UC San Diego
Pilot Phase of the Redesigned Capital Process

Committee on Grounds and Buildings
March 17, 2009
Agenda

Priorities and Process

Capital Financial Plan

Physical Design Framework
“A truly University oriented city, with the natural advantages of climate and site here present, can provide compelling attractions to teachers and students alike.” - City of San Diego (1959)
Collaborative Campus Process

- Campus/Community Planning Committee
- Design Review Board
- Capital Outlay and Space Advisory Committee
- Planning Advisory Committees
- Building Advisory Committees
Agenda

Priorities and Process

Capital Financial Plan

Physical Design Framework
Capital Program Goals

• Address key priorities
  - construct new space
  - modernize buildings and renew infrastructure

• Plan with financial prudence

• Achieve functional and aesthetic goals

• Increase use of sustainable materials and renewable energy, and minimize life cycle costs
Capital Financial Plan, 2008-18

• Total Value of $3.014 Billion
  • $2.276 billion (or 76%) non-State resources
  • $738 million (or 24%) State resources
Capital Financial Plan, 2008-18

Breakdown by Function

- Medical Center: $785,396,000 (26%)
- Parking: $18,500,000 (1%)
- Other: $350,230,000 (12%)
- Housing: $308,336,000 (10%)
- Infrastructure: $159,868,000 (5%)
- Instruction and Research: $1,391,316,000 (46%)
Capital Financial Plan, 2008-18

• Value By Improvement Type
  - New facilities = $2.335 billion (or 77%)
  - Renovations = $412 million (or 14%)
  - Infrastructure = $267 million (or 9%)

• External Financing (Total = $1.223 Billion)
  - Medical Center = $468 million (or 39%)
  - Academic = $405 million (or 33%)
  - Housing = $296 million (or 24%)
  - Infrastructure = $55 million (or 4%)
Sustainability

• Conforming with UC Policies

• Implementing Sustainable Buildings
  - Cool roof system
  - Displacement ventilation system
  - Naturally ventilated office modules
  - Photovoltaic infrastructure
  - Ultra low flow plumbing fixtures

• Advancing Energy Initiatives
  - Fuel Cell
  - Compressed Natural Gas Fueling
  - Algae Biofuel Farm
  - Photovoltaics
  - Wind Turbine
1. Fuel Cell
   - Hydrogen System
   - Absorption Chiller
2. Compressed NG Fueling
3. DC Black Box
4. DC System Cooling
5. Advanced Energy Storage
6. Thermal Storage Tank
7. Algae Biofuel Farm
8. Anaerobic Digester
9. Hydrogen Purifier
10. Information/Visitor Center
11. Photovoltaics
12. Wind Turbine
13. Concentrix Photovoltaics
Agenda

- Priorities and Process
- Capital Financial Plan
- Physical Design Framework
Hierarchy of Physical Plans

Program Level
General Land Use Plan

Macro Level
“Soaring Vision”
Five Guiding Planning Principles

Micro Level
Design Guidelines
UCSD should develop a “University Center” that will be the hub of campus activity and the focus of its undergraduate teaching programs.

Existing “centers of gravity” on campus serve as gathering points. What is needed is a “town center,” easily accessible to visitors and convenient to west campus neighborhoods, that can function as the “heart” of campus social and academic life.
University Center Principle

A new glade is suggested east of Price Center.

The proposed Price Center expansion will locate east of the existing building.

Existing Building 412 should be preserved or replaced to help contain the town square and the Matthews Quadrangle.

The town square

Buildings are recommended to frame courtyards.

A vertical landmark (tower) can locate on Myers Drive facing the town square.

A parking structure will locate along Bishops Way, set back from University Drive. This structure should be separated from Myers Drive and "Library Walk" by academic buildings.

Buildings should front on "Library Walk." Setbacks may vary to accommodate existing eucalyptus trees.

Special housing can locate at Russell Drive and University Drive.
Master Plan Influence

University Center/Sixth College Neighborhood Planning Study
The Creation of University Center

Price Center Expansion

Student Services Center

Music Building
Design Objectives and Guidelines

- Development Objectives
Design Objectives and Guidelines

• Development Objectives
• Building Design Guidelines
Design Objectives and Guidelines

- Development Objectives
- Building Design Guidelines
- Open Space Guidelines

Figure 3-39 University Center Street Tree Diagram

Street Trees:
- Extend the designated species along the length of each street. See Table 3-1.

PC Myers Drive - Pistache, *Pistacia chinensis* (male sterile)

RC Russell Lane - Chinese Flame Tree, *Koelreuteria bipinnata*

RB Rupertus - New Zealand Christmas Tree, *Metrosideros excelsus*

UP Lymon Lane - Evergreen Elm, *Ulmus parvifolia* ‘Drake’

TP Transit Walk - Torrey Pine, *Pinus torreyana*


Discrete Open Space plant materials
Design Objectives and Guidelines

- Development Objectives
- Building Design Guidelines
- Open Space Guidelines
- Color and Material Palette