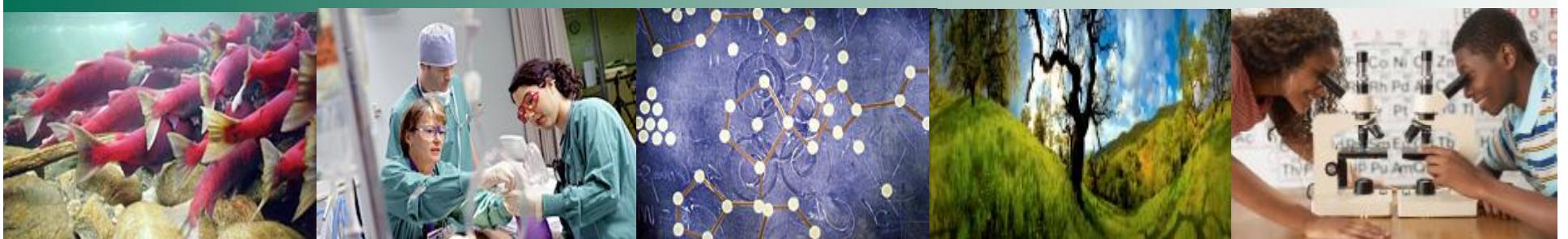


# Gordon and Betty Moore Foundation

## *Building the Workforce and the Universities*

George W. Bo-Linn, M.D.  
Chief Program Officer

June 3, 2009



GORDON AND BETTY  
**MOORE**  
FOUNDATION

## Key Messages: Foundations Play Unique Roles

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1. Identify possible pockets of innovation and inflection points
2. Support key organizations with “seed money”, outside traditional funding process
3. Take risks, act quickly, catalyze consensus
4. Stay in it for the “long run”

# Agenda

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1. *Gordon and Betty Moore Foundation*
2. Environmental Conservation Program
3. Science Program
4. San Francisco Bay Area Program
  - Betty Irene Nursing Initiative and
  - Betty Irene Moore School of Nursing
  - Science-Technology Museums



“By establishing the Foundation, we have created an opportunity to contribute on a scale that we hope can make a significant, positive impact on the world for generations to come.”

— *Gordon and Betty Moore, 2000*

# GBMF at a Glance

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## § Fact and Figures

- 10th largest foundation in U.S.
- Total value of grants awarded to date: >\$1.8B\*

## § Program Areas

- Environmental Conservation
- Science
- San Francisco Bay Area

## § Within Program Areas, organized around large-scale initiatives with robust theories of change

- Important
- Measurable outcomes
- Enduring impact

\* As of May 2009

# GBMF Program Areas

## Foundation Programs



## Foundation Initiatives

- § Andes Amazon Initiative
- § Conservation International Commitment
- § Marine Conservation Initiative
- § Wild Salmon Ecosystems Initiative

- § California Institute of Technology
- § Marine Microbiology
- § Special Projects

- § Betty Irene Moore Nursing Initiative
- § Betty Irene Moore School of Nursing at UC Davis
- § Land Conservation
- § Science and Technology Museums

## Foundation Grantees\*

- ü Wildlife Conservation Society
- ü Conservation International
- ü Cape Cod Commercial Hook
- ü Fishermen's Association
- ü Woods Hole Research Center
- ü Stroud Water Research Center
- ü World Wildlife Fund
- ü The Nature Conservancy

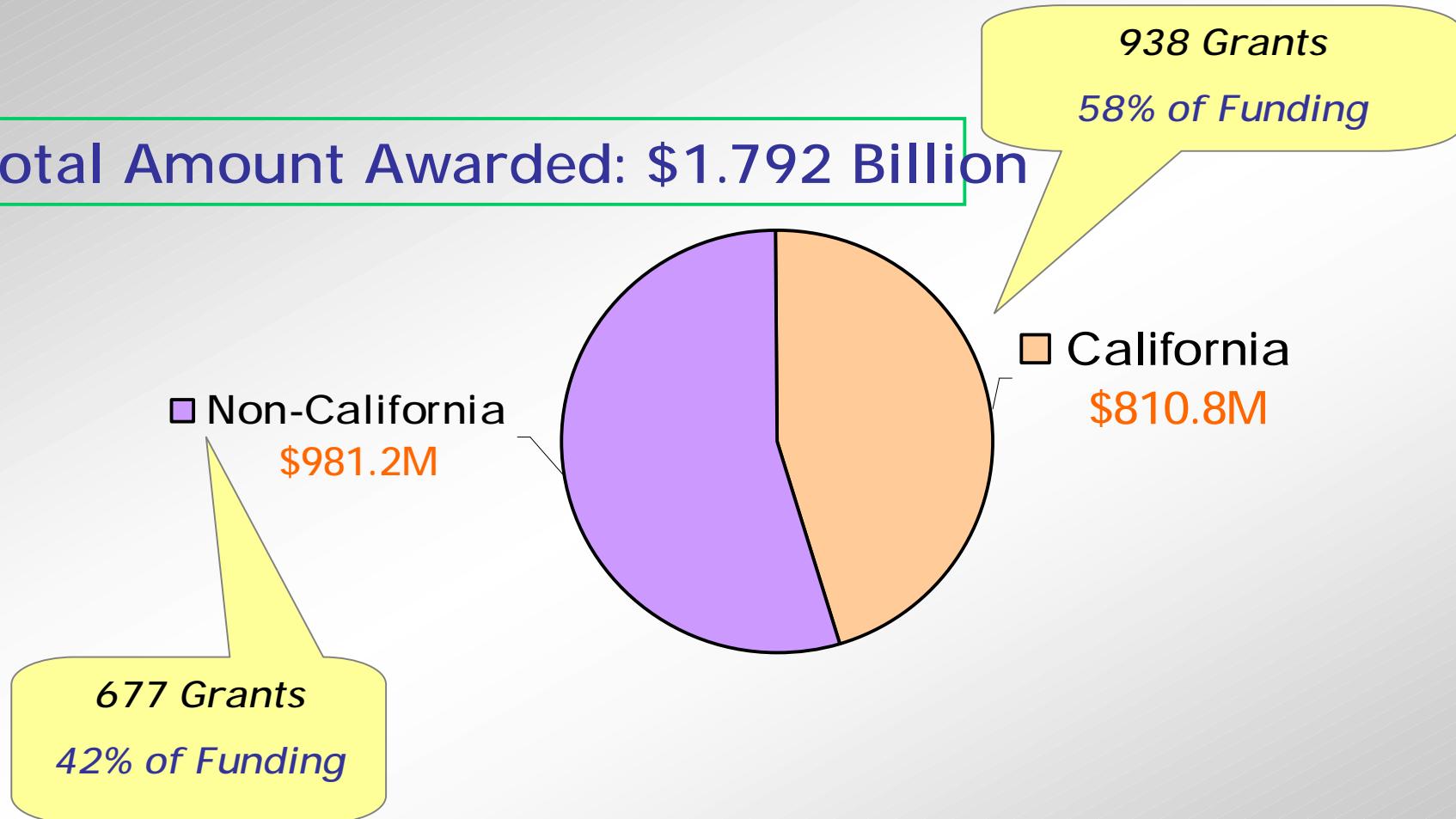
- ü Caltech
- ü UC San Diego
- ü Carnegie Institution of Washington
- ü MIT

- ü Kaiser Permanente
- ü UC-Davis
- ü Catholic Healthcare West
- ü Sutter Health
- ü California Institute for Nursing & Health Care
- ü Save-the-Redwoods League
- ü Peninsula Open Space Trust
- ü California Academy of Sciences
- ü Exploratorium

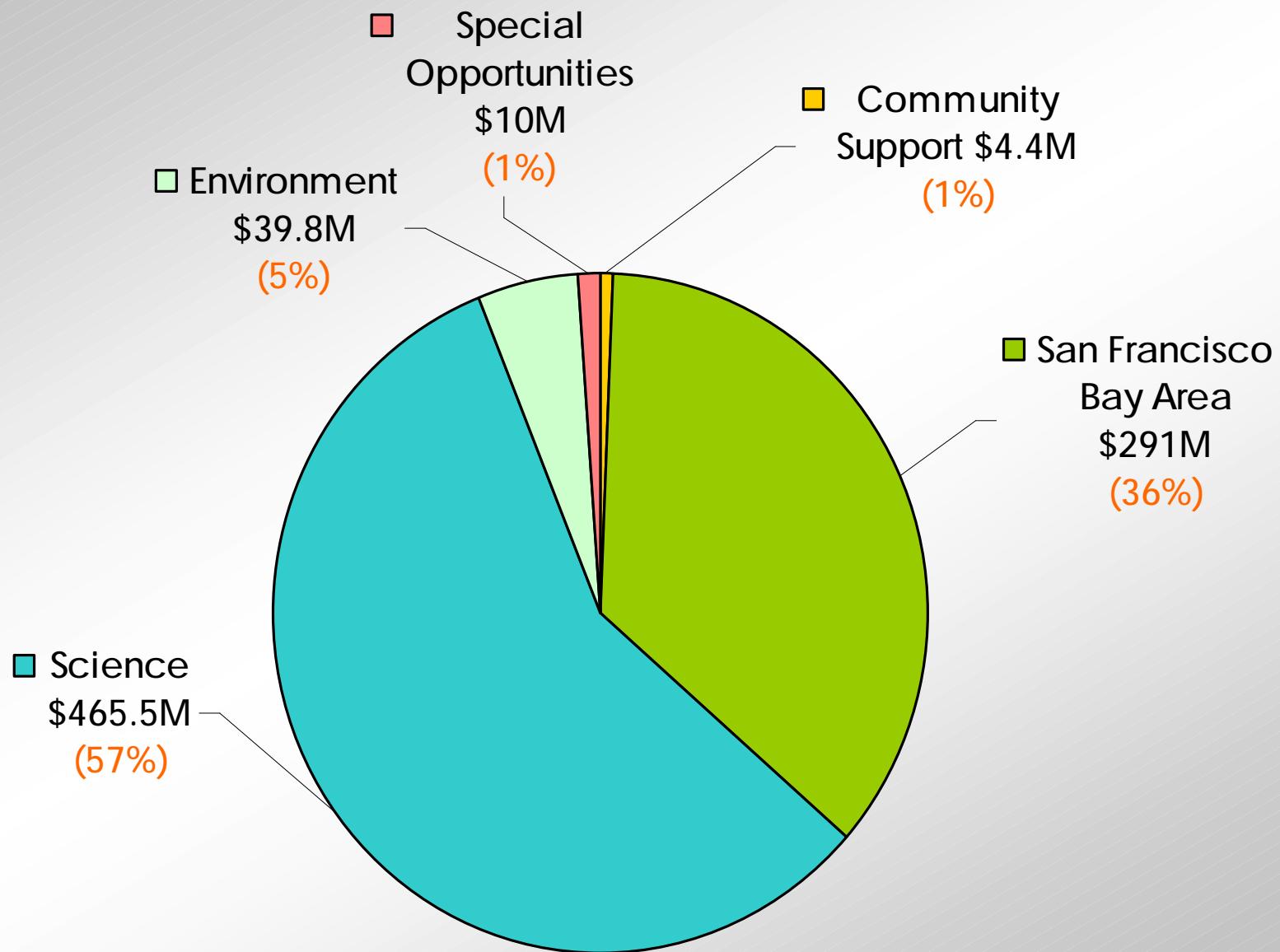
\* Grantee examples

# GBMF Grant-making from 2000-2009

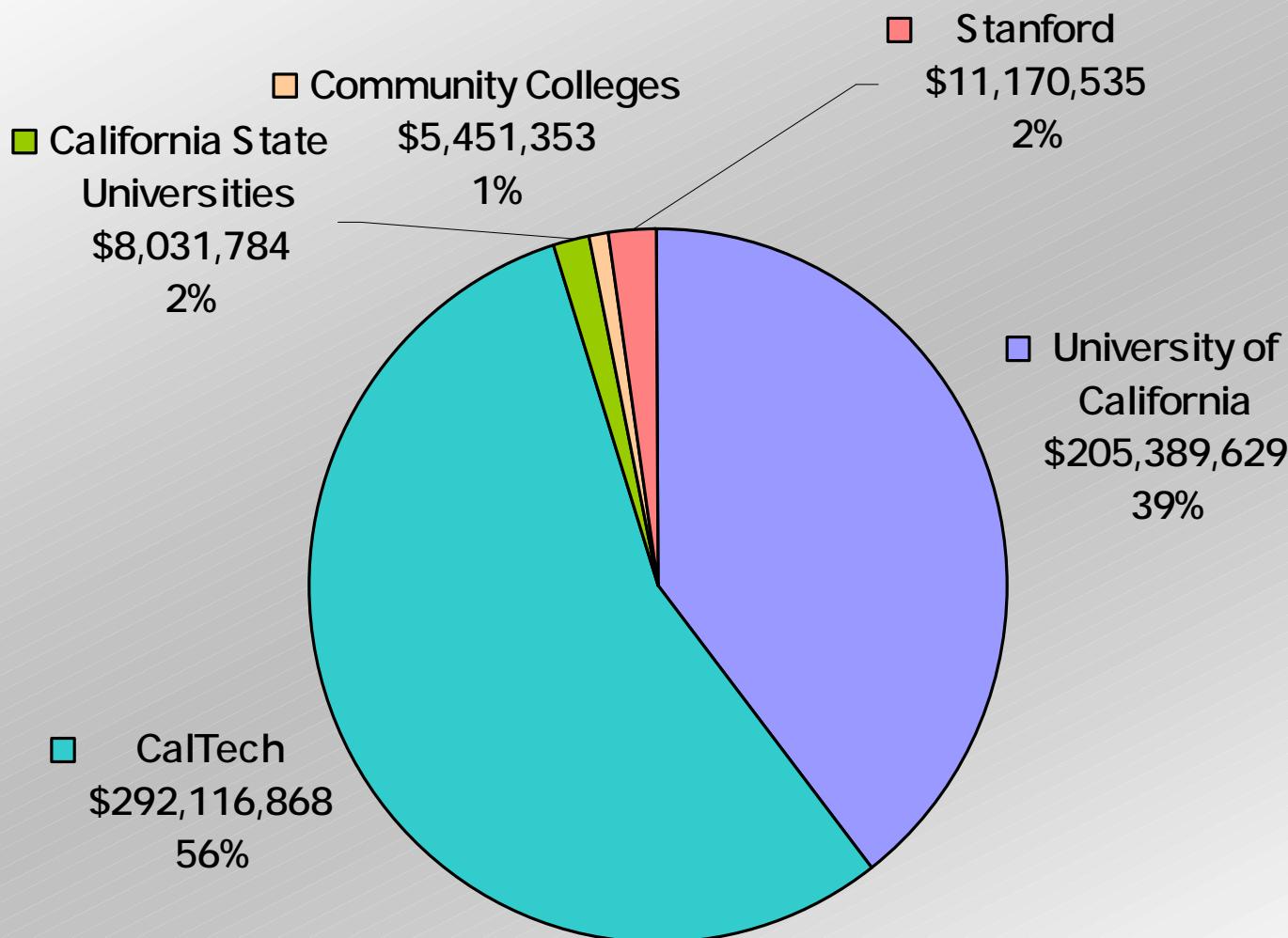
Total Amount Awarded: \$1.792 Billion



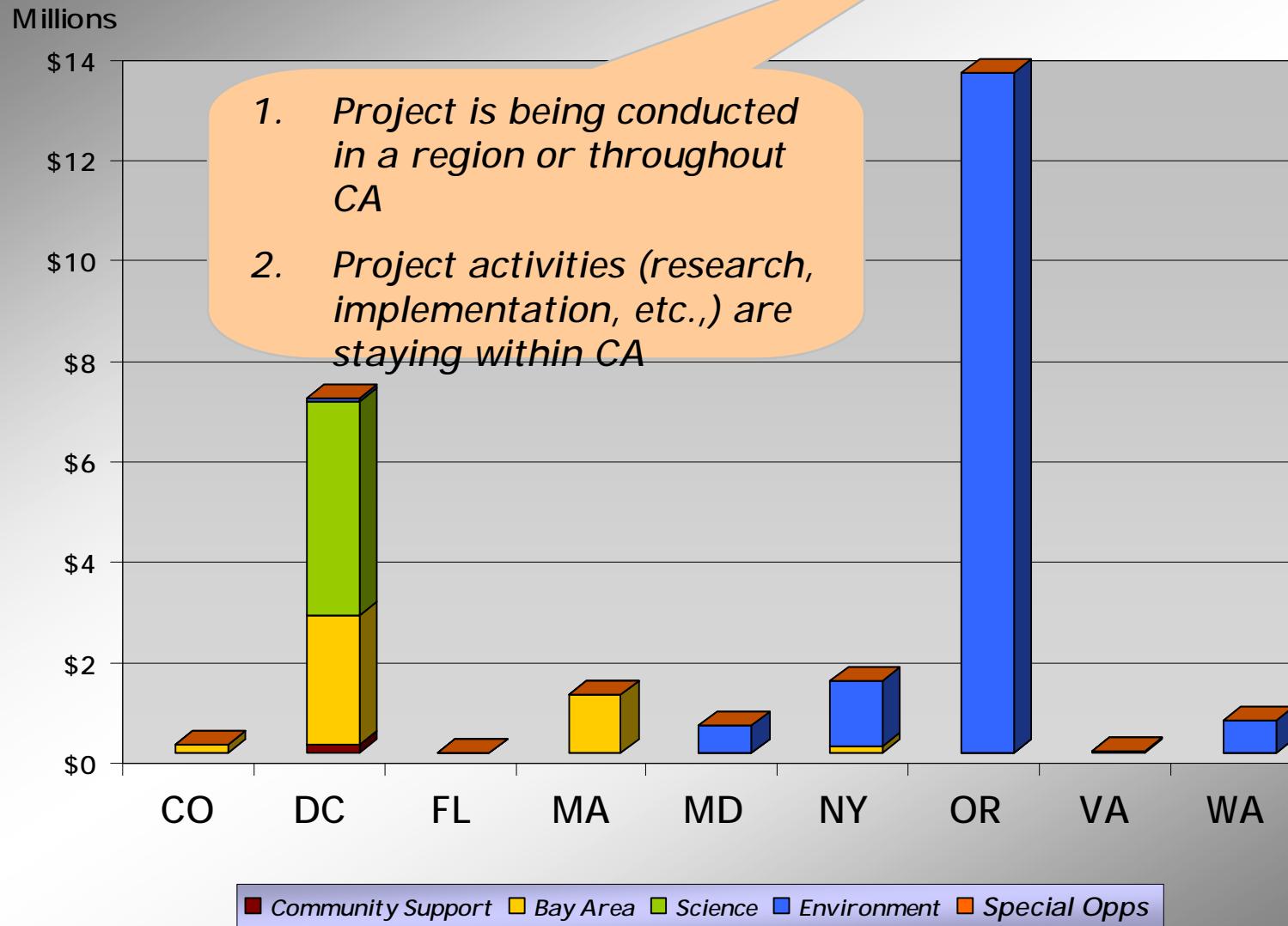
# GBMF Grant-making to CA Organizations



# Grant-making Portfolio to CA Universities



# Funding Non-CA Orgs: Economic Impact in CA



# Agenda

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# GBMF Science Program Impact in CA

## 1. *Caltech Commitment*

- California Institute of Technology

## 2. *Thirty Meter Telescope Commitment*

- Caltech and UC

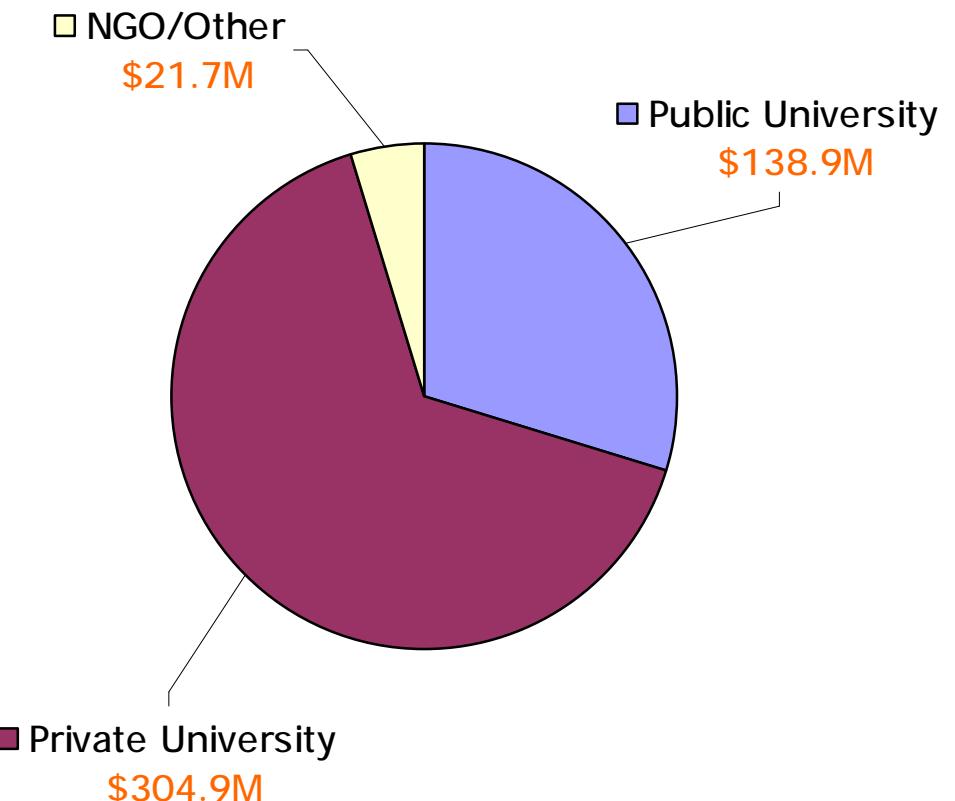
## 3. *Marine Microbiology Initiative*

- Investigators labs
- Cyberinfrastructure
- Research Projects

## 4. *Other Projects*

- Basic Research
- Equipment
- Applied Research/Development

*Funding in CA by Type of Institution*



# GBMF Funds Innovation

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- § Create new ways to quickly publish scientific knowledge
- § Develop critically important instrumentation
- § Catalyze new interdisciplinary scientific fields
- § Support scientific discovery before its application

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# Economics of U.S. Healthcare: Hospitals

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## § U.S. healthcare: 16% of GDP; \$2.1 trillion (2006)

- Added ~367,000 jobs, comprising 45% of all private-sector jobs added in 2007

## § Hospitals: largest part (\$648B) of healthcare expenses

- Directly or indirectly support one of every ten U.S. jobs
- Every dollar spent by a hospital supports more than \$2 of additional business activity
- With “ripple effects” included, hospitals supported \$13.9 million jobs and \$1.9 trillion of economic activity (2006)
- Hospitals usually the largest employer in communities; support up to 11% of a state’s employment (in CA is 7%; >27,000 new jobs Feb 2008-Feb 2009)

# Economics of U.S. Healthcare: Nurses

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## § Largest healthcare profession

- >2.4 million registered nurses (RNs) are employed in nursing (56% in hospitals)
- The average annual (2005) cost for hospitals to employ an RN approximately \$83,000 (salary of \$57,820 + 31% fringe benefit)

## § Each skilled RN for patient care generates >\$60,000 annually in reduced medical costs and improved national productivity (accounting for 72% of labor costs)

## § Only partial estimate of RN's economic value

- Diminished pain and suffering by patients and families
- Decreased collateral damage from poor or inefficient healthcare

# Poor Quality Healthcare Wastes Money

*Poor quality care leads to unnecessary healthcare costs*

- § 20% of age 65+ patients readmitted to hospital within 30 days.
- § 90% likely preventable.



>\$17B in annual healthcare costs nationally.

- § 400,000 preventable medication injuries in U.S. hospitals per year.

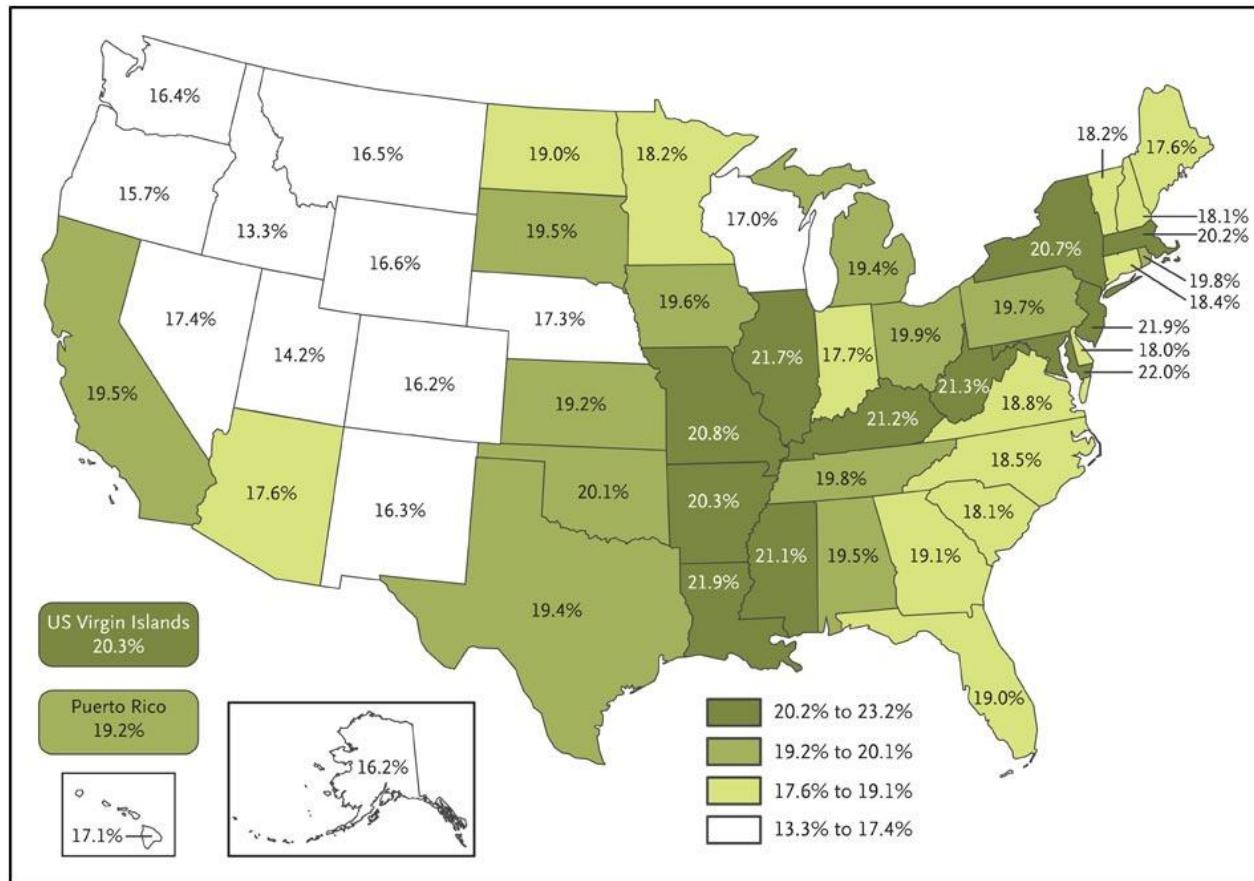


\$3.5B in annual healthcare costs nationally.

*...and significant indirect economic impact through lost work days and lower employee productivity*

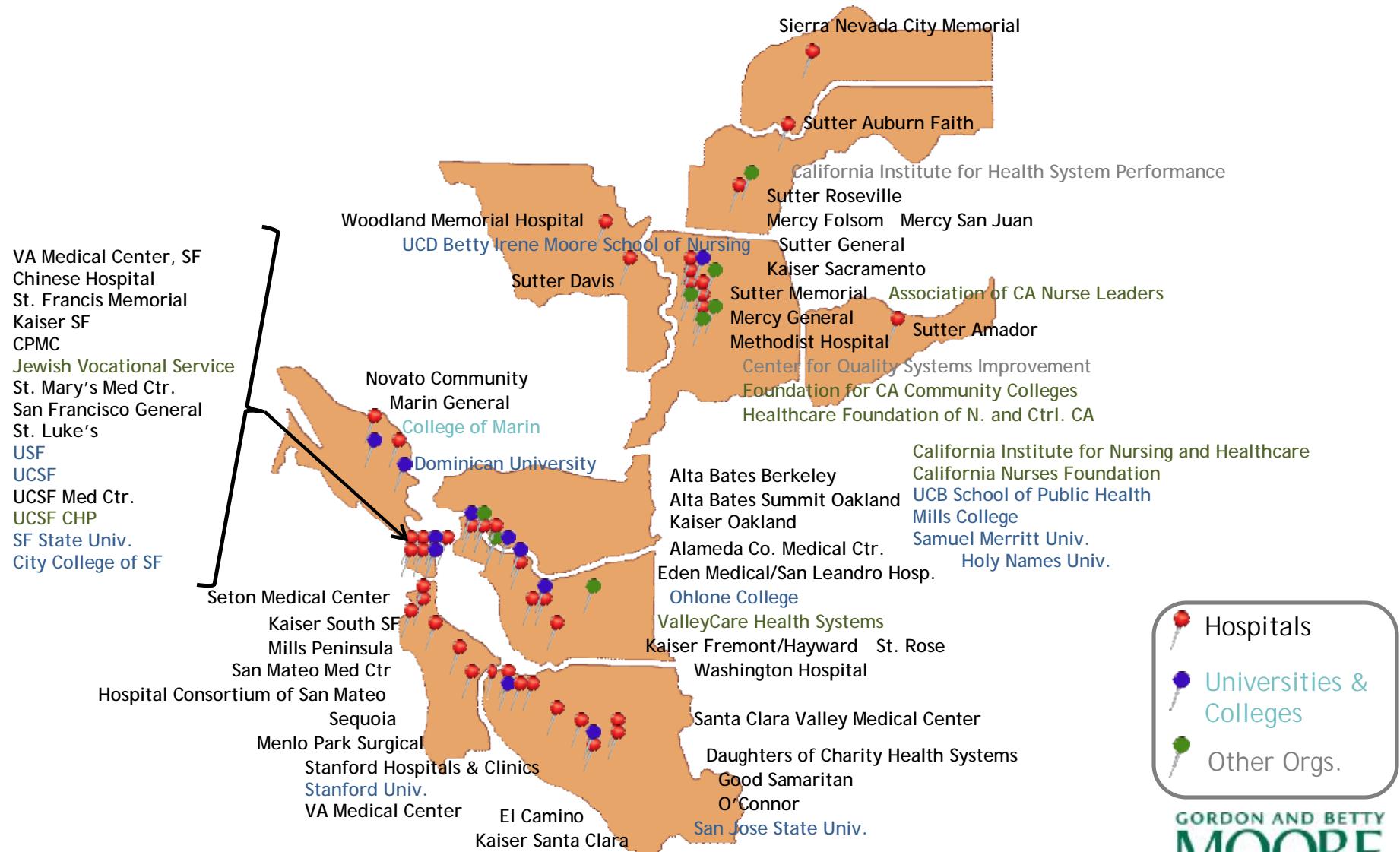
## Poor Quality Healthcare Wastes Money in California

*California in second highest quartile in readmission rates - leading to higher costs and lost productivity*



<sup>19</sup>\* *New England Journal of Medicine*, April 2, 2009

# BIMNI Community



# GBMF Invests in CA Healthcare Organizations

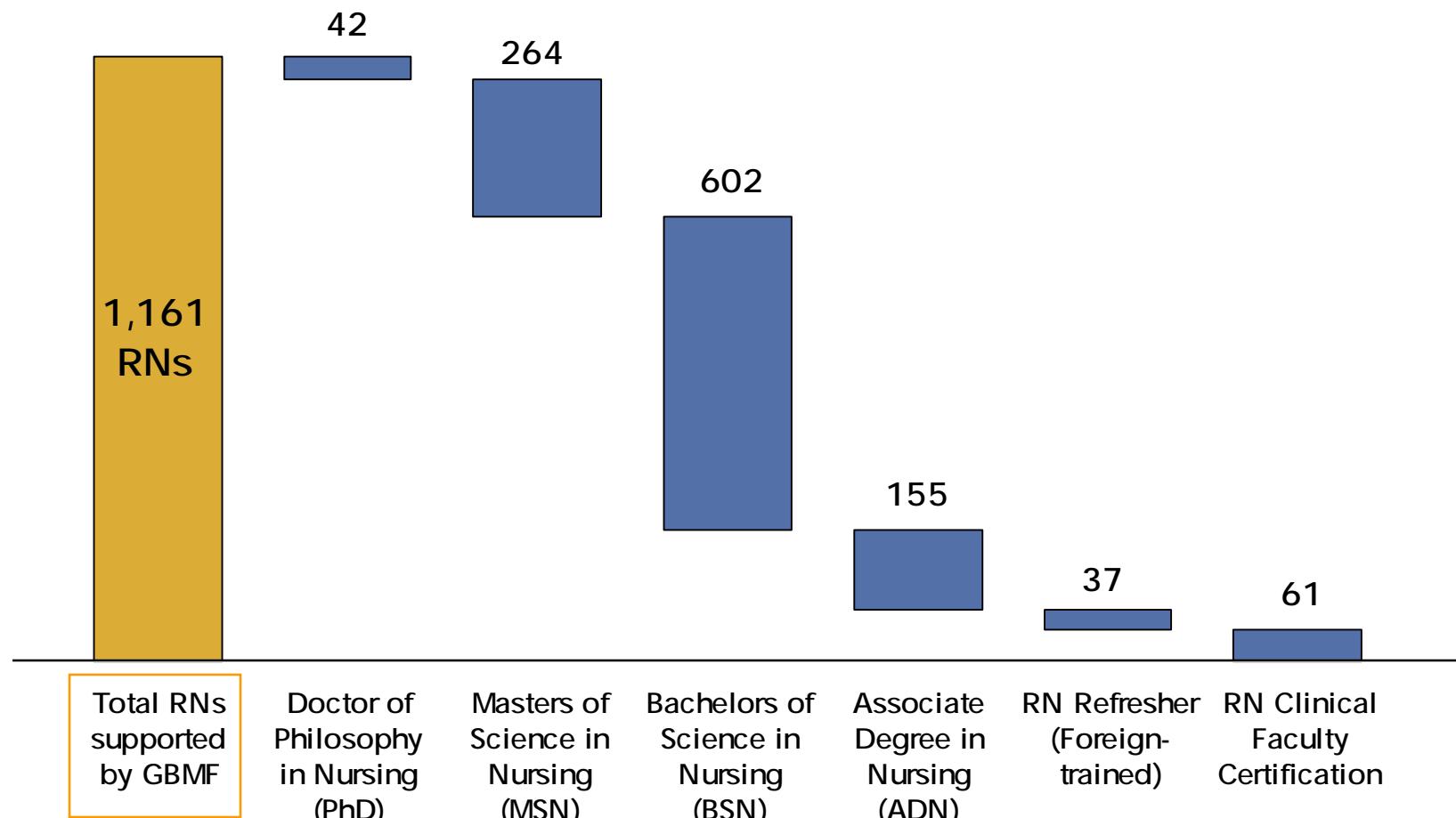
*Over \$130 million dollars invested in...*



*Total GBMF Grants and  
Contributions in California  
Healthcare Organizations  
(\$ in Millions)*

# GBMF Directly Supports RN Workforce

*GBMF has directly supported over 1,100 individuals to become frontline RNs and nursing educators*



# High Quality Healthcare Saves Money

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- § 80% of GBMF grantee Bay Area hospitals reduced hospital-acquired complications including:
  - 66% fewer central-line bloodstream infections, saving \$25K per avoided case.
  - 60% fewer ventilator-acquired pneumonias, saving \$12K per avoided case.
- § 25% of GBMF grantee hospitals working to reduce hospital readmission rates up to 30%.

*GBMF-funded programs have improved quality of hospital care and decreased healthcare costs*

<sup>23</sup>\* American Hospital Association, Novation.

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San Francisco Bay Area

# SCIENCE-RICH EDUCATION INSTITUTIONS



# GBMF Investing in Our Future: K-5 Science Education

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- § Continued Support for Informal Science Education
- § Increased Professional Development for Teachers
- § Enhanced Classroom Teaching of Students
- § Anticipated Results
  - ü More competent and confident teachers
  - ü More engaged and knowledgeable students
  - ü More literate and thoughtful citizens (we're in it for the "long run")

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