Planning for Hawai‘i’s Future
Second Decade, 2010–2020

Office of the Executive Vice President for Academic Affairs/Provost
July 2012
Purpose of Second Decade Project, 2007

- To identify the higher education needs of the State of Hawaiʻi in the next decade
- To determine the relative priority of state higher education needs by region of the state
Second Decade Revisited, 2012

• To check our projections relative to 2010 Census data

• To review our outcomes and measures and revise as needed

• To measure our progress on performance indicators
A System of Campuses

- Geographically accessible entry points
- Flexibility for students to move within a system
- Cohesive response to state needs
- Coordinated leadership for resource acquisition and allocation
State of Hawai‘i by Geographic Region
Planning Context, 2007 Analysis

- Population growth (# & %)
- High school graduation rates
- Per capita income
- Workforce participation
- Educational attainment (<HS, HS, bach)
- College going rate (2-yr, 4-yr)
- Workforce shortages
# Relative Need for Postsecondary Ed & Training, 2007 Analysis

<table>
<thead>
<tr>
<th>Factors</th>
<th>East</th>
<th>Cent</th>
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<tbody>
<tr>
<td>Pop Growth (%)</td>
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<td>Very High</td>
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<tr>
<td>Proj HS Grad (%)</td>
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<td>Ed Attain (&lt;HS)</td>
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<tr>
<td>Going Rates (4-Yr)</td>
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<td>Very High</td>
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## RELATIVE NEED

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<tr>
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<td>31</td>
<td>31</td>
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</table>
Relative Need for Postsecondary Ed & Training, 2007 Analysis

4 Cluster Analysis

- Wai’anae: Very High Need (59)
- ‘Ewa: High Need (55)
- West Hawai’i: Medium Need (49)
- Maui: Low Need (45)
- North Shore: Medium Need (45)
- East Hawai’i: Medium Need (43)
- Kaua’i: Low Need (39)
- Windward: Low Need (31)
- Central O’ahu: Low Need (31)
- East O’ahu: Low Need (31)

Legend:
- Low Need
- Medium Need
- High Need
- Very High Need

EVPAA Jul 2012
Updated Planning Data

State Population
Total Population, 2010

State of Hawai‘i = 1,360,301

Kaua‘i
67,091

Honolulu
58,936
48,519
181,448
180,716

Maui
154,924

Hawai‘i
78,707
106,372

Legend:
- >200,000
- 175,000–200,000
- 100,000–174,999
- <100,000

Source: U.S. Census Bureau; Census 2010
Relative Need for Postsecondary Ed & Training

Based on Change in Population (#), 2000–2010

- 'Ewa: 42,596
- Maui: 26,683
- East O'ahu: 19,685
- West Hawai'i: 18,205
- East Hawai'i: 18,197
- Kaua'i: 8,628
- Central O'ahu: 6,973
- Wai'anae: 6,260
- North Shore: 2,186
- Windward: -649

Statewide: +148,764

Source: U.S. Census Bureau; Census 2000 and 2010
Relative Need for Postsecondary Ed & Training

Change in Population (%), 2000–2010

- ‘Ewa: 30.7%
- West Hawai‘i: 30.1%
- Maui: 20.8%
- East Hawai‘i: 20.6%
- Kaua‘i: 14.8%
- Wai‘anae: 14.8%
- East O‘ahu: 5.9%
- Central O‘ahu: 4.0%
- North Shore: 3.9%
- Windward: -0.5%

Statewide: +12.3%

Source: U.S. Census Bureau; Census 2000 and 2010
Change in Hawai'i Population by Age Group, 2000–2010

Age Group: <15, 15–24, 25–34, 35–44, 45–54, 55–64, 65+

- <15: 6,058
- 15–24: 17,412
- 25–34: 14,174
- 35–44: -14,804
- 45–54: 22,786
- 55–64: 68,601
- 65+: 34,537

Source: U.S. Census Bureau; Census 2000 and 2010
Projected Change in Population, 2010–2020

- State of Hawai‘i: +8.9%
- Hawai‘i County: +19.3%
- Honolulu County: +5.3%
- Kaua‘i County: +12.7%
- Maui County: +16.8%

Source: DBED&T
Projected Population Growth, Age 65+, State & County, 2010–2020

- State of Hawai‘i: +44.9%
- Hawai‘i County: +66.1%
- Honolulu County: +36.7%
- Kaua‘i County: +57.9%
- Maui County: +66.7%


UNIVERSITY OF HAWAI‘I 2ND DECADE

## Relative Need for Postsecondary Ed & Training

### Projected Hawai‘i Public High School Graduates, 2011–2022

<table>
<thead>
<tr>
<th>Location</th>
<th>Graduates, 2011–2022</th>
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<tbody>
<tr>
<td>East O‘ahu</td>
<td>21,246</td>
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<tr>
<td>Central O‘ahu</td>
<td>21,057</td>
</tr>
<tr>
<td>‘Ewa</td>
<td>18,610</td>
</tr>
<tr>
<td>Maui</td>
<td>15,489</td>
</tr>
<tr>
<td>East Hawai‘i</td>
<td>11,635</td>
</tr>
<tr>
<td>Windward</td>
<td>8,453</td>
</tr>
<tr>
<td>Kaua‘i</td>
<td>6,588</td>
</tr>
<tr>
<td>North Shore</td>
<td>6,156</td>
</tr>
<tr>
<td>West Hawai‘i</td>
<td>5,675</td>
</tr>
<tr>
<td>Wai‘anae</td>
<td>4,749</td>
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Statewide: 119,658

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<th>Need Level</th>
<th>Area</th>
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<td>East O‘ahu, Central O‘ahu, ‘Ewa, Maui, East Hawai‘i, Windward, Kaua‘i, North Shore, West Hawai‘i, Wai‘anae</td>
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<tr>
<td>Medium Need</td>
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<td>High Need</td>
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<tr>
<td>Very High Need</td>
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Source: OEVPAA/P; internal forecast model; Hawai‘i DOE for public school enrollment data.
Updated Planning Data

Per Capita Income & Workforce Participation
Hawai‘i’s Per Capita Personal Income as a Percent of U.S. Average, 1960–2010

1960: 100.7%
1970: 108.1%
1980: 106.1%
1990: 109.4%
2000: 99.7%
2010: 105.7%

PCPI Adjusted HI=125%

1960: 80.6%
1970: 86.5%
1980: 84.8%
1990: 87.5%
2000: 79.8%
2010: 84.6%

Source: U.S. Census Bureau, American Community Survey, 2006-10 Estimates, 5-Year average.
Historical data: Table S3.
Relative Need for Postsecondary Ed & Training

Per Capita Personal Income, 2010 Inflation Adjusted Dollars

<table>
<thead>
<tr>
<th>Area</th>
<th>Low Need</th>
<th>Medium Need</th>
<th>High Need</th>
<th>Very High Need</th>
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</thead>
<tbody>
<tr>
<td>Wai‘anae</td>
<td>$17,717</td>
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<tr>
<td>North Shore</td>
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<td>$21,846</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Hawai‘i</td>
<td></td>
<td></td>
<td>$23,180</td>
<td></td>
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<tr>
<td>Kaua‘i</td>
<td></td>
<td></td>
<td></td>
<td>$27,622</td>
</tr>
<tr>
<td>‘Ewa</td>
<td></td>
<td></td>
<td></td>
<td>$27,817</td>
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<tr>
<td>Central O‘ahu</td>
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<td>$28,378</td>
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<tr>
<td>Maui</td>
<td></td>
<td></td>
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<td>$29,927</td>
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<tr>
<td>West Hawai‘i</td>
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<td>$30,844</td>
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<tr>
<td>Windward</td>
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<td>$32,497</td>
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<tr>
<td>East O‘ahu</td>
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<td>$34,083</td>
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</table>

Statewide: $28,882

Source: U.S. Census Bureau, American Community Survey, 2006-10 Estimates, 5-Year estimates.
Relative Need for Postsecondary Ed & Training

Workforce Participation, Age 16+

<table>
<thead>
<tr>
<th>Area</th>
<th>Participation</th>
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<tbody>
<tr>
<td>East Hawai‘i</td>
<td>60.6%</td>
</tr>
<tr>
<td>Wai‘anae</td>
<td>62.5%</td>
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<tr>
<td>East O‘ahu</td>
<td>64.4%</td>
</tr>
<tr>
<td>Kaua‘i</td>
<td>67.0%</td>
</tr>
<tr>
<td>Windward</td>
<td>67.6%</td>
</tr>
<tr>
<td>Central O‘ahu</td>
<td>67.6%</td>
</tr>
<tr>
<td>North Shore</td>
<td>68.2%</td>
</tr>
<tr>
<td>Maui</td>
<td>70.2%</td>
</tr>
<tr>
<td>West Hawai‘i</td>
<td>70.3%</td>
</tr>
<tr>
<td>‘Ewa</td>
<td>70.6%</td>
</tr>
</tbody>
</table>

Statewide: 66.8%

Source: U.S. Census Bureau, American Community Survey, 2006-10 5-Year Estimates
Updated Planning Data

Educational Attainment
Relative Need for Postsecondary Ed & Training

Population Age 18–24 with <HS Diploma

- **West Hawai‘i**: 19.1%
- **Maui**: 14.6%
- **Wai‘anae**: 11.7%
- **Kaua‘i**: 11.1%
- **East Hawai‘i**: 9.9%
- **East O‘ahu**: 8.2%
- **Windward**: 8.0%
- **‘Ewa**: 7.7%
- **Central O‘ahu**: 6.8%
- **North Shore**: 4.3%

Statewide: 9.0%

Source: U.S. Census Bureau, American Community Survey, 2006-10 5-Year Estimates
Relative Need for Postsecondary Ed & Training

Population Age 18–64 with Only a HS Diploma

- Wai'anae: 50.0%
- North Shore: 36.6%
- West Hawai'i: 34.6%
- Maui: 33.1%
- Kaua'i: 32.9%
- 'Ewa: 31.4%
- East Hawai'i: 30.5%
- Windward: 29.7%
- Central O'ahu: 25.9%
- East O'ahu: 22.9%

Statewide: 29.4%

Source: U.S. Census Bureau, American Community Survey, 2006-10 5-Year Estimates
Going Rates of Public and Private High Schools, UH System

Note: The UH system going rate is the percentage of Hawai‘i high school graduates entering the University of Hawai‘i without delay upon graduation from high school.

Sources: IRAO (UH); NCES IPEDS (state); NCHEMS (national).
Going Rates of Public and Private High Schools, UH System and State of Hawai‘i

Fall 2011 = 38.4%

Total Hawai‘i Going Rates

Note: The UH system going rate is the percentage of Hawai‘i high school graduates entering the University of Hawai‘i without delay upon graduation from high school.

Sources: IRAO (UH); NCES IPEDS (state); NCHEMS (national).
Going Rates of Public and Private High Schools, UH System, State of Hawai‘i, and the Nation

Note: The UH system going rate is the percentage of Hawai‘i high school graduates entering the University of Hawai‘i without delay upon graduation from high school.

Sources: IRAO (UH); NCES IPEDS (state); NCHEMS (national).
Relative Need for Postsecondary Ed & Training

UH 2-Year Going Rates, Fall 2011

- West Hawai‘i: 15.8%
- Wai‘anae: 20.7%
- East O‘ahu: 20.7%
- North Shore: 23.2%
- Windward: 25.1%
- ‘Ewa: 26.1%
- Maui: 29.3%
- Kaua‘i: 30.6%
- East Hawai‘i: 32.2%
- Central O‘ahu: 32.2%

Statewide: 25.6%

Source: UH IRAO

EVPAA Jul 2012
Relative Need for Postsecondary Ed & Training

UH 4-Year Going Rates, Fall 2011

- Wai'anae: 5.9%
- Maui: 7.4%
- North Shore: 8.0%
- 'Ewa: 8.9%
- Kaua'i: 9.1%
- Windward: 10.1%
- West Hawai'i: 10.3%
- Central O'ahu: 15.0%
- East Hawai'i: 16.5%
- East O'ahu: 17.1%

Statewide: 12.8%

Source: UH IRAO
Average Annual Net Migration of 22 to 64 Year Olds by Education Level (2008–10)

- Less than High School: 2,663
- High School Graduate: 1,576
- Some College, No Degree: 886
- Associate Degree: 1,761
- Bachelor's Degree: 576
- Graduate or Professional Degree: -483

Source: NCHEMS / U.S. Census Bureau, 2008-10 American Community Surveys (Public Use Microdata Samples)
Updated Planning Data

Workforce Shortages
## Projected Job Openings, 2008–18

<table>
<thead>
<tr>
<th>Category</th>
<th>Estimate (Avg Annual 2008–18)</th>
<th>Non-UH (14%)</th>
<th>UH (32%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Openings</td>
<td>20,540</td>
<td>2,959</td>
<td>9,628</td>
</tr>
<tr>
<td>Needing Education Beyond High School</td>
<td>13,100</td>
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<td></td>
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<tr>
<td>Avg Annual Undergraduate Degrees &amp; Certificates Awarded (FY07 to FY11)</td>
<td>6,670 (47%)</td>
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</tr>
</tbody>
</table>

**Note:** Average annual UG degrees & certificates include certificates (1yr+, associate, & bachelor's degrees.

**Source:**
- Job Openings: Georgetown University Center of Education and Workforce, Help Wanted: Projections of Jobs and Education Requirements through 2018, June 2010
- Degrees: NCES College Navigator, IPEDS, and IRAO.
Hawai‘i: Emerging Opportunities

Enterprise Honolulu Projections:

• Life Science / Biotechnology
• Information Technology
• Telecommunications
• Film & Digital Media
• Diversified Agriculture
# Hawai‘i’s Demand Occupations

## Occupation

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Annual Openings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bachelor’s degree or higher</strong></td>
<td></td>
</tr>
<tr>
<td>Elementary school teachers</td>
<td>330</td>
</tr>
<tr>
<td>General / operations managers</td>
<td>300</td>
</tr>
<tr>
<td>Secondary school teachers</td>
<td>300</td>
</tr>
<tr>
<td>Accountants / auditors</td>
<td>170</td>
</tr>
<tr>
<td>Property / real estate / community association managers</td>
<td>110</td>
</tr>
<tr>
<td>Network systems / data communications analysts</td>
<td>90</td>
</tr>
<tr>
<td><strong>Associate degree or higher</strong></td>
<td></td>
</tr>
<tr>
<td>Registered Nurses</td>
<td>330</td>
</tr>
</tbody>
</table>

Note: Annual openings as of 2008

Source: Research and Statistics Office, Department of Labor and Industrial Relations, February 2012
Projected Annual Vacancies in Shortage Areas Statewide, 2006–17 and Total UH Output, 2007–11

**Teachers (Elem/Sec)**

- 2006–17:
  - proj: 630
  - FY07: 370
  - FY08: 418
  - FY09: 389
  - FY10: 349
  - FY11: 424

**Nurses (RN)**

- 2008–11:
  - proj: 330
  - FY07: 252
  - FY08: 271
  - FY09: 310
  - FY10: 311
  - FY11: 341

**Computing (Bach)**

- 2007–11:
  - proj: 90
  - FY07: 40
  - FY08: 66
  - FY09: 78
  - FY10: 57
  - FY11: 81
Summary of Planning Factors

- Population growth (# and %)
- High school graduates
- Per capita income
- Workforce participation
- Educational attainment (<HS, HS, bachelor’s)
- College going rate (2-yr, 4-yr)
- Workforce shortages
## Relative Need for Postsecondary Ed & Training

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<td>Proj HS Grad (#)</td>
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<td>Very High</td>
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<td>Ed Attain (HS)</td>
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<td>Going Rates (2-Yr)</td>
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<tr>
<td>Going Rates (4-Yr)</td>
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<td>Med</td>
<td>Low</td>
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<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

| RELATIVE NEED | 37 | 31 | 49 | 57 | 39 | 29 | 45 | 47 | 47 | 41 |

EVPAA Jul 2012
Relative Need for Postsecondary Ed & Training

4 Cluster Analysis

<table>
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<tr>
<th>2007 Analysis</th>
<th>2012 Analysis</th>
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<tbody>
<tr>
<td>Wai‘anae</td>
<td>Wai‘anae</td>
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<td>‘Ewa</td>
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</tbody>
</table>

Legend:
- Square: Low Need
- Circle: Medium Need
- Diamond: High Need
- Triangle: Very High Need
# Public Higher Education Agenda

1. Increase the educational capital of the state  
   Hawai‘i Graduation Initiative
2. Address underserved regions/populations
3. Expand workforce development  
   Hawai‘i Innovation Initiative
4. Diversify the economy
5. Renew and expand infrastructure  
   Renovate to Innovate
Hawaiʻi Graduation Initiative
Hawai‘i Graduation Initiative

“Increase student participation and completion, particularly Native Hawaiians, low-income students, and those from underserved regions”

“55% of Hawai‘i’s working age adults to have a 2- or 4-year degree by 2025.”

“Increase graduates by 25% by 2015”
President Greenwood
P-20 GOAL: INCREASE 2- OR 4-YEAR DEGREE ATTAINMENT OF WORKING AGE ADULTS (25 TO 64) TO 55% BY 2025

Goal: 55.0%
Cumulative Degree Gap: 60,791 degree holders

Current Trend: 46.7%

Source: NCHEMS & U.S. Census Bureau, American Community Survey, 1-year estimates, 2006 to 2010
UH Degrees & Certificates of Achievement Earned

GOAL: INCREASE 3–6% PER YEAR

<table>
<thead>
<tr>
<th>Year</th>
<th>Actual</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>7,996</td>
<td>8,084</td>
</tr>
<tr>
<td>2009</td>
<td>7,835</td>
<td>8,291</td>
</tr>
<tr>
<td>2010</td>
<td></td>
<td>8,988</td>
</tr>
<tr>
<td>2011</td>
<td></td>
<td>10,507</td>
</tr>
</tbody>
</table>

EVPAA Jul 2012
Increase Student Completion

15 to Finish
Addressing Need Via Distance Education

Undergraduate Credits Taken

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Non-Distance Ed</th>
<th>Distance Ed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005-06</td>
<td>963,035</td>
<td>5.6%</td>
</tr>
<tr>
<td>2006-07</td>
<td>953,468</td>
<td>9.7%</td>
</tr>
<tr>
<td>2007-08</td>
<td>964,746</td>
<td>9.1%</td>
</tr>
<tr>
<td>2008-09</td>
<td>1,004,963</td>
<td>10.4%</td>
</tr>
<tr>
<td>2009-10</td>
<td>1,078,794</td>
<td>12.1%</td>
</tr>
<tr>
<td>2010-11</td>
<td>1,104,494</td>
<td>13.3%</td>
</tr>
<tr>
<td>2011-12</td>
<td>1,108,499</td>
<td>14.2%</td>
</tr>
</tbody>
</table>

EVPAA Jul 2012  
Source: IRAO Socad, Census
Addressing Need Via Distance Education

Number of Technology-Assisted Distance/Distributed Learning Classes by Offering Campus

- **UHM**: Fall 2008 - 135, Fall 2011 - 225
- **UHH**: Fall 2008 - 17, Fall 2011 - 40
- **UHWO**: Fall 2008 - 37, Fall 2011 - 69
- **HAW**: Fall 2008 - 80, Fall 2011 - 101
- **HON**: Fall 2008 - 49, Fall 2011 - 63
- **KAP**: Fall 2008 - 126, Fall 2011 - 174
- **KAU**: Fall 2008 - 3, Fall 2011 - 6
- **LEE**: Fall 2008 - 123, Fall 2011 - 185
- **MAU**: Fall 2008 - 46, Fall 2011 - 61
- **WIN**: Fall 2008 - 5, Fall 2011 - 40

Source: IRAO Socad, Census

EVPAA Jul 2012
Hawaiʻi Graduation Initiative

“To position the UH as one of the world’s foremost indigenous-serving universities”

Hawaiʻi Papa o Ke Ao
Degree Attainment of Native Hawaiians at UH

GOAL: INCREASE 6–9% PER YEAR

<table>
<thead>
<tr>
<th>Year</th>
<th>Actual</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>960</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>979</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>1,192</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>1,609</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>1,439</td>
<td></td>
</tr>
</tbody>
</table>

EVPAA Jul 2012
Native Hawaiian Enrollment at UH

% Native Hawaiians of UH System Enrollment

13.6%  23.2%

2001  2006  2011

EVPAA Jul 2012
Hawai‘i Graduation Initiative

“Increase student participation and completion, particularly Native Hawaiians, low-income students, and those from underserved regions”

$44m of Institutional Aid Awarded in 2010–11
UH Disbursement of Pell Grants

GOAL: INCREASE 5% PER YEAR

- Number of recipients:
  - 2008: 8,670
  - 2009: 9,766
  - 2010: 14,111
  - 2011: 17,262
  - Goal: Increase 5% per year

- Total Pell disbursed:
  - 2008: $22.7 mil
  - 2009: $28.4 mil
  - 2010: $49.0 mil
  - 2011: $61.1 mil

- Number of recipients goal:
  - 2008: 8,670
  - 2009: 9,766
  - 2010: 14,111
  - 2011: 17,262

- Total Pell disbursed goal:
  - 2008: $22.7 mil
  - 2009: $28.4 mil
  - 2010: $49.0 mil
  - 2011: $61.1 mil

EVPAA Jul 2012
Increase Student Participation

Over 14,000 students from the Classes of 2013, 2014, and 2015 STEPPED UP
Going Rates of Hawai‘i High Schools to the UH System

GOAL: INCREASE 3% PER YEAR

EVPAA Jul 2012
Hawai‘i Innovation Initiative

University of Hawai‘i Innovation Initiative
Hawai‘i Innovation Initiative

“Contribute to the state’s economy and provide a solid return on investment”
UH Extramural Fund Support

GOAL: INCREASE 3% PER YEAR

$ million


$359 $414 $452 $489

$368 $414 $452 $489 $442

Actual Goal

EVPAA Jul 2012
Goal: Build a $Billion+ Research Industry in Hawai‘i

- A vibrant economy
- High-paying jobs
- Clean, green industries
- An entrepreneurial culture
- Bring and keep our keiki home
Strengthen Our Areas of Excellence

- Astronomy/space sciences
- Ocean, earth sciences
- Health sciences
Hawai‘i Innovation Initiative

Enhance Emerging Strengths

- Clean energy
- New agriculture
- Cancer research

Build Up New Areas

- Advanced informatics and cyberinfrastructure
- Health sciences, obesity, diabetes, etc…
The Plan

• Double our research initiative over next 5–8 years

• Attract more than 50 new world-class scientists

• Form crucial relationships among private sector, state, and international partners
**Investment / Return on Investment**

- Approximately $10–12 million a year
- The ROI would be thousands of new jobs in the state, new discoveries, new supporting businesses and opportunities
UH Patents, Disclosures, & Licenses
Goal: Increase 5–15% Per Year

U.S. Patents Issued

<table>
<thead>
<tr>
<th>Year</th>
<th>FY01</th>
<th>FY06</th>
<th>FY11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td></td>
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<td>7</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>3</td>
<td>2</td>
</tr>
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</table>

Licenses/Options Signed

<table>
<thead>
<tr>
<th>Year</th>
<th>FY01</th>
<th>FY06</th>
<th>FY11</th>
</tr>
</thead>
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<tr>
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<td>15</td>
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<td>6</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1</td>
<td>9</td>
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</table>

Invention Disclosures

<table>
<thead>
<tr>
<th>Year</th>
<th>FY01</th>
<th>FY06</th>
<th>FY11</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>44</td>
<td>42</td>
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<tr>
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<td>26</td>
<td>61</td>
<td>42</td>
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<td></td>
<td>42</td>
<td>54</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>41</td>
<td>42</td>
<td>39</td>
</tr>
</tbody>
</table>
Two Initiatives That Must Succeed Together

“Address critical workforce shortages and prepare students for effective engagement and leadership”
UH Degrees in STEM Fields

GOAL: INCREASE 3–6% PER YEAR

<table>
<thead>
<tr>
<th>Year</th>
<th>Actual</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>1,633</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>1,705</td>
<td>1,733</td>
</tr>
<tr>
<td>2010</td>
<td>1,720</td>
<td>1,733</td>
</tr>
<tr>
<td>2011</td>
<td>1,963</td>
<td>2,190</td>
</tr>
<tr>
<td>2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EVPAA Jul 2012
Renovate to Innovate
Renovate to Innovate

Triple Bottom Line

• Create Hawai‘i construction jobs
• Improve facilities to compete
• Leverage funds to increase RTRF
### Renew and Expand Infrastructure

#### Major Construction Projects, 2009 to Present

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer Research Center</td>
<td>$120.0m</td>
</tr>
<tr>
<td>Edmondson Renovation</td>
<td>$15.3m</td>
</tr>
<tr>
<td>Biomedical Sciences Bldg. Court B renovation</td>
<td>$1.5m</td>
</tr>
<tr>
<td>Bilger Complex Air Conditioning System Upgrades</td>
<td>$5.7m</td>
</tr>
<tr>
<td>Institute for Astronomy, R/R HVAC Equipment</td>
<td>$2.6m</td>
</tr>
<tr>
<td>Biomedical Sciences Building, R/R HVAC Equipment</td>
<td>$2.9m</td>
</tr>
<tr>
<td>Biomedical Sciences Building, R/R Cage Washing</td>
<td>$2.9m</td>
</tr>
<tr>
<td>C-MORE</td>
<td>$21.0m</td>
</tr>
<tr>
<td>Webster Hall</td>
<td>$7.5m</td>
</tr>
</tbody>
</table>

#### Total for Major Construction Projects: $184.7m

#### Major Design Projects, 2009 to Present

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Pharmacy (UH Hilo)</td>
<td>$38.0m</td>
</tr>
<tr>
<td>Snyder Renovation</td>
<td>$40.5m</td>
</tr>
<tr>
<td>Pacific Health Research Center</td>
<td>$47.5m</td>
</tr>
</tbody>
</table>

#### Total for Major Design Projects: $126.0m
Summary

• Data reinforce priorities
• Initiatives on target
• Initiatives reinforce each other
• Need to update & extend performance measures
• 2013–2015 Biennium Budget proposal needs to support initiatives
Planning for Hawai‘i’s Future

Second Decade, 2010–2020

Office of the Executive Vice President for Academic Affairs/Provost
July 2012