





### TCNJ PROJECT TEAM

Lloyd Ricketts
Treasurer
Executive Sponsor

Tom Hammar Finance & Bus Service PBCS Lead

Allison Lengyen
T

Project Manager

SME's and Budget Preparers

Frank Cooper Records & Registration Core Team

Heather
Boccanfuso
Facilities
Core Team

Joe O'Brien
IT
Core Team

Jim Mehalick
Ctr for Inst Effect
Core Team

Mark Mehler Student Affairs Core Team

Norma Garza

Academic Affairs

Core Team

Marie Tuscano
Ctr for Inst Effect
Core Team

### **HURON PROJECT TEAM**

Ida Quamina

Engagement Lead/QA

- Responsible for overall delivery and quality assurance of the project
- Key project representative on Steering Committee
- · Develop the vision of the solution with client

- Oversees project management and coordination across all stakeholders and work streams
- Manage project plans and decision logs
- Provide status reporting and budget tracking

Maria Myers
Engagement Lead

Karen Newton
Design/Build Lead

- Lead requirements and design sessions
- Responsible for solution design, architecture and functionality
- Develop integration strategies
- Responsible for managing the build, testing, and deployment of the solution
- Oversee/provide training and documentation

Gursharan Gill Developer

Chelsea Tistle
Developer

- Assist with discovery and design sessions
- Responsible for constructing of the solution
- Responsible for day-to-day solution configuration, calculation logic, and report development and unit testing
- · Assist with validation of output data
- Provide end-user training materials and system documentation
- Provide Documentation and Knowledge Transfer

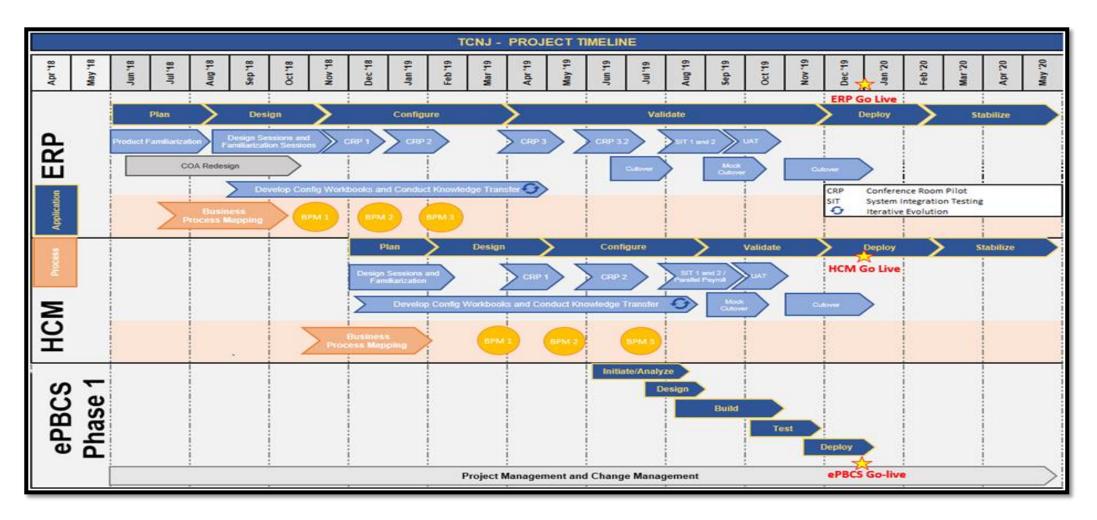


### PROJECT

Overview

Implement an interactive, flexible, online budget and reporting system for the College that will facilitate a collaborative, streamlined, budget, planning and forecasting process that complements an enhanced transparent datadriven decision making.

# ORACLE CLOUD PROJECT TIMELINE



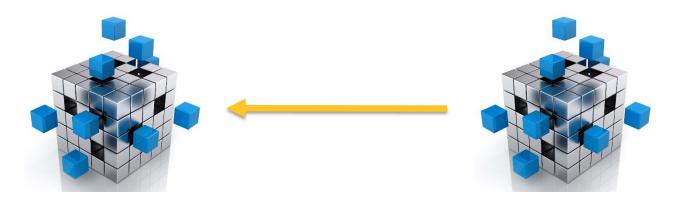
### PROJECT TIMELINE





What is ePBCS	The Benefits	
Purpose built cloud based enterprise planning tool	Single source of all budget and planning data (revenue and expenses)	Shifts end users' time from collecting to analyzing
<ul> <li>Built on a multi- dimensional OLAP database engine (Essbase)</li> </ul>	Ensures data is complete and accurate through the use of standardized calculations and validation rules	Ability for end users to conduct their own analysis (ad-hoc, standard and visual reporting)
<ul> <li>Includes (but not limited to):</li> <li>Forms / Dashboards</li> <li>Calculations</li> <li>Navigation Flows</li> <li>Approvals / Workflow</li> <li>Reporting</li> <li>Ad Hoc Analysis</li> <li>Security</li> </ul>	Ability to create repeatable and maintainable import processes for source data used in the budgeting and planning process (Financials, Student, HR)	Ability to create various scenarios and models based on trends and changes in driving factors (i.e. Enrollment Modeling)
	Ability to roll up and drill down to different levels of information (College, Department, Fund, Account)	Create multi-year plans and forecasts that provide the ability to make proactive decisions
	Ability to aggregate budget information quickly and easily	Conduct more frequent budget to actual variance analysis

### APPLICATION STRUCTURE



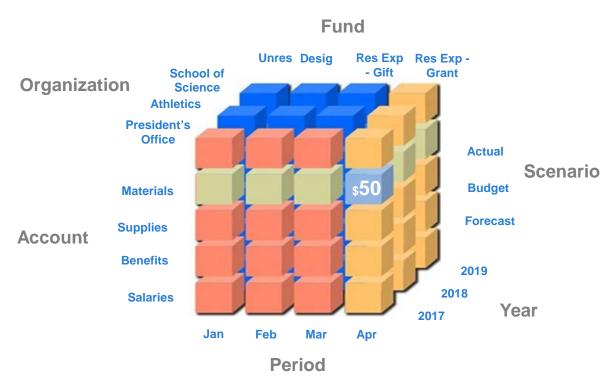
#### **Operational Budgeting**

- Provides a single source of budget data
- Provides templates for units and faculties to input budgets
- Aggregate budget data
- Provide budget to actuals variance reporting
- Create Income Statement statements

#### **Position Budgeting**

- Provides the ability to budget by positions
- Provides templates to estimate and calculate changes to position compensation

### DIMENSIONS



- Essbase databases are structured by dimensions
- A dimension is a way to describe data, referred to as 'metadata'
- Every dimension is made of members grouped into hierarchies
- Each dimension member 'intersects' with every other dimension's members in the database (think of a cube). There is no concept of 'valid intersections'
- Data is stored at unique intersections of all dimensions.
- A member from every dimension must be present when entering/retrieving data
  - Data Entry Forms
  - Financial Reports
  - Ad-Hoc Data Analysis (Smart View)
  - Calculations
- More dimensions exponentially increases the database size!



# e P B C S T O O L K I T

- No pre-delivered content
- Collection of tools used to create an application based on the College's dimensionality and business needs

### DIMENSIONS

- There are dimension requirements:
  - Account
  - Entity
  - Period
  - Year
  - Scenario
  - Version
- Each input database must have at least the above dimensions included in its outline.
- Dimensions beyond these are 'User Defined Dimensions' (i.e., Fund and Program). Planning can handle a total of 20 dimensions (incl. 6 required)...Please don't plan for 20!
- 'User Defined Dimensions' for TCNJ will likely follow the new COA (Account, Entity, Fund, Organization, Category, Program, Activity, Location).
- Dimensions are the core of ePBCS.

### **FORMS**

<u>Purpose</u>: A formatted, purpose built database 'view' for inputting or reviewing data. Structured similar to an Excel 'grid' view (rows, columns, page drop-down menus). Represents the main way in which users work with the tool

**Replaces**: Previous systems input/output screens

- Data input (lots of features)
- Data analysis (even more features, can be used as mock reporting)
- Workspace dashboards (combined input with immediate analysis)
- Execute Calculations
- Can be opened in Workspace and Excel

### BUSINESS RULES & CALCULATIONS

<u>Purpose</u>: Used to execute purpose built calculations and processes via commands. Can be extremely specific or have a broader purpose

**Replaces**: Specific data processes executed in previous systems by users or administrators. Replaces spreadsheet calculations

- Data input validation (prevent human errors)
- Calculation of output (inputs drive outputs)
- Administrative tasks
- Data auditing
- Data management (maintaining data sets, scenarios/versions)

### NAVIGATION FLOWS

<u>Purpose</u>: Used to guide users through any process which needs to be done in ePBCS, with specific functionality associated to each step. Can have a Navigation Flow for one user, or for many users

**Replaces**: 'To Do' lists, a process in someone's head, process flows

- Administrative steps for managing ePBCS
- User steps for entering budgets, forecasts, performing analysis, etc.
- Very specific planning processes for isolated user groups

### WORKFLOW & APPROVALS

<u>Purpose</u>: Used to submit budgets/forecasts through a formal approvals process based on a pre-determined chain of 'supervisor' approvals

**Replaces**: Existing process of department level budget spending approval

**Scope of Use**: Generally has a specific scope of use:

- Uses definitions of 'Planning Units' to specify what needs approval. Planning units are defined by the Entity dimension and can also include another dimension (e.g.. Entity#1 and Product A require separate approval from Entity #1 and Product B)
- Users complete plans and submit for approval. Designated approval users can approve and pass up the chain, or reject and send back

# FINANCIAL REPORTING (FR)

**Purpose**: Used for purpose built formal reporting using any data in the database

**Replaces**: Existing report templates, Excel spreadsheets, third party data warehouse / query builders

- Formal, template based reporting
- Graphing / Dashboards
- Data Validation
- Creating 'Budget Books'
- Create reporting batches on a schedule
- Can be opened in PDF, Smart View (Excel)

### **SMARTVIEW**

<u>Purpose</u>: Used to access ePBCS functionality and data from Microsoft Office tools, including Excel, Word, PowerPoint, Outlook

**Replaces**: Query tools, query writers, spreadsheet models, hard coded values in presentations

**Scope of Use**: Lots of flexibility in use:

- Access and run your ePBCS functionality from Excel:
  - Forms
  - Calculations
  - Reports
- Used to perform ad hoc analysis of live database data
- Build presentations/documents which reference certain KPIs which are actually live links to the database.

### SECURITY

<u>Purpose</u>: Used to apply security to objects (forms, reports, navigation flows, etc.), data (accounts, entities, etc.) and out of box functionality (user type, admin vs. view user)

**Replaces**: Password protected spreadsheets, folders, existing security setup

#### Scope of Use:

- Uses a finite number of 'provisioning' roles which assigns high level interface functionality to users. Assign specific user groups to objects such as forms, reports and navigation flows
- Limit access to data by applying security to the Dimensions and Members

### DATA INTEGRATION

<u>Purpose</u>: Used to load data originating in other source systems into ePBCS. Also used to extract data from ePBCS. Uses flat files and can be automated through the use of APIs and scripts

**Replaces**: Previously used ETL processes, the need to constantly 'merge' actuals with planning analysis/reporting

#### Scope of Use:

- Load ERP 'Actuals' data into ePBCS
- Load data from other source systems such as HR and Student in ePBCS
- Creates budget data exports for Financial system

## ePBCS DEMO



### Vision

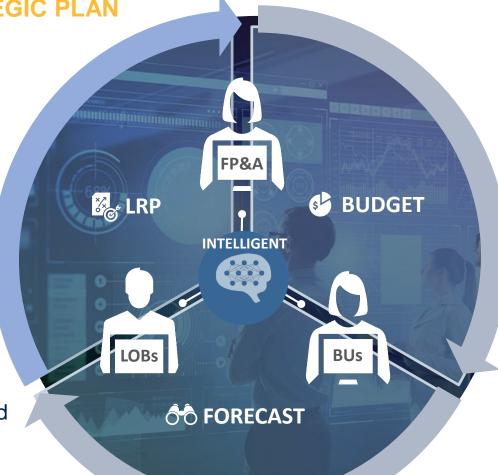
Drive accurate and agile plans across finance and lines of business, analyze data across the institution, and improve data-driven decision-making.



# Oracle Intelligent Connected Planning

#### **LONG-RANGE / STRATEGIC PLAN**

- Top-down, driver-based
- Modeling for risks, Funding, and strategic initiatives
- Combine multiple scenarios
- Define targets for budget & forecast



#### **BUDGET**

- Bottom-up, driver-based
- Position Budgeting
- OpEx, Capital, Projects, etc.
- Management Allocations

#### **FORECAST**

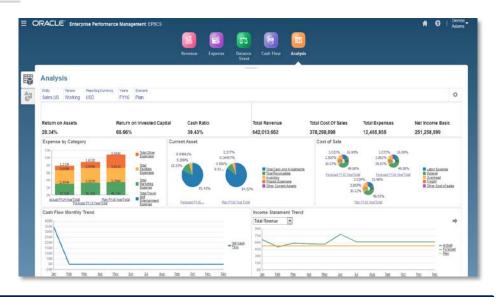
- Bottom-up, driver-based
- Rolling forecasts & predictive planning
- Forecast connected to LRP for iterating through new plan assumptions



# Best Practice Planning Out-of-the-Box

#### **Enterprise Planning Cloud**

- Configurable, Integrated, Automatically upgraded
- Driver-based Planning (e.g. enrollment, credit hours, FTEs, square feet, etc.)
- Connect Financial & Operational Planning









### REQUIRMENTS GATHERING

#### THE PROCESS

The purpose of these sessions is to generate requirements for the Planning & Budgeting Cloud Services technology solution to be implemented to support the university's budgeting processes.



- All funds revenue and expense budgeting
- Position budgeting
- Forecasting and variance analysis
- Multi-year planning

#### WHAT TO BRING

Any tools (spreadsheets, reports, etc.) which are currently used to support your budget process

#### WHAT TO EXPECT

60-90 Minute Sessions

- Review and Discuss the Current Budgeting Process
- Discuss Challenges and Pain Points
- Discuss the Desired Future State

### REQUIREMENTS

SESSIONS

- Come prepared for detail discussion
  - Sessions are discussion based, not PowerPoint led
- Provide examples
  - Reporting

Shadow Systems/Other Files (Excel, etc.)





