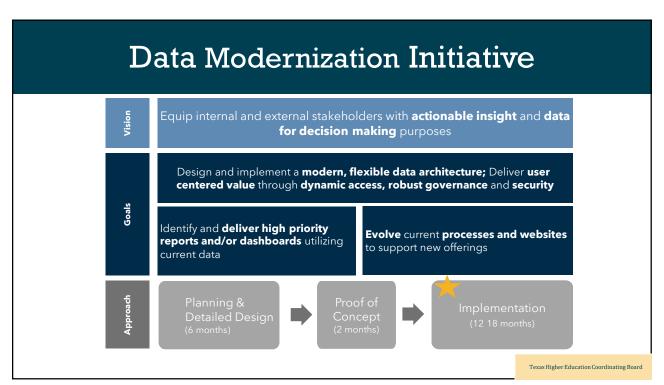
Texas Higher Education Coordinating Board

Data Modernization Initiative Update

Lori Fey, Deputy Commissioner - Data Analytics and Innovation

January 26, 2022

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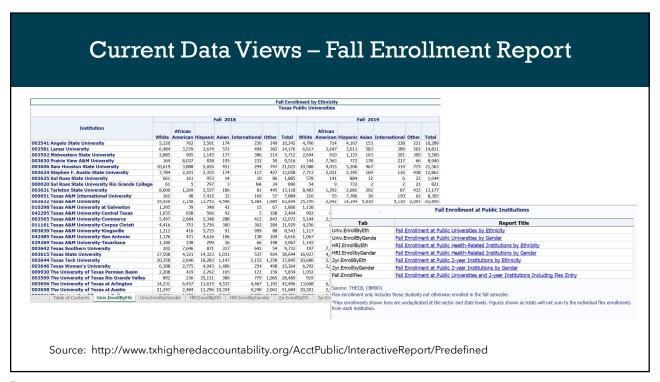
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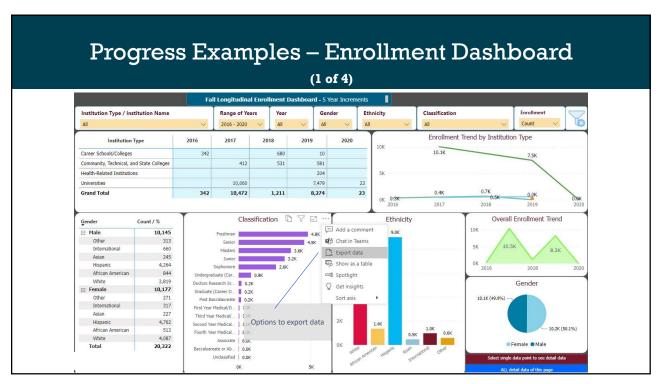
Data Modernization Initiative Timeline Planning/Proof of 14 months 9 months Jan – Apr 2021 May - Oct 2021 Nov 2021 - Jan 2022 Aug - Dec 2020 Feb - June 2022 Staff augmentation resources on Complete work on • Planning begins · Planning concludes · Launch initial public portal MVP technical pipeline with technical · Proof of Concept · Launch improved data discovery and stakeholder submission portals • Project roadmap work launches on Develop additional · Procurement launch 12 of 19 projects portals with · Complete remaining technical · Initial technical projects engagement • Parallel focus on technical pipeline differentiated data projects and public-facing assets · Conceptual design access Consider additional scope as Enhanced THECB data developed • Tri-agency data governance review Initial internal release of budget and GEER timeline allows governance designed and implemented • THECB data new public portal to Implement enhanced Tri-agency governance review launched include most frequently data governance, as needed requested data 3

Implementation Roadmap through July 2022 Established technical and production Continue developing data products into new, improved ... **Onboard vendor** and launch design/development for public portal UI/UX environments for testing and development Tech & Data Architecture Built quality assurance and user testing Continue work with Deloitte to design and develop Launch additional iterations of products according to a environments privileged and secure data access products refined road map and prioritization Launched work with Deloitte to support Complete first release of the initial public portal data for Initiate stakeholder outreach and feedback based on development of: internal testing and use change management and stakeholder engagement plans Form and document submission portal Complete release of the data submission portal for use Continue implementation work with Deloitte on change by institutions submitting Financial Aid Data System (FADS) reports using the modernized data pipeline management and stakeholder engagement work Privileged data portal and secure data Continue training internal team on new cloud enclave **Procure vendor** to design high-quality user interface/user experience (UI/UX) for externally facing portals Data management program including data modeling and governance Change management and stakeholder Consolidated stakeholder input Leverage Deloitte data governance support to Finalize project charter to guide development of Triimplement procedures and processes for the operation of the Data Governance Council (DGC), including external Agency governance structures, policies, and processes based on recommendations Completed assessment and recommendations Solicit feedback from external stakeholder group(s) on priority THECB and Tri-Agency data governance areas stakeholder group(s) to inform recommendations of the Approved data governance charter and handbook by the data governance council Prioritize and develop implementation approach for Tri-Launched new agency-wide data governance Agency data governance improvements based on assessment, together with TWC and TEA partners Completed review of Tri-Agency governance Identify and procure a web-based solution for a comprehensive, accessible data dictionary Secured cloud-based hosting environment Continue executing pre-launch adjustments to main Launch refreshed agency data website utilizing new Completed expert review of main website by new partners to assess main website build Prepare to launch main agency website Refine consolidated architecture and migration plan for all agency websites Completed user testing to support ongoing Plan for launch of refreshed data site, currently targeting improvements to agency websites Completed migration of websites from test environment to development environment Texas Higher Education Coordinating Board

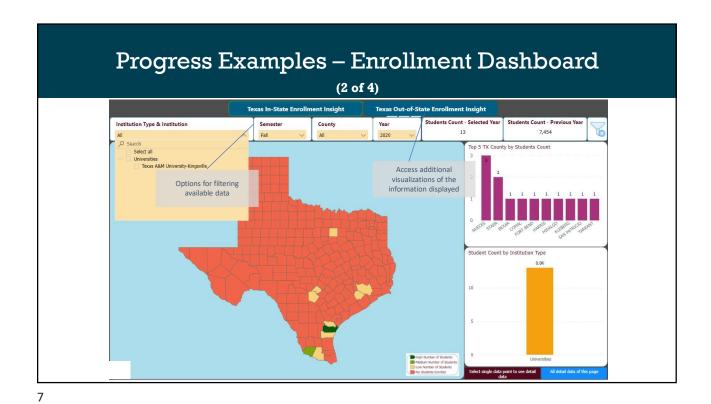
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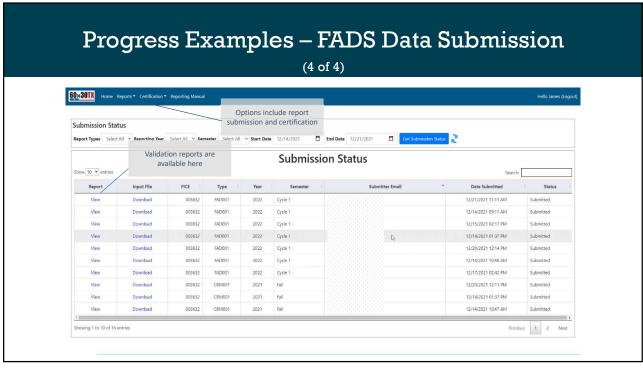


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Progress Examples – Degrees & Certificates Dashboard (3 of 4)**Texas Public Institutions Career Schools Degrees Awarded** nstitution Type & Institution Ethnicity Ethnicity Female Male White 2,557 Hispanic 876 1,268 374 245 African American Options for filtering 113 160 Other Asian 0.1K available data International 0.1K Graphs and charts can be Institution Region Degree Level 4.557 Bachelor's 2,803 609 Previous Year Count 100.00%企 Master's No data Associate Certificate 1 Core Curriculum Completer Degrees Trend by Year Doctoral Research Scholarship Certificate 2
Field of Study
Total 4,557 Test data only

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Other Noteworthy Progress

Data Management & Infrastructure

- Created automated curation and validation pipelines
- Built Extract-Transfer-Load (ETL) pipelines that move on-premises data to cloud
- Completed development and production environments in CI/CD pipeline
- Migrated CBM data supporting initial dashboards
- · Launched data architecture and governance project with Deloitte team
- Identified priority use cases for privileged data portal and secure data enclave

Tools

· Improved the test-data generation tool that creates de-identified data sets for use in development environments

Program Management

- · Launched change management work with Deloitte team to support upcoming releases
- In progress on procurement for public portal UI/UX design and development, responses due Jan. 19
- · Provided \$2.26M in grants to 57 public institutions for reporting system updates, funded by GEER

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