

STAND. COM. REP. NO.

3079

Honolulu, Hawaii

APR - 8 2010

RE: S.R. No. 86
S.D. 1

Honorable Colleen Hanabusa
President of the Senate
Twenty-Fifth State Legislature
Regular Session of 2010
State of Hawaii

Madam:

Your Committees on Education and Housing and Economic Development and Technology and Higher Education, to which was referred S.R. No. 86 entitled:

"SENATE RESOLUTION REQUESTING A STATUS REPORT AND UPDATE ON THE STEM, RESEARCH EXPERIENCES FOR TEACHERS - MIDDLE SCHOOL, PROJECT ENVIRONMENTAL AND SPATIAL TECHNOLOGY, AND ROBOTICS PROGRAMS WITHIN PUBLIC SCHOOLS,"

beg leave to report as follows:

The purpose of this measure is to request a status report on the economic impact of expanded workforce development outcomes, and an update on the STEM, Research Experiences for Teachers - Middle School, Project Environmental and Spatial Technology, and robotics programs within public schools, with a report to the 2011 Legislature.

Testimony in support of this measure was submitted by the Department of Education; Department of Business, Economic Development, and Tourism; Women in Technology; and four individuals responsible for aspects of the STEM-related programs.

Written testimony presented to the Committees may be reviewed on the Legislature's website.

Your Committees find that the STEM initiatives launched in 2007 have been highly successful, providing expanded learning opportunities for thousands of public school students throughout the State, and involving untold numbers of private sector

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supporters and mentors. For example, participation in robotics has expanded dramatically in three years, from ninety-five programs in early 2007, to 422 programs today attracting 3,000 students in public, charter, and private schools statewide. And Project EAST, which began in a handful of neighbor island public schools, has expanded to fifteen schools statewide and served over 4,400 students from middle school through grade twelve. Even more impressive, nearly one hundred per cent of EAST participants plan to attend college, and over sixty per cent plan STEM-related majors.

Your Committees commend the agencies - both public and private - that have been instrumental in the success of these programs and believe that the reporting requested by this measure will provide the agencies and the individuals involved with an opportunity to further highlight their successes and their plans for the continued expansion of these programs.

Your Committees have amended this measure by:


- (1) Amending the title to read: "REQUESTING REPORTS ON THE ECONOMIC VALUE OF EXPANDED WORKFORCE DEVELOPMENT CAPACITY AND STEM INITIATIVES";
- (2) Clarifying that the Department of Business, Economic Development, and Tourism report on the growth and economic value of emerging industries in defense and dual-use, astronomy, engineering, aquaculture, biotech, digital media, and related industries, in addition to its report on STEM initiatives;
- (3) Adding Hi-EST and FIRST academies to the program reports;
- (4) Requiring written reports, including recommendations for long-term expansion and funding requirements; and
- (5) Making technical amendments for the purposes of clarity and consistency.

As affirmed by the records of votes of the members of your Committees on Education and Housing and Economic Development and Technology and Higher Education that are attached to this report, your Committees concur with the intent and purpose of S.R. No. 86,




as amended herein, and recommend its adoption in the form attached hereto as S.R. No. 86, S.D. 1.

Respectfully submitted on behalf of the members of the Committees on Education and Housing and Economic Development and Technology and Higher Education,


CAROL FUKUNAGA, Chair


NORMAN SAKAMOTO, Chair


JILL TOKUDA, Chair



The Senate
 Twenty-Fifth Legislature
 State of Hawaii

Record of Votes
Committee on Education and Housing
EDH

| | | |
|--|---|-------------------------|
| Bill / Resolution No.:* <i>SR 810</i> | Committee Referral: <i>EDH/EDT/HRE</i> | Date: <i>3-31-10</i> |
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The committee is reconsidering its previous decision on this measure.
 If so, then the previous decision was to: _____

The Recommendation is:

| | | | |
|--|---|---------------------------------------|---|
| <input type="checkbox"/> Pass, unamended 2312 | <input checked="" type="checkbox"/> Pass, with amendments 2311 | <input type="checkbox"/> Hold 2310 | <input type="checkbox"/> Recommit 2313 |
|--|---|---------------------------------------|---|

| Members | Aye | Aye (WR) | Nay | Excused |
|--------------------------|----------|----------|-----|----------|
| SAKAMOTO, Norman (C) | ✓ | | | |
| KIDANI, Michelle N. (VC) | ✓ | | | |
| CHUN OAKLAND, Suzanne | ✓ | | | |
| GALUTERIA, Brickwood | ✓ | | | |
| TSUTSUI, Shan S. | | | | ✓ |
| HEMMINGS, Fred | | | | ✓ |
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| TOTAL | <i>4</i> | | | <i>2</i> |

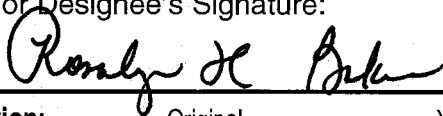
Recommendation: Adopted Not Adopted

Chair's or Designee's Signature: *Michelle N. Kidani*

Distribution: Original Yellow Pink Goldenrod
 File with Committee Report Clerk's Office Drafting Agency Committee File Copy

The Senate
Twenty-Fifth Legislature
State of Hawaii

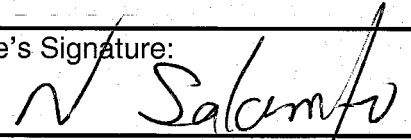
Record of Votes
Committee on Economic Development and Technology
EDT

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|--|---|---------------------------|----------|----------|
| Bill / Resolution No.:* <i>SR 86</i> | Committee Referral: <i>ED4/EDT/HRE</i> | Date: <i>3-31-2010</i> | | |
| <input type="checkbox"/> The committee is reconsidering its previous decision on this measure. If so, then the previous decision was to: _____ | | | | |
| The Recommendation is: <input type="checkbox"/> Pass, unamended 2312 <input checked="" type="checkbox"/> Pass, with amendments 2311 <input type="checkbox"/> Hold 2310 <input type="checkbox"/> Recommit 2313 | | | | |
| Members | Aye | Aye (WR) | Nay | Excused |
| FUKUNAGA, Carol (C) | ✓ | | | |
| BAKER, Rosalyn H. (VC) | ✓ | | | |
| HEE, Clayton | | | | ✓ |
| IGE, David Y. | ✓ | | | |
| SLOM, Sam | ✓ | | | |
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| TOTAL | 4 | - | - | 1 |
| Recommendation: <input checked="" type="checkbox"/> Adopted <input type="checkbox"/> Not Adopted | | | | |
| Chair's or Designee's Signature:  | | | | |
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*Only one measure per Record of Votes

The Senate
Twenty-Fifth Legislature
State of Hawaii

Record of Votes
Committee on Higher Education
HRE

| | | | | |
|--|---|-------------------------|----------|----------|
| Bill/ Resolution No.:* SR 86 | Committee Referral: EDH/EDT/HRE | Date: 3/31/10 | | |
| <input type="checkbox"/> The committee is reconsidering its previous decision on this measure. If so, then the previous decision was to: _____ | | | | |
| The Recommendation is: <input type="checkbox"/> Pass, unamended 2312 <input checked="" type="checkbox"/> Pass, with amendments 2311 <input type="checkbox"/> Hold 2310 <input type="checkbox"/> Recommit 2313 | | | | |
| Members | Aye | Aye (WR) | Nay | Excused |
| TOKUDA, Jill N. (C) | ✓ | | | |
| SAKAMOTO, Norman (VC) | ✓ | | | |
| BAKER, Rosalyn H. | ✓ | | | |
| KOKUBUN, Russell S. | ✓ | | | |
| TANIGUCHI, Brian T. | | | | ✓ |
| TAKAMINE, Dwight Y. | ✓ | | | |
| SLOM, Sam | ✓ | | | |
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| TOTAL | 6 | - | - | 1 |
| Recommendation: <input checked="" type="checkbox"/> Adopted <input type="checkbox"/> Not Adopted | | | | |
| Chair's or Designee's Signature: <div style="text-align: center; font-size: 1.5em;">  </div> | | | | |
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*Only one measure per Record of Votes