

## Sustainable Management of Agricultural Research and Technology Dissemination (SMARTD) (P117243)

EAST ASIA AND PACIFIC | Indonesia | Agriculture Global Practice |  
 IBRD/IDA | Specific Investment Loan | FY 2013 | Seq No: 9 | ARCHIVED on 12-Dec-2016 | ISR25531 |

Implementing Agencies: IAARD - SMARTD

### Key Dates

#### Key Project Dates

Bank Approval Date:02-Aug-2012

Effectiveness Date:25-Oct-2012

Planned Mid Term Review Date:04-May-2015

Actual Mid-Term Review Date:28-Mar-2015

Original Closing Date:30-Sep-2017

Revised Closing Date:30-Jun-2019

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The objective of the Project is to improve the institutional capacity and performance of the Indonesian Agency for Agricultural Research and Development (IAARD) to develop and disseminate relevant and demand-driven innovative technologies, meeting the needs of producers and of the agri-food system.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components

Name

Development and Management of Human Resources:(Cost \$40.00 M)

Improvement in Research Infrastructure and Facilities:(Cost \$35.00 M)

Research Management and Policy Support:(Cost \$15.00 M)

Project Management and Monitoring and Evaluation:(Cost \$10.00 M)

### Overall Ratings

| Name                                 | Previous Rating           | Current Rating            |
|--------------------------------------|---------------------------|---------------------------|
| Progress towards achievement of PDO  | ● Moderately Satisfactory | ● Moderately Satisfactory |
| Overall Implementation Progress (IP) | ● Moderately Satisfactory | ● Satisfactory            |
| Overall Risk Rating                  | ● Substantial             | ● Substantial             |

## Implementation Status and Key Decisions

The SMARTD Project has clearly demonstrated that it has the necessary mechanisms and overall management and monitoring and evaluation (M&E) capabilities in place to ensure efficient and effective implementation and was recently upgraded based on its satisfactory performance. The Project has reached several key intermediary milestones reflecting positive implementation progress. Following are some of those physical progress highlights. The project has contributed strongly to the improvement of the national agricultural innovation system, in particular in the public sector research and innovation capacity. The project has an ongoing human resource development engagement and has already enabled 60 researchers (out of an end of project target of 74) of the Indonesian Agency for Agricultural Research and Dissemination (IAARD) system and attached to various IAARD Agencies nationwide to pursue a Master's degree. In addition SMARTD has provided funding for 36 researchers to pursue a PhD degree (out of a target of 76) in a number of critical disciplines of agriculture, which are essential for the agricultural modernization process. Fifteen researchers from a range of different research agencies of IAARD are also participating in cutting edge skills upgrading via postdoctoral training. Through the project several laboratory infrastructure has been upgraded, accredited by scope and function, and the staff has been trained to provide up-to-date services to the farmers and other service solicitors, e.g., the completed laboratory construction for Nano technology of the Indonesia Center for Agriculture Post Harvest Technology Research Development (ICAPOSTRD) is now completed and fully functional. The Competitive Research Grants for collaborative research activities funded under SMARTD project (valued at about \$3.24m) have been implemented successfully. Several other Research grant projects and international collaborative programs are in implementation. An assessment on technology adoption conducted in collaboration with IAARD in 11 provinces indicates that 42 technologies have been disseminated and are being applied by farmers surrounding the technology demonstration sites. In addition, the Project web page is online and provides a valuable source of knowledge sharing and technology dissemination related to both project specific activities and collaborative research supported by the SMARTD project. Implementation support from the Bank team includes participation in Monthly meetings organized by the Project Management Unit (PMU); specific capacity building events organized on demand by implementing agencies of IAARD as well as the PMU; and biannual Implementation Support missions. Next Project implementation mission will be in April 2017 (date to be confirmed) where the SMARTD implementation status will be further reviewed.

## Risks

### Systematic Operations Risk-rating Tool

| Risk Category  | Rating at Approval | Previous Rating | Current Rating |
|--|--------------------|-----------------|----------------|
| Political and Governance                                     | --                 | ● Moderate      | ● Moderate     |
| Macroeconomic  | --                 | ● Moderate      | ● Moderate     |
| Sector Strategies and Policies                               | --                 | ● Substantial   | ● Substantial  |
| Technical Design of Project or Program                       | --                 | ● Moderate      | ● Moderate     |
| Institutional Capacity for Implementation and Sustainability | --                 | ● Substantial   | ● Substantial  |
| Fiduciary  | --                 | ● Moderate      | ● Moderate     |

|                        |    |               |               |
|------------------------|----|---------------|---------------|
| Environment and Social | -- | ● Low         | ● Low         |
| Stakeholders           | -- | ● Low         | ● Low         |
| Other                  | -- | --            | --            |
| Overall                | -- | ● Substantial | ● Substantial |

## Results

### Project Development Objective Indicators

#### ► Clients who have adopted an improved agr. technology promoted by the project (Number, Core)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 30.00       | 52.00             | 57.00            | 50.00       |
| Date  | 01-Jul-2012 | 31-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

#### Comments

The data analysis is on-going and will be available by the end of 2016.

#### ▲ Clients who adopted an improved agr. technology promoted by project – female (Number, Core Breakdown)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 1.00        | 3.40              | 5.11             | 12.00       |
| Date  | 24-May-2013 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

#### ► Technologies demonstrated in the project areas (number) (Number, Core)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 32.00       | 52.00             | 57.00            | 72.00       |
| Date  | 01-Jul-2012 | 31-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

#### ► Publications in international peer reviewed journals (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 9.00        | 514.00            | 536.00           | 41.00       |
| Date  | 01-Jul-2012 | 31-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► External Funding (Percentage, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 3.80        | 0.35              | 0.19             | 12.50       |
| Date  | 01-Jul-2012 | 31-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

Overall Comments

**Intermediate Results Indicators**

► percentage of IAARD staff that are researchers (Percentage, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 25.23       | 24.38             | 24.95            | 33.00       |
| Date  | 01-Jul-2012 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► IAARD Researchers with MSc and/or PhD (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 1161.00     | 1156.00           | 1140.00          | 1624.00     |
| Date  | 30-Oct-2013 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► IAARD Budget devoted to research (Percentage, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 26.12       | 100.00            | 100.00           | 100.00      |
| Date  | 01-Jul-2012 | 30-Sep-2015       | 17-Oct-2016      | 28-Jun-2019 |

► number of laboratories supported under SMARTD accredited nationally and internationally (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 15.00       | 15.00             | 22.00            | 21.00       |
| Date  | 30-Oct-2013 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► Number of Experimental Stations supported under SMARTD accredited nationally and internationally. (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00        | 0.00              | 0.00             | 8.00        |
| Date  | 01-Jul-2012 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► Number of laboratories supported under SMARTD involved in international research networking (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00        | 5.00              | 5.00             | 10.00       |
| Date  | 01-Jul-2012 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► Collaborative research/extension sub-projects under implementation/completed (Number, Core)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 181.00      | 565.00            | 713.00           | 668.00      |
| Date  | 01-Jul-2012 | 31-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

▲ Collaborative research or extension sub-projects - under implementation (Number, Core Breakdown)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 181.00      | 218.00            | 218.00           | 200.00      |
| Date  | 01-Jul-2012 | 30-Dec-2015       | 30-Dec-2015      | 28-Jun-2019 |

▲ Collaborative research or extension sub-projects - completed (number) (Number, Core Breakdown)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00        | 347.00            | 447.00           | 300.00      |
| Date  | 01-Jul-2012 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

► Patents and Licences (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 29.00       | 100.00            | 112.00           | 37.00       |
| Date  | 01-Jul-2012 | 31-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |


► Dissemination area (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 1.00        | 13.00             | 13.00            | 1.40        |
| Date  | 01-Jul-2012 | 30-Dec-2015       | 17-Oct-2016      | 28-Jun-2019 |

## Overall Comments

### Data on Financial Performance

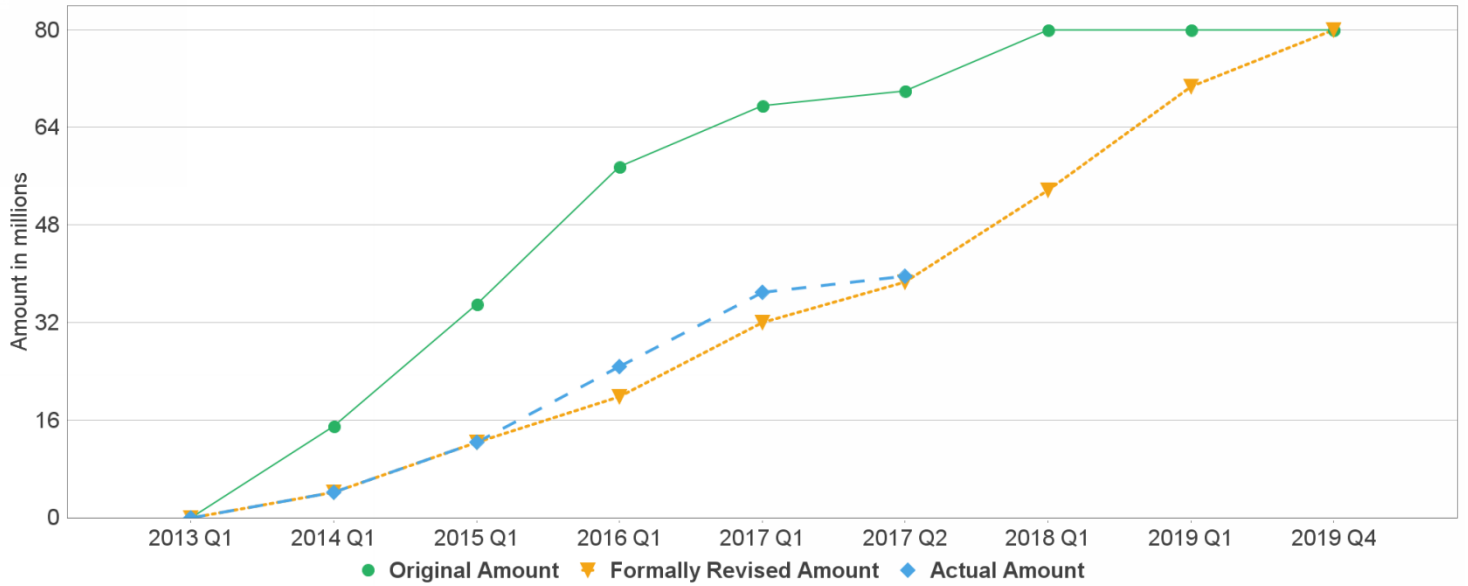
#### Disbursements (by loan)

| Project | Loan/Credit/TF | Status    | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | Disbursed   |
|---------|----------------|-----------|----------|----------|---------|-----------|-----------|-------------|---|
| P117243 | IBRD-81880     | Effective | USD      | 80.00    | 80.00   | 0.00      | 39.53     | 40.47       |  49% |

#### Key Dates (by loan)

| Project | Loan/Credit/TF | Status    | Approval Date | Signing Date | Effectiveness Date | Orig. Closing Date | Rev. Closing Date |
|---------|----------------|-----------|---------------|--------------|--------------------|--------------------|-------------------|
| P117243 | IBRD-81880     | Effective | 02-Aug-2012   | 12-Sep-2012  | 25-Oct-2012        | 30-Sep-2017        | 30-Jun-2019       |

#### Cumulative Disbursements



## Restructuring History

Level 2 Approved on 09-Jun-2016

## Related Project(s)

There are no related projects.