Meeting the Challenge:
Cal-PASS

California Partnership for Achieving Student Success

www.calpass.org

Cal-PASS

A Matter of Misalignment

"…the coursework between high school and college is not connected; students graduate from high school under one set of standards and, three months later, are required to meet a whole new set of standards in college."

-Stanford University Bridge Project

http://www.stanford.edu/group/bridgeproject/execsummary.html

What is Cal-PASS?

★ Links primary, secondary and post-secondary institutions on a regional basis

★ Tracks students from one segment to the next

★ Engages faculty across segments in instructional conversations

★ Includes over 400,000,000 records from over 4,000 K-12 schools, community colleges, and universities throughout California

Cal-PASS

Cal-PASS Consortia by County prior to 1998

Cal-PASS Consortia by County as of 2003

Cal-PASS Consortia by County as of January 2005

Cal-PASS Consortia by County as of May 2006

Cal-PASS
California Partnership for Achieving Student Success

GROSSMONT-CUYAMACA
COMMUNITY COLLEGE DISTRICT

Legend

Current Consortia
- Bay Area
- Central Valley
- East Bay
- Los Angeles
- Monterey Bay
- North Bay
- North State
- Orange
- Sacramento
- San Bernardino/Riverside
- San Diego/Imperial
- Santa Barbara/Ventura

Terrence Willett
Director of Research

0   45   90   180   270   360 Miles

Cal-PASS Consortia by County as of April 2007

Cal-PASS Consortia by County as of August 2008

Cal-PASS
California Partnership for Achieving Student Success

GROSSMONT-CUYAMACA
COMMUNITY COLLEGE DISTRICT

Counties shown: Del Norte, Siskiyou, Modoc, Humboldt, Trinity, Shasta, Lassen, Tehama, Plumas, Glenn, Butte, Sierra, Mendocino, Nevada, Colusa, Yuba, Placer, Lake, Sutter, El Dorado, Yolo, Sonoma, Sacramento, Alpine, Napa, Calaveras, Amador, Solano, Tuolumne, Mono, Marin, San Joaquin, San Francisco, Alameda, Stanislaus, Mariposa, San Mateo, Santa Clara, Merced, Madera, Santa Cruz, Fresno, San Benito, Inyo, Monterey, Tulare, Kings, San Luis Obispo, Kern, San Bernardino, Santa Barbara, Ventura, Los Angeles, Orange, Riverside, San Diego, Imperial

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0 25 50   100   150   200 Miles

Shading indicates that at least one school in at least a portion of that county has an active MOU with Cal-PASS. Not all schools in a given county are necessarily participants.

Cal-PASS Member Institutions
October 2009

Cal-PASS
SUCCESS at Every Level

GC GROSSMONT-CUYAMACA
COMMUNITY COLLEGE DISTRICT

Mount Shasta

Arcata

Sacramento

Stockton

San Francisco

Merced

Monterey

Fresno

San Luis Obispo

Bakersfield

Victorville

Santa Barbara

Los Angeles

San Bernardino

San Diego

🏛 Universities

⚑ Community Colleges

⚑ K-12 Schools

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0 25 50   100   150   200
                                          Miles

N
W E
S

Cal-PASS Member Institutions
October 2009

Cal-PASS
Success at Every Level

GROSSMONT-CUYAMACA
COMMUNITY COLLEGE DISTRICT

Mount Shasta

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Stockton

San Francisco

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Fresno

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Bakersfield

Santa Barbara

Victorville

Los Angeles

San Bernardino

San Diego

Student Record Count

- 0 - 3136
- 3137 - 8745
- 8746 - 19484
- 19485 - 43676
- 43677 - 99535

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0 25 50   100   150   200
Miles

Universities (28)

CSU .
- Channel Islands
- Chico
- Dominguez Hills
- Fresno
- Humboldt
- Long Beach
- Los Angeles
- Monterey Bay
- Northridge
- Pomona
- Sacramento
- San Bernardino
- Stanislaus
- San Francisco
- San Jose
- Sonoma

UC .
- Berkeley
- Davis
- Los Angeles
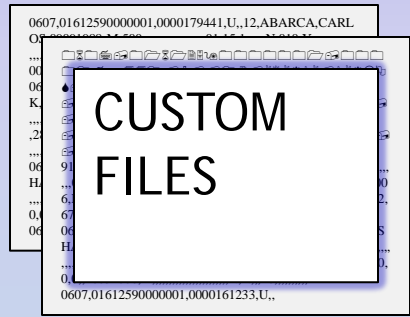- Merced
- Riverside
- San Diego
- Santa Barbara
- Santa Cruz

PRIVATE .
- Otis College of Art and Design
- National University
- Point Loma Nazarene
- University of the Pacific

Cal-PASS

Cal-PASS Unified
Dimensional Data Model
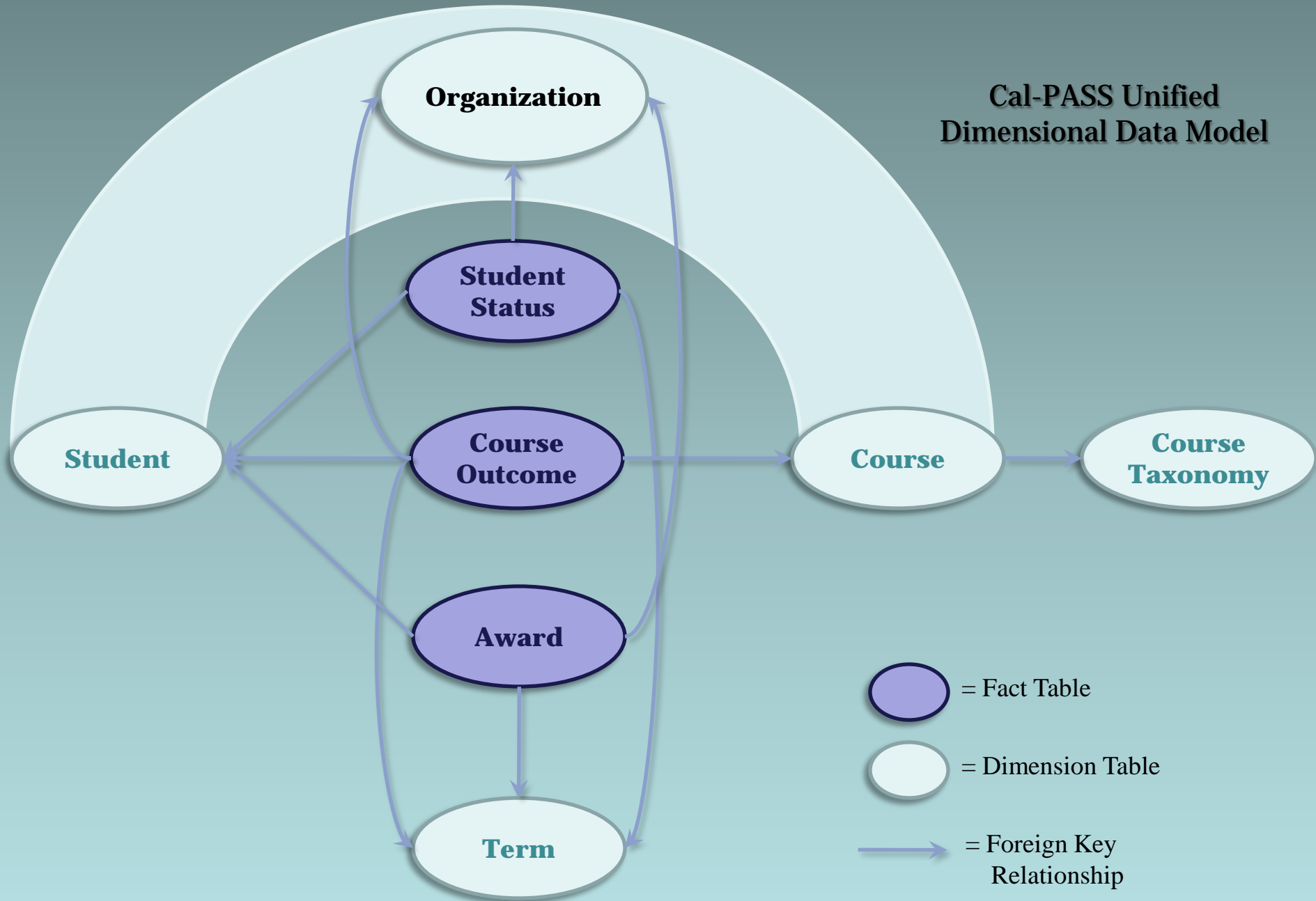
Organization

Student Status

Course Outcome

Award

Student

Course

Course Taxonomy

Term

= Fact Table

= Dimension Table

= Foreign Key
Relationship

Cal-PASS Data Flow

Data Security

FERPA compliant

Data are anonymous – personal identifier information is removed or encrypted

Locally run program encrypts and validates data prior to transmission

Servers in secure, Level IV data center with firewall and controlled access

Security document available at www.calpass.org

Cal-PASS

Professional Learning Councils (PLC's)

★ **Mathematics**

★ **EL**

★ **Science**

★ **English**

★ **Tech Prep**

★ **Counseling**

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Cal-PASS Research

★ Action Research Paradigm

   ★ Faculty, administrators, and local researchers are active participants

   ★ Iterative process to refine analysis

★ Common questions become standard reports or web based queries produced by Cal-PASS staff

★ Locally unique questions handled by local researchers with assistance from Cal-PASS staff

Current Projects

- ★ EDD Data Linking
- ★ CTE Transfer
- ★ Foster Youth
- ★ Middle School to College Report
- ★ LA County Data Linking

Cal-PASS

Changing the Paradigm: OLAP Applications

★ OLAP = On-Line Analytical Processing

★ Like Excel pivot tables

★ Stores pre-computed aggregations of data with B-Tree indexing for delivering fast retrieval times and fast calculation

★ Enables users to perform analysis of data quickly with drag-and-drop manipulation of variables and dynamic visualization

★ Web-based for easy access – all processing is performed on the server so it does not tie up your work station (zero footprint)

Cal-PASS

3 Layers of the Application

User Interface - Dundas

↕ MDX

OLAP Cube - SSAS

↕ SQL

Database(s) – SQL Server

Cal-PASS

Development Tools

.NET

SQL Server

    – Storage

    – Integration Services

    – Analysis Services

BIDS

Dundas

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