## Integrated Academic, Financial, Strategic and Facility Planning at Stanford University



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## **Session Overview**

- Lessons Learned to Date from Stanford's efforts to link academic, financial, strategic and facility planning
  - University wide space planning guidelines
  - Space utilization studies
- A brief look at three cases using space guidelines and utilization studies
  - School of Education
  - School of Earth Sciences
  - Business Affairs Division
- An in-depth look at one case using a whole cost approach
  - School of Humanities and Sciences
- Questions and answers

## **Lessons Learned To Date**

#### What We'll Cover

- How we developed space planning guidelines
- Our goals in the process
- Stanford's general context as related to the guidelines
- How the guidelines turned out
- Questions/Food for thought

#### Our Goals in the Process

- To develop guidelines, not standards
- To promote key goals: Equity -Consistency -Efficiency -Flexibility
- To keep the guidelines simple, practical, not overly formulaic, and focused on generic spaces
- To apply the guidelines both in new construction and renovation projects
- To learn from what has been successful already
- To continually update and improve the guidelines

- Stanford's General Context
  - 15 million gross square feet
  - Growth constrained by a General Use Permit (2 million GSF allowed, numerous conditions of approval)
  - Tight budget climate high aspirations and lagging fundraising



- How the Guidelines Turned Out
  - Offices:

Dean/VP Full-time faculty Visiting scholars, visiting faculty, and research associates Emeritus faculty Staff Students

- Classrooms, Computer Clusters, Conference Rooms
- Research and Laboratory Space

Space Guidelines: http://cpm.stanford.edu/DCP\_ArtSpaceGuidelines.pdf

#### **Diagram of Faculty Office**



#### **Diagram of Cubicle Environment**



- Questions/Food for Thought
  - How to provide incentives for following the guidelines?
  - What to do in cases of "non compliance"?
  - How to develop laboratory planning guidelines?
  - How to continue to institutionalize the guidelines?

Goals
Process
Questions/Food for Thought

#### ➤ Goals

- To determine how space is actually being used
- To enter utilization information into database, to be actively used by schools/areas in managing space
- To assess alignment with space planning guidelines
- To work with school/areas to improve utilization

#### Process

- Straightforward walk-throughs of areas, taking notes on floor plans
- Entry of data into University-wide database, tailored to school needs
- Communication about results, questions, strategies, next steps



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#### Questions/Food for Thought

- Time-consuming and data intensive process how to streamline?
- How to keep the studies updated?
- Value/utility of the process

- Three quite different kinds of schools/areas
  - School of Education
  - School of Earth Sciences
  - Business Affairs
- All were willing partners
- Each found surprising results
- Each has pursued changes as a result of findings

#### **School of Education**

- Context:
  - Two buildings and one modular
  - 65,280 nasf, 46 faculty and about 380 graduate students
  - Mostly an office-based program
  - Study initiated at Provost's request

#### • Major Findings:

- Faculty office sizes were often too large, plus faculty have a custom of "handing down" offices
- Storage is a school-wide issue, and there is no storage policy
- Research projects ebb and flow, but are allowed to customize space so that flexibility is lost



#### Changes since the study:

- Dean has taken over determination of who gets which faculty office – oversized offices are being held as retirements occur
- Other changes TBD

#### **School of Earth Sciences**

- Context:
  - Three buildings
  - 117,681 nasf
  - 46 faculty, 120 undergraduates and 280 graduate students
  - Offices and labs
  - New Dean worried about shortage of space requested the study

### Three Stanford Cases: School of Earth Sciences

- Major Findings:
  - Rock storage out of control!
     Too much stored and in key areas
  - Need to repurpose parts of buildings to "highest and best use"
  - Oversized faculty offices in one of the buildings
  - Student space not allocated equitably





#### • Changes Since the Study:

- Rocks catalogued, teaching collections only on site, others moved to off-site storage
- Reorganization of student space
- Lab study underway
- School space policies being developed

#### **Business Affairs Division**

- Context:
  - 26 locations
  - 183,149 nasf
  - Over 800 staff in 8 business units, mostly an office program
  - Cooperated with space study at Provost's request

#### • Major Findings:

- Over 10% vacancy rate overall, due to cut-backs, but vacancies were spread throughout the office locations
- Many staff in substandard space on campus
- Inconsistent allocation of offices versus cubicles





- Changes since the study:
  - Consolidation of vacancies, so that two full modular buildings could be recovered for surge space
  - Improvement of staff spaces in key areas
  - New thinking about cubicle/office spaces

### **Cool Space Ideas**









#### Themes in Common

- You need to have the space data to address space issues
- Having space guidelines in place is key
- Customs and historical precedents abound
- Strong leadership helps to promote change

# In Depth Look at H&S



#### In Depth Look at H&S: Overview

530 on duty academic council faculty400 adjunct teaching faculty500 staff

28 academic departments53 non-departmental programs, centers, etc

80% of Stanford undergraduate majors50% of Stanford's graduate students

Over 1,000,000 gsf in 60 buildings

Consolidated budget of \$285M (\$115M general funds; \$75M grants & contracts; \$95M gifts)

## In Depth Look at H&S: How "Planning" has worked in the past





- Conduct a thorough analysis of the drivers of the School's budget (strategic directions, academic priorities, facilities)
- Develop an academically driven, rational resource allocation model allowing the School to align internal allocation with current academic programming realities and long term plans
- Create robust tools and models to fully cost additions of faculty, programs and facilities on an ongoing basis
- Involve the School more effectively in academic planning and related policy development through faculty and staff advisory groups

**Phase 1**- Background, Methodology and Data

- Analyze historical data, including budget, student enrollments, numbers of faculty, grants & contracts volume, and facilities costs for each unit
- Define the major cost drivers
- Identify internal & external benchmarks to be used to develop planning models
- Role of data in decision making and budgeting inform versus drive

Department Profile: 2002-03 Academic/Fiscal Year						
School:	School of Humanities & Sciences H&S-Soc Sciences			1993 NRC Ranking		
Area:						
Department:	Psychology					
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Faculty Primary						
Appointment Headcount	30			Total Students	170	
Tenure Line	29			Undergraduates	102	
Non-Tenure Line	1			Reg Grads-Other	5	
				Reg Grads-PHD	46	
Faculty FTE:	29.0			TGR-Other	0	
On-Duty FTE:	25.8			TGR-PHD	17	
-						
Other Non-Tenure Line		Non-Teaching				
Faculty	1	Staff	44	Degrees	114	
Lecturer/Sr. Lecturer		Exempt	1	Bachelor	87	
Other Ranks	1	Non-Exempt	15	Masters	15	
		Bargaining Unit	28	Doctorate	12	
Teaching Activity				Sponsored Activity		
	Classroom	Individualized				
Courses Taught	Courses	Instruction		Total Sponsored Expense	\$6,292,062	
Professorial Faculty	79.8	231.5		US	\$5,815,788	
Lecturer/Sr. Lecturer	13.0	10.0		Non-US	\$476,274	
Others	4.0					
Total Courses	96.8	241.5		New Proposals	27	
				New Awards	16	
	Classroom	Individualized				
Units Taught	Courses	Instruction		New Awards Amount	\$7,873,205	
Professorial Faculty	11,945	2,244				
Lecturer/Sr. Lecturer	1,677	45				
Others	177					
Total Units	13,799	2,289				
Expenses				Sources of Revenues		
	All Other	Sponsored				
	Functions	Research (Fn 2)				
Fac Salaries	\$2,760,494	\$569,490		General Funds	\$3,204,011	
Other Teaching Salaries	17,648	49,479		Designated	763,080	
RA Salaries	509,114	435,054		Endowed	282,482	
TA Salaries	178,015	677		Expendable	(57,563)	
Other Salaries	1,283,852	1,029,333		Grants and Contracts	6,292,062	
Benefits	1,080,462	418,869		OB funds from transfers	3,636,777	
Grad Aid or Stipends	1,747,648	45,910		Total	\$14,120,849	
UG Aid	2,269	15,600				
All Other Expense	1,119,726	1,245,084				
Indirect Charges	28,372	42				
Total	\$8,727,600	\$3,809,538	•			





FY02-03 Avg Sciences: Undergraduate Degree Granted & Professorial Units Taught/On-Duty Faculty FTE (Units Taught/On-Duty Faculty In Hundreds)



FY02-03 Average Social Sciences: Master's & PhD Degree Granted Per On-Duty Faculty FTE



FY02-03 Average Sciences: Master's & PhD Degree Granted Per On-Duty Faculty FTE



FY99-FY03 Social Sciences: Graduate Applications & FY03 Enrollment



FY99-FY03 Sciences: Graduate Applications & FY03 Enrollment



FY99-FY03 Humanities: Graduate Applications & FY03 Enrollment



FY99-FY03 DLCL: Graduate Applications & FY03 Enrollment



#### Phase 2 – Data Analysis and Model Development

- Establish academic planning assumptions and constraints including number of faculty, graduate and undergraduate students, facilities limitations, fundraising goals, and base funding
- Develop planning models *Examples*:

Faculty exit and hiring models Graduate student cohort and total student projections Infrastructure support budget needs Space needs and facilities budget requirements

- Devise 10-year cost, fundraising, and funding model
- Parallel work on School-wide space utilization study (to be described in more detail later)

#### **Phase 2** – Data Analysis and Model Development

#### Applying Constraints:

- On-going base costs
  - Faculty salaries/benefits
  - Other teaching/benefits
  - Staff salaries/benefits
  - Graduate Aid
  - Facilities & operations
- Recurring one-time costs
  - Recruitments
  - Retentions
  - Governance
  - Facilities



□ *Phase 3* - Development of Long-Range Plans

- Evaluate strategies for allocation of resources in alignment with academic plan
- Evaluate cost reduction or reallocation options
- Move toward decision-making more tightly joined with financial constraints & opportunities
- Create master space plan

- School-wide study in progress as described earlier, in partnership with Capital Planning group
- Distribution and discussion of space guidelines
  - Dean to Faculty Chairs
  - Executive Dean to Department & Program Administrators
- Central Quad completed first historic buildings; little internal flexibility
  - Detailed building-level recommendations for better space utilization
  - Overall observations regarding efficiencies that might be gained

#### Examples:

- Administrative staff members occupying private offices
- Many faculty offices larger than space guidelines
- Some faculty members have 2 or more offices
- Visitor/lecturer offices are frequently not shared
- Emeritii offices are frequently not shared and sometimes quite large

#### Examples: (cont)

- "Historic" departmental libraries are often not well used
- Varied classroom ownership obscures use information
- Standards are lacking for grad student space
- Specialized storage needs



Library, Room 51A



#### **Student Advisors Room**

#### **Student Course Associates Room**



History Storage, Room 301



#### **Emeritii Private Office**

**Oversized Faculty Office** 



Administrator in Faculty-sized Office

#### **Next Steps:**

- Application of space guidelines related to H&S space management policies
- Alignment of department and program space planning efforts with academic needs and space guidelines
- Weave unit space needs and plans into a school-wide master plan; understand & communicate constraints
- Challenges of making it happen: historic buildings, costs, academic culture
- Getting a little help from our friends!

# Questions and Comments

