

TROPICAL PLANT CURRICULUM PROJECT








**USAID**  
DARI RAKYAT AMERIKA


**TROPICAL PLANT CURRICULUM (TPC) PROJECT**

*Supporting Universities to Partner Across the Pacific*  
U.S. Agency for International Development

Sam Ratulangi-University-Manado  
Udayana -University-Denpasar  
Bogor Agricultural University- Bogor  
Texas A&M University



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TROPICAL PLANT CURRICULUM (TPC) PROJECT

**PROJECT DIRECTOR:** Dr. Tim D. Davis, Professor and Head, Department of Horticultural Sciences, Texas A&M University, College Station, Texas.

**PROJECT ADVISOR:** EDWIN CHAPPELL PRICE Associate Vice Chancellor and Director of the Norman Borlaug Institute for International Agriculture, Professor of Agricultural Economics, Texas A&M University

- Official starting date : May 2011
- End November 2013



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TROPICAL PLANT CURRICULUM (TPC) PROJECT

**MAIN ACTIVITIES;**

- Curriculum: Enrichment of Courses
- Researchs
- Extensions
- Commercializations

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**Objective & Expected Outcomes**

Objective1

Objective2

Objective3

Objective4

To strengthen cooperation between Indonesian universities and TAMUS faculty to establish university curricula in environmental sciences, especially related to biodiversity, that are strong in science and having demonstrable practical application for economic benefit, food security, and environmental conservation:



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## Objective & Expected Outcomes

Objective1 → Objective2 → Objective3 → Objective4

**Expected Outcomes??**



- Courses developed and/or syllabi shared among Institut Pertanian Bogor, Universitas Udayana, and Universitas Sam Ratulangi by year 3 in the following areas: tropical forest plants, economics of biodiversity and food security, regulation of forests and rights to plant genetics, analysis of plant compounds for health, plant geography in Indonesia, and processing and marketing tropical plant products; and
- At least one hundred (100) students per university enrolled in a biodiversity course at Institut Pertanian Bogor, Universitas Udayana, and Universitas Sam Ratulangi by year 3 (for a total of at least three hundred (300) students).

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## Objective & Expected Outcomes

Objective1 → Objective2 → Objective3 → Objective4

To establish cooperative research leading to the identification of previously unutilized plant-derived compounds that are of benefit to human and animal health, and of economic benefit to local communities cultivating the resource plant materials, while protecting wild plant and animal populations:

Daun salam  
(*Eugenia polyantha* Wight)


**Expected Outcomes??**

- Cultivation practices developed for nine (9) wild plants by the end of year 3 (about three each at Institut Pertanian Bogor, Universitas Udayana, and Universitas Sam Ratulangi, respectively).

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## Objective & Expected Outcomes

Objective1 → Objective2 → Objective3 → Objective4





To establish university-led community education programs that lead to a broad popular understanding of the need and ways to conserve natural resources as a path to assuring the health and welfare of future generations of Indonesians and fellow humanity

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## Objective & Expected Outcomes

Objective1 → Objective2 → Objective3 → Objective4

Gedi  
(*Abelmoschus manihot* L)

**Expected Outcomes ??**

- Fifteen hundred (1,500) community members trained in biodiversity by the end of year 3 (about five hundred (500) each through Institut Pertanian Bogor, Universitas Udayana and Universitas Sam Ratulangi)

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## Objective & Expected Outcomes

Objective1   Objective2   Objective3   Objective4





**Katuk (*Sauropus androgynus*)**

To increase jobs, incomes, productivity and product quality in enterprises based upon underutilized and little known plants, while conserving and protecting biodiversity

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## Objective & Expected Outcomes

Objective1   Objective2   Objective3   Objective4

**Takokak (local name)/Turkey berry (*Solanum torvum* Sw)**

**Expected Outcomes??**

- Fifteen (15) such entrepreneurs will operate by the end of year 3 (about five (5) in the regions of Institut Pertanian Bogor, Universitas Udayana, and Universitas Sam Ratulangi, respectively)



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**SUSTAINABILITY?**

**Curriculum: Focus on course enrichment**

- Identification and development of existing curriculum and course content at each university, associated with tropical plant (underutilized plants)
- Development of shared course/topics, and
- All modules will be uploaded to Distance Education (SEAFast : <http://de.seafast.ipb.ac.id/login.html>)

**Community extension**

- Involving Vocational High School for Agriculture

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**Terima kasih**  
*Thank you*