THE UH AND USA FUNDS PARTNERSHIP: BUILDING HAWAI‘I’S INNOVATION ECONOMY & WORKFORCE

Presented to the Joint CCAO & CSAO Meeting
December 11, 2015
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Overview

- Industry Sector Strategies
- Innovative Workforce Program
- STEM Education Pathways
- Improving Data Capability
Government

Higher Education

Innovation Sector Strategies

Workforce

Future job needs: biotech, cybersecurity, energy, etc.

Current job needs: IT, engineering, etc.

STEM Center of Excellence

STEM Education/Pathways
- Biological Sciences
- Physical Sciences
- Engineering
- Information & Communications Technology

Alignment with K-12 Standards
Alignment with STEM Curriculum & Activities
Creation of STEM Network for Broader Impact

Innovative Workforce Program
- STEM Practical Skills
- Workforce Ready ("Soft") Skills

Data

12/11/2015
Innovation Sector Strategies

Goal: Partner with state government and business sector to prioritize STEM industries and develop sector strategies

Deliverables:

(1) Active engagement in the statewide Comprehensive Economic Development Strategy process

(2) Create industry panels to develop sector strategies for workforce development
Innovative Workforce Program

Goal: Develop Industry Sector Strategies for STEM-related industries in collaboration with business/industry and create short term workforce programs that offer cutting-edge, just-in-time expertise.

Deliverables:

1) Develop industry sector strategies by county for STEM related industries.
2) Develop 12 high priority industry strategic plans, 3 per county for STEM related industries.
3) Using data and industry groups to identify Hawai‘i’s immediate workforce training needs based on skills and develop short-term incumbent worker and training programs.
4) Develop one new innovative workforce training solution per year per industry (60 total training 3,200 students over five years)
STEM Education Pathways

Goal: Create and strengthen STEM education pathways aligned with industry needs.

Deliverables:

(1) Establish a STEM pathways collaboration to align high school dual credit programs to UH including summer bridge programs

(2) Establish a STEM Network to create a strategy to blend education, research and workforce development STEM related activities and to promote STEM education outreach.

(3) Annual STEMFEST for students, faculty and corporate partners to promote STEM education
Building a Successful STEM Pathways with Purpose

- Make it part of a Strategic Plan
- Identify academic and intermediate goals
- Incorporate the institutions promising practices
- Employ descriptive, predictive, non-cognitive analytics
- Include student support services
- Provide entrance and exit points to the workforce
Improving Data Capability

Goal: Acquisition of data and tools to transform existing data systems to integrate and visualize data on student and workforce outcomes.

Deliverables:

1) Prepare analysis of UH graduates that work in other states and an analysis of Hawai‘i high school students who go to the universities in other states and their work patterns through the WICHE multi-state project

2) Create reports using new reporting tool and websites using labor market forecasting data and Unemployment Insurance and UH data to give students the workforce information they need when selecting majors

3) Create system to enable programs to better track on-time completion progress of students through their designated pathways particularly in STEM fields