Using SAS to Develop UT System's Dashboard and seekUT

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The University of Texas System

Office of Strategic Initiatives

Texas 60 x 30 Goals (THECB 2015-2030)

- By 2030, 60% of Texans ages 25-34 will have a certificate or a degree. (**Overarching Goal**)

- By 2030, at least 550,000 students in that year will compete a certificate, associate, bachelor's, or master's from an institution of higher education in Texas. (**Completion**)

- By 2030, all graduates from Texas public institutions of higher education will have completed programs with identified marketable skills. (**Marketable Skills**)

- By 2030, undergraduate student loan debt will not exceed 60 percent of first-year wages for graduates of Texas public institutions. (**Student Debt**)

Office of Strategic Initiatives

- Our mission is to transform data into timely and meaningful information to support UT System initiatives and policy decisions and to enhance insight, transparency, and accountability.

- Data Sources
  - Institutional Data
  - IPEDS
  - NSC
  - TWC: State Earnings
  - LEHD: National Earnings
  - BLS
  - Etc…

UT System's Products

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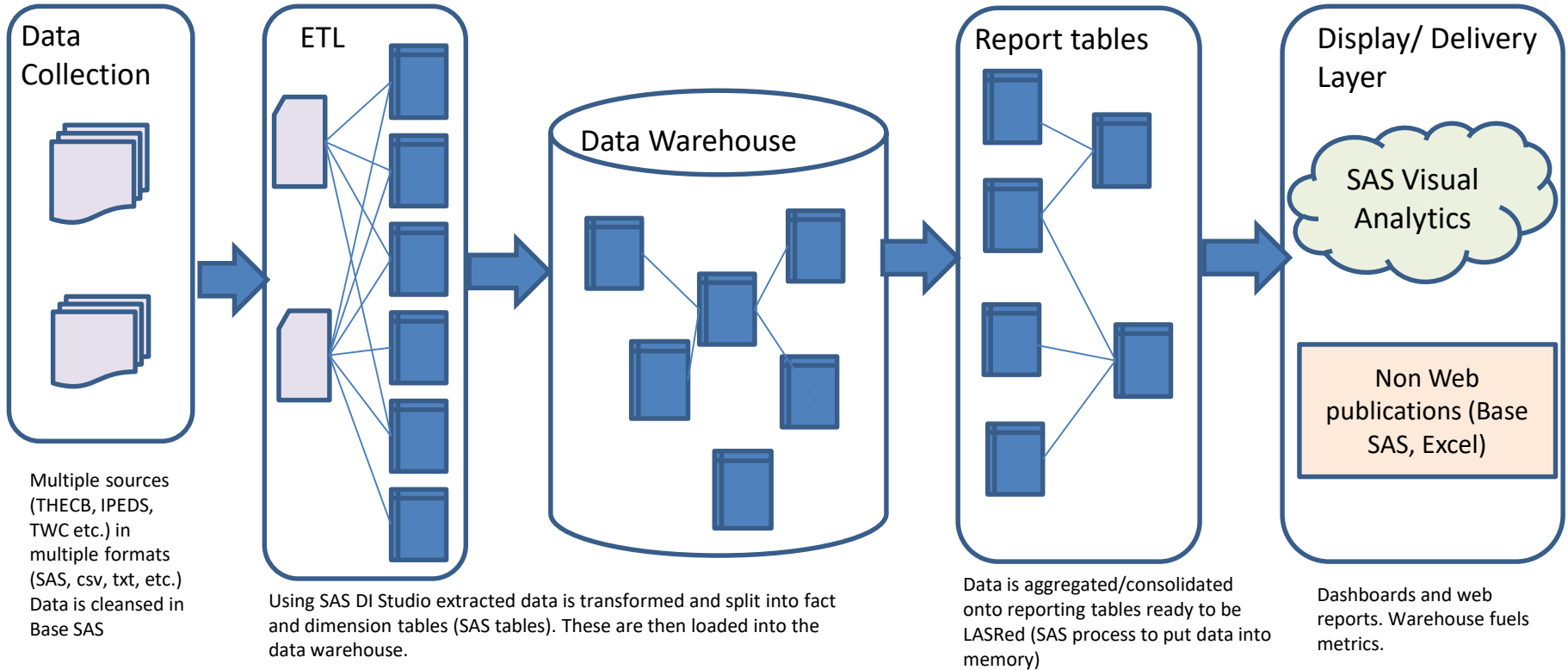# Choosing the Technology

End-User Requirements	Internal Requirements
Public-facing (no log-in)	Data Warehouse integration (BI Tools)
User-friendly	Streamline processes with automation
Ability export	Analyze large datasets
Web-based custom reporting	Conduct robust statistical analysis
Mobile-friendly	Data security/privacy

SAS® Enterprise BI Server

Web-based	Client-based
SAS® BI Dashboard	SAS® Management Console
SAS® Information Delivery Portal	SAS® Add-In for Microsoft Office
SAS® Web Report Studio and Viewer	SAS® Data Integration Studio
SAS® Visual Analytics	SAS® OLAP Server/Cubes
	SAS® Information Map Studio
	SAS® Enterprise Guide

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Data Collection

Multiple sources (THECB, IPEDS, TWC etc.) in multiple formats (SAS, csv, txt, etc.) Data is cleansed in Base SAS

ETL

Using SAS DI Studio extracted data is transformed and split into fact and dimension tables (SAS tables). These are then loaded into the data warehouse.

Data Warehouse

Report tables

Data is aggregated/consolidated onto reporting tables ready to be LASRed (SAS process to put data into memory)

Display/ Delivery Layer

SAS Visual Analytics

Non Web publications (Base SAS, Excel)

Dashboards and web reports. Warehouse fuels metrics.

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How do we strive toward the Texas 60x30 Goals?

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seekUT Helps Students Pursue a Degree

- Program descriptions, basic and specific degree requirements, credit hours needed to earn each degree, and percentage of graduates continuing their education

- Data available for graduate and professional students

- Value of a degree, including ROI for liberal arts degrees (national)

- Importance of completion vs. non-completion

seekUT Enables Better Financial Planning

- Earnings of UT graduates based on program – 1, 5, and 10 years after graduation

- A realistic look at average student loan debt by program, as well as monthly loan payment

- Debt-to-income ratio – understand monthly earnings alongside estimated monthly student loan payment

- Percentage of students who borrowed

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seekUT Enables Better Career Planning

- Projected job growth – identify job openings by occupation (2012-2022)
- Top industries by program and degree level
- What industries are graduates working in? (by major)
- How salaries compare in different states?
- Career opportunities available to UT graduates in-state and nationally
  - What are the degree requirements?
- Graduate school information
- Better salary negotiations and benchmarking through data

UT System's Products

UT System Dashboard

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