

A photograph of a female teacher with short dark hair and glasses, wearing a white t-shirt, sitting on the floor and reading a book to a group of young students. The students are also sitting on the floor, looking at the book. They are in a classroom with bookshelves in the background filled with books and blue storage bins.

TSDS Operational Data Store 3.x Transition

AGENDA



■ ODS 3.x TRANSITION

- TSDS Vision
- Timeline
- TSDS Data Standards
 - Current Data Standards
 - Future Data Standards
- Current vs Future Processes
- ODS 3.x Data Flow
- Technical Guidance & Information
- Next Steps
- Technical Resources

TSDS VISION

- Key goals set in 2009:
 - Reduce **technology risk** and system downtime
 - Put real-time **student performance data** in the hands of educators
 - Become the **one common data collection platform** for TEA
- Other goals set in 2009:
 - Allow for more **usable, reliable, and expandable** data standards
 - Allow for more **flexible data validation** processes

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TIMELINE

- February 2021
 - TEA entered contract with Instructure
 - Partnered with the Ed-Fi Alliance, the Michael & Susan Dell Foundation and the Bill & Melinda Gates Foundation
- June/July 2021
 - Begin Pilot 1 for 2021-2022 school year
 - Additional pilots will be added.
- August 2022
 - Parallel year for 2022-2023 school year
- August 2023
 - TSDS 3.x ODS will go-live for the 2023-2024 school year.

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CURRENT TSDS DATA STANDARDS

- Ed-Fi 1.x utilized with multiple Texas extensions
- Data extracted via XML interchanges as of specific snapshot dates
- TSDS is more than two major versions behind the Ed-Fi standard.

FUTURE TSDS DATA STANDARDS

- Utilize Ed-Fi 3.x (most current) data standard
 - Stay no more than one major release behind current published Ed-Fi standard.
 - Decrease in Texas-specific extensions
 - Descriptor values (code tables) allow for more flexibility
- Data will be transactional via application programming interfaces (APIs)
- TWEDS will support both versions of the data standards.

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CURRENT TSDS LIMITATIONS

- Most new data collections require extensions.
- Performance issues due to bulk loading.
- Validation tool is limited to code table and XML structure validations.

FUTURE TSDS PROCESSES

- Data will be sent via APIs transactionally.
 - As changes are made in the student information system or other source systems, data will be sent to the ODS.
- New ODS Administration Interface will be provided
- In order for TEA to pull data from the ODS for specific collections, TEA will implement “effective-dating” using begin and end dates as delivered by the Ed-Fi model.
 - All data that requires to be as of a specific date have been identified. Where begin and end dates do not exist, they have been added.
- More robust validation process
 - Business rules may be moved up earlier in the data loading process.
- All processes that occur from the ODS to the data mart will remain as-is.
- Reports will remain available in downstream applications.

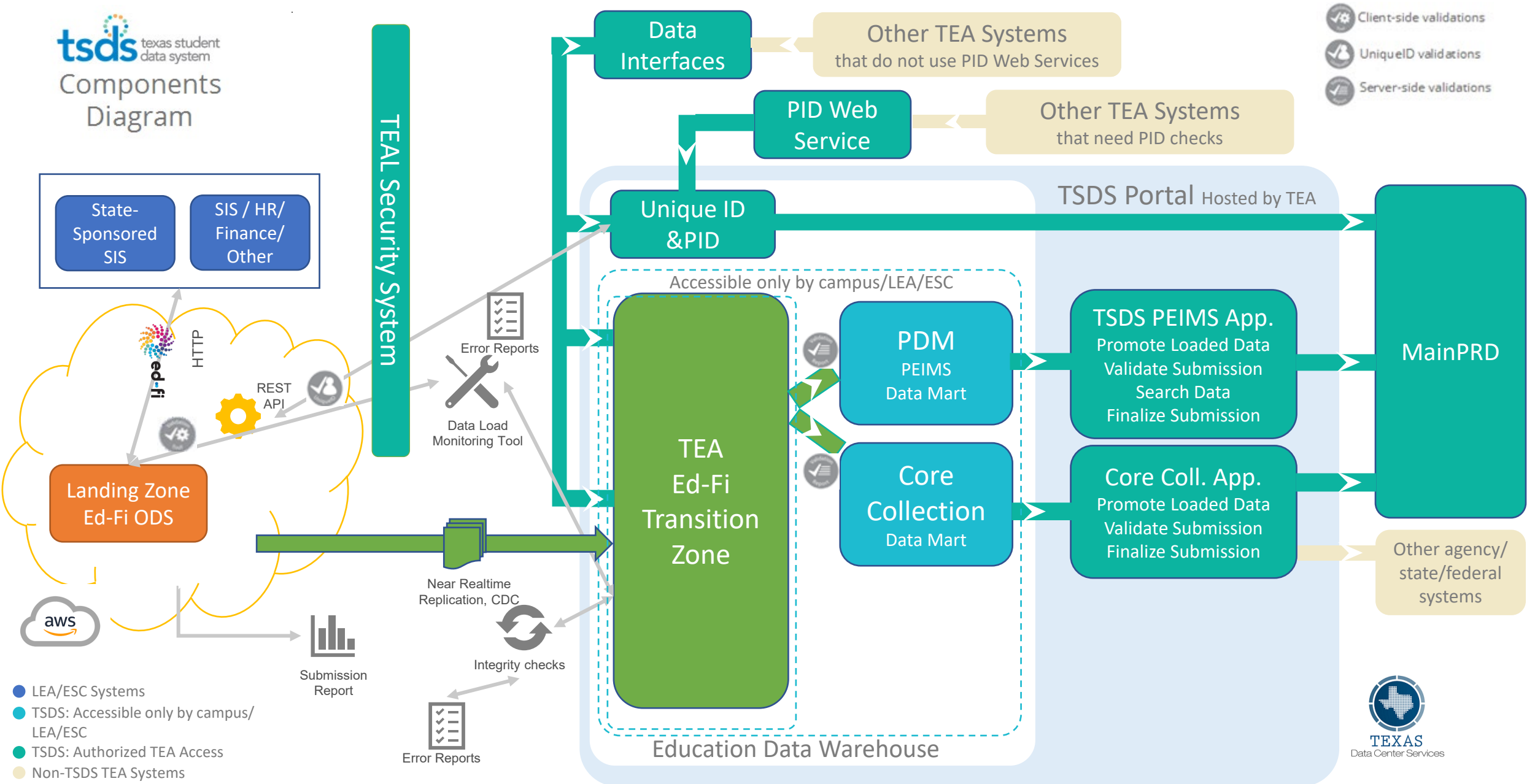
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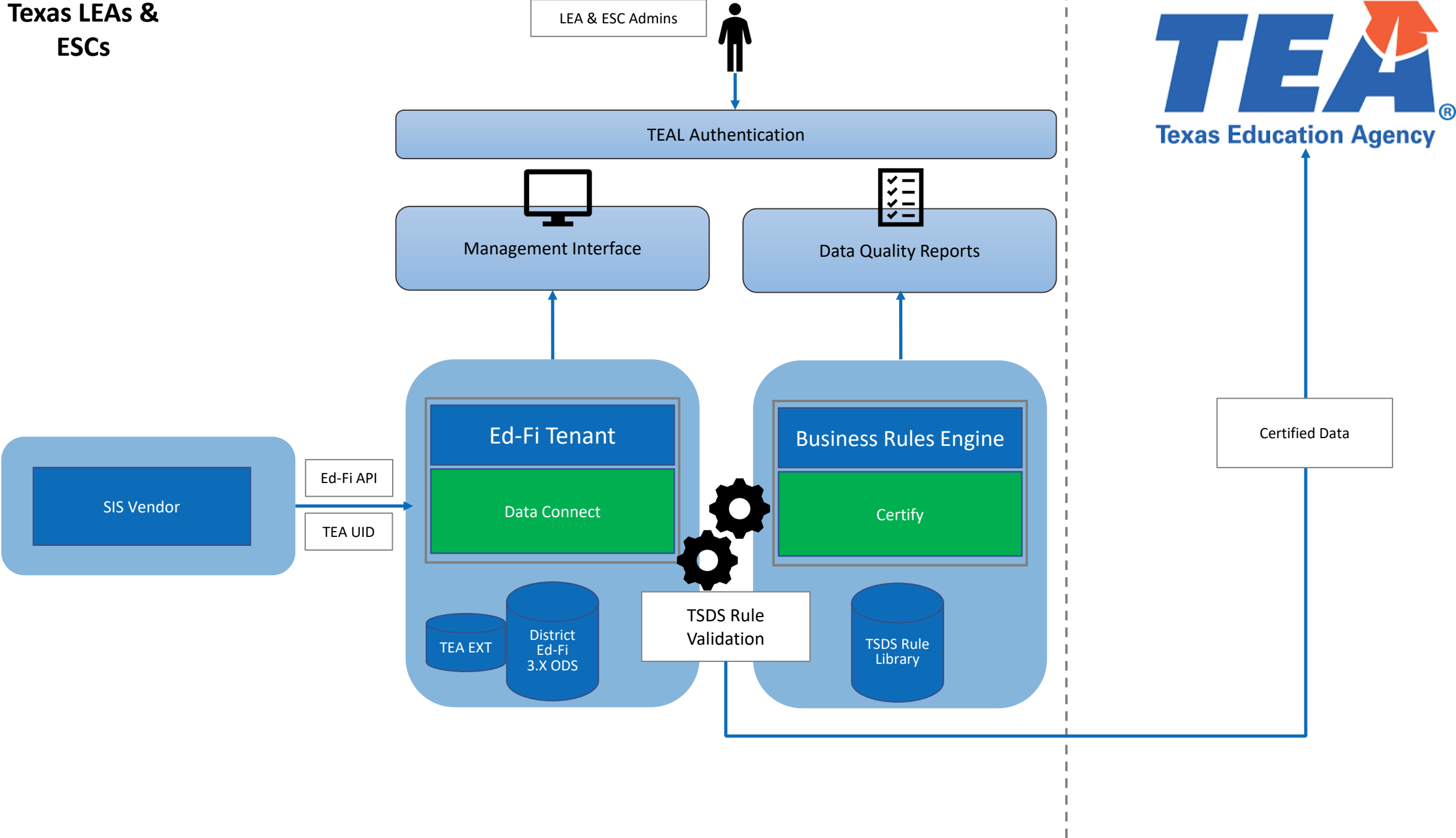
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tsds texas student data system
Components Diagram



Texas LEAs & ESCs



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TECHNICAL INFORMATION

- To ensure each vendor has met requirements and demonstrated the capability to integrate with the Ed-Fi APIs, each source vendor is expected to complete the relevant Ed-Fi certification or badging program.
 - [Ed-Fi Certification Program Information](#)
 - [Ed-Fi Badging Program](#)
- The Ed-Fi Alliance is available to assist vendors with certification and badging
 - Register for an Ed-Fi Community log-in for access to how-to, best practice guides, the Ed-Fi data standard documentation, and Ed-Fi certification and badging program details.
 - Get access to the Ed-Fi Slack channel and ticket tracking systems to access asynchronous support.
 - For questions and guidance beyond the documentation and asynchronous channels, contact [Cy Jones – Ed-Fi Solution Architect Vendor Partnerships](#).

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NEXT STEPS

- TEA, Instructure and Ed-Fi Alliance are still in the early planning phases for the project.
- Additional sessions will be held for both ESC and Vendor staff.
- TEA will begin the ODS 3.x Data Governance process in April 2021.
- A more detailed plan for data standard publications will be released June 2021.
- TEA will continue with outreach to the vendor community to assist with the pilots.

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TECHNICAL RESOURCES

- **Technical Specifications:**
 - [Texas Education Data Standards \(TEDS\)](#)
 - [Ed-Fi Data Standard](#)
- **Ed-Fi Technical Resources (Vendors)**
 - [Ed-Fi Community Login Signup](#)
 - [Implementation Playbook for Technology Providers \(login needed\)](#)
- **Questions:**
 - TSDSCustomerSupport@tea.texas.gov

TEA

Questions

tsds

