

“SUSTAINABLE MANAGEMENT OF PRODUCTION FORESTS
IN THE BRAZILIAN AMAZON: A local perspective of a forest
management plans and operational activities run by a forest
community cooperative COOMFLONA in Tapajos National Forests
Para State



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Implementation of **Good Practices of SFM** as **Land Use and Local Development** for **Food Sovereignty, Security and Nutritional** is a great **Challenge!!!**

**Knowledge
Technologies
and Tools**

**Dissemination
& Training**

**Forestry Entrepreneurs
(private companies and
communities), Forestry
Students, Forestry Gov.
Agencies,
Professionals in general
responsible for SFMPs**

Projeto Bom Manejo Fase II - Objectives

- **To encourage, promote, and to train to adoption of SFM practices to private companies and communities interested in timber SFM in the Brazilian Amazon.**
 - To increase **efficiency and relevance** of training and dissemination in order to increase adoption of these SFM by private sector, communities, governamental agencies at state and federal levels.
 - **To strength capacity of the organizations** in order to train and capacitate professionals of different level and institutions, including community forestry managers.
 - **To consolidate a set of tools** (computing and guidelines), to implement Good Practices of SFM.

Computing Tools and Priority Target Groups

- **BOManejo**: Planning Harvesting Forest Production

The more eclectic and wide application for forestry professionals and students of forestry courses.

- **MOP** : Monitoring of Forestry Operations

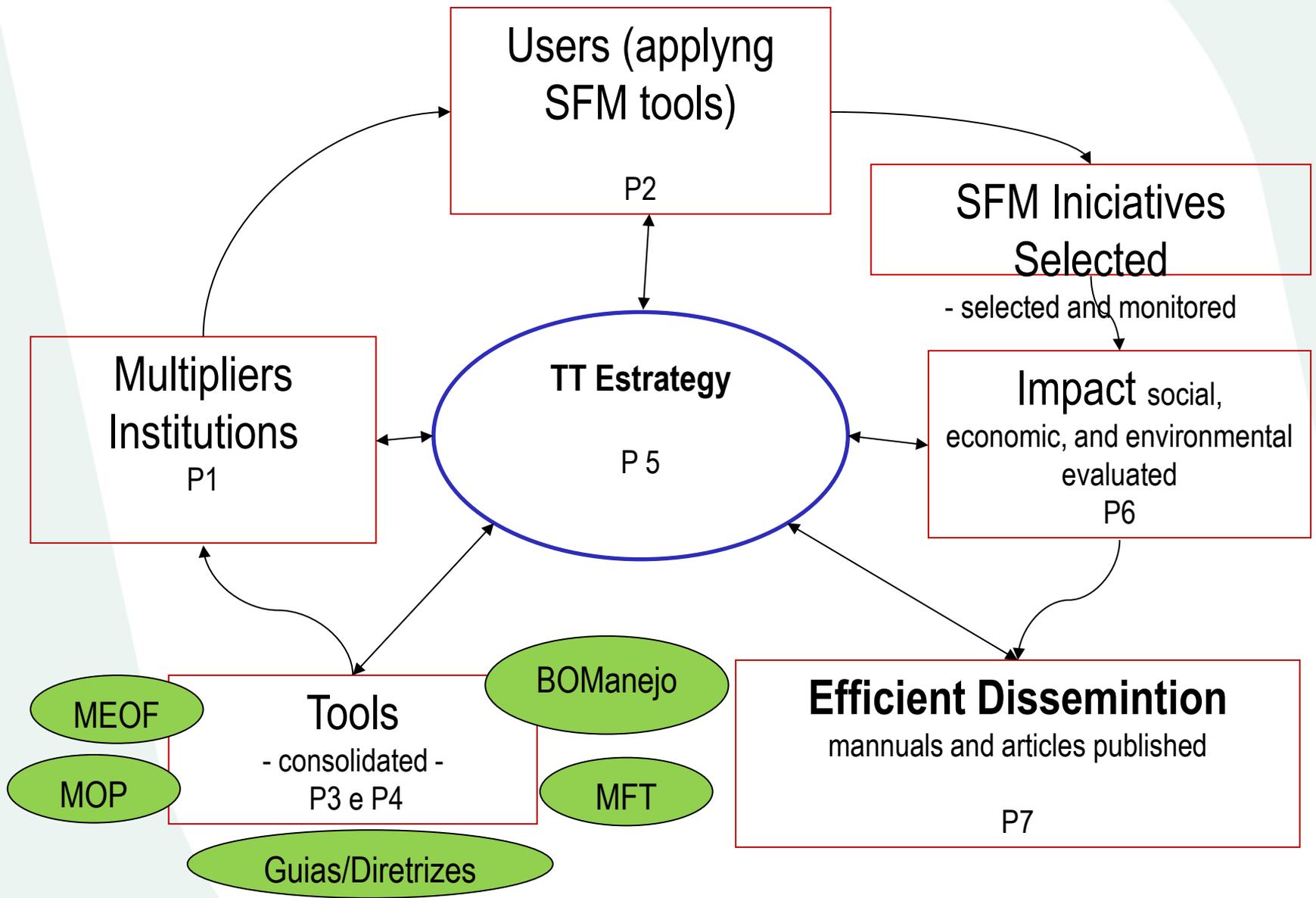
Autonomous professionals, foresters in general, interested in monitoring assessment of SFMPlans.

- **MFT** : Monitoring of Tropical Forest Dynamics

Análises of forestry inventories, permanent plots data, and growth studies. Important tool for the concessions programe ongoing in Brazil , also for academic research, studies of growth forest dynamics.

- **MEOF** : Monitoring of economical forest operations

More complex given the conceptual framework, however very important to estimate the timber operational costs in the harvesting phase.

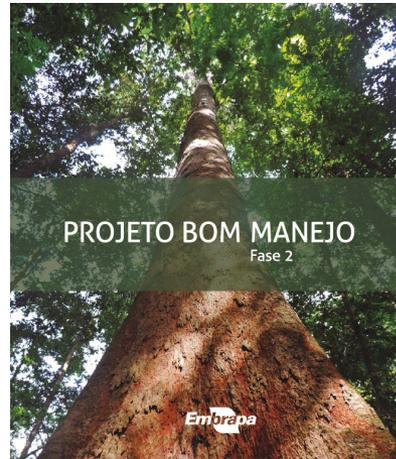


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Training & Capacitation Events



COMMUNICATION (Products)



Publications: CI da Embrapa
Events: Folder Preparation
Folder, Inivtations, Cards etc.



Visit the site **Projeto Bom Manejo:**
<https://www.embrapa.br/bom-manejo>



The Project Bom Manejo e and COOMFLONA as Partner Community Forest Management at Tapajós National Forest, Para- Brazil

SANTARÉM, 2018

COOMFLONA -Cooperativa

Mista da FLONA Tapajós





Community Forest Management

- IBAMA/ProManejo: From 2001 support to the implementation of a Pilot Plan of Community Forest Management at Tapajós Forest;
- Portaria 40 – IBAMA (25/08/2003) – Authorize Intercommunity Associations (AITA, APRUSANTA and ASMIPRUT) to implement at Experimental level the Community Forest Management at Tapajós National Forest, Santarém-Para.
- A COOMFLONA was founded in 2005 with 24 members by traditional living people as a collective will, to improve their social, environmental and economic living conditions, and currently are in total 203 members



Characteristics of the SFMCPlan

- Community Forest Management
- Revision of the SFMCPlan in 2016
- Organization responsible is the CCDRU - FEDERAÇÃO da FLONA do Tapajós
- Executive responsibility - COOMFLONA
- License responsibility is ICMBio
- Total Area for the SCFMPlan is – 18.000 ha





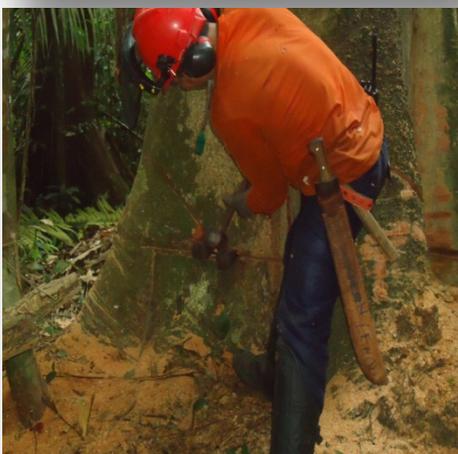
THE CURRENT TEAM (AT CLT BASIS CONTRACT) IS OF 15 PROFESSIONALS' STAFF.

- 01 FORESTRY ENGINEER (1 person graduated from the community)
- 01 ENVIRONMENTAL ENGINEER
- 01 FORESTRY TECHNICIAN
- 01 LAWYER
- 01 WORKING SECURITY TECHNICIAN
- 02 FORESTRY TRACTORS OPERATORS
- 01 MECHANIC
- 02 PICK UP AND TRUCK DRIVERS
- 05 PROFESSIONAL (FURNITURE SHOP)



Community Forestry Management

203 coop. Member, are involved in all different phases of the forestry operations including technical, operational and administrative activities.





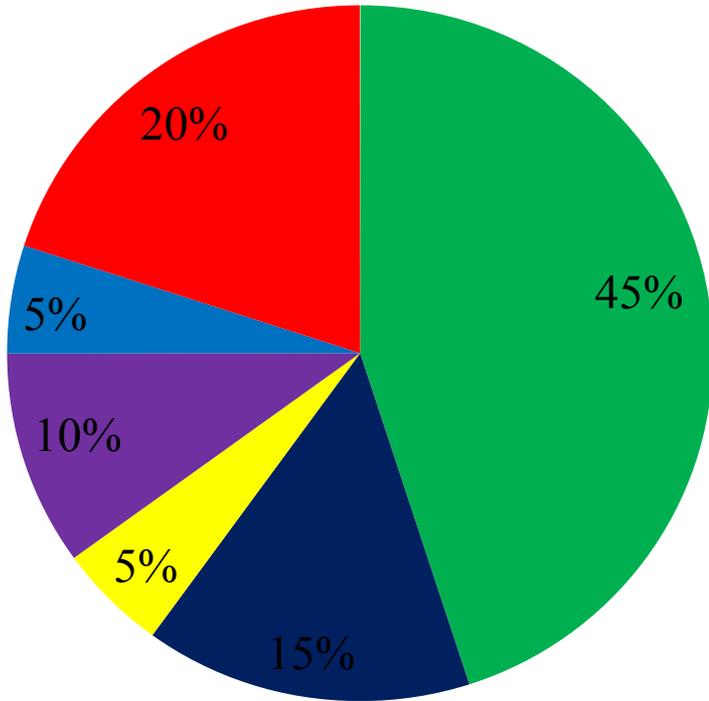
Annual Production Units - UPAs

Data of Sustainable Community Forest Management - COOMFLONA

| UP A | AREA (Ha) | Authorized Volume (m ³) | Logged Volume (m ³) | Commercialized Value /m ³ | Gross Income/UPA (R\$) |
|------|------------|-------------------------------------|---------------------------------|--------------------------------------|------------------------|
| 1 | 100 | 2.932,30 | 1.554,91 | ? | ? |
| 2 | 300 | 8.880,14 | 3.646,62 | ? | ? |
| 3 | 521 | 13.487,47 | 7.843,27 | ? | ? |
| 4 | 700 | 20.181,11 | 13.450,06 | R\$ 197,00 | R\$ 2.649.662,61 |
| 5 | 1.000,00 | 19.343,20 | 14.893,19 | R\$ 190,00 | R\$ 2.829.706,10 |
| 6 | 1.000,00 | 18.337,32 | 15.845,79 | R\$ 198,00 | R\$ 3.137.466,95 |
| 7 | 1.000,00 | 24.476,55 | 19.120,85 | R\$ 198,00 | R\$ 3.785.928,30 |
| 8 | 1.000,00 | 25.837,45 | 21.714,87 | R\$ 220,00 | R\$ 4.777.271,18 |
| 9 | 1.559,30 | 43.905,43 | 37.173,67 | R\$ 260,00 | R\$ 9.665.154,54 |
| 10 | 1.551,88 | 42.797,66 | 35.030,75 | R\$ 311,00 | R\$ 10.894.562,25 |
| 11 | 1.589,81 | 41.280,04 | 31.818,53 | R\$ 345,00 | R\$ 10.977.393,44 |
| 12 | ? | 29.455,86 | ? | R\$ 350,50 | R\$ 10.324.280,58 |

Distribution of Net Income

COOMFLONA



- Fundo de Investimento
- Fundo de Apoio Comunitário
- Fundo Saúde
- Fundo Reserva
- Reserva de Assistência Técnica Educacional e Social
- Decisão da Assembleia Geral





Forestry Certification

- 2013 → certification FSC®
100% Standard Community
Forestry SLIMF;
- Social and Environmental
benefits at FLONA Area.
- Greater demand for certified
timber, more clients and better
price for a m³.



A marca do manejo
florestal responsável



Benefits Generated by COOMFLONA

- The COOMFLONA generates nearly 150 working positions during the operational logging activities;
- Act as a partner for Federal Government and ICMBio, together helps on integrated actions of protection of Conservation Unit and contribute on carrying out a common agenda;
- Contribute significantly on the increasing income and living quality of community in the Tapajós National Forest;
- Also, the benefits reach out directly all 23 communities and 3 indigenous populations within the Conservation Unit boundaries with support of Community Support Funds.





Benefits generated by COOMFLONA

- Maintenance of Permanent Roads and opening of new ones, in order to permit access to the communities at Tapajós National Forest.

- Donation of wood and services to ICMBio.
- Contribution on Management Plan of the Tapajós National Forest Unit.



2009-2015: R\$
1.175.506,00



2009-2016: R\$
366.028,00



Bebefits Generated by COOMFLONA

- Interaction with communities, assessing demands and challenges to build a collective agenda ;
- Logistic and financial support to help the meetings of the FEDERAÇÃO, AITA e ASSOCIAÇÃO





Potencial Use of Forestry Residues

Are harvested around 2.000 m³/year, of forestry resíduos (branches and splitted trunks). The commercialization is in logs and in the furniture shop, through a produciton of furniture and utensils pieces for use and decorarion.





Smaller pieces of residues

The smaller pieces of collected residues are used in portables saw mills. They are installed in the central patio of logs inside the management area Unit.





Furniture Shop of COOMFLONA

In the first semester of 2017 was launched the new furniture shop of COOMFLONA inside the área of SFM Unit with partnership of BANCO DO BRASIL Foundation, through a progame called ECOFORTE EXTRATIVISMO, with support of ICMBio e MMA. It is expected to process around 2.000 M³ /year for funiture and other utensils.





Maquinários na Movelaria

Semi-automatic machinery capacity processing around 2,000 m³ timber plancs per year

Investment: R\$ 708.885,44

FBB: R\$ 441.014,94

Coomflona: 267.870,50

Planning Investment: R\$ 300.000,00





Partnership with TRAMONTINA - 2018

- This partnership will result in a Coomflona saw mill infra-structure to be installed in Belterra Municipality Belterra-PA
- As a counterpart commitment Coonflona will provide raw- material to use generate credit of energia or the production Em contrapartida a Cooperativa iria fornecер matéria-pri da Tramontina e crédito de energia ge





Challenges of COOMFLONA

- Finding new area for SFM together with FEDERATION (Concessionaria do CCDRU) and looking for new alternatives to generate income and development at Tapajós National Forests ;
- Contributing to protection and monitoring the Conservation Unity;
- Generate more working opportunities.





Challenges of COOMFLONA

- Maintenance of forest área for management;
- Revision of Management Plan.

The Management Planit is importante to revise the do Flona Tapajós National Forest was done in 2004, having a actual value in 2005. A decade later it is importante to revise the document.

Through a Public Call of ICMBIO, the Sustainable Development Institute od Amazon - IDESAM, won this selection and will give a technical cooperation to the revision of the Management Plan of Flona do Tapajós;

The IDESAM work is a finncial partnership with the operational community organization (Federação e COOMFLONA) and supervised by ICMBio.





Challenges COOMFLONA

- Implementation of saw mill in partnership with Conservation International – CI and Fundo Amazônia
- Find financial resources and licence of new areas;
- Contribute with SFM Plans in other Conservation Units, e.g. RESEX Tapajós Arapiuns;
- Offer training courses, and ex-change their good experiences.





COOMFLONA



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General comments

- Besides the implementation of the computing tools and guidelines as good practices of SFM, we do expect that some silviculture practices conducting natural regeneration of highly valuable species can be adopted
- Also enrichment planting, valuable species in clearing gaps has been under studies with some other private partnersdo, such as Jari Florestal, Cikel Verde and others



PROJECT GAPS -CLAREIRAS – (EMBRAPA / GRUPO JARI: 2006 -2011/ 2012-2017) (2018-2021-CNPq)

What we want to know ?

Growth

Survival

What For ?

Increase density of species

**Maintenance of genetic
variability**

Seed Bank for Future

Species Conservation

**Forest Certification /Public
Policies**

Future Generations

Pos-Logging Silviculture

**New look at sustainable
forest management (3rd
Cycle)**



**Age: 18
Months**

PROJECT GAPS - CLAREIRAS (EMBRAPA / GRUPO JARI: 2006 A 2011/2012-2017) (2018-2021-CNPq)

- Species Management in Gaps after logging
- **PLANTING (2006).**
- *Bagassa guianensis* (Tatajuba)
- *Carapa guianensis* (Andiroba)
- *Anacardium giganteum* (Caju-açu)
- *Brosimum parinarioides* (Amapá-doce)
- *Dinizia excelsa* (Angelim vermelho)
- *Hymenaea courbaril* (Jatobá)
- *Platymiscium trinitatis* (Macacaúba)
- *Tabebuia serratifolia* (Ipê amarelo)
- *Mezilaurus lindaviana* (Itaúba)
- *Vouacapoua americana* (Acapu)
- *Cedrela odorata* (Cedro)
- *Tachigali myrmecophila* (Tachi)

13 Months After



PROJECT GAPS -CLAREIRAS – (EMBRAPA / GRUPO JARI: 2006 -2011/ 2012-2017) (2018-2021-CNPq)

Bagassa guianensis (Tatajuba)

Dinizia excelsa (Angelim vermelho)



Anacardium giganteum (Caju-açu)



PROJECT GAP- CLAREIRAS – (EMBRAPA / GRUPO JARI: 2006 -2011/ 2012-2017)(2018-2021-CNPq)

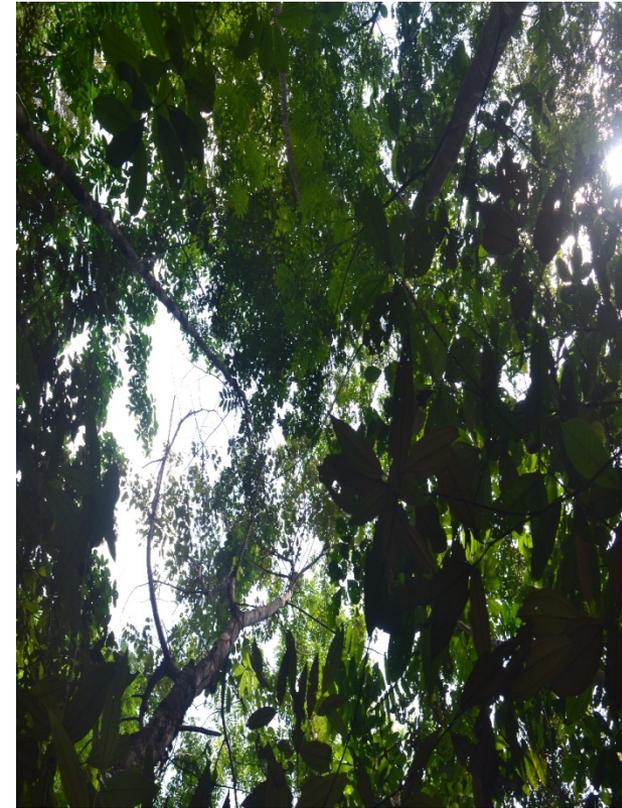
***Cedrela odorata* (Cedro)
6 ANOS**



**Natural Regeneration in
logging gaps- 12 anos**



**Natural Regeneration in
logging gaps- 12 anos**



Recent efforts in the state restoration agenda



ALIANÇA
PELA RESTAURAÇÃO NA
AMAZÔNIA

[COMO FUNCIONA?](#) [FOCO DE ATUAÇÃO](#) [MEMBROS](#) [GOVERNANÇA](#) [AÇÕES](#) [CONTATO](#) [PUBLICAÇÕES](#) IDIOMA: 

Aliança pela restauração na Amazônia

Um pacto pela conservação na Amazônia brasileira

[JUNTE-SE A NÓS](#)



Thanks to Coomflona, Jose Carmo Lopes, Gustavo Schwartz

www.embrapa.br

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Parcerias



MINISTÉRIO DA
AGRICULTURA, PECUÁRIA
E ABASTECIMENTO

