



## Platform of Monitoring and Warning of Forest Fires in the Cerrado (P149189)

LATIN AMERICA AND CARIBBEAN | Brazil | Environment & Natural Resources Global Practice |  
Recipient Executed Activities | Investment Project Financing | FY 2015 | Seq No: 1 | ARCHIVED on 01-Mar-2016 | ISR22420 |

Implementing Agencies: Instituto Nacional de Pesquisas Espaciais - INPE

### Key Dates

#### Key Project Dates

Bank Approval Date:15-Dec-2014

Effectiveness Date:09-Mar-2015

Original Closing Date:31-Dec-2017

Revised Closing Date:31-Dec-2017

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project's main objective is to facilitate the monitoring, analysis and early detection of forest fires by using the TERRA-MA<sup>2</sup>-Queimadas to support decision making among environmental managers in the *Cerrado Biome*.

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

No

### Components

Name

### Overall Ratings

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

### Implementation Status and Key Decisions

Launched in September 2010 and updated in 2014, the Action Plan to Prevent and Control Deforestation in the Cerrado Biome (PPCerrado) aims to promote sustained reduction in the rate of deforestation and forest degradation, as well as in the incidence of fires and forest fires in this biome. The PPCerrado is one of the main pillars of the Brazilian Federal Government's ongoing strategy to reduce greenhouse gas (GHG) emissions from deforestation and forest degradation. As part of the National Policy on Climate Change, the Cerrado centralizes the strategies to fulfill the 40 percent deforestation reduction target in the biome.

In addition to this plan, the Forest Code (Law 12.651, May 2012) is considered the most important land-use regulation in the country, given its



national scope and the constraints it imposes on private landholdings for the purpose of protecting public goods such as forests and other vegetation. The code requires landholders to conserve the most fragile areas of their landholding such as riparian forests, steep slopes, mountain tops, etc. (Areas of Permanent Preservation – APP), with an additional obligation to ensure that part of the original native vegetation is maintained (Legal Reserves –RL).

In this context, launched in 2012, the Brazil Cerrado Climate Change Mitigation Trust Fund (BCCMTF) has been supporting activities and projects under a two-pronged approach: (i) promotion of farmers' compliance with the Brazilian Forest Code, based on strengthening the monitoring and enforcement of mandatory environmental reserve requirements through environmental registration of rural properties; and (ii) promotion of controlled burning, prevention of forest fires, replacement of burning with more sustainable agricultural practices, and strengthened firefighting capacity. The total amount of the BCCMTF is £10,000,000 (Ten million British Pound Sterling).

To date, the BCCMTF comprises the following Projects, all under implementation:

1. **Rural Environmental Cadastre and Fire Prevention in Bahia Project, implemented by the Bahia State Secretariat of Environment (SEMA-BA).** The project's main activities are to: (i) assist rural landholders to bring their lands into compliance with the Forest Code by implementing the CAR (in the State of Bahia, the system is called CEFIR [*Catastro Estadual Florestal de Imóveis Rurais*/State Forestry Cadastre of Rural Properties], developed by the State as a broader system than the CAR and covering other environmental aspects); (ii) promote sustainable productive activities; and (iii) strengthen municipal governments' capacity to prevent and control forest fires. The Grant Agreement was signed on September 12, 2014.
2. **Rural Environmental Cadastre and Fire Prevention in Piauí Project, implemented by the Secretariat of Environment and Water Resources in Piauí.** The project's main activities are to (i) assist rural landholders to bring their lands into compliance with the Forest Code by implementing the CAR; (ii) promote sustainable productive activities; and (iii) strengthen municipal governments' capacities to prevent and control forest fires. The Grant Agreement was signed on April 8, 2014.
3. **Platform of Monitoring and Warning of Forest Fires in the Brazilian Cerrado Project, coordinated by National Institute of Spatial Research (*Instituto Nacional de Pesquisas Espaciais, INPE*).** The project's objective is to develop a system to monitor and analyze forest fires and produce fire alerts in priority States of the Cerrado Biome as a pilot system. The Project includes a reconfiguration of the structure of INPE's Burning System, both internally in INPE as well as in users' Internet access, by adapting the system to the state of the art in remote sensing, geoprocessing, information technology, and decision intelligence. Project preparation is ongoing. This project will complement the implementation of an Early-Warning System Preventing Forest Fires and a System for Monitoring the Vegetation Cover Project, under the Brazil Investment Plan (BIP), funded by the Forest Investment Program (FIP). The Grant Agreement was declared Effective on March 9, 2015.
4. **ProCerrado Federal Project,** coordinated by the Department of Policies to Combat Deforestation of the Ministry of Environment, in partnership with its operational agencies. The project's main activity will be to build capacity in federal agencies to coordinate and execute actions to reduce deforestation and fires in the Brazilian Cerrado. The project will support the PPCerrado's coordination unit, the development of state strategies to recover degraded areas, and the development of the National Policy for Fire Management, Burning Control, and Combating and Preventing Forest Fires. It will also strengthen ICMBio's capacity to prevent and combat forest fires in critical protected areas within the Cerrado Biome. The Grant Agreement was signed on April 27, 2015 and its Closing Date is December 29, 2017.
5. **Non-Lending Technical Assistance - DEFRA Cerrado Climate Change Mitigation Program,** a Bank-Executed Technical Assistance Project, to provide the analytical work, technical assistance and training necessary for the Ministry of Environment and its partners to achieve the goal of mitigating Climate Change in, and improving environmental and natural resource management of the Cerrado biome as defined in the main TF Program (TF071814).

The Project has a satisfactory implementation pace. Since Funcate has worked with Bank Projects in the recent years, they are well aware of Bank's policies and guidelines, and new staff have been trained accordingly, and are executing Project activities successfully. The Project has disbursed US\$ 0.21 million (20% of the grant amount).

M&E is being conducted in accordance with: (i) the BCCMTF monitoring and evaluation plan to be prepared; and (ii) established BCCMTF rules and procedures. MMA has primary responsibility for tracking technical progress related to Project outputs and outcomes. Project progress reports will be prepared and submitted to the Bank and MMA twice a year.

## Risks



## Overall Risk Rating

Risk Category	Rating at Approval	Previous Rating	Current Rating
Overall	● Low	--	● Low

### Comments

The following is the principal risk inherent in the proposed Project design: the Project's success is highly dependent how useful the information will be to the State and Federal Government institutions.

Considering that INPE is one of the most advanced institutes dealing with information technology and providing spatial information around the world, and that the new platform will be developed based on the feedback that INPE receives from government institutions that need the information to better manage/plan their forest fires prevention plans and activities, the technical risk of this project is very low. Also, FUCANTE is a Foundation with recognized success in implementing various projects, which facilitates the implementation of Bank guidelines upfront.

## Results

### Project Development Objective Indicators

#### ►Govt institutions provided w/ capacity buildg to improve mgt of forest resources (Number, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	7.00
Date	15-Dec-2014	--	06-Jan-2016	31-Dec-2017

#### ►Number of users of the new platform (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	500.00
Date	15-Dec-2014	--	06-Jan-2016	31-Dec-2017

#### ►Number of accesses to the system monthly (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	7000.00
Date	15-Dec-2014	--	06-Jan-2016	31-Dec-2017



## Overall Comments

## Intermediate Results Indicators

## ▶Platform validated and functional (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	--	N	Y
Date	15-Dec-2014	--	06-Jan-2016	31-Dec-2017

## ▶Environmental Managers trained (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	90.00
Date	15-Dec-2014	--	06-Jan-2016	31-Dec-2017

## ▶Instruction Material on the new platform available (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	--	N	Y
Date	15-Dec-2014	--	06-Jan-2016	31-Dec-2017

## Overall Comments

## Data on Financial Performance

## Disbursements (by loan)

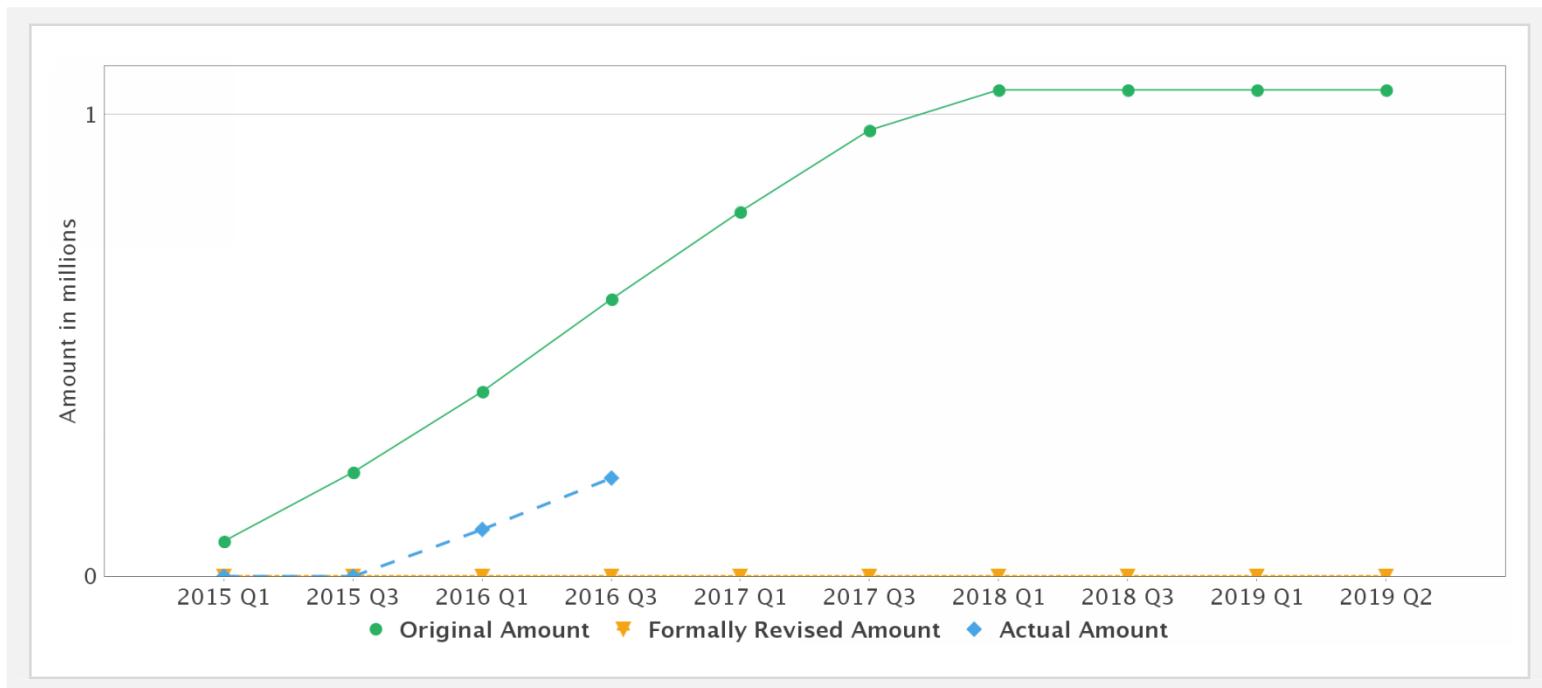
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P149189	TF-18566	Effective	USD	1.05	1.05	0.00	0.21	0.84	20%



**Key Dates (by loan)**

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P149189	TF-18566	Effective	15-Dec-2014	09-Mar-2015	09-Mar-2015	31-Dec-2017	31-Dec-2017

**Cumulative Disbursements**



**Restructuring History**

There has been no restructuring to date.

**Related Project(s)**

There are no related projects.