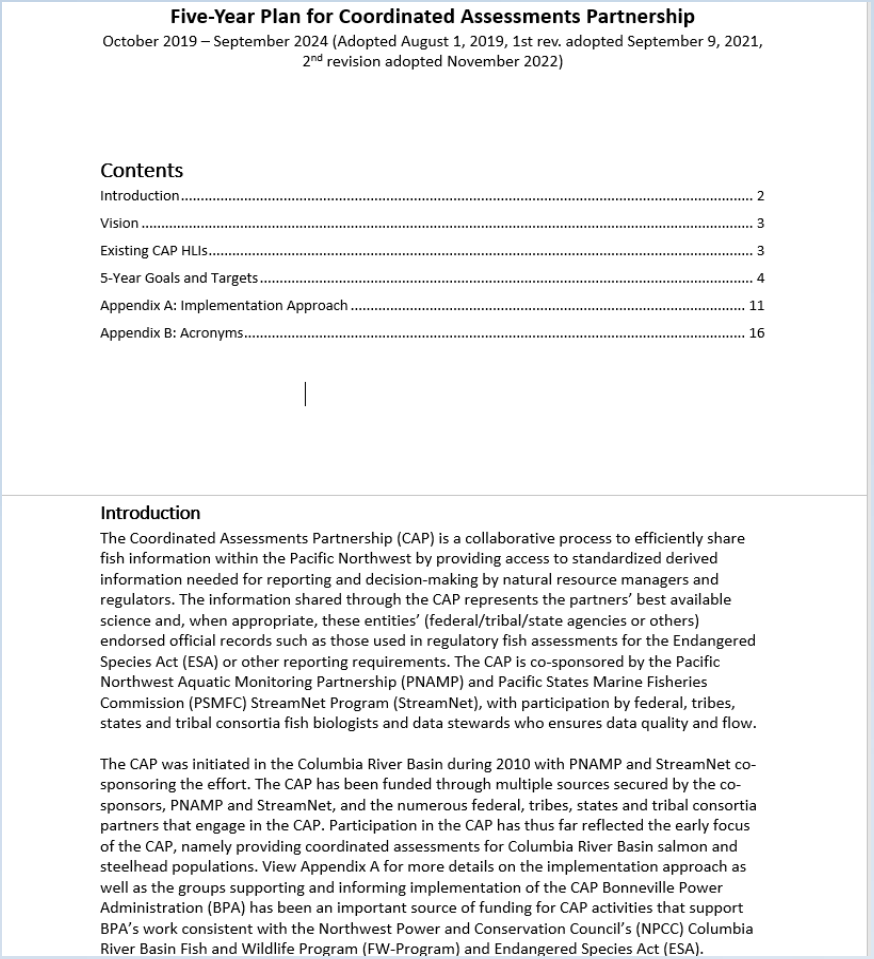
Nancy Leonard

CAP 5 Year plan

Current Version:

Five-Year Plan for Coordinated Assessments Partnership 2nd revision of the 2019 adopted version (rev Nov 2022)

- This is the last year for this plan's period
- Suggestions for changes (addition/deletion) for the next 5 year period?
- Next Steps
  - CAP Core Team will draft next plan
  - Will refresh document title and format to align with content and usage (e.g., strategic plan)



Five-Year Plan for Coordinated Assessments Partnership

October 2019 – September 2024 (Adopted August 1, 2019, 1st rev. adopted September 9, 2021, 2nd revision adopted November 2022)

Contents

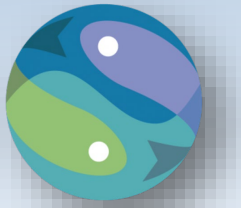
Introduction

The Coordinated Assessments Partnership (CAP) is a collaborative process to efficiently share fish information within the Pacific Northwest by providing access to standardized derived information needed for reporting and decision-making by natural resource managers and regulators. The information shared through the CAP represents the partners' best available science and, when appropriate, these entities' (federal/tribal/state agencies or others) endorsed official records such as those used in regulatory fish assessments for the Endangered Species Act (ESA) or other reporting requirements. The CAP is co-sponsored by the Pacific Northwest Aquatic Monitoring Partnership (PNAMP) and Pacific States Marine Fisheries Commission (PSMFC) StreamNet Program (StreamNet), with participation by federal, tribes, states and tribal consortia fish biologists and data stewards who ensures data quality and flow.

The CAP was initiated in the Columbia River Basin during 2010 with PNAMP and StreamNet co-sponsoring the effort. The CAP has been funded through multiple sources secured by the co-sponsors, PNAMP and StreamNet, and the numerous federal, tribes, states and tribal consortia partners that engage in the CAP. Participation in the CAP has thus far reflected the early focus of the CAP, namely providing coordinated assessments for Columbia River Basin salmon and steelhead populations. View Appendix A for more details on the implementation approach as well as the groups supporting and informing implementation of the CAP Bonneville Power Administration (BPA) has been an important source of funding for CAP activities that support BPA's work consistent with the Northwest Power and Conservation Council's (NPCC) Columbia River Basin Fish and Wildlife Program (FW-Program) and Endangered Species Act (ESA).

HCAX Implementation

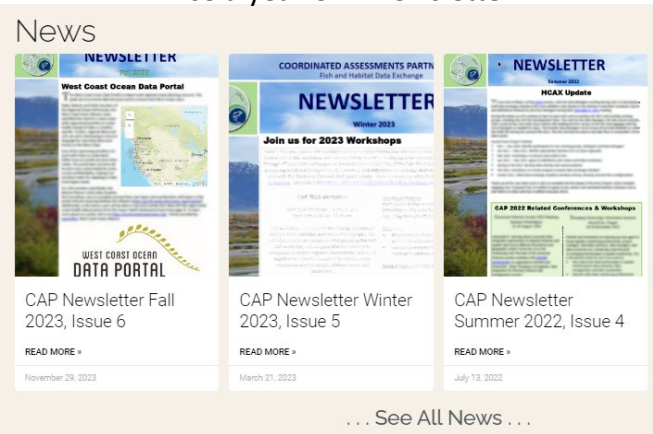
Mari Williams



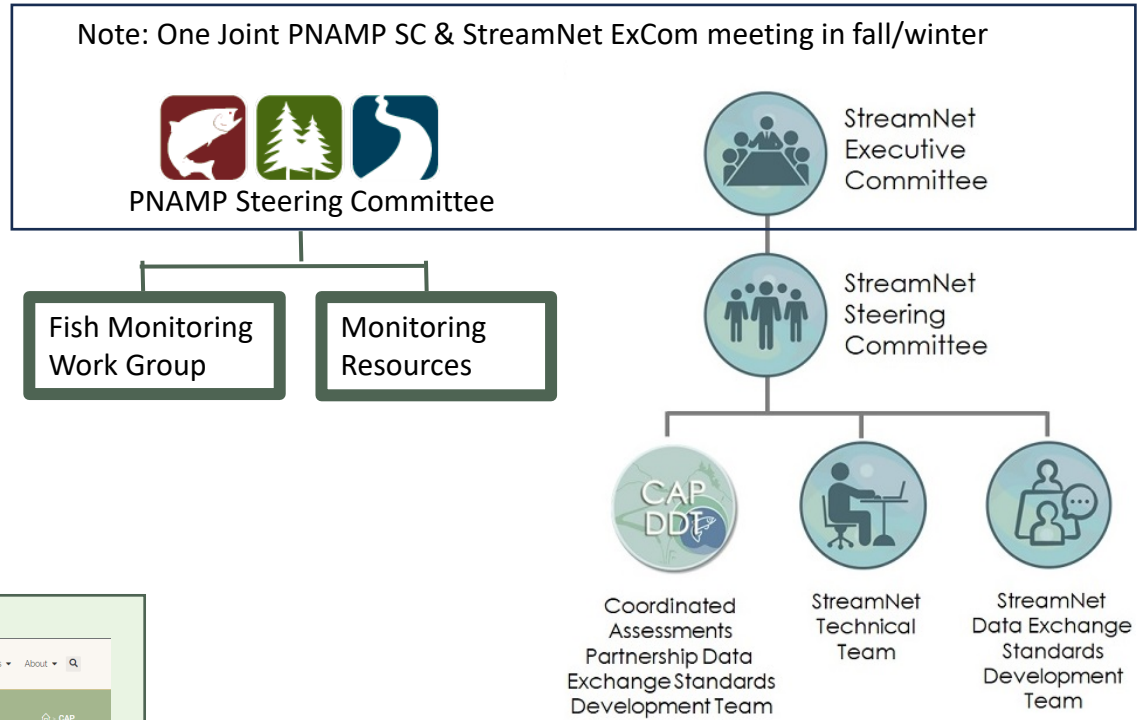
CAX + HCAX Engagement and Upkeep

Leveraging existing Coordinated Assessments Partnership structure and outreach approach co-led by Pacific Northwest Aquatic Monitoring Partnership and StreamNet

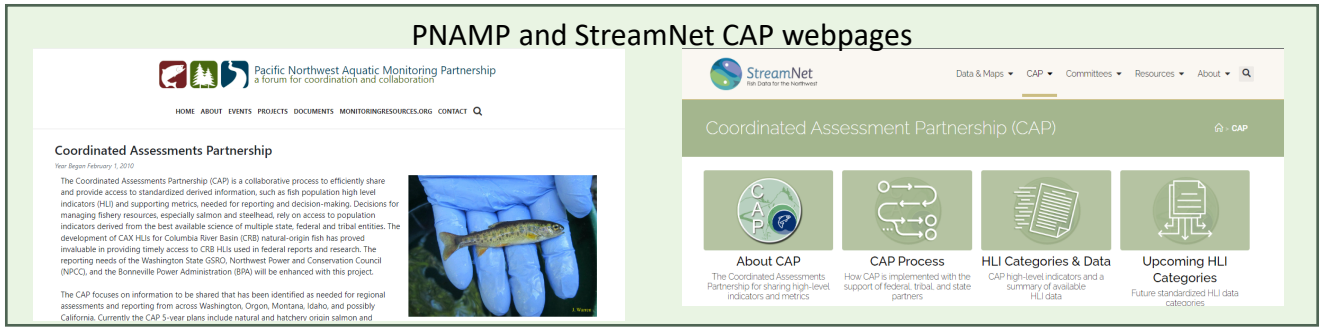
Twice a year CAP Newsletter



Note: One Joint PNAMP SC & StreamNet ExCom meeting in fall/winter



PNAMP and StreamNet CAP webpages



CAP Workshop every 2-3 years

Coordinated Assessments Partnership
Fish and Habitat Data Exchange

Data Sharing Data Use Agreements

Feedback provided and incorporated.

Final draft available at the link.

SN SC approval?

ExCom review and approve for full implementation.

[Data Policy and Agreements - StreamNet]

Resources needed for HCAX exchange with data providers

Discussion among members about needs to achieve data desired data flow:

- Internal data management and modernization?
- Resources – staff, training, supplies?
- HCAX workshop at WA/BC AFS in Vancouver, BC - March 2025

2025 SN ExCOM meeting & Wrap Up

- Plan to hold as Joint PNAMP SC & SN ExCom meeting with same structure
- PNAMP will send a poll for the 2025 meeting date (MS Forms)

StreamNet
www.streamnet.org

pacific northwest aquatic monitoring partnership