

The Water Information and Data Subcommittee (WIDS) Kickoff Meeting

April 23, 2021

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WESTERN STATES
WATER COUNCIL

WIDS Kickoff Meeting Agenda

- **Welcome and Introductions: 10 minutes**
- **Background and Resuming WIDS: 5 minutes**
- **WSWC's Water Data Exchange Program Status: 15 min**
- **Discussion on WaDE's Progress: 15 min**
- **Next Steps and Directions: 15 min**

Key WIDS Membership Expectations

- Attend 2- 4 conference calls a year, as needed.
- Advise the WSWC Executive Committee and oversee and direct present and future WSWC data-related efforts, including the Water Data Exchange (WaDE).
- Provide feedback on federal data-related initiatives
- Develop and host WSWC Water Information Management Systems (WIMS) Workshop.

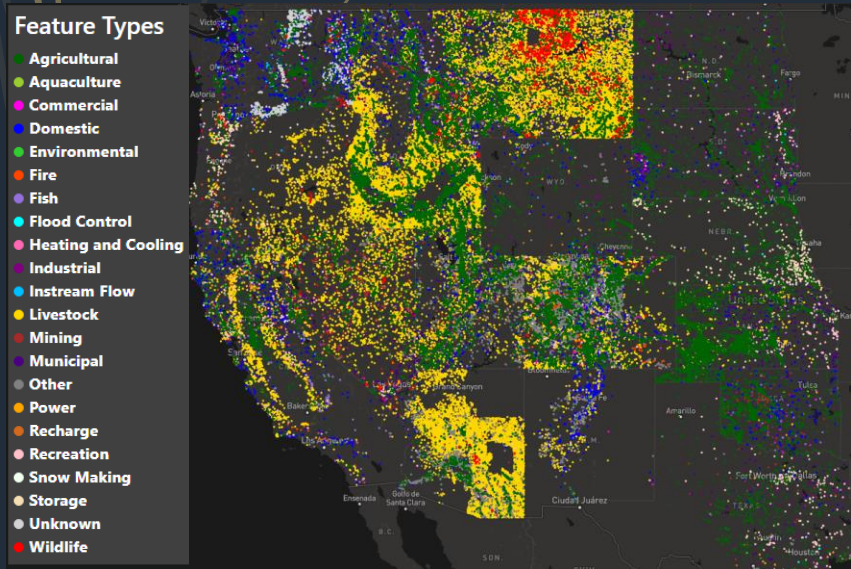
Outline

- Why WaDE and WaDE 2.0 **Architecture**
- Status of **Data Mapping** to WaDE
- WaDE 2.0 Design Stages
- WaDE Personas and **Dashboard** Design
- **Dashboard** Demo
- Next Steps

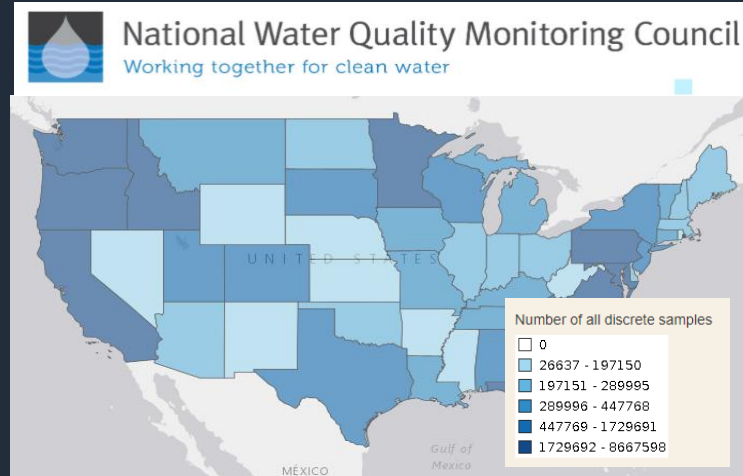
Water Data Shared by WaDE

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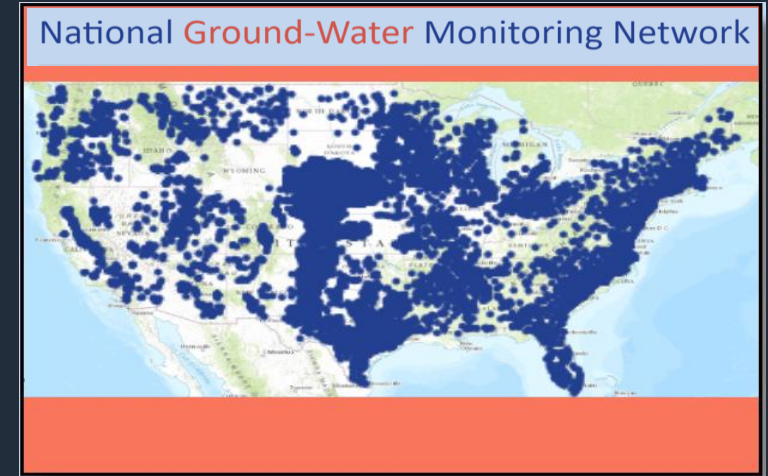
- ❑ Water rights
- ❑ Site-specific use and withdrawals
- ❑ Aggregated water budget estimates
- ❑ Regulatory overlays



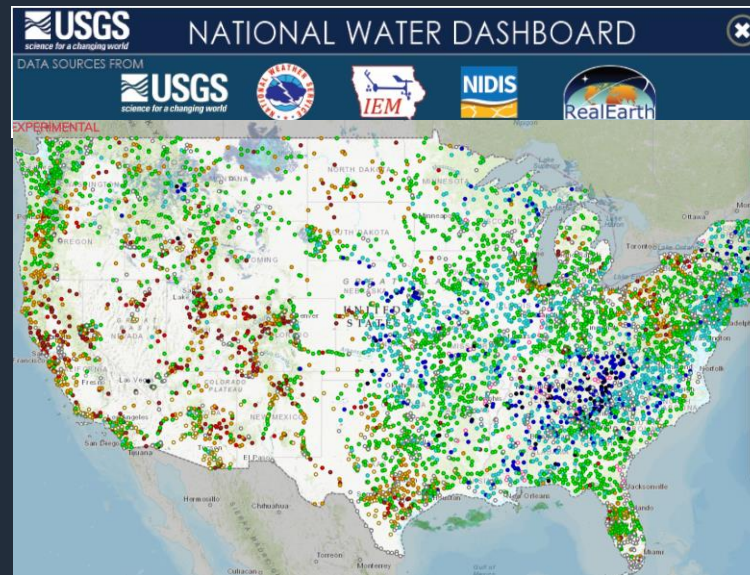
Water Data Shared by Federal Agencies



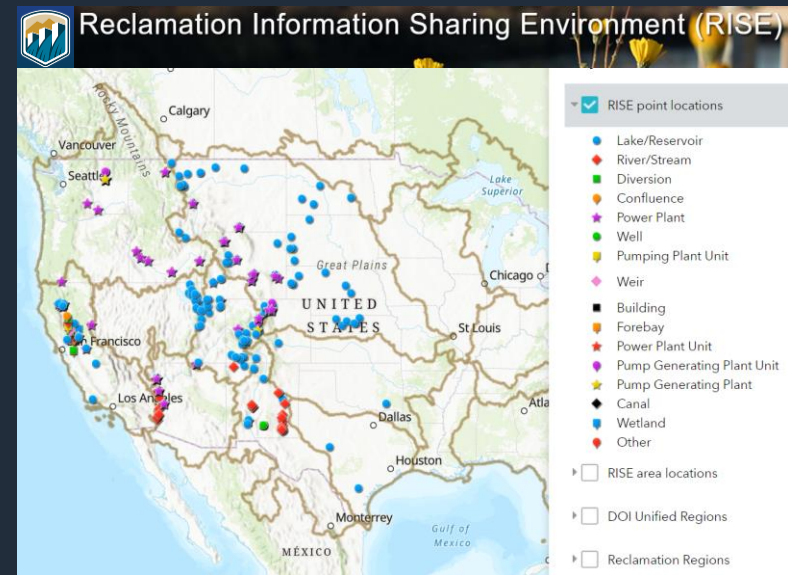
<https://www.waterqualitydata.us/coverage>



<https://cida.usgs.gov/ngwmn/index.jsp>

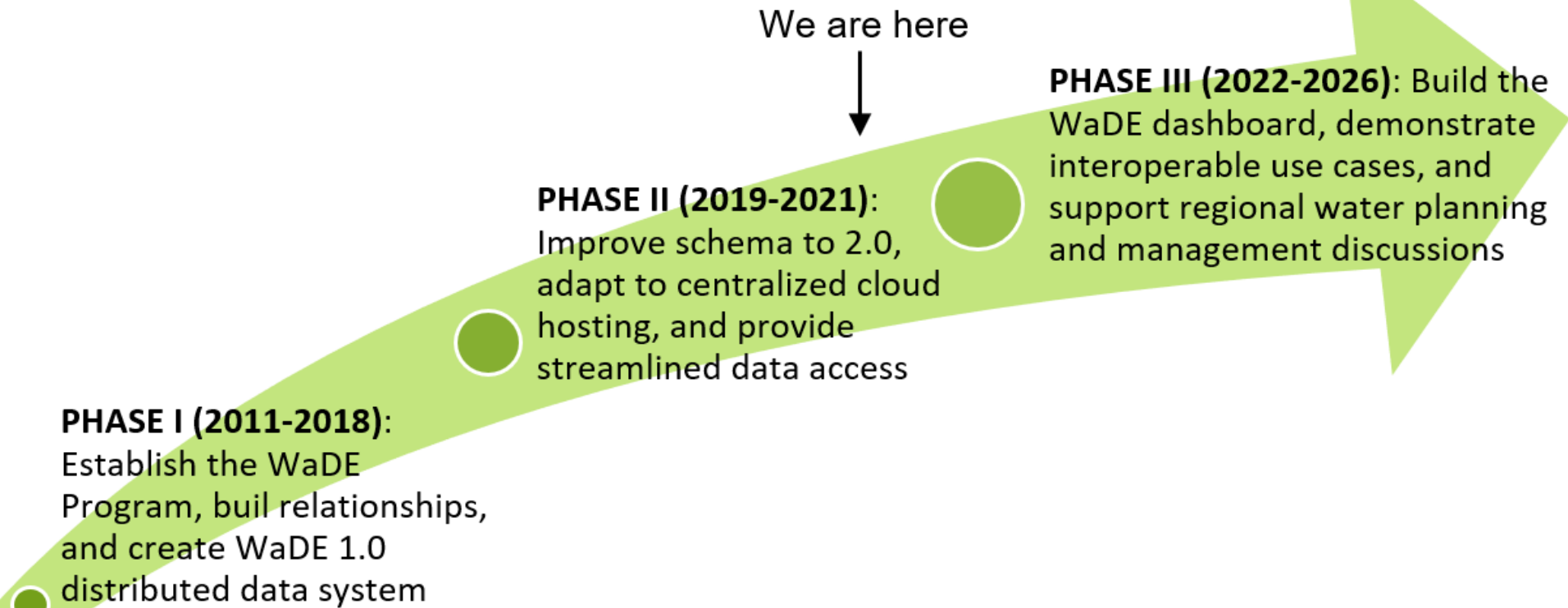


<https://dashboard.waterdata.usgs.gov>

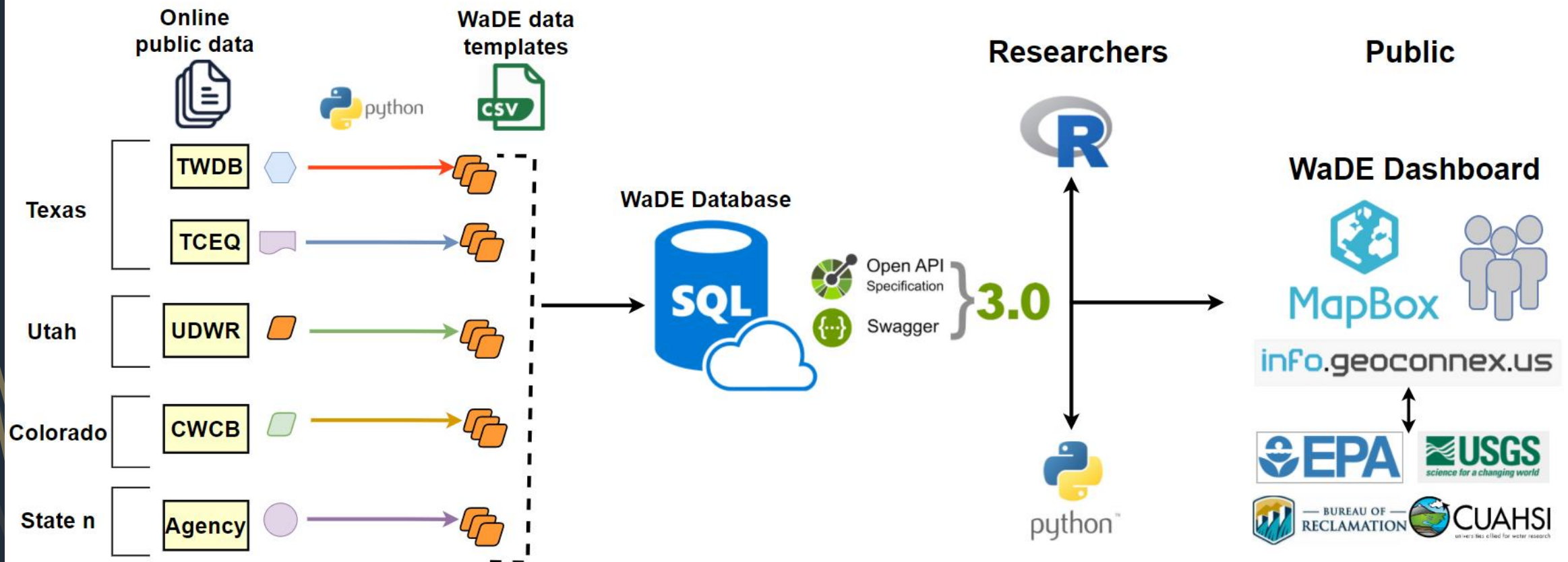


<https://data.usbr.gov/rise-map>

WaDE Phases



WaDE 2.0 Architecture



WaDE 2.0 “Translates” Water Terminology

□ 32 metadata terms

Irrigation Method, Customer Type, Crop Type, Site Type, Water Source Type, Water Allocation Type, Applicable Resource Type, Data Quality Value, Report Year Type, Water Quality Indicator, Water Allocation Basis, Method Type, Legal Status, Regulatory Status, Regulatory type

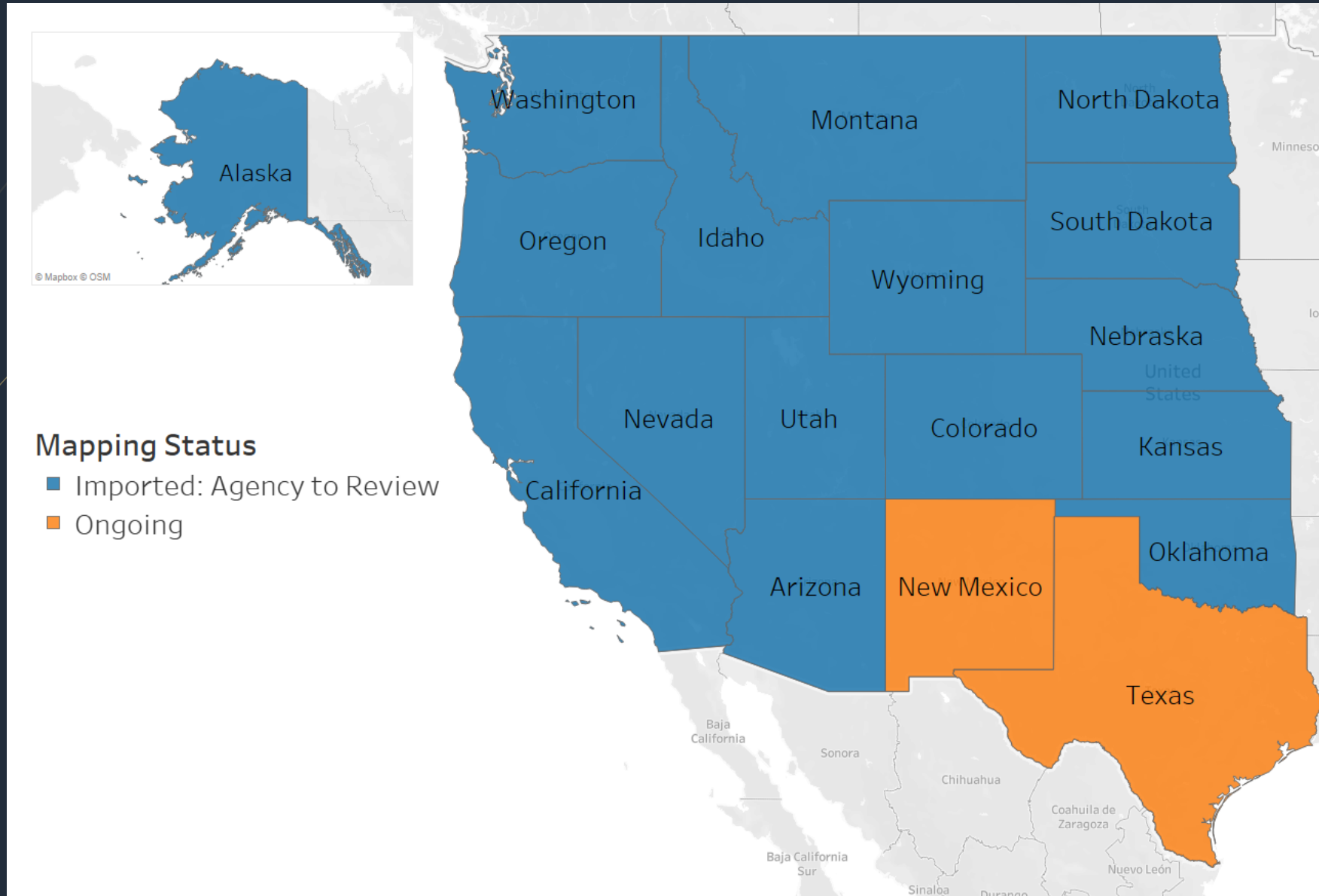
| # | Key Term | # of States Unique Terms | # of WaDE Unique Terms |
|---|-------------------------|--------------------------|------------------------|
| 1 | Beneficial Use Category | 407 | 22 |
| 2 | Water Source Type | 37 | 5 |
| 3 | Site Type | 152 | 31 |
| 4 | Legal Status | 85 | ? |
| 5 | Water Allocation Type | 92 | ? |

Legal Status: Absolute / Approved / Certificated / Decreed / Licensed / Registered / Reserved / Vested / Conditional / Deferred / Permit

Water Allocation Type: Application / Change / Permit / Temporary/Exempt /Claim /In Review

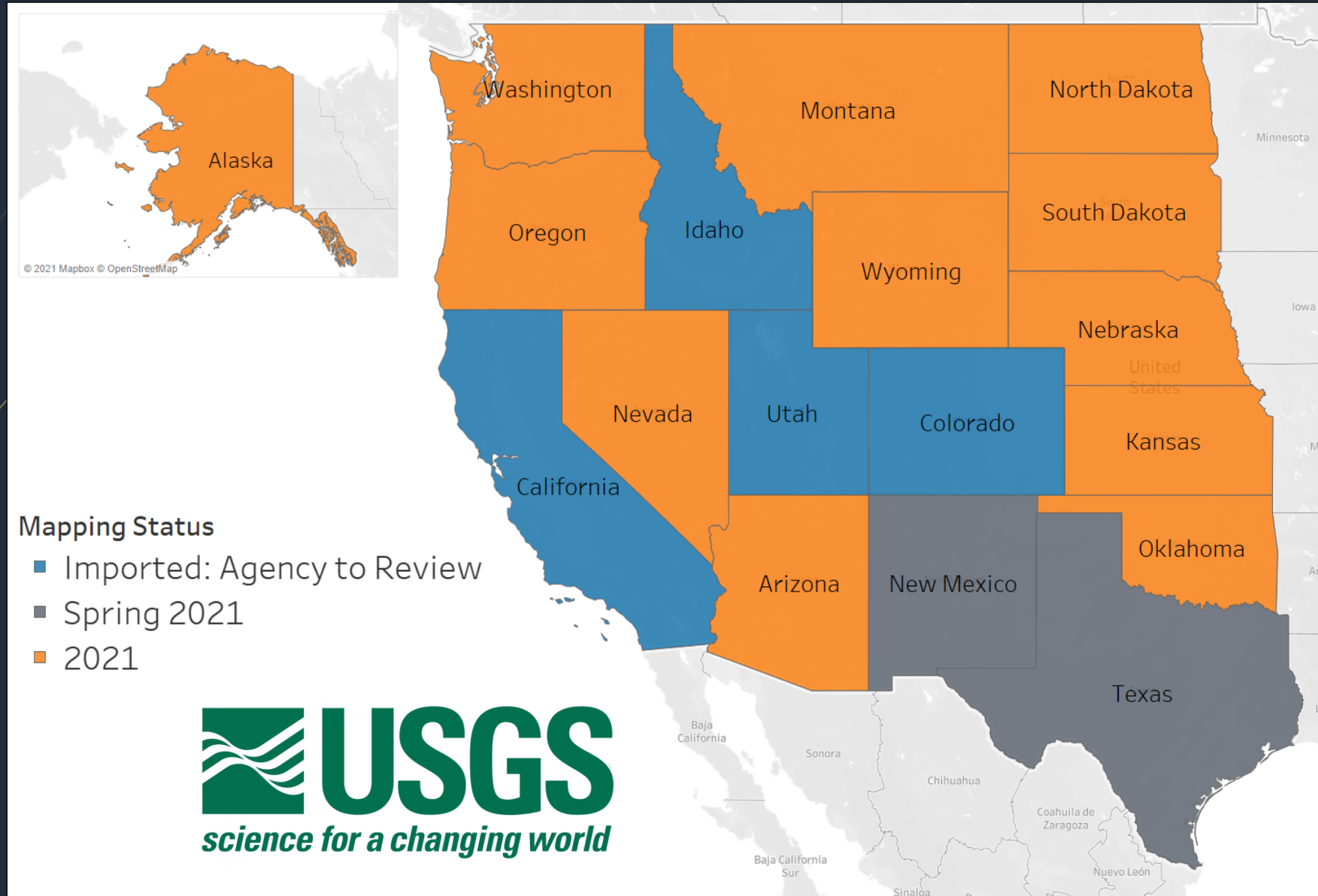
Status of Water Rights Data Mapping

9



Status of Site-Specific Water Data Mapping

10

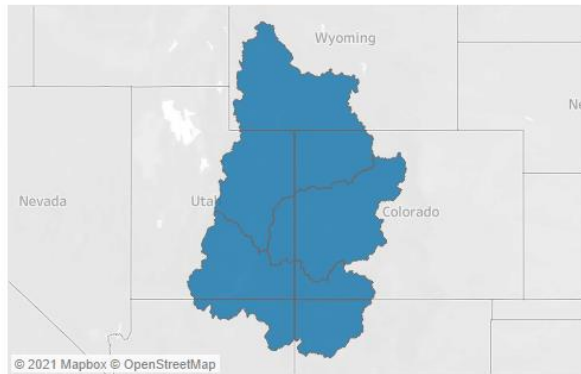


Status of Aggregate Water Data Mapping

11

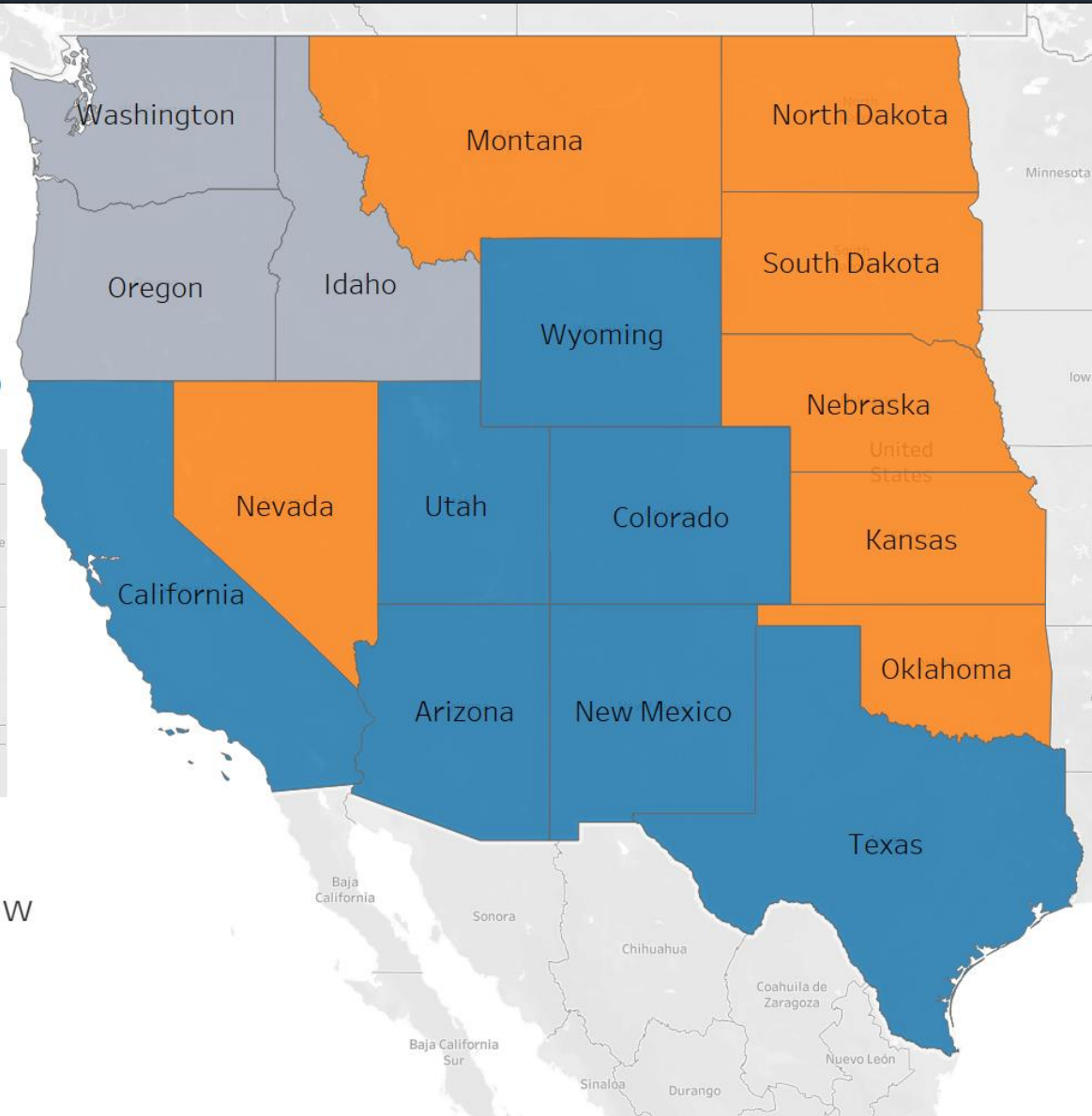


Bureau of Reclamation: Upper Colorado River Basin



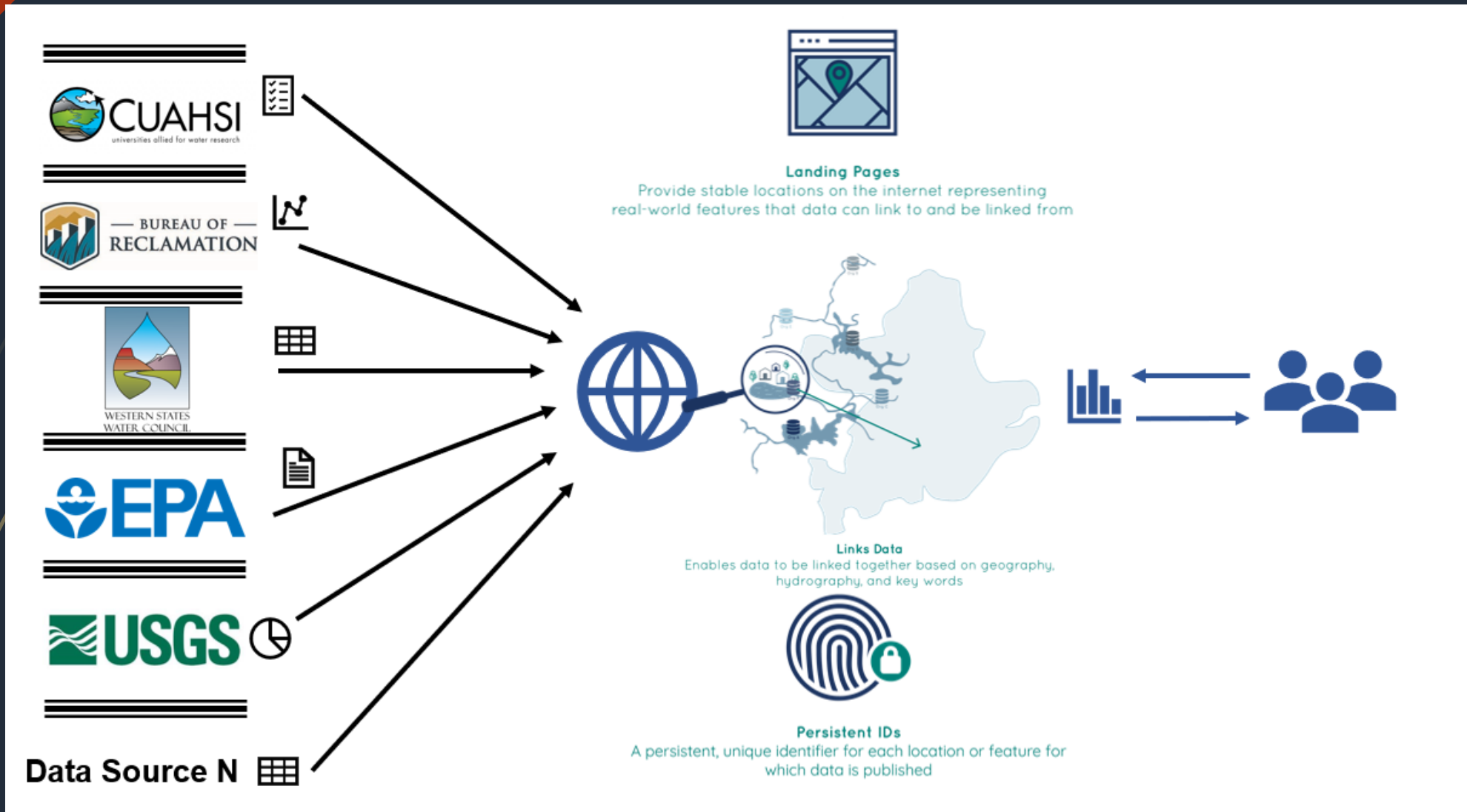
Mapping Status

- Imported: Agency to Review
- 2021
- Not produced



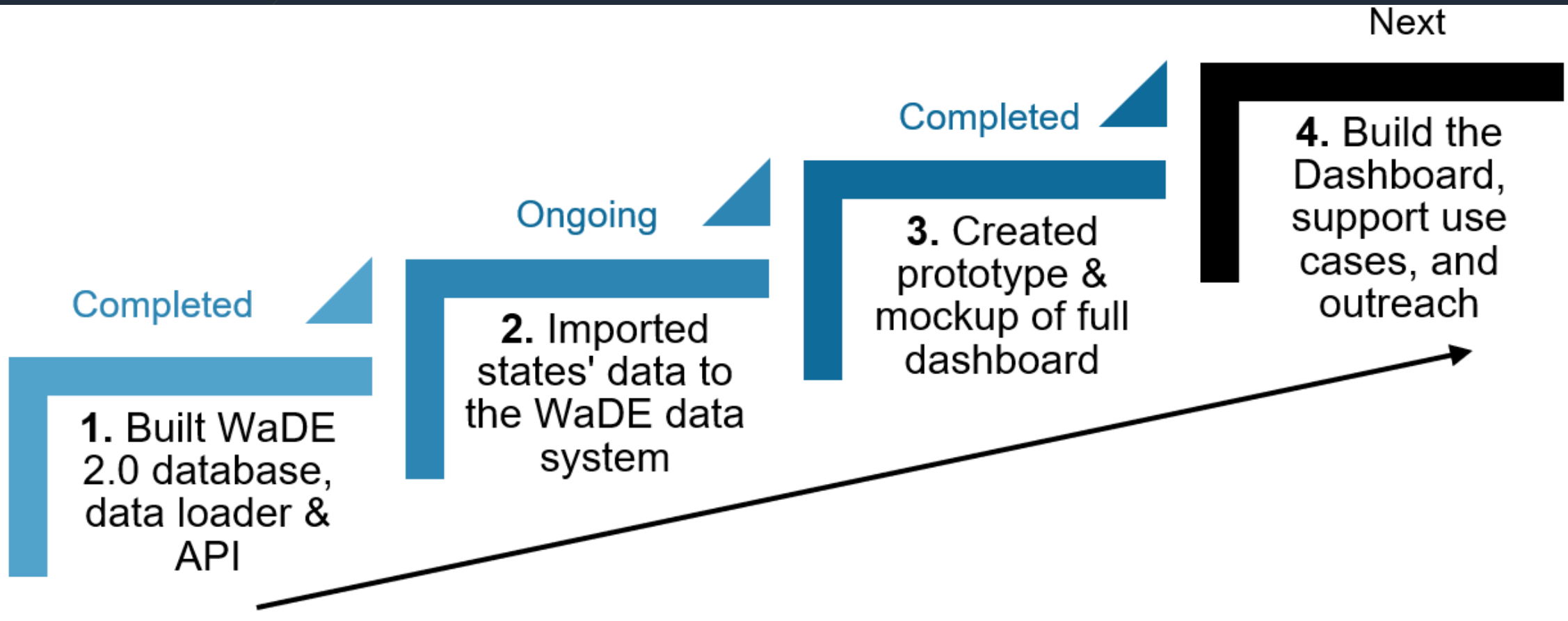
WaDE Integration with Geoconnex

12



Credit: Kyle Onda and Lilli Watson

WaDE 2.0 Development Stages



WaDE Fictional Personas

- Gary the Governor: **Integrate data across state agencies**
- Stan the State Engineer: **Upstream and downstream structures and rights**
- Frank the Farmer: **Nearby water rights**
- Maggie the River Basin Manager: **Regional insights and trends**
- Laila the Land Manager: **Insights on water and land use connections**
- Ratibah the Researcher: **Download state's data**

Next steps

- ▶ Work to secure **funding** for WaDE beyond Oct 2021
- ▶ Hold focus groups meetings
- ▶ Third Colorado River Basin Workshop: Tentative in December
- ▶ Continue **connecting** member states data into WaDE
- ▶ Work with our IT Contractor on designing **WaDE Portal 2.0**
- ▶ Support WaDE data interoperability with USGS and IOW **Geoconnex** U.S. Hydrologic Features
- ▶ Coordinate with **Reclamation** on their water rights database project
- ▶ **Beta release** WaDE 2.0 system to our partners and the public in December 2021 (?)

Funders, Collaborators & Partners

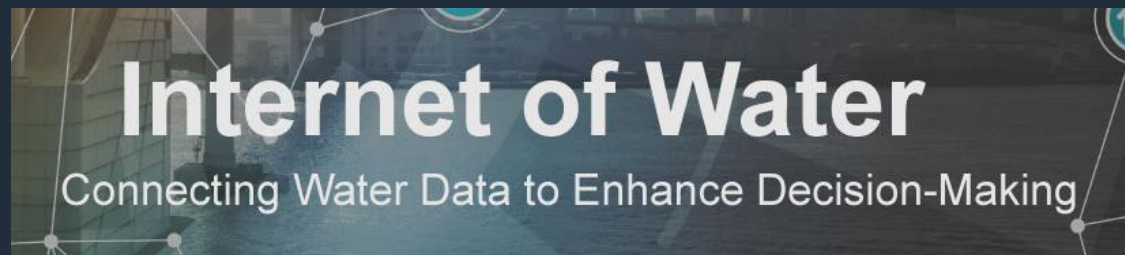
Water Foundation

Mitchell Foundation

MOORE Foundation

EPA Exchange Network Grant Program

Western States Water Agencies



Discussion on WaDE's Progress and Next Steps and Directions

- **Focus Groups to Discuss WaDE's Use Cases**
- **How can WaDE be Helpful to you?**
- **WUDR Grants to States**
- **Water Information Management Systems (WIMS) and USGS National Water Use Data Collaboration Workshop**
- **WaDE Funding**
- **Next WIDS Call**

Thank You!

Tony Willardson, Executive Director
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Questions?

