



***Welcome to the State Water Board
UPWARD Advisory Group Meeting***

We will start shortly.

Updating Water Rights Data for California (UPWARD) Advisory Group Meeting

Agenda

1. Welcome
2. Meeting Logistics
3. Introductions
4. Project Overview
5. Feedback Activities
6. Q&A



Logistics



- Questions during the meeting?
 - Raise your hand or type it into the chat



- This meeting is being recorded
 - The recording will be made public
 - Do not share any sensitive information



- Please mute your microphone when not speaking



- Technical difficulty?
 - Type into chat
 - Email UPWARD@waterboards.ca.gov



Message from Deputy Director, *Erik Ekdahl*



Staff Introductions

- **Jennifer Hernandez**, Advisory Group Coordinator
- **Craig Altare**, Advisory Group Technical Support
- **Jeff Parks**, Product Owner
- **Brent Vanderburgh**, Project Director

Group Member Introductions

- Please Introduce yourself:
 - *What is your name?*
 - *Why did you join the Advisory Group?*
 - *What would you like from this experience?*
 - *Coffee, tea, or other favorite beverage?*

...lets shoot for 60 sec per member...

Charter Expectations



Attend Meetings



Provide Feedback

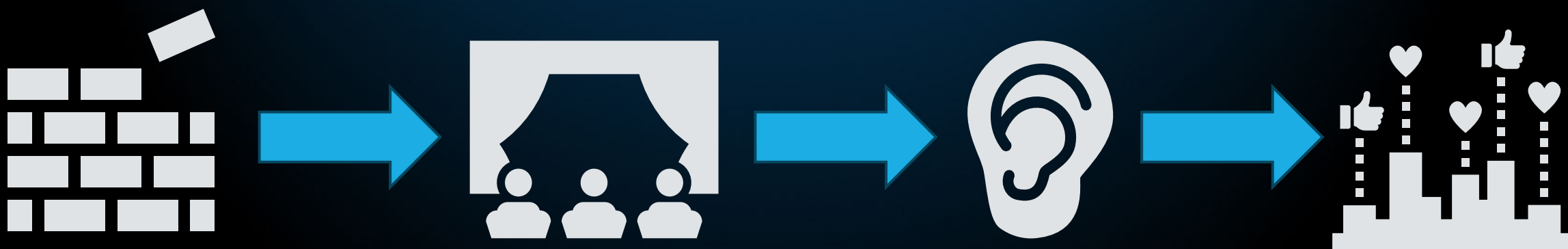


Unique Perspectives



UPWARD@Waterboards.ca.gov

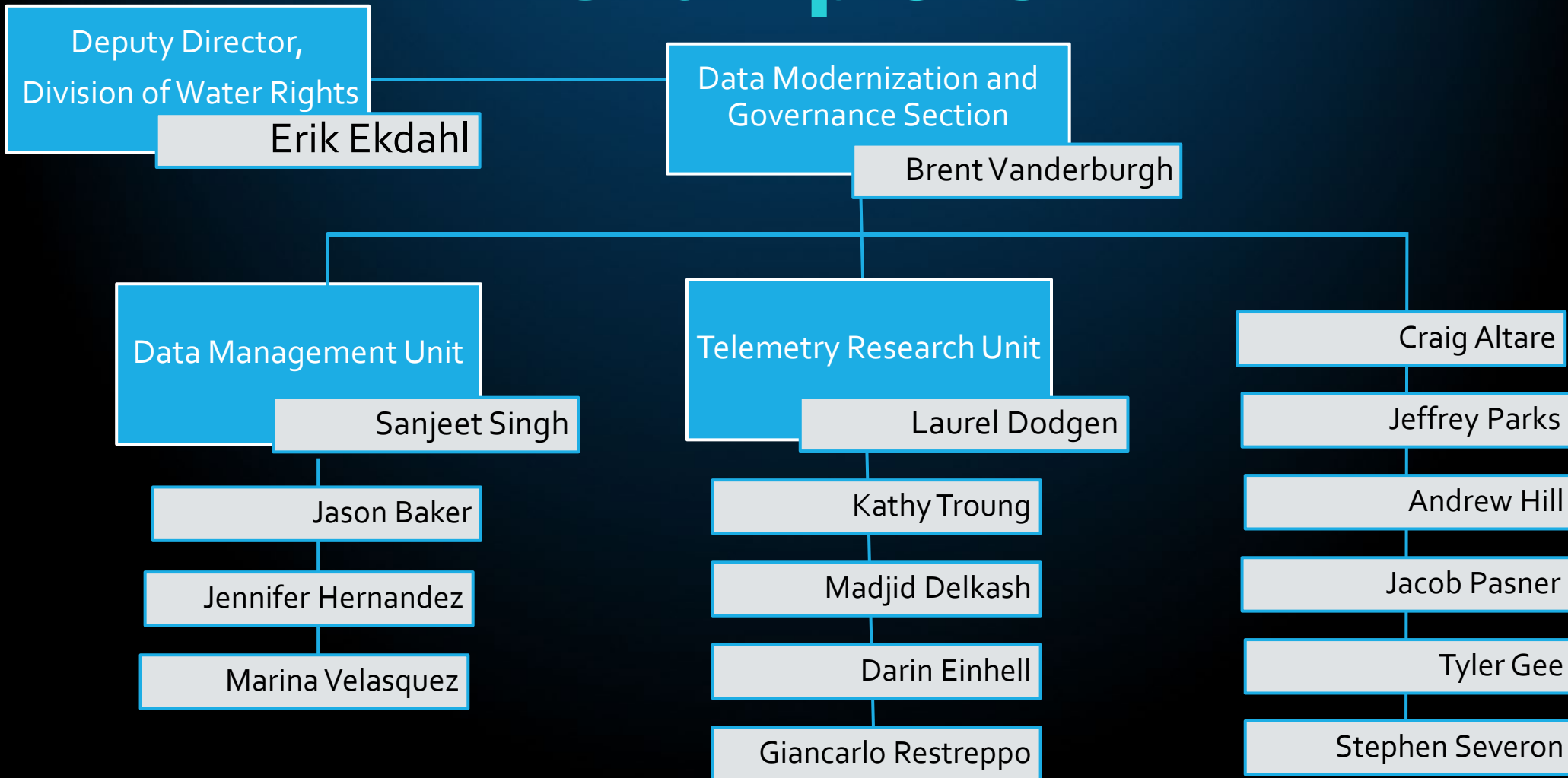
Role of the UPWARD Advisory Group



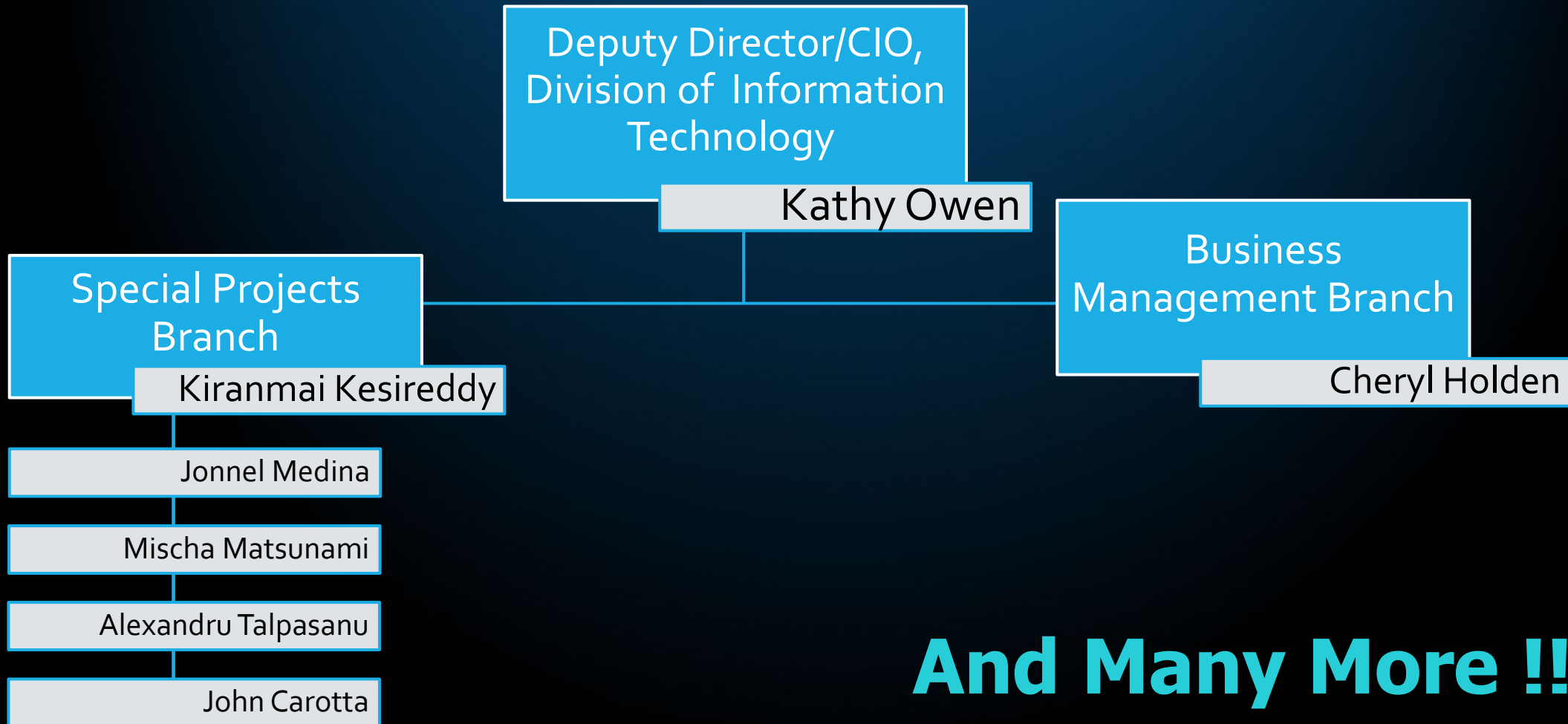
An aerial view of a soccer field, showing the green grass, white and yellow boundary lines, and two goals. The field is divided into several vertical sections by a dark blue background. A central horizontal band contains the text "PROJECT PLAYERS" in a bold, dark blue font.

PROJECT PLAYERS

Division of Water Rights Change Champions



Division of Information Technology Change Champions



And Many More !!

Independent Project Oversight (IPO) Staff



- Renée Evans
- Eric B. Aguilar, MBA, PMP

Contractors

Gartner[®]

Project Management Consultant

Deloitte.

System Integrator (software developer)



Sub-Contractors



GIS Map interfaces



Most other Interfaces



Independent Verification and Validation (IV&V)



PUBLICTM
CONSULTING GROUP

Who are the UPWARD Advisory Group members



Diverse group of individuals representing:



Varied water rights interests



Geographically dispersed



Various water data users

**Now on to UPWARD project
details...**

WHY DO WE NEED TO MODERNIZE?

DIVISION DATA NEEDS

eWRIMS



Changes Over the Years

Technology has changed quickly – so has the Division of Water Rights

1990s

**WRIMS
Database
(<100 staff)**

Applications, Permits, Enforcement

**Other
Division
Work**

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2006
eWRIMS
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(120 staff)

**Applications, Permits, Licensing,
Enforcement**

**Other
Division Work**

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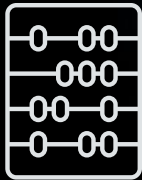
**Other
Division Work**

2023
UPWARD
Project
(250 staff)

**Applications,
Permits, Licensing,
Enforcement**

Other Division Work

Specific Challenges



- Electronic Water Rights Information Management System (eWRIMS) and Report Management System (RMS) are from 2007 and 2011, based on proprietary architecture that is inflexible to expansion, and does not connect to other core databases.

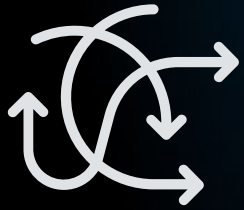


- Little or no system documentation, unknown columns and fields



- Inability to relate tabular records with geospatial data, no geospatial place of use boundaries!
 - Siloed systems cannot efficiently analyze large batches of data

Specific Challenges Cont.



- Data stored in multiple locations with redundant efforts
 - Cannot perform consistent QA/QC on mixed data sources!



- Paper records (7 Million pages, dating back to 1890's)
 - Inequitable access to records



- New mandates and programs require new functionality, current systems are not flexible

UPWARD Vision



Enhance Water Boards' Reporting and Decision-Making Capabilities

Improve Water Boards' ability to generate valuable insights and enable data-driven decision making (e.g., quality and timeliness of data).



Improve Partners' Ability to Utilize Data and Make Effective Data-Driven Decisions

Provide external stakeholders (e.g., local jurisdictions, community water boards) with increased usability, transparency, and access to the data collected by Water Boards, including less reliance on paper records.



Improve the Water Boards' Customer Experience

Improve the Water Boards' ability to interact with reporters and the public by creating effective communication interfaces and comment tracking.



Increase Operational Efficiency

Better equip the Water Boards' personnel to address current and future operational needs and reduce overall time and cost.



Enhance Compliance & Enforcement

Update the core water rights data management system (and business practices) to support the Water Boards' mission by leveraging new technology to help identify compliance issues and enforce regulations.



Mitigate Risk

Mitigate the Water Boards' security risk by decreasing the reliance on aged technology and ensuring modern security practices are followed.

UPWARD Macro Goals

A *technology* upgrade to streamline and improve *data* processes throughout the Division of Water Rights...



Replace aging data systems



Digitize legacy paper documents



Establish data governance

UPWARD Procurement Timeline

Highly Expedited Process – 20 Months to Kickoff!

- July 2021 – Funds Acquired, First Team Meeting
- October 2021 – Gartner (External Project Manager) Hired
- Fall/Winter 2021 – Project Requirements and Solicitation Development, Internal Hiring
- December 2021 – Public Solicitation of contractors
- February 2022 – Vendors Selected for Proof of Concept
- Fall 2022 – Contract Negotiations
- February 2023 – Contract Award to Deloitte
- March 2023 – Project Kick-Off!



CalWATRS Main Functions

California Water Accounting, Tracking, and Reporting System

CalWATRS is the IT project part of UPWARD

Goodbye eWRIMS/RMS...

For Water Right Owners/Public

- User Accounts!
 - Access to your own records
- Paperless Forms
- Improved communications with Division
- Single login for applications, change requests, annual reports

For Division Staff

- Cases and workflows
- Import of data directly from paperless forms
- Improved data visualizations
- Integrated electronic documents
- Improved public help system
- Geospatial enhancement to data

CalWATRS High-Level Timeline

Phase 1 – Foundation of new system (Spring 2023- Spring 2024)

- Discovery of current processes, design of future processes
- Developing intake forms and staff workflows

Phase 2 – Minimum Viable Product (Spring 2024 – Spring 2025)

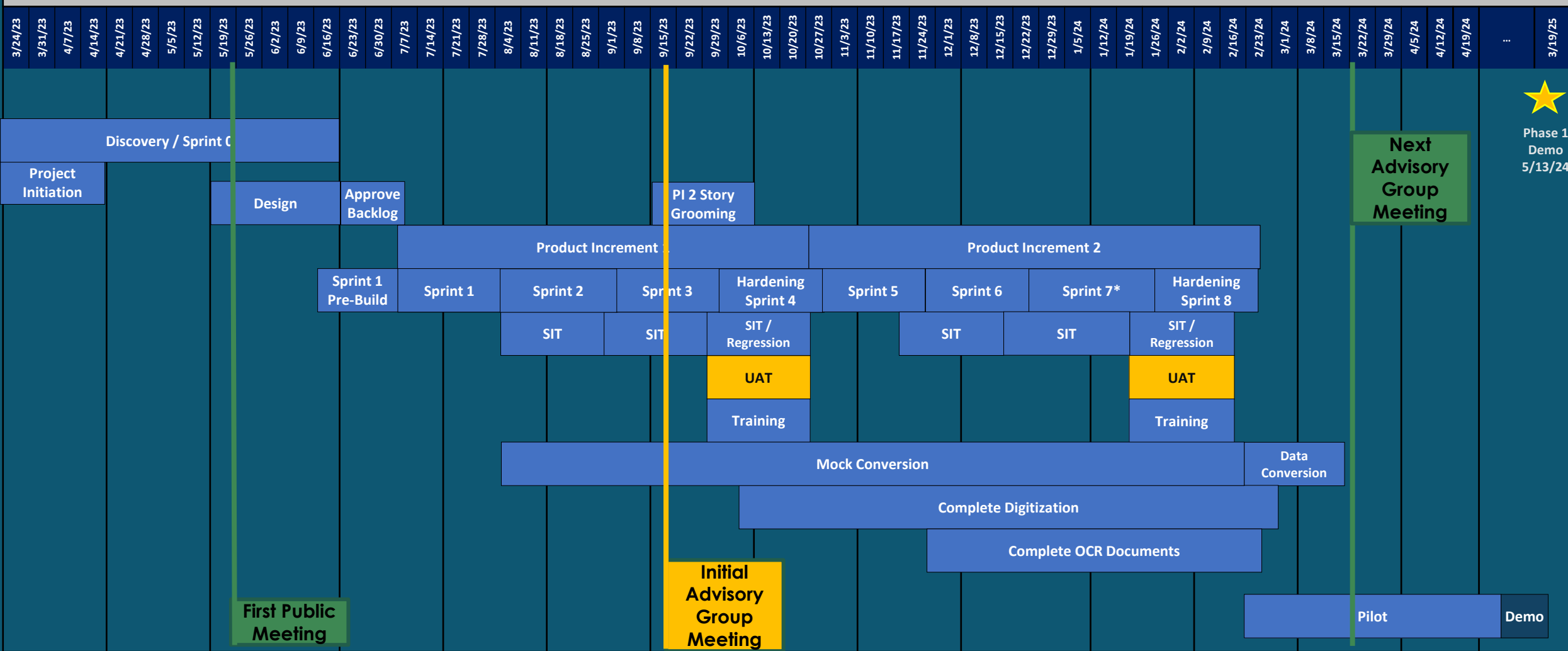
- Build out full public, water right holder, and staff interfaces
- Final testing of new system, data conversion

CalWATRS goes live, old systems no longer used (Spring 2025)

Future Enhancements, Ongoing Maintenance (2025 – 2028)

Phase 1 Timeline

Phase 1 Implementation



eWRIMS Currently



e-WRIMS - Public Data Access Menu

[Return to eWRIMS Home Page](#)

- **[Water Rights Records Search](#)**

This function allows for the search of water right records in the database. Searches can be performed by filtering a number of parameters, including record identifier, type, status, primary owner name, owner type, and county. Search results and individual record information is available to be viewed and downloaded as a comma separated value file. If you are unsure of the location of the water right, you may use the Web Mapping Application function below.

- **[Water Rights Complaints Information Search](#)**

This function allows for the search of water right complaint records in the database. Searches can be performed by filtering parameters including CalEPA Complaint#, e-WRIMS complaint ID, submittal or closure date, complaint name (or anonymous complaints), respondent name, allegation type, status, violation findings, and location parameters like country and water course information. Search results and individual record information is available to be viewed and downloaded as a comma separated value file. Some complaint information may not be immediately available, to protect potential or personal information.

- **[Water Rights Web Mapping Application](#)**

The eWRIMS Web Mapping Application provides the spatial location of water rights throughout California. Using a Geographic Information System (GIS), you can search for the location of water rights by visually displaying the location of point(s) of diversion on a map or aerial photograph. If you find water rights using this method, you can use the eWRIMS Database System (above) to search for information about the water rights.

- **[Decisions and Orders](#)**

This function allows for the search of State Water Resources Control Board resolutions, orders, and decisions related to water right matters. It includes orders from the Executive Director, Delta Watermaster, and Deputy Director for Water Rights. It also includes Division Decisions from the Deputy Director for Water Rights.

- **[Water Rights Progress Reports](#)**

eWRIMS Currently



Water Rights Records Search

Enter query criteria below and click "Search".

Water Right Type: (Ctrl-click to select multiple values)	Adjudicated Appropriative Appropriative (State Filing) Cert of Right - Power
Sub Type: (Check all that applies) (FOR STATEMENTS ONLY)	<input type="checkbox"/> Riparian <input type="checkbox"/> Pre 1914 <input type="checkbox"/> Court Decree/ Adjudication ==> #: <input type="text"/> <input type="checkbox"/> Other ==> Specify: <input type="text"/> <input type="checkbox"/> Un-Authorized Diversion <input type="checkbox"/> Incomplete Statement
Water Right Status: (Ctrl-click to select multiple values)	Active Adjudicated Cancelled
Application ID:	<input type="text"/>
Permit ID:	<input type="text"/>
License ID:	<input type="text"/>
Special Use Area:	<input type="text"/>
County: (Ctrl-click to select multiple values)	Alameda Alpine Amador Butte
Primary Owner:	<input type="text"/>
Entity Type: (Ctrl-click to select multiple values)	Corporation Estate Federal Government Government (State/Municipal)

CalWATRS Mockups

The screenshot shows a web browser window displaying the CalWATRS user dashboard. The browser's address bar shows a search engine. The page header includes the California Water Boards logo and navigation links for 'My Cal-WATRS', 'Applications', 'Search by map', 'Search information', and 'More'. The main content area features a welcome message for 'Sam' and a 'Needs Your Attention' section with three notification cards. The first card, highlighted in red, indicates that 'Annual Reporting is Due' on 24 April 2023 (past due date) with a 'Review' button. The second card, highlighted in yellow, indicates that 'Your application is expiring soon' on 24 April 2023 (due in 30 days) with a 'Continue' button. The third card, also highlighted in yellow, indicates that 'Your contact information is missing' with a due date of 12 June 2023 (due in 40 days) and a 'Confirm' button. A 'View all notifications' link is located at the bottom right.

← → ↻ 🏠 🔍 Search Google or type a URL

CA.GOV CALIFORNIA Water Boards




🔍 🌐 Translate 🔔 3 👤

My Cal-WATRS ▾ Applications ▾ Search by map ▾ Search information ▾ More ▾

Welcome Sam to Cal-WATRS!

This is your personal dashboard. You will find personalized information, services, and action items - all in one place.

Needs Your Attention ⓘ

 24 April 2023 (Past due date)	Annual Reporting is Due	Review
 24 April 2023 (Due in 30 days)	Your application is expiring soon	Continue
 12 June 2023 (Due in 40 days)	Your contact information is missing	Confirm

[View all notifications →](#)

CalWATRS Mockups

Get Started



Apply for water right

T1 Card description is here
lorem ipsum text lorem
ipsum text. T1 Card
description [➔](#)



Manage water rights

T1 Card description is here
lorem ipsum text lorem
ipsum text. T1 Card
description [➔](#)



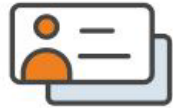
Search by map

T1 Card description is here
lorem ipsum text lorem
ipsum text. T1 Card
description [➔](#)



Search information

T1 Card description is here
lorem ipsum text lorem
ipsum text. T1 Card
description [➔](#)



Profile

T1 Card description is here
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description [➔](#)



Fees

T1 Card description is here
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description [➔](#)



Appointments

T1 Card description is here
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ipsum text. T1 Card
description [➔](#)



Help Center

T1 Card description is here
lorem ipsum text lorem
ipsum text. T1 Card
description [➔](#)

CalWATRS Mockups

Your water rights snapshot



12 Permits



3 Licenses



6 Registrations



5 Statements



2 Certifications



10 Applications



Cal-WATRS Information

[About Cal-WATRS](#)

[Web Accessibility](#)

[Privacy Policy](#)

Have Questions?

 Call [800-000-0000](tel:800-000-0000)

 Email calwatrs.info

 Visit [calwatrs-help](#)

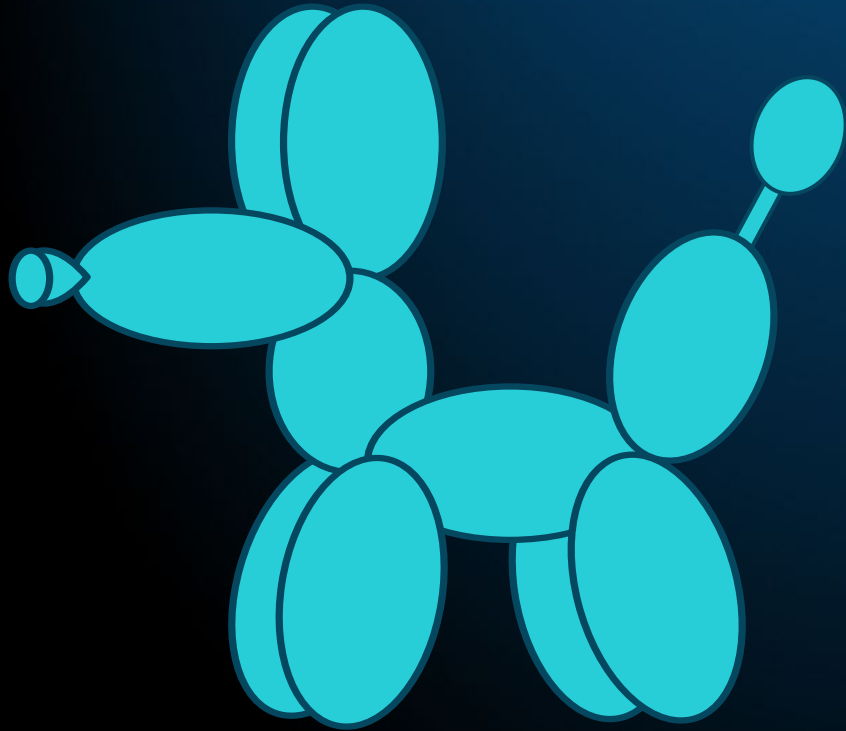
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**Before we do a few
interactive activities...any
questions or comments so
far?**

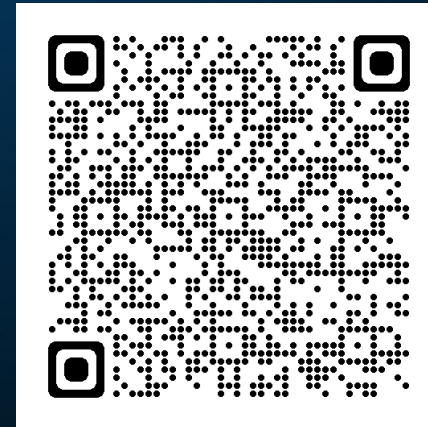
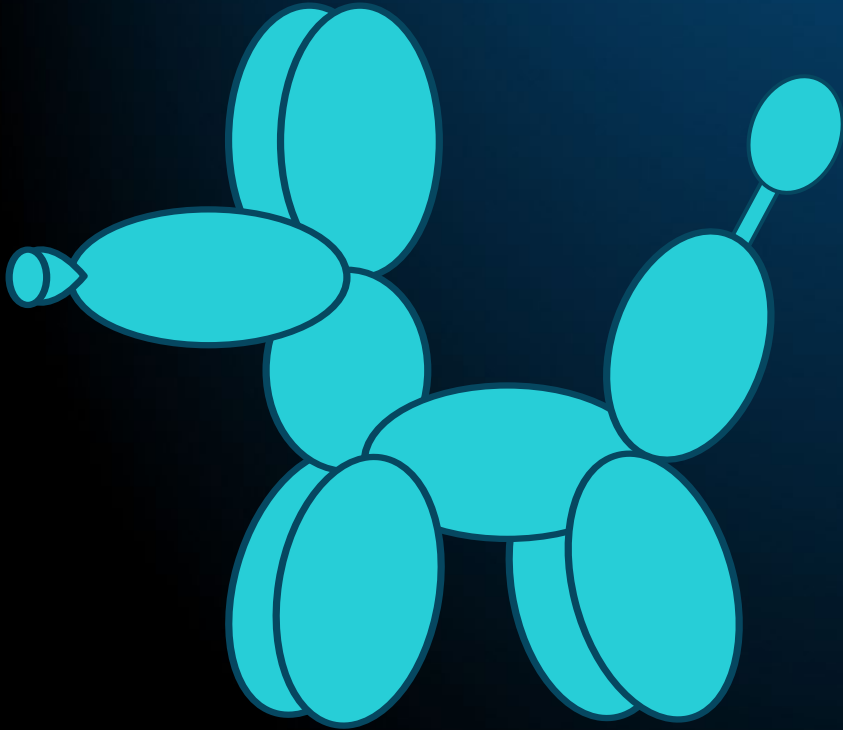


Mentimeter Activities

Please take out your cell phones

Use your phone's camera to follow the QR
code to activity

Jamboard Activity



<https://jamboard.google.com/d/17LfDNHNn1aTGB4fMeB5zLFAbPPeFo1RUPGQYDG8zVJc/edit?usp=sharing>



UPWARD Meeting

Questions and Open Discussion

Zoom: Raise your hand

*Phone: Press *9 to raise/lower your hand and *6 to unmute*