Global Outreach and Extended Education

Overview – ASU Activities in Vietnam

May 2015

IRA A. FULTON SCHOOLS OF engineering
ARIZONA STATE UNIVERSITY

Overview:

Background Information

HEEAP began in 2010 as a co-investment between USAID, Intel, and ASU.
HIGHER ENGINEERING
HEEAP
EDUCATION ALLIANCE
ASU
Vietnam

In 2012 Intel agreed to contribute $7 million to extend HEEAP through 2017

Funding Partners

USAID FROM THE AMERICAN PEOPLE

PEARSON

intel

NATIONAL INSTRUMENTS

DANAHER

SHTP SAIGON HI-TECH PARK

ASU IRA A. FULTON SCHOOLS OF engineering ARIZONA STATE UNIVERSITY

cadence

SIEMENS

HEEAP launched the next five--year phase with an investment of $20M commitments from USAID, Intel, National Instruments, Pearson and others to develop capacity for international accreditation at five technical universities.

Academic Partners

HEEAP represents an **expanding industry consortium** that remains committed to transforming and modernizing top engineering and technical vocational universities in Vietnam.

Overview of ASU Activities in Vietnam

- Capacity Building
- Quality Assurance
- Technology Solutions
- Academic-Government-Industry Partnerships
- Academic Fellowships

Capacity Building:

Faculty Development

Over 1500 Vietnamese Engineering Faculty Trained through HEEAP workshops

US-Based Summer Institutes

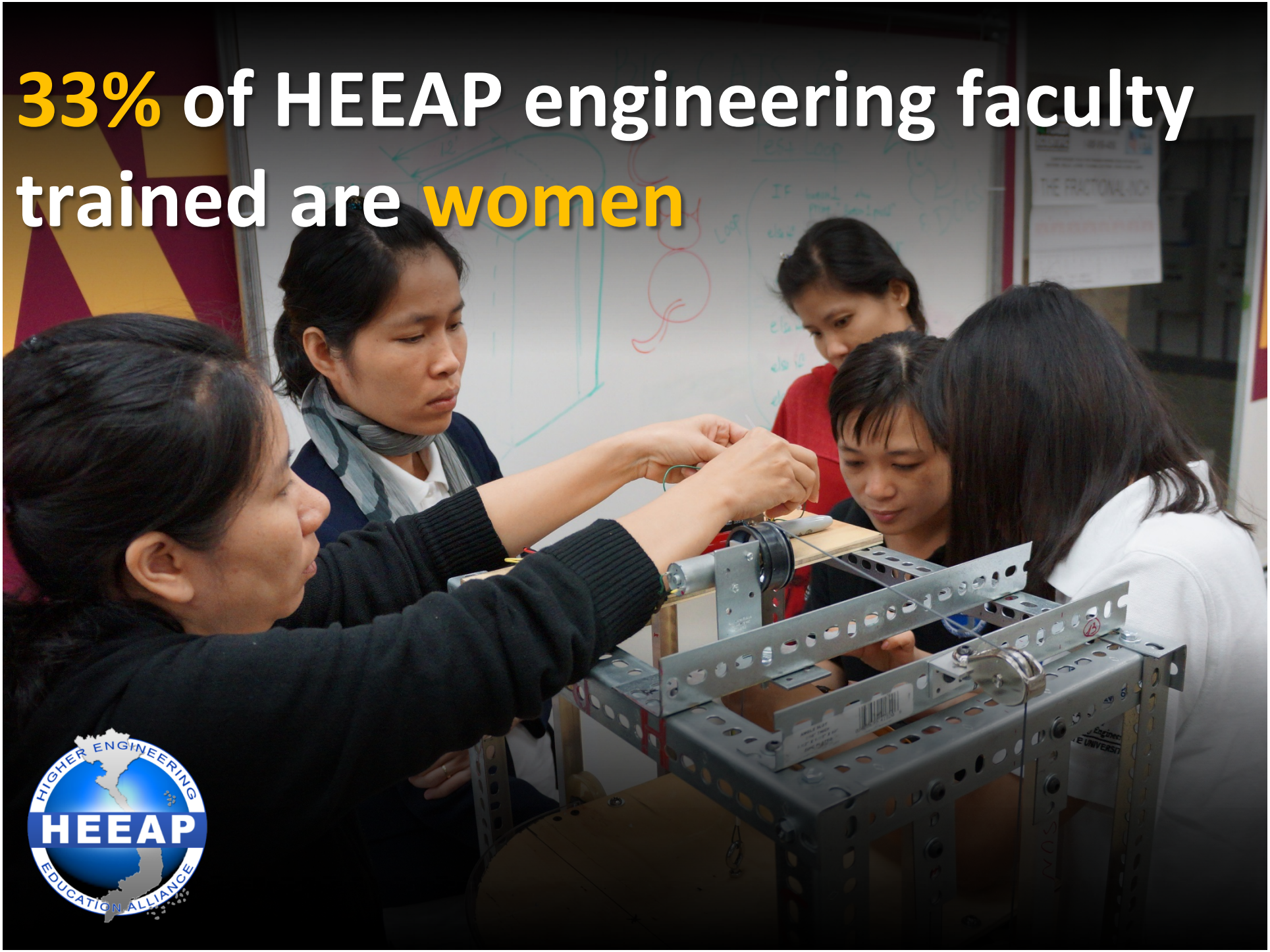
A total of 246 Vietnamese HEEAP faculty cohorts have been trained in four--week or six--week programs at ASU since 2010

In 2015, three cohorts of 25 faculty are scheduled for May, July and September.

In-Country Workshops

HEEAP has held 5 week-long workshops, spanning northern to southern Vietnam and training over 400 faculty in advanced innovative instructional methods and classroom assessment techniques.

ASU is planning an additional in-country workshop in July 2015


33% of HEEAP engineering faculty trained are women
HIGHER ENGINEERING
HEEAP
EDUCATION ALLIANCE

In March 2015, HEEAP led the third annual Vietnam Engineering Education Conference (VEEC) in Da Nang, with over 270 participants from universities--industry-government

ASU President, Dr. Michael Crow signed an MOU with the Ministry of Information and Communications to launch bi-lateral collaborations in Cyber security and Information Assurance.

ASU is developing a partnership with Posts and Telecommunications Institute of Technology (PTIT) to deliver an MS in Computer Science with a concentration in Information Assurance.

The delivery will utilize faculty from both PTIT and ASU and will allow for hybrid instructional models for students completing the full program in Vietnam, or completing their final semester in the U.S.

Quality Assurance:

Leadership Development , International Accreditation

In August 2012, USAID contributed $2.4 million for the Vocational and University Leadership Innovation Institute (VULII) project

VULII provides workshops and support to ministry officials and university leaders with their strategic planning and implementation.

VULII contributes directly to Vietnam's national goal of increasing the quality of higher education.

ABET Accreditation

In November 2014, the Ho Chi Minh City University of Technology (HCMUT), became the first university in Vietnam to be accredited by the Accreditation Board for Engineering and Technology (ABET) in the fields of computer science and computer engineering.

HEEAP & VULII have been supporting the academic partners to obtain ABET accreditation by providing workshops and practice evaluations.

Technology Solutions:

Distance Learning, Scorecards

LMS and ERP Systems

Digital Classrooms

The University of Technology and Education (UTE) in Ho Chi Minh City, launched a new distance learning (DL) classroom equipped with the latest technology in videoconferencing and collaboration software and hardware.

UTE's DL Classroom, supported by ASU and the HEEAP alliance partners, will allow UTE to connect with universities around the world to create an interactive channel between faculty and students.

These type of global interactions are aimed at increasing the competitiveness of UTE graduates by preparing them with crucial skills needed in today's workforce

ASU is working with the World Bank to introduce Enterprise Resource Planning (ERP) systems to higher ed. institutions in Vietnam

ERP systems will provide more meaningful data and reporting capabilities, to better measure performance and make data driven decisions.

ASU guides and supports the leadership of HEEAP partner institutions with the development of web-based "scorecards" in order to monitor progress on key strategic priorities identified by the rectors.

Several institutions are preparing to pilot data warehouse and dashboard systems to improve internal data driven decisions

In Partnership with Pearson, HEEAP is assisting with the creation of a Learning Management System (LMS) at the partner schools to launch eLearning initiatives.

Creating Synergy:

Academic-Government-Industry Partnerships

Objectives:

1. Strengthen innovation policies **2. Strengthen institutional capacity** **3. Private sector-university collaboration**

solution round-tables

Industry + Academia + Government

- **Workforce**
  - Needs Analysis & Forecasting
  - Critical Competencies & Job Classifications
  - Ethnic, Gender & Socioeconomic Diversity
  - Development Channels
- **Quality**
  - Regional & International Accreditation
  - Program Assessment
  - Student Learning Outcomes
  - MOET Accreditation Institutes
- **Curriculum**
  - Maker Innovation Labs
  - STEM, Sustainability Certificates
  - MOOC Exchange
  - STEM Projects
  - Social Entrepreneurship
  - Community Engagement
- **Faculty Innovation**
  - Certified Facilitator Training
  - Active Learning Methods
  - Project-based Instruction
  - Technical Communications
  - E-Learning
- **Technology**
  - Learning Management Systems
  - Open Education Resources
  - Campus Management System
  - Dashboards & Scorecards
  - Enterprise Resource Planning Systems

Institutional Policy

- University Leadership Policy
- Research, Publication & Intellectual Policy
- Industry Collaboration
- Institutional & Financial Planning, Quality & Integrity
- Personnel Policy
- Student Population, Recruitment & Access Policies

Higher Education Learning and Innovation Exchange (HELIX)

Maker Innovation Labs: Hanoi, Danang, Ho Chi Minh City, Can Tho

Industry

University

Government

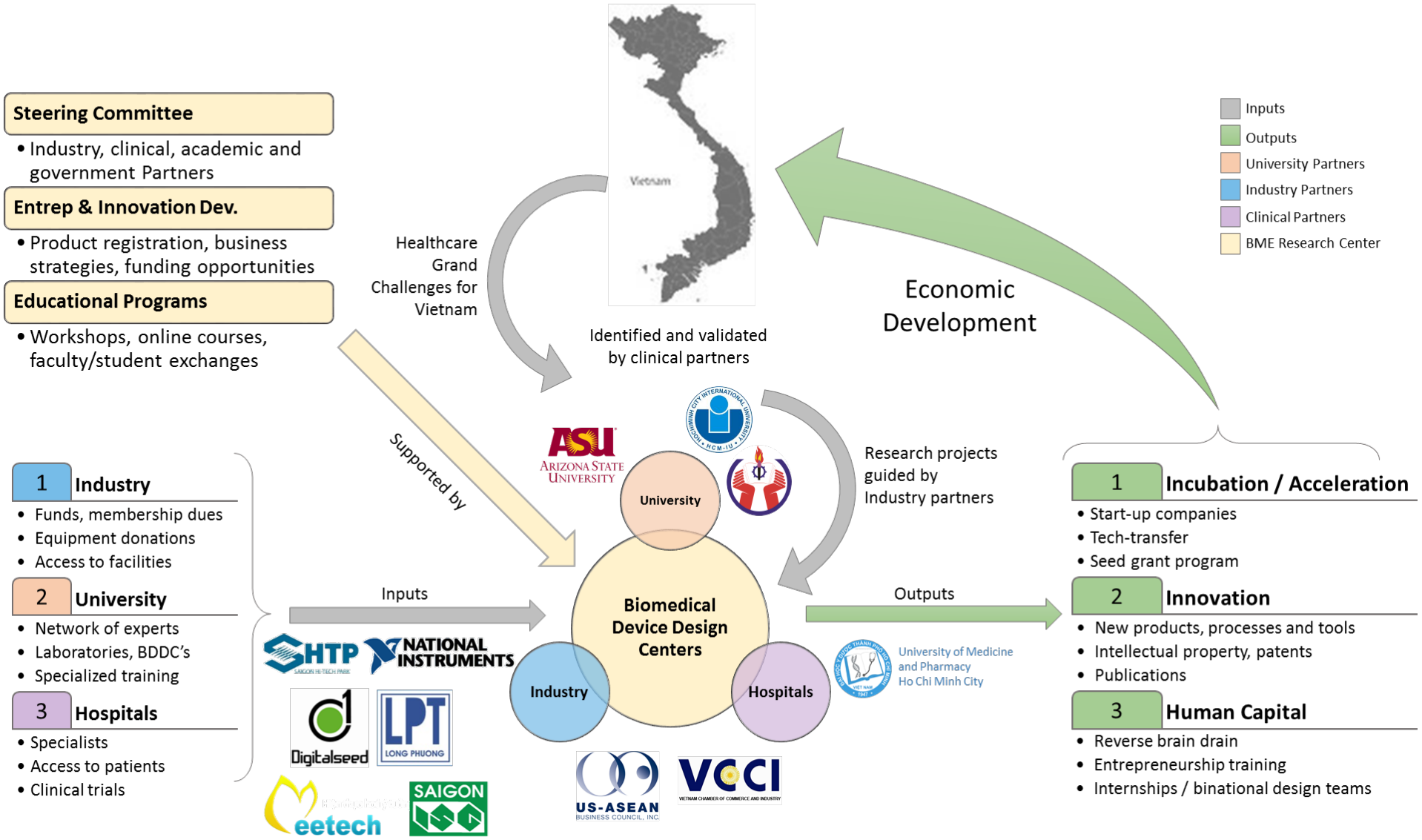
Review & Evaluation

- Public-private solutions round-tables
- Resource repository & collaboration forum
- Accessible maker innovation labs
- Accreditation training & support
- Certified Facilitator Training for faculty development

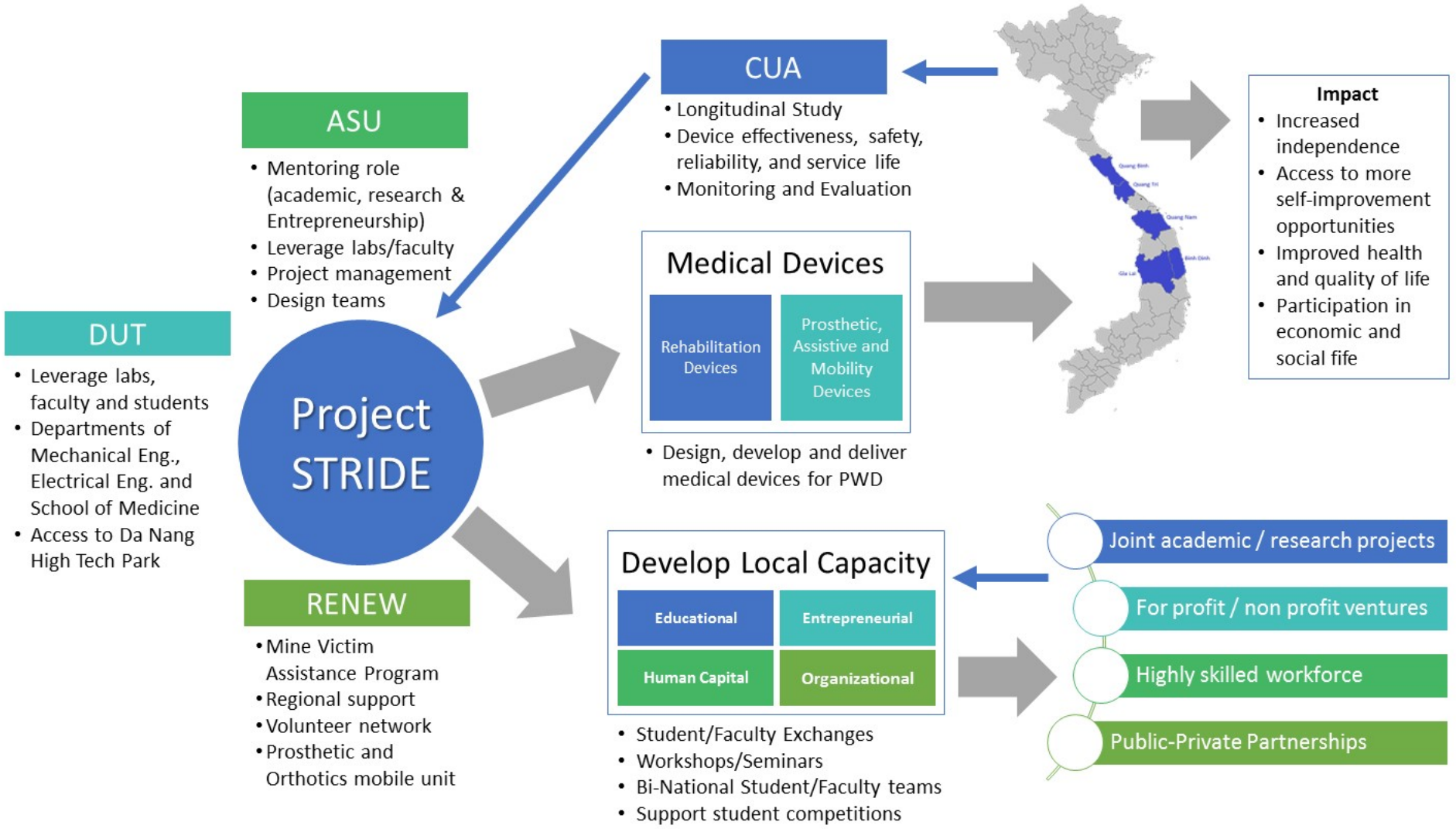
Inputs **Outputs**

BioMedical Engineering Device Innovation Consortium (bioMEDIC)

Collaborative Structure



Striving Towards the Rehabilitation of Individuals with Disabilities through Engineering



Academic Fellowships:

Undergraduate, Master's and Ph.D. degrees

Since 2012, a total of 327 female students from 13 universities and vocational colleges have been awarded this scholarship valued at VND $6.5 Million per student per year.

Advancing Women in Engineering Fellowship covers the cost of one year of tuition and a living stipend to complete a master's degree in either electrical or mechanical eng. at ASU

Project 911 - Vietnam International Education Department (VIED) Fellowships provides financial assistance to complete a four-year PhD in Engineering at ASU.

ASU Representative Office

SAIGON HI-TECH PARK

The Saigon Hi-Tech Park (SHTP) is a park for high technology enterprises located 15 km from downtown Ho Chi Minh City. The park covers an area of 326 ha (95% utilized).

This park was aimed at promoting Ho Chi Minh City and Vietnam as a hi-tech investor friendly destination. The new phase is focusing on education, bio-technology, start-up incubators, training centers, software, R&D, telecom.

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