



# Federal Regulations on Research

- Regulations that are necessary (albeit with modification):
  - Governance of ethics: e.g. Institutional Review Boards (IRBs)
  - Sensitivity to cultural issues: e.g. NAGPRA
  - Sensitivity to national defense: e.g. ITAR
- Regulations that impede research without addressing real problems:
  - Controls around the use of research dollars: money is scarce and only a means to another end: it's not the goal of research
  - Effort reporting: progress is not a linear function of effort
  - Unreimbursed costs (esp. administrative): these are contributing to the increasing costs of education (through tuition)

# The Research Budget at UC

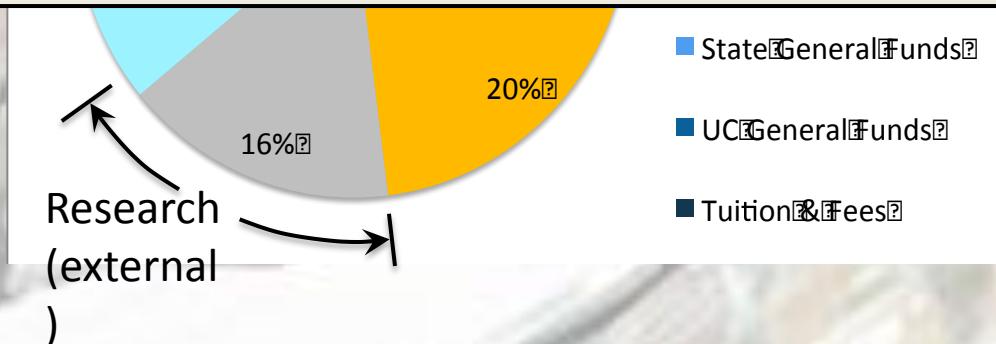
<http://accountability.universityofcalifornia.edu/report.html>

Medical Center 28%    Other Sales 20%    Government 16%    Private Gifts 8%    Other Source 2%    State General 10%    UC General 3%    Tuition & Fee 13%

- Research is ~1/4 of UC's expenditures but less than 1/4 of its revenue

## UC Operating Revenues FY12-13: \$24B

- \$5.6B in research expenditures, 23% of UC's \$24B budget
  - \$4.0B direct of which UC contributes ~\$1B
  - \$1.0B reimbursed indirect costs
  - \$0.6B unrecovered indirect costs
    - » \$241M lost to low rates (e.g. administrative costs)
    - » \$371M ICR waived (usually required by government program officers)

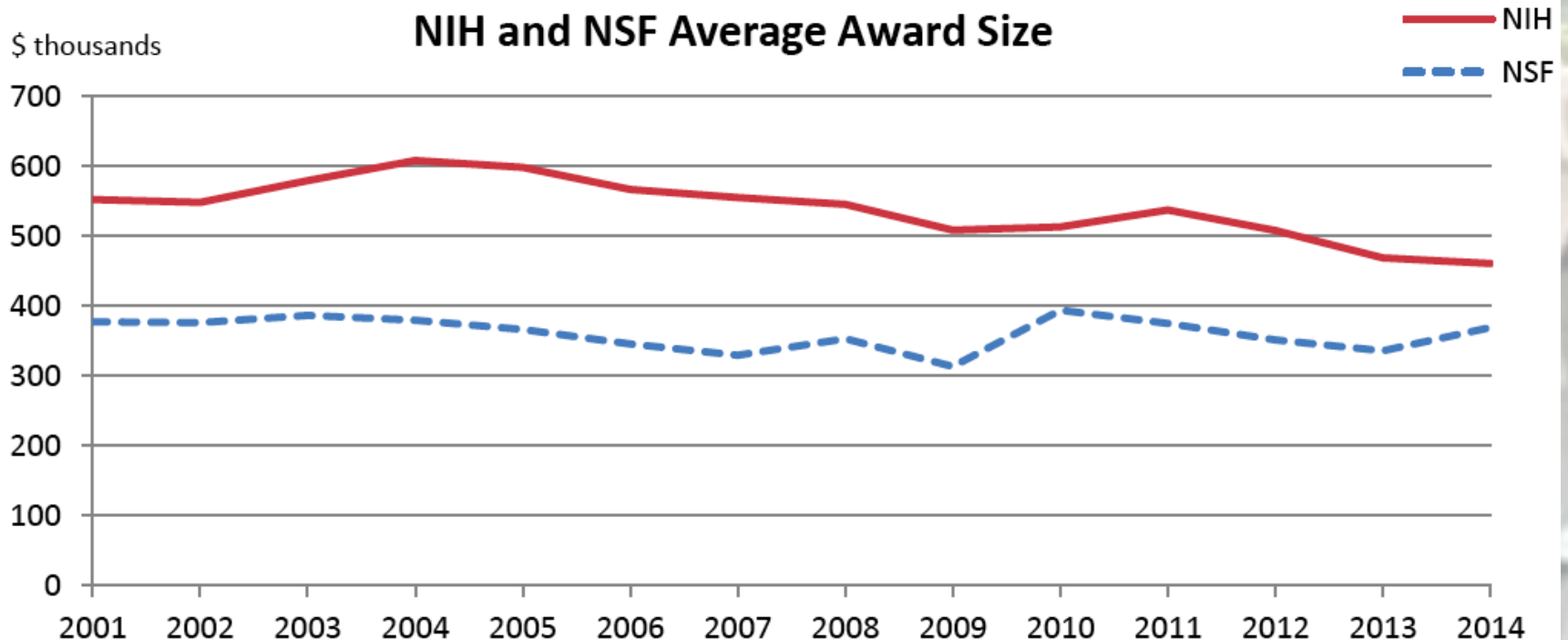


- Decreasing State support means the institutional support must come increasingly from tuition



# Federal Funding at UC

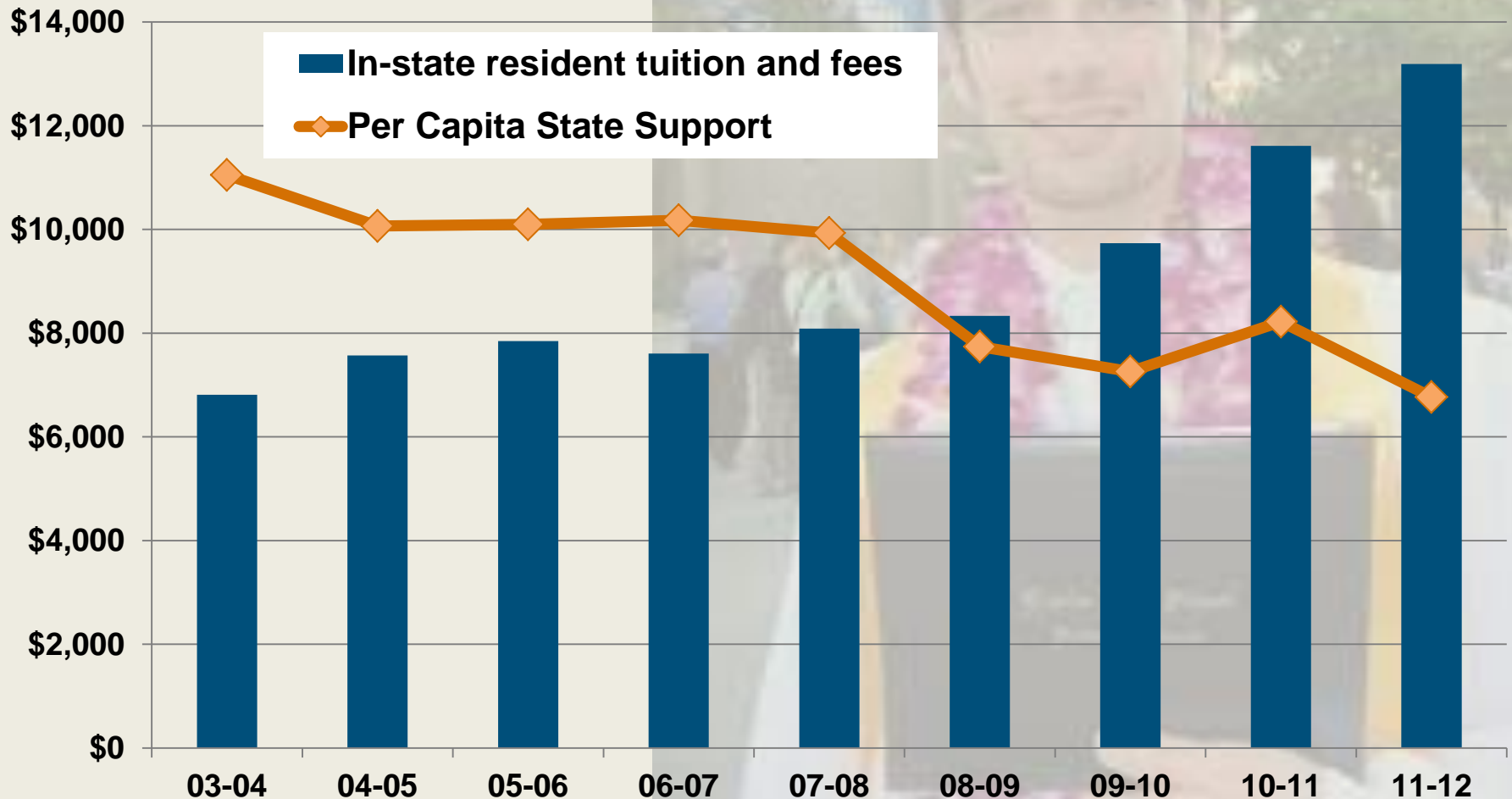
- Federal agencies provide 60% of all UC research (+8% flowthrough)
  - ~3/4 of the federal support from NIH and NSF: NIH/NSF~4
- UC provides ~\$1B for research from its own funds
- Research supports 30% of UC FTE, \$1.9B in salaries including:
  - \$342M for faculty, \$428M for researchers, \$702M for staff, \$227M for post-docs, and \$226M for students





# State Funding at UC

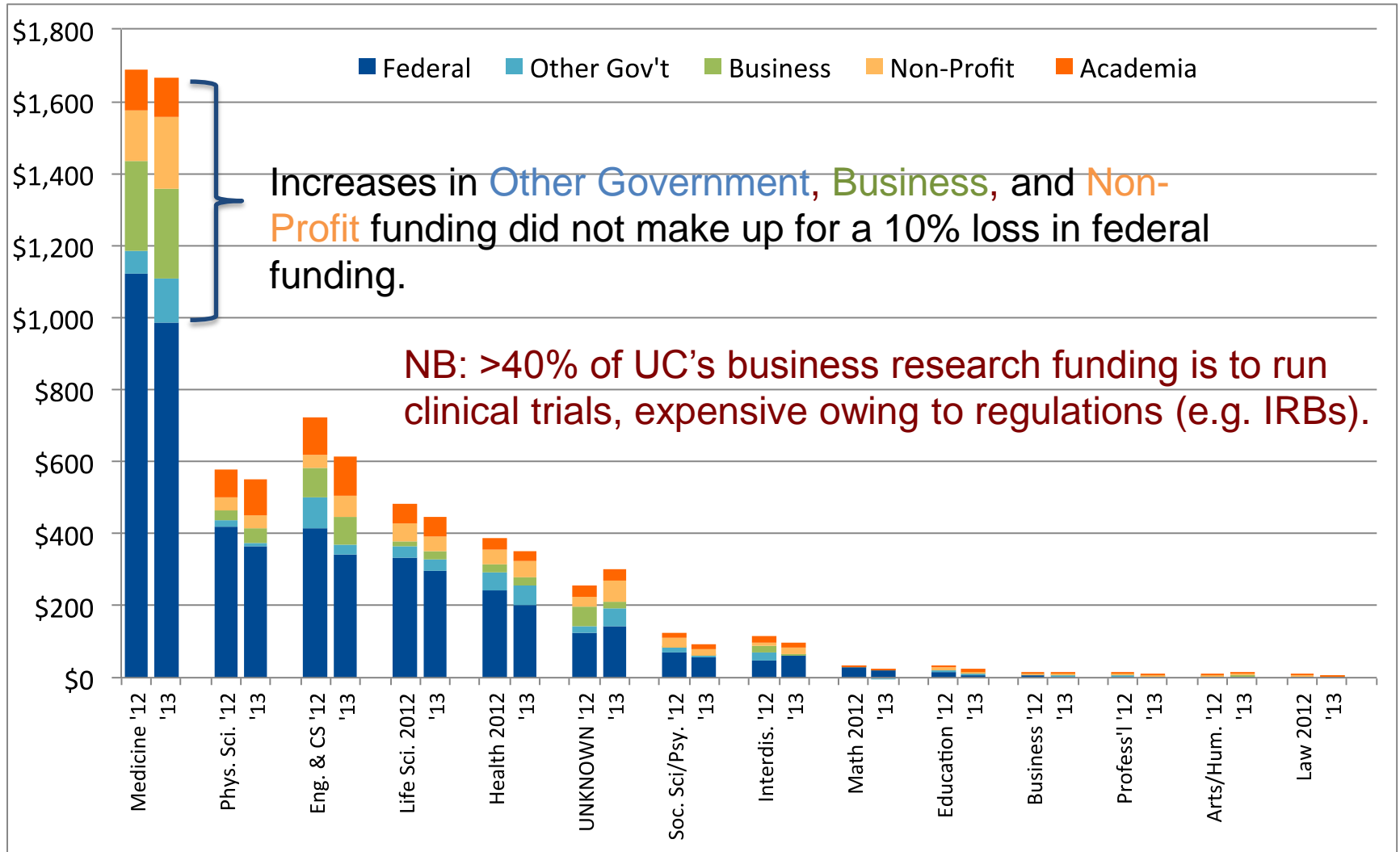
**State support has declined, UC Tuition and Fees have oncreased**





# UC Research by Field: 2012 & 2013

(\$M) 2011

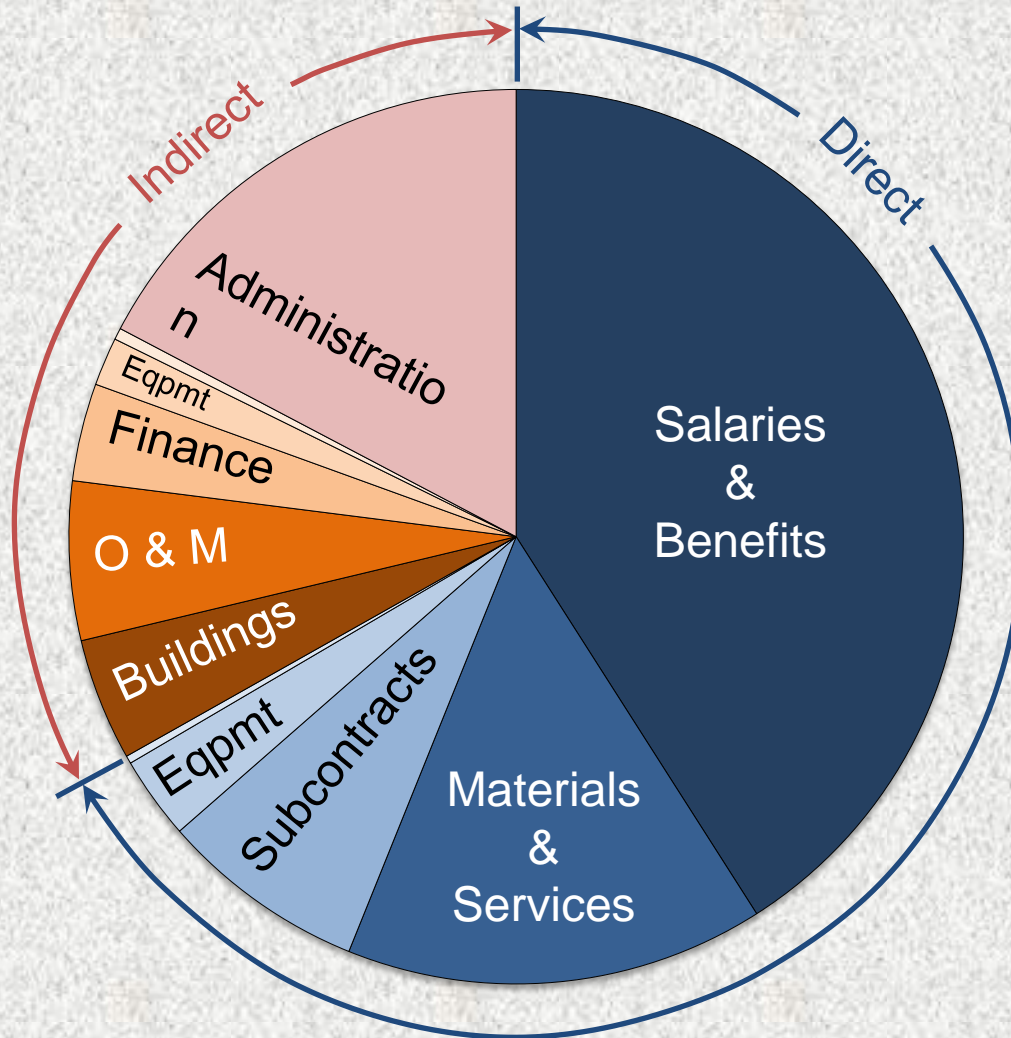






# Costs of Research

*Example: UC Irvine*



## ◆ Direct costs (~67%)

- Salaries & Benefits
- Materials & Services
- Subcontracts
- Equipment
- Stipends

## ◆ Facilities & Administration (~33%)

- Buildings
- Operations & Maintenance.
- Finance (interest)
- Equipment
- Library
- Administration



# Burdens on Research Universities

- Our research system is showing signs of erosion: decreasing per capita funding, increasing burdens of compliance, increasing costs of facilities and people, and increasing expectations for short-term returns.
- Research costs for public research universities puts an undue burden on support from undergraduate education.
- Pressures to produce short-term benefits and solutions to immediate problems do not address the underlying weaknesses and do not capitalize on the greatest strengths of the current system: basic research.
- Unproductive regulations increase the costs and decrease the benefits of all research, especially by forcing researchers into unproductive activities.