English-language Project Summary

Emas-Taquari Biodiversity Corridor Carbon Project

This document has been provided by the project proponent and is a translation of Sections G3.1-3 of the original Portuguese language Project Design Document, validated to the CCB Standards on December 14, 2010.
Emas-Taquari Biodiversity Corridor Carbon Project

Goiás and Mato Grosso do Sul, Brazil

Formoso River, Emas National Park

PDD validated under the Climate Community and Biodiversity Standard, Second Edition, December 2008
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EXECUTIVE SUMMARY

The Emas-Taquari Biodiversity Corridor Carbon Project is located in the Emas-Taquari Biodiversity Corridor in the States of Goiás and Mato Grosso do Sul, Brazil. It is part of a broader strategy for the conservation and restoration of the Cerrado-Pantanal Biodiversity Corridor. The project consists of a voluntary partnership among landowners, non-profit sector institutions, and local conservation units aiming to restore degraded areas and promote gene flow among fauna and flora species, through the creation of biodiversity corridors connecting remaining Cerrado fragments, in the area surrounding the Emas National Park and the Nascentes do Rio Taquari State Park. The project proponent is Oréades Núcleo de Geoprocessamento, situated in the municipality of Mineiros at Goiás State, Brazil.

The project’s overall goals for Climate, Community and Biodiversity are, respectively, to:

- Reforest 588.9 hectares of land.
- Remove 206,114.60 t CO₂ equivalent.
- Fight forest fires in the project and surrounding areas.
- Involve 45 families and 35 addicts in project activities.
- Provide technical training for producing seedlings and reforesting degraded areas.
- Generate employment and income opportunities through the production and sale of seedlings to supply the needs of the project and of the region.
- Provide access to information on sustainable use of fire that contributes to the decrease of forest fires and is consistent with the proper land use.
- Use native Cerrado species in the reforestation process.
- Connect remaining forest fragments and create a mosaic of native forest amid the monoculture and crop fields, which are common in the area.
- Reduce inbreeding and promote gene flow among native species through the creation of biodiversity corridors.

The project aims at an average removal of 12.13 tons of CO₂e per hectare per year, which, after 30 years is expected to have accumulated 198.26 tons of dry biomass¹, or 363.81 tons of CO₂e, per hectare. Project activities have started in 2010. At the end of the 30 year crediting period, the project anticipates a total stock of 214,245 tons of carbon dioxide in the 588.9 hectares of land to be reforested, with 206,115 tCO₂e being the net amount resulting from the project activity. In terms of annual net removals, the project shall remove the equivalent of 6,870.5 tons of CO₂e per year.

The use of native Cerrado tree species is closely interrelated with the fauna’s niche and also provides many non-destructive economic uses (non-timber) such as fruits, seeds, fibers, oils, and honey. It represents a key strategy for promoting a high level of participation and commitment among landowners, who are allowing their properties to be reforested. We believe that once they realize the economic opportunities that the use of native species provides they will be more pro actively engaged in the maintenance and preservation of the reforested sites. Beyond the conservation and restoration

¹ Above and belowground dry biomass.
strategy, the ultimate goal of this project is to generate social welfare for the participating communities and provide economic alternatives to improve their livelihoods.

The Table below describes all the activities to be employed by the project, their goals and the direct beneficiaries.

<table>
<thead>
<tr>
<th>Goal</th>
<th>Activities</th>
<th>Direct Beneficiaries</th>
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<tbody>
<tr>
<td><strong>Goal 1</strong> - To stimulate the local economy through strengthening sustainable and exemplary businesses in terms of social and environmental responsibility, associated with ecological restoration and native seedling production.</td>
<td>Estimating the demand for native seedlings within the next 36 months and associated costs.</td>
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</tbody>
</table>
| | Formalizing a partnership with three local nurseries, which shall produce seedlings for the reforestation process. | • Nova Esperança Therapeutic Community  
• Center for Education and Native Seedlings  
• Cedro Community Nursery |
| | Creating of the Center for Education and Native Seedlings in a core area of the project to disseminate scientific and traditional knowledge. | • Families from the Serra das Araras, Formiguinha and Pouso Alegre settlements  
• Trained staff for seedling production  
• Dom Bosco municipality school (Mineiros, Goiás)  
• Fundação Integrada Municipal de Ensino Superior (FIMES), a local university |
| | Promoting training courses in the Center for Education and Native Seedlings Production, focused on sustainable development and opportunities for economic alternatives. | • Communities from the Reforestation Project areas  
• Settled and *Quilombola* (ex-slavery remnants) families |
| | Reforesting 588.9 hectares of land in the Emas-Taquari Biodiversity Corridor area. | • Settled and *Quilombola* families, through gathering seeds and producing seedlings  
• Nova Esperança Therapeutic Community through seedling production  
• A group of workers that is hired and trained to prepare the reforestation fields and plant the seedlings  
• Farmers  
• Managers of the Region's Conservation Units |
| | Maintenance of the reforested areas, | • A group of workers that is hired and trained to prepare |
especially during the first 5 years.

<table>
<thead>
<tr>
<th>Activities</th>
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| Monitoring of the reforested areas for 30 years. | Farmers  
Settled and Quilombola communities |

### Goal 2 - Encourage the involvement of the communities in the reforestation process, increasing their income and quality of life.

- Increasing alternative sources of income for 45 quilombola and settled families in the region by creating a network for gathering and selling of Cerrado seeds and seedlings.

  - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)
  - Cedro Quilombola community (10 families)
  - Buracão Quilombola community (10 families)

- Increasing alternative sources of income for 45 quilombola and settled families in the region through the production and sale of seedlings for the reforested areas.

  - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)
  - Cedro Quilombola community (10 families)
  - Buracão Quilombola community (10 families)

- Increasing alternative income sources using the nursery at the Nova Esperança Therapeutic Community, allowing for the free treatment of drug addicts and alcoholics.

  - Nova Esperança Therapeutic Community (35 people)

### Goal 3 - Strengthen businesses that encourage or promote the conservation or restoration of the Cerrado, as opposed to conventional practices that degrade it.

- Building, along with the families involved in the project, a value-added supply chain for the production and sale of seedlings and seed gathering.

  - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)
  - Cedro Quilombola community (10 families)
  - Buracão Quilombola community (10 families)

- Technical and financial support for the production of medicinal plants from the Cerrado in the Medicinal Plants Center of the Cedro quilombola community.

  - Cedro Quilombola community (10 families)

- Technical and financial support for the processing of the Baru native fruit and other natural resources.

  - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)
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<td><strong>Goal 4</strong> - Involve local institutions in actions aiming to increase appreciation of the Cerrado.</td>
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</table>
| Formalize partnerships with higher education institutions for research in carbon sequestration and conservation biology. | - Federal University of Goiás (UFG)  
- Fundação Integrada Municipal de Ensino Superior (FIMES)  
- State University of Goiás (UEG) |
| Formalize a partnership with the Emas National Park for preventing forest fires in reforested areas, through the Fire Brigade. | - Emas National Park Fire Brigade                                                   |
| Formulate a partnership with the Mineiros Fire Department.               | - 6th Independent Military Fire Fighting Squad                                        |
| **Goal 5** - Train and create opportunities for social inclusion of people who are disadvantaged or at risk. |                                                                                      |
| Technical improvement of 45 families involved in the project for seed gathering and native Cerrado seedling production. | - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)  
- Cedro Quilombola community (10 families)  
- Buracão Quilombola community (10 families) |
| Technical development of native Cerrado seedling production for the patients at the Nova Esperança Therapeutic Community. | - Nova Esperança Therapeutic Community (35 people)                                  |
| Offer courses on mobilization, communication, and leadership for the 45 involved families. | - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)  
- Cedro Quilombola community (10 families)  
- Buracão Quilombola community (10 families) |
<p>| Train teachers and students on topics relating them to the local reality and increasing appreciation of the Cerrado. | - Dom Bosco municipality school (Mineiros, Goiás)                                   |
| Offer courses on cooperatives for 45 families.                           | - Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)          |</p>
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<td><strong>Goal 6 - Promote communication as a means of ensuring transparency and equal opportunity of access to information.</strong></td>
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<tr>
<td>Offer financial education courses for the families involved in the project.</td>
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<tr>
<td>• Cedro <em>Quilombola</em> community (10 families)</td>
<td>• Serra das Araras, Formiguinha and Pouso Alegre settlements (25 families)</td>
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<tr>
<td>• Buracão <em>Quilombola</em> community (10 families)</td>
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<tr>
<td>Restructure the Oréades Website.</td>
<td>Oréades</td>
</tr>
<tr>
<td>Publish papers in conferences.</td>
<td>Oréades, <em>Fundação Integrada Municipal de Ensino Superior</em> (FIMES)</td>
</tr>
<tr>
<td>• Federal University of Goiás (UFG)</td>
<td>• State University of Goiás (UEG)</td>
</tr>
<tr>
<td>Organize events in the towns involved with the Emas-Taquari Biodiversity Corridor for presenting experiences with sustainable businesses.</td>
<td>Oréades, General public</td>
</tr>
<tr>
<td>Publish partial results of Oréades' actions in online papers.</td>
<td>Oréades, Other project partners</td>
</tr>
<tr>
<td>Announce Oréades' activities to the local press (radio and paper) through press releases.</td>
<td>Oréades, Other project partners</td>
</tr>
<tr>
<td>Promote weekly videos on the environment, presenting videos produced by the community in partnership with Oréades (Participatory video project).</td>
<td>Oréades, General public</td>
</tr>
</tbody>
</table>
Location of the project zone, reforestation sites, communities and boundaries.