



The “Berkeley Miracle:” Maintaining Quality With Fewer Resources

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Associate Vice Chancellor-IT and CIO

Agenda



Overall Context for the Operational Excellence Initiative

- Leadership Support
- Funding Model
- Multi-Dimensional Approach

Campus Shared Services

- Campus Shared Services IT

Results to Date/Lessons Learned

A Business Case for Change



Financial realities require changes to:

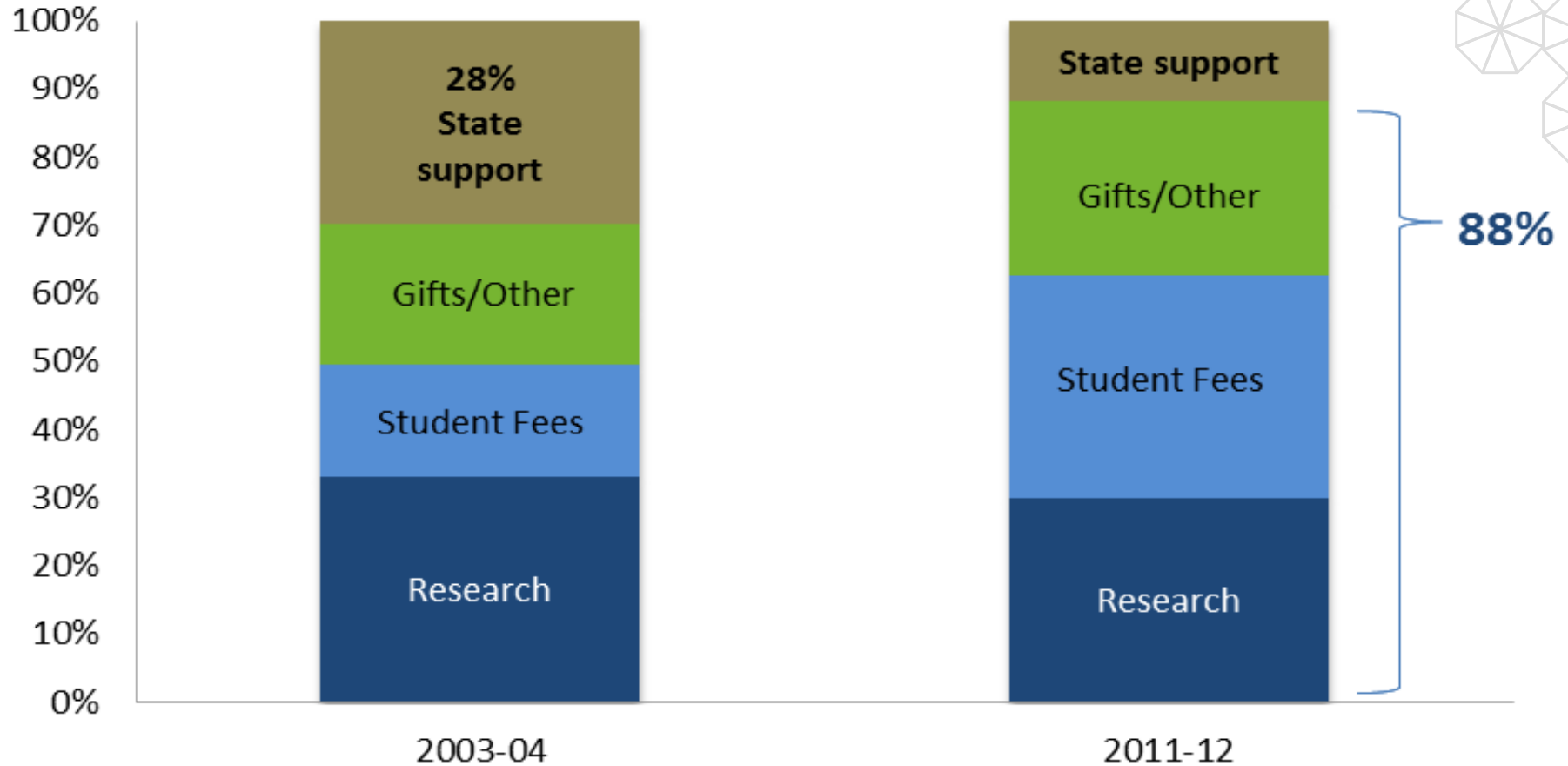
- Contribute to long-term financial sustainability.
- Maintain accessibility of this world class institution.
- Create incentives that foster progress in alignment with strategic objectives.

Room for improvement in operational effectiveness:

- Duplicative, fragmented, and overly complex operations.
- Expensive, manually intensive processes.
- Error-prone data and information.

Change in Revenue Sources

2004 to 2012



Diagnostic Phase

Setup

Scope	<p>Deep, systematic look to significantly reduce expenses.</p> <ul style="list-style-type: none">• <i>In scope</i>: Campus operations, processes, and systems.• <i>Not in scope</i>: Teaching and research.
Governance	<p>Chancellor Birgeneau formed <i>and led</i> Steering Committee.</p>
Methodology	<p>Collaborated with Bain Consulting to assess key operational areas, evaluated benchmarks from a broad range of public and private institutions, and recommended areas with the greatest potential for savings and improved service delivery.</p>
Campus Involvement	<p>700 faculty, administrators, staff, and students across the campus involved through in-person meetings and online surveys.</p>

Diagnostic Phase

Outcomes

Findings	<ul style="list-style-type: none">• Potential savings of >\$100M from operations cost base.• Opportunities for improvements in operational effectiveness.
Plan of Action	<ul style="list-style-type: none">• Chancellor launched effort to capture \$75M in administrative costs and improve upon administrative operations.
Opportunity Areas	<ul style="list-style-type: none">• Five areas enable delivery of more consistent, sustainable service levels at dramatically lower cost:<ol style="list-style-type: none">1. Procurement2. Organizational Simplification3. Information Technology4. Energy Management5. Student Services• Design of a modern financial management system to ensure more effective management of financial resources:<ol style="list-style-type: none">1. Commitment to a high-performance operating culture.2. Redesign of a disciplined financial management model to ensure more effective management of financial resources.

OE Implementation Phase

Multi-Dimensional

Initiative	Benefit
IT Productivity Suite	Enhancing collaboration between faculty, staff, and students by offering access to standardized, best-in-class IT tools from Google, Microsoft, and Adobe.
CalPlanning	Enabling units to submit department-level operating budgets, enabling richer budget discussions by campus leaders and strategic prioritization.
Unit Restructuring (spans and layers)	Streamlining the campus organization, unit by unit, to create a flatter, more effective organizational structure with well-defined roles and career paths for individual contributors and supervisors, and increasing span of managerial control.
Procure-to-Pay Reporting	Improving procurement and payment processing, compliance, vendor relationships and vendor diversity.
Campus Shared Services	Providing consistent, high-quality tier 1 support for new campus applications (e.g., BearBuy, bConnected, CalPlanning).
Energy Management Program	Showing reductions in electricity consumption.
Cal Student Central	Providing a one-stop source of information and assistance for student business transactions.

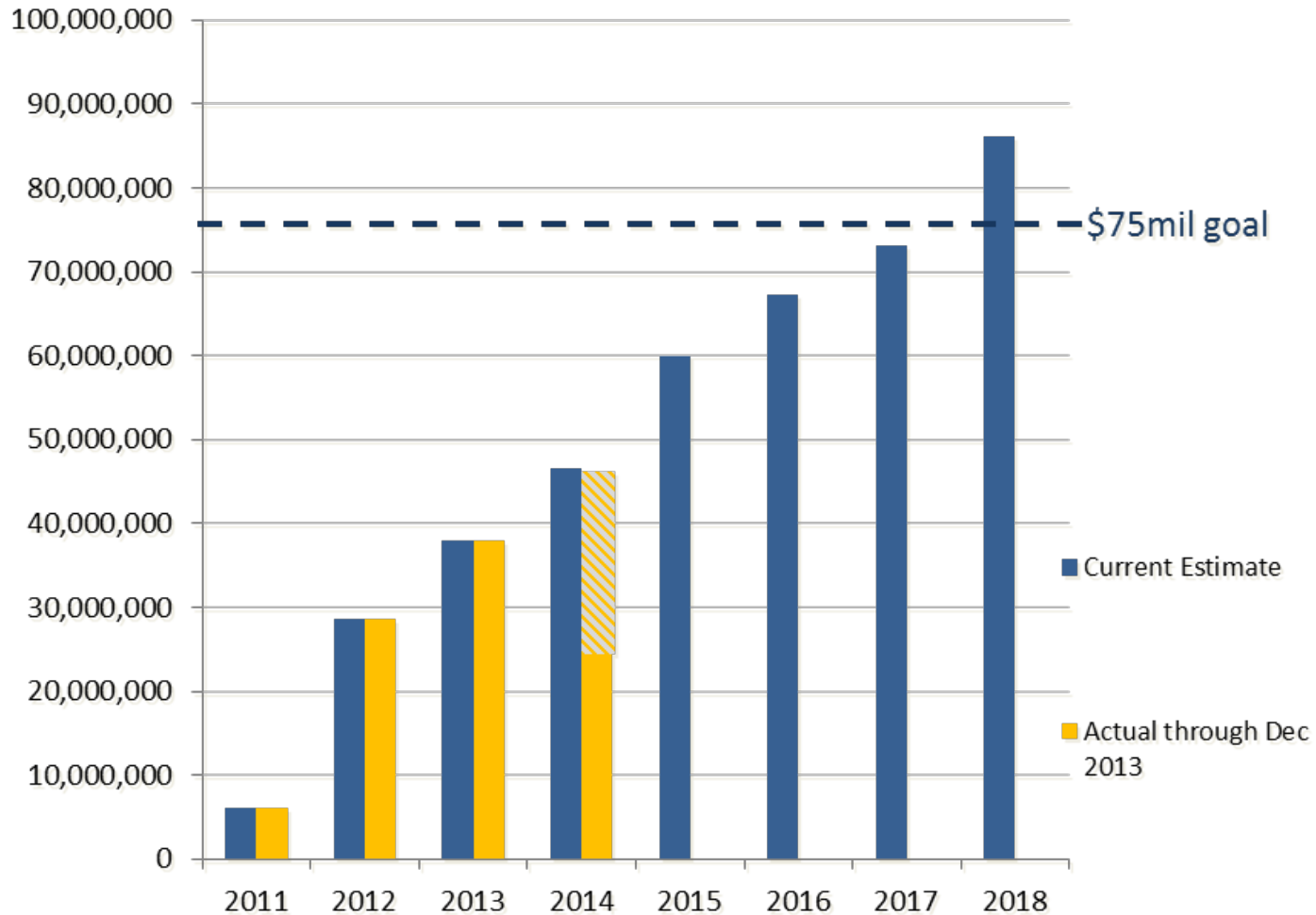
OE Implementation Phase

Multi-Dimensional

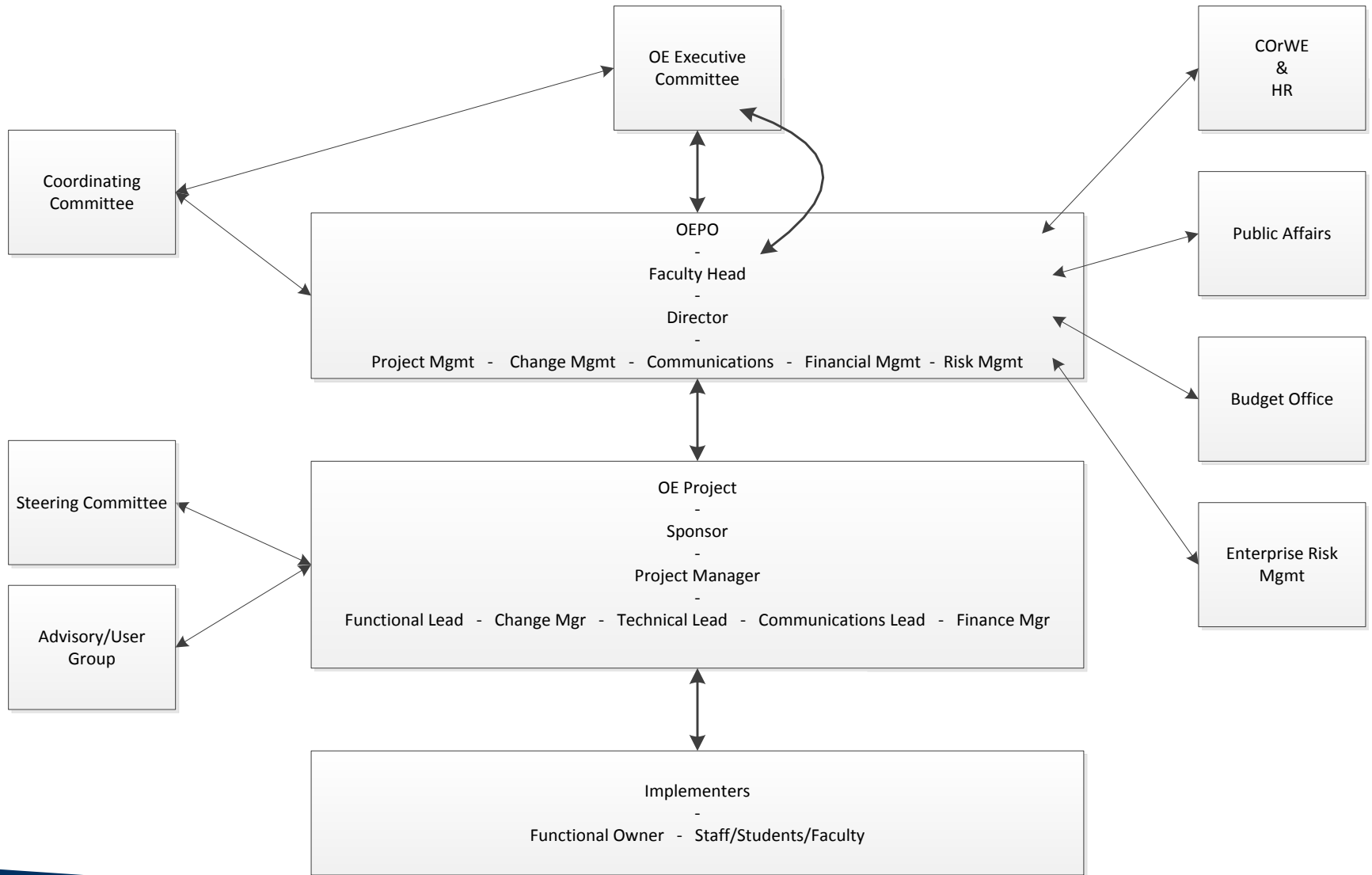
Initiative	Benefit
Campus Shared Services	Performing post-service delivery reviews. Incorporates feedback to improve operations and customer service.
BearBuy	Leveraging purchasing data to negotiate improved contractual terms.
Energy Management Program	Encouraging friendly competitions between units to continue to find new ways to reduce energy consumption leading to increased savings and reduced greenhouse gas emissions.
Berkeley Operating Principles	Inviting the campus community to publically post examples which demonstrate the operating principles in action, inspiring other members of campus to incorporate these principles into our work environment.
OE Program Office	Building a community of practice of project management professionals who share new knowledge, lessons learned, and effective approaches.
OE Executive Committee	Leveraging campus strategic goals and information on OE projects (e.g., financials, successes, obstacles) to make better informed decisions.

OE Implementation Phase

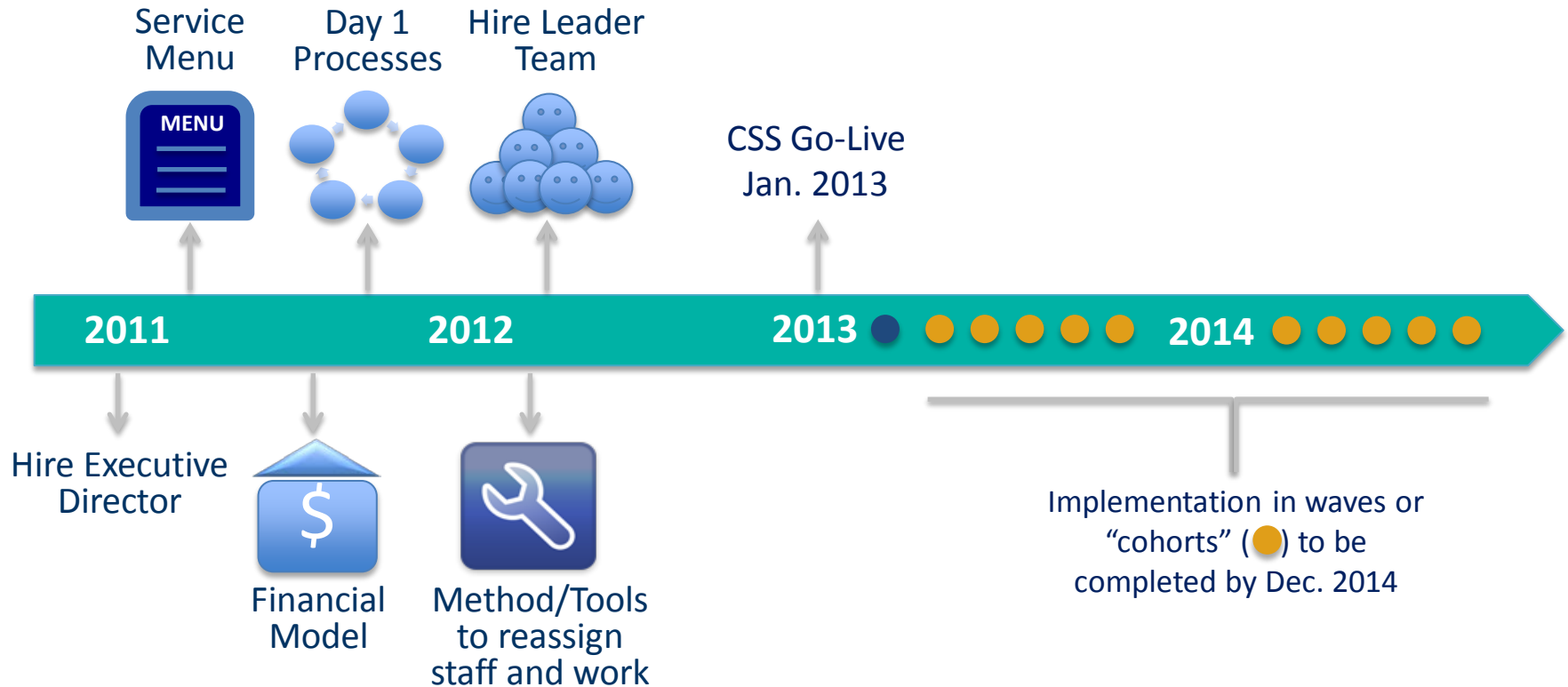
OE Portfolio Savings



OE Project Organizational Structure



CSS Timeline & Implementation



CSS Snapshot

BUSINESS AND FINANCIAL
SERVICES

HR AND ACADEMIC
PERSONNEL SUPPORT

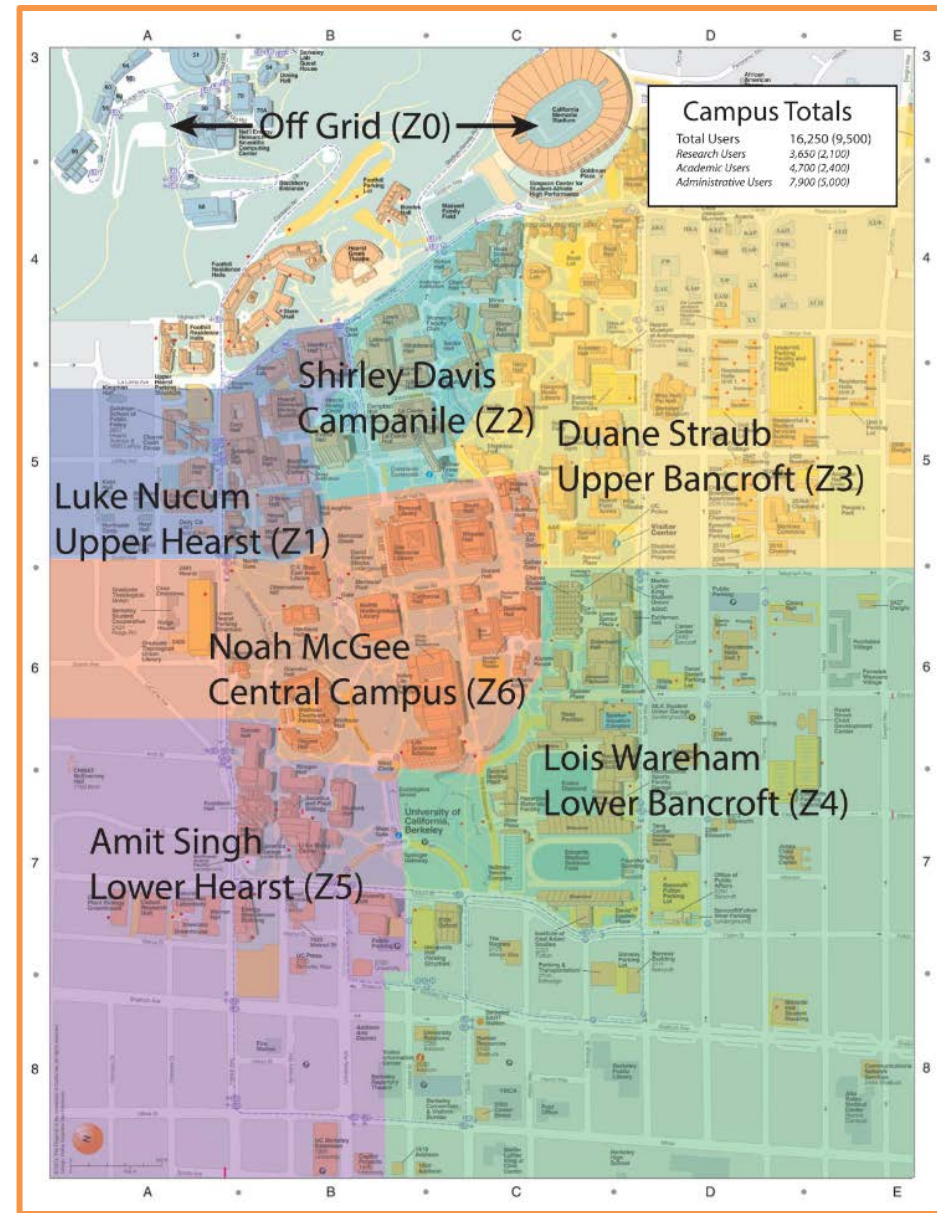
INFORMATION TECHNOLOGY

RESEARCH ADMINISTRATION

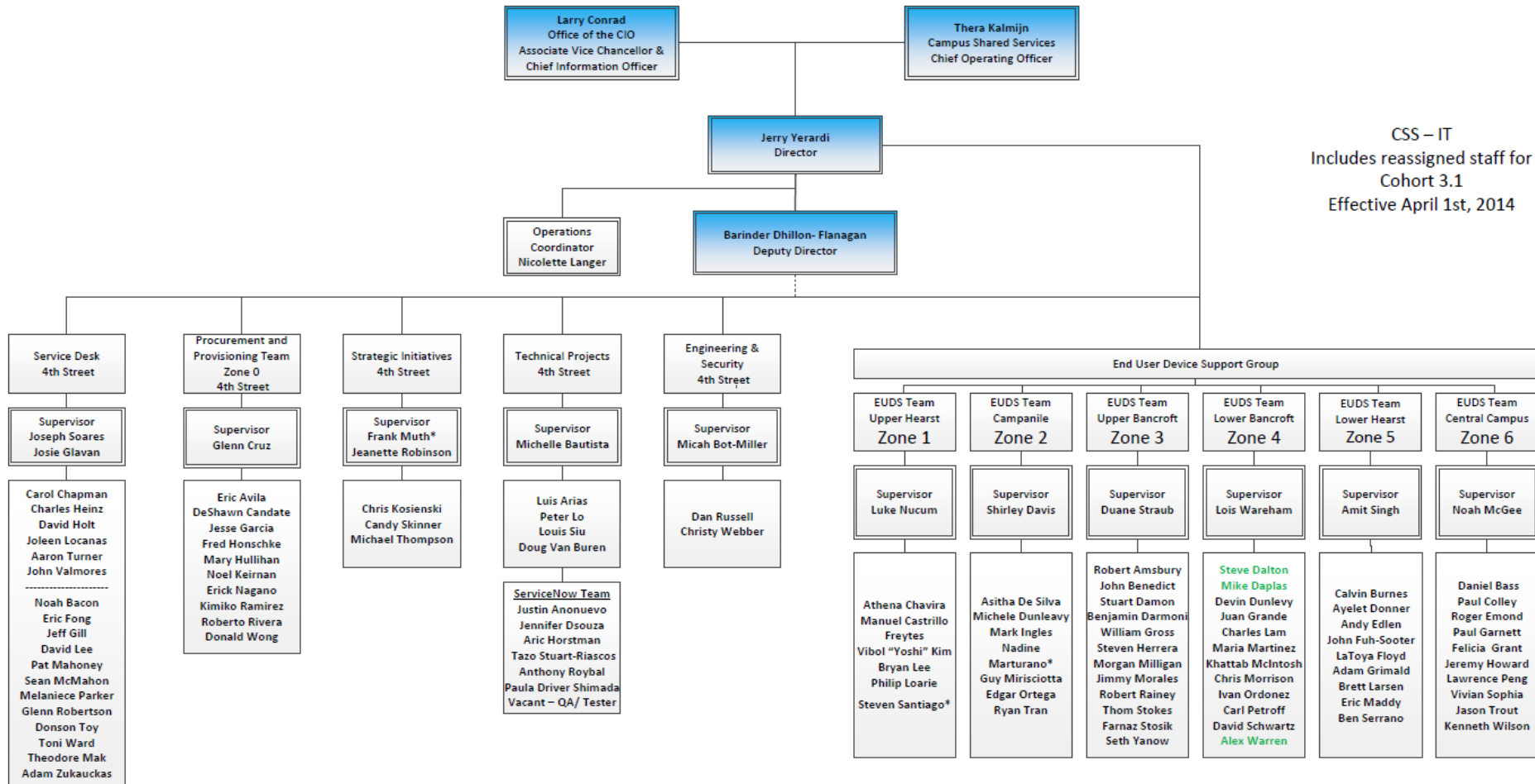
- Organization has grown to 620 staff members across IT, Business and Financial Services, HR, and Research Administration.
- Now serves ~70% (over 17,500) of UC Berkeley's faculty, staff, student employees, and affiliates.
- CSS IT:
 - Has 114 staff members serving the campus.
 - Supported a total of **65,961** tickets from Jan. 2013 to March 2014 (an average of 32 tickets per business hour).
- CSS places a focus on staff diversity.
- Off campus central offices with 7 on-campus satellite locations.

CSS IT – Zone Map

- Off Grid
- Upper Hearst
- Campanile
- Upper Bancroft
- Lower Bancroft
- Lower Hearst
- Central Campus

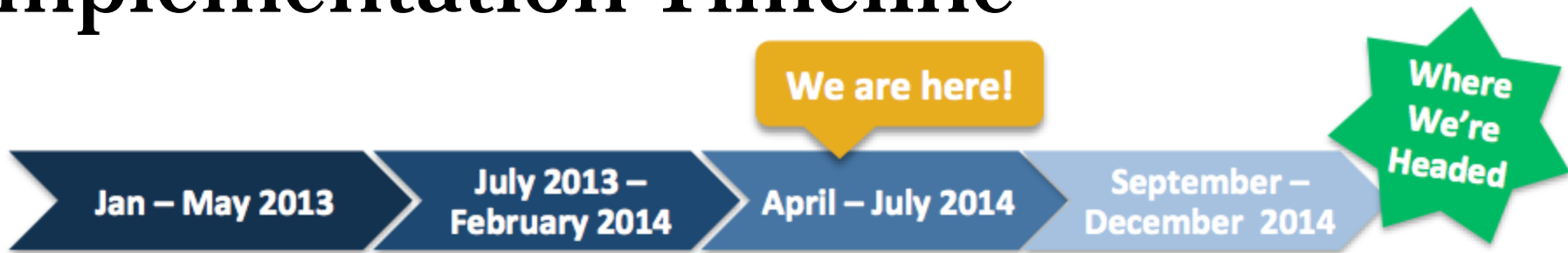


CSS IT – Organizational Chart



CSS – IT
Includes reassigned staff for
Cohort 3.1
Effective April 1st, 2014

Implementation Timeline



Cohort 1

- AVC, IST
- Chancellor's Office
- CITRIS
- COENG Engineering (ERSO)
- College of Letters and Sciences, Division of Biological Sciences
- College of Environmental Design
- College of Natural Resources
- Environmental, Health & Safety
- Intercollegiate Athletics
- School of Journalism
- School of Social Welfare
- University Health Services
- VC, Administration & Finance
- VC, Research and RES

Cohort 2

- Academic Senate
- Blum Center
- College of Engineering
- College of Letters and Sciences (select Math & Physical Science, Social Science units)
- Executive Vice Chancellor & Provost
- Goldman School of Public Policy
- Haas (T&E Purchasing)
- L&S Computer Resource Users (IT)
- School of Public Health
- Summer, Study Abroad & Lifelong Learning (HR)
- VC, Student Affairs
- Vice Provost for Faculty

Cohort 3

- Art, Music & Pacific Film Archive
- Athletic Study Center
- College of Chemistry
- Education Technology Services
- Graduate Division
- Graduate School of Education
- KALX Radio Station
- Student Learning Center
- VC, Equity and Inclusion
- VC, Facilities Services

Cohort 4

- Berkeley Law
- Cal Performances
- College of Letters & Science, Deans Office
- College of Letters and Sciences (select Arts & Humanities, Math & Physical Science, Social Science units)
- College of Letters and Science, Undergraduate Division
- Haas School of Business
- Osher Lifelong Learning Institute
- School of Information
- Summer Sessions
- Study Abroad
- School of Optometry
- UC Library
- University Extension
- VC, University Relations

CSS IT – Tools & Technology

Tool/Technology	Benefit
Bomgar	Remote support solution that allows technicians to remotely connect to end-user systems.
Avaya ACD	Automated Call Distribution tool that manages in and outbound phone calls and voicemails.
Helpdesk Institute (HDI) Customer Satisfaction Surveys	Tool for gathering customer experiences and feedback upon completion of services provided.
Tivoli Endpoint Management (TEM)	IT Asset Management tool enabling remote management and automatic delivery of software updates.
Incident Management Tools	System used to manage the documentation and response of customer reported incidents or issues.
Salesforce	Client Relationship Management
Confluence Wiki	Web application which allows internal team members to share information in collaboration with others.
Knowledge Base	Technology used to store and share structured, consistent and accurate information across internal staff and external customers.

CSS IT – The Berkeley Desktop

The Berkeley (Managed) Desktop

- Provides a reliable, secure, and integrated computing environment that reduces the amount of time faculty and staff spend maintaining their computers.
- A standard environment combined with automated maintenance means you see fewer problems and are able to get help faster.
- List of models that have been tested and optimized to work with the Berkeley Desktop.
 - Dell OptiPlex 390, 3010, 3020, 760, 780, 790, 960, 980, 990, 9010, 9020
 - Dell Latitude E6220, E6230, E6410, E6420, E6430, 6430U, E7240, E7440

Non-Berkeley (Non-Managed) Desktops

- Higher costs.
- Higher risk of compromise.
- Less opportunities to receive remote desktop support.
- Longer to research/troubleshoot/resolve problems—greater downtime for customers.
- May not be compatible with enterprise applications.

CSS IT – Services

- Desktop Hardware Support
- Desktop Software Support
- Application Support
- Device Procurement
- Desktop Engineering & Security
- Incident Management
- Service Desk
- Infrastructure Support
- Technical Projects
- Strategic Initiatives
(On-Boarding Team)
- Some Research Lab
Equipment Support

CSS IT – Service Gaps

Active Directory

- Not everyone is on the campus domain and some departments are on their own domain or only have local workstations.
- Departments may not have a back-up for a system administrator or lack a support community.
- Departments may need an OU to be created on the campus domain.

Applications

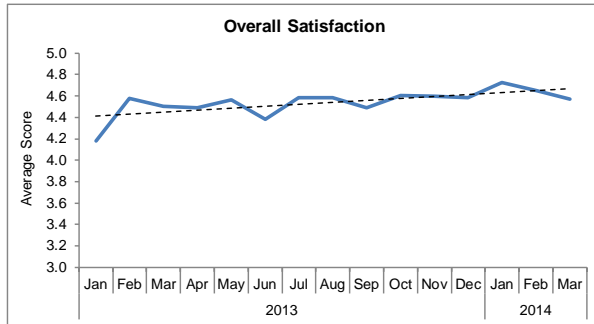
- Does a service partner exist?
- Only a limited group of people know how to setup specialized configurations.
- Are standardized procedures in place to handle applications?
- Patching, licensing, and security.

Database

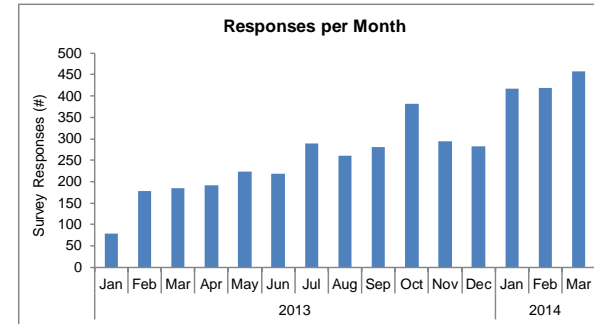
- Expertise of DBA not funded and left to unqualified staff.
- Data classification.
- Many different tools used (i.e., MS Access, Filemaker, MySQL, etc.) which makes maintenance and scale difficult.

Metrics: IT Customer Satisfaction

1. Average Overall Satisfaction

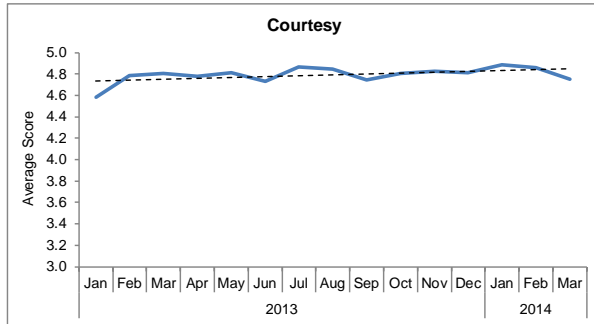


2. Survey Responses by Month

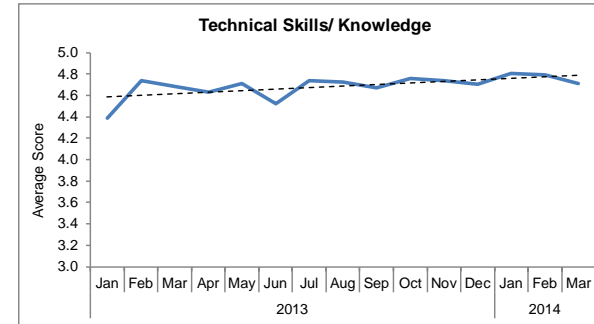


3. Scores by Question (1-4)

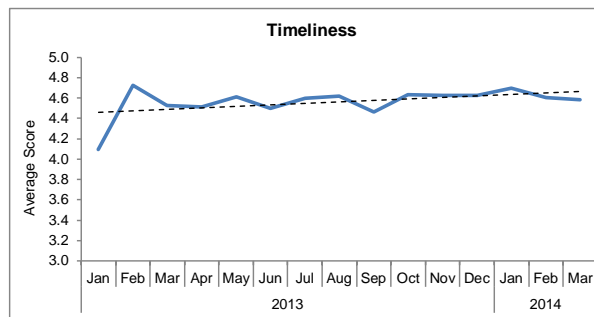
Q1 - Courtesy of Analyst



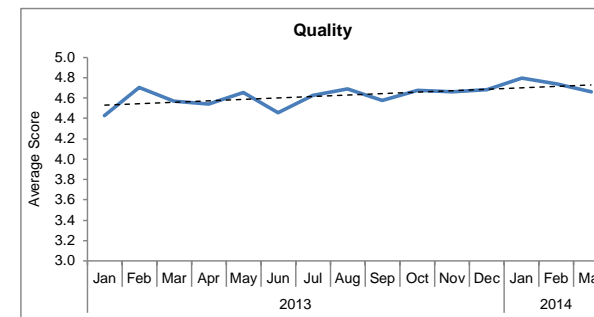
Q2 - Technical Skills of the Analyst (Avg)



Q3 - Timeliness of Service Provided (Avg)



Q4 - Quality of Service Provided (Avg)



Metrics are based on the Help Desk Institute metrics for higher education.

CSS IT Successes



CSS IT Challenges



Lessons Learned

- Leadership must be fully and visibly engaged in the program.
- The cooperation/collaboration of both sides of the house – administration **and** academic – is critical.
- Co-create to drive better outcomes and deepen commitment.
- Deploying new technology is **not** success.
- Changing mindsets and behaviors in order to realize the full potential of new technology **is** success.
- Changing behavior takes **time and effort**.
- Leverage the strengths of the organization to achieve behavior changes (strong culture, clear mission, committed workforce) .
- Change risks are predictable yet different in every case – customize the change plan.

Lessons Learned

Continued

- Project management must be coupled with change management in order to achieve desired results.
- Face-to-face communications is the most effective form.
- Feedback loops must be built into every phase of the program and the projects.
- Iterative and incremental development approach works best.
- Program management oversight provides consistency, rigor, view to the big picture, momentum.
- The results of OE must be realized in the units for OE to be successful.
- Business process management must shift to the horizontal flow of work rather than vertical hierarchies.

My Thanks to...

Thera Kalmijn, COO, Campus Shared Services

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Ben Gold, Manager, IT Services Communications



Questions?