



# HARPIA

## MEIO AMBIENTE

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### COMPANY PORTFOLIO AND TECHNICAL RESPONSIBLE

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Dear (a) Mr (a)

The Harpy Environment comes through this document has the technical experience, professional and academic, with regard to the elaboration, management and implementation of environmental projects aimed at environmental licensing, the Low Carbon Economy, as well as the preparation of Business Plans and commercial intermediation for the purpose of international financing.

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#### 1. PRESENTATION

##### 1.1 Company

The Harpy is an environmental project company, with an eye toward the future. Headquartered in Brasilia/DF, one of the country's major business centers, and office in Florianópolis/SC, is able to manage and develop large projects in sustainable development values and environmental responsibility.

It is formed by a multidisciplinary team and highly specialized, arising from different areas and with over 10 years experience in the market, seeking professional achievement through the development of innovative

Brasília/DF | Florianópolis/SC  
SAUS, Q.4, Bloco A, nº30, sala 716-VII - CEP: 70.070-938 | Av. Ivo Silveira, nº 232 - Estreito - CEP: 88.085-000  
(61) 983065618 | (48) 96020455

[www.harpiameioambiente.com.br](http://www.harpiameioambiente.com.br) | [contato@harpiameioambiente.com.br](mailto:contato@harpiameioambiente.com.br)

projects. The technical excellence combined with agile processes provide the best solutions to customers and promotes a motivating organizational climate.

With spirit, determination, commitment and focus on results the Harpy is building its history in the environmental licensing consulting industry, Project for Carbon Credit and Business Plans for financing purposes in different regions of the country.

## 1.2 Company Data

**Company Name:** Harpy Environment EIRELI ME

**Tax ID:** 24689654/0001/32

**Professional class advice - CREA:** 12431/DF

### 1.2.1 Office of Brasília – DF/Brazil

SAUS, Quadra 4 - Block A, n. 30 - Room 716-VIII - CEP: 71070-938

Phone: +55(61) 986065618 / +55(61) 21948248

### 1.2.2 Florianopolis Office – SC/Brazil

Ivo Silveira Avenue, n. 232, Narrow - CEP: 88085-000

Phone: +55(48) 96020455

### 1.2.3 Contacts

*contato@harpiameioambiente.com.br*

*www.harpiameioambiente.com.br*

*harpiameioambiente (Skype)*

*Harpy Environment - Company (Facebook)*

*Harpiameioambiente (Instagram)*

*Harpy Environment (LinkedIn)*

## 1.3 Products

### 1.3.1 Environmental Licensing

The Harpy is able to develop and manage projects related to the environmental area (roads, railways, housing developments, land tenure, industries, power plants, airports, mining, agribusiness, etc.), both in the sphere of public initiative and the private, involved:

- Study Environmental Report-Environmental Impact Impact (EIA-RIMA);
- Environmental Control Plan (PCA);
- Environmental Control Report (RCA);
- Simplified Environmental Study (EAS);
- Basic Environmental Plan (PBA);
- Degraded Area Recovery Project (PRAD);
- Monitoring Plans;
- Among others.

Such studies, the inherent ENVIRONMENTAL LICENSING, include: Preliminary Environmental License (LP) - before the work is to evaluate the insertion environment of the enterprise; Environmental Installation License (L I) - measures the impact of activities to be implemented on the environment; and Environmental

Operating License (LO) - pertaining to environmental monitoring, in order to control or mitigate all impacts predicted in the previous steps.

The application of objective environmental legislation restricting the action informal entrepreneurs and investors as well as goal the actions of prosecutors in monitoring and punishment of what he calls "polluters/environmental predators." Hence, it is recommended to those interested the consultancy support in the environment, for the preparation of studies and responsible work, with a view to obtaining environmental licensing.

#### *1.3.1.1 Environmental Impact Study and Environmental Impact Report - EIA - Rima*

When the project is part of as an activity subject to environmental licensing the supervisory body may request studies that point, impartially, problems or benefits to be caused. In this regard, the Environmental Impact Assessment (EIA) aims to identify the possible significant environmental impacts (positive and negative), generated by the enterprise deployment, proposing mitigation programs such impacts as well as environmental monitoring and management of activities to be developed.

The CONAMA Resolution No. 001/86, of January 23, 1986 defines what are the activities that are subject to the preparation of the EIA and Environmental Impact Report (RIMA), when the licensing request. The Resolution presents the general guidelines for the preparation of the EIA, and the minimum technical activities that must be met in relation to the environmental assessment of the area, forecasting and analysis of the environmental impacts, the definition of mitigation measures and follow-up activities and monitoring.

The Rima search in simplified form, translate the EIA content for a conversational and accessible language so that laypeople, from the point of view of legislation and techniques outlined in EIA, to understand the context and the results.

#### *1.3.1.2 Environmental Control Plan - PCA*

The Environmental Control Plan (PCA) aims to identify and quantify the environmental impacts of a given project, this study should be built in the Deployment License step (LI) of the enterprise. This is because, at this stage, be easier control of interference indicated by the environmental study.

#### *1.3.1.3 Plan of Conservation Unit Management*

According to the Ministry of Environment the Management Plan aims to bring the Conservation Unit to meet the goals established in its creation, define specific objectives of management, guiding the management of the conservation area; promote management of the conservation area, guided by the available and / or knowledge generated. It establishes the differentiation and intensity of use through zoning, aiming to protect their natural and cultural resources; down specific rules regulating the occupation and use of the resources of the protected area, buffer zone and ecological corridors; recognizes the value and respect for environmental and cultural diversity of traditional communities and their organization systems and social representation.

This study can also be applied to particular areas aimed at the sustainable exploitation of forest resources. This category of study must be submitted to approval of the competent environmental agency.

#### *1.3.1.4 Forest Inventory*

In a simple way, the Forest Inventory provides qualitative and quantitative information on forest resources present in a given area. This study can be divided into several types, depending on its purpose and its

goal. They may vary from this type Census, which are sampled all individuals in an area, even those who by statistical methods predict a sample that represents the whole of a forest population.

#### *1.3.1.5 Rural Environmental Registry - CAR*

According to the Ministry of Agriculture, the Rural Environmental Registry, commonly known by the acronym CAR, it is the electronic public record nationwide, compulsory for all rural properties, in order to integrate environmental information of rural properties and possessions, making base data for control, monitoring, environmental and economic planning and combating deforestation. Among the environmental information, are the, areas, forests and remnants of native vegetation, Restricted Use Areas (wetlands and Pantanal plains) and the consolidated areas of rural properties and possessions of the country.

#### *1.3.1.6 Feasibility Study Technical and Environmental - EVTEA*

The Technical and Environmental Feasibility Study aims to present information on certain work and / or activity, so that its implementation and operation occur in a sustainable manner. Therefore, the potential and constraints are evaluated, set in urban and environmental legislation, to propose a more suitable occupation possible the conditions and restrictions that the area offers. So take advantage of the opportunities offered, so that it can reach favorable conclusions regarding the implementation of the project, the way proposed.

#### *1.3.1.7 Environmental Monitoring*

Environmental monitoring is knowledge and systematic monitoring of the situation of environmental resources of the physical, biotic and socio-economic means, with a view to recovery, improvement or maintenance of the environment. This in turn is related to the control of environmental variables that change, either because of human activities, either because of natural transformations. All activities that fall with potentially polluting the environment require environmental monitoring process to ensure that control of environmental quality.

#### *1.3.1.8 Plan for Recovery of Degraded Areas (PRAD)*

The Degraded Area Recovery Plan (PRAD) aims to return the area to a degraded form of use, according to a pre-established plan for land use, in order to obtain an environmental and ecological stability. The PRAD contains a number actions that mitigate the environmental impact of a particular activity or project, such as deforestation, earthworks, exploitation of deposits, operating loans and send-outs, recovery Permanent Preservation Area and Legal reserve. The PRAD turns, especially the aspects of soil and vegetation, although they address also, directly and indirectly, the environmental remediation of water, air, wildlife and humans.

### **1.3.2. Carbon Credit Projects**

The Carbon Market constitutes one of the mechanisms used to mitigate global warming and climate change, due to the increase in the atmosphere of so-called greenhouse gases (GHG) emissions from burning fossil fuels. How to involve all countries, measures to reduce GHG emissions are dealt with in negotiations under the United Nations (UN).

In the 21th Conference of the Parties (Cop21) of the United Nations Framework Convention on Climate Change in Paris, a new agreement was adopted, with the central objective of strengthening the global response to the climate change threat and to strengthen the capacity of countries to deal with the impacts



of these changes. The Paris Agreement was approved by the 195 member countries of the Convention, to reduce emissions of greenhouse gases - GHG in the context of sustainable development.

The commitment is to maintain the increase in global average temperature well below 2°C above pre-industrial levels and to make efforts to limit the temperature rise to 1.5 ° C above pre-industrial levels. To start force, the Paris Agreement requires governments involved in the construction of its own commitments, as of calls Contributions Nationally Certain Intended (iNDCs). Through iNDCs, each nation presented its contribution to reducing emissions of greenhouse gases, following which each government considers feasible from the social and local economic scenario.

The Kyoto Protocol created an international market where the reductions of greenhouse gas emissions and atmospheric CO<sub>2</sub> removal could be traded between countries through carbon credits. With the entry into force of the Protocol on 16 February 2005, the market evolves, greatly increasing the volumes and values traded.

### 1.3.2.1 Clean Development Mechanism Projects - CDM

Provided by the Kyoto Protocol, the CDM allows the certification of emission reduction projects of Greenhouse Gases (GHG) and the subsequent sale of certified emission reductions, to be used by countries that need to meet your goals. This mechanism should result in reductions of emissions additional to those that would occur in the absence of the project, ensuring real benefits, measurable and long-term mitigation of climate change.

CDM projects aims to prevent emissions and / or capture the gases responsible for the greenhouse effect, whose main causes are presented in the following table:

| OF GREENHOUSE GASES (GHG)         | WARMING POTENTIAL GLOBAL   | MAIN CAUSES  |
|-----------------------------------|----------------------------|--|
| <b>CO 2 (carbon dioxide)</b>      | 1XCO 2 (reference)         | Intencivo use of fossil fuels, increased occurrence of fires and forest fires, causing the increase of CO 2 into the atmosphere; Reduction of forested areas that absorb and store atmospheric carbon. |
| <b>CH 4 (methane)</b>             | 21 x CO 2 and              | Anaerobic degradation of organic material in landfills, wastewater treatment plants, anaerobic ponds with animal waste, in addition to the digestive process of ruminant animals (such as cattle).     |
| <b>N 2 O (nitrogen oxide)</b>     | 310 x CO 2 and             | Burning of fossil fuels, abuse and misuse of chemical fertilizers in the soil.   |
| <b>CFCs, HFCs, PFCs</b>           | 140 x to 11.700 x CO 2 and | Coolers and arossóis sprays  |
| <b>SF 6 (sulfur hexafluoride)</b> | 22,500 x CO 2 and          | Produced industrially for use primarily by the electrical industry as insulating medium and arc extinguisher in both breakers, as in shielded sub-stations.  |

Table 1: Main greenhouse gases, their sources and global warming potential. IPCC 2007 Source

Before presented, the main areas of CDM operations in Brazil are:

- a) The energy;
- b) Industrial Processes;
- c) agriculture and livestock;
- d) Land Use Change and Forestry and reforestation;
- d) treatment and disposal of solid waste;

For each part listed above sector, there are specific methodologies set out by the UN, which should be followed so that you can establish the baseline project and predict additionalities you acquire with your application.

|  |  |
|--|--|
| <b>ENERGY</b>                            | Fuel combustion and fugitive emissions from oil, gas and coal.                                       |
| <b>INDUSTRIAL PROCESSES</b>              | Emissions processes in industries and that are not the result of fuel combustion.                    |
| <b>FARMING</b>                           | Emissions from animal waste, agricultural soils, rice cultivation and burning of agricultural waste. |
| <b>CHANGE IN USE OF LAND AND FORESTS</b> | Emissions and removals resulting from variations in the amount of carbon (biomass, soil)             |
| <b>WASTE TREATMENT</b>                   | Emissions from disposal of solid waste and treatment of sewage.                                      |

### 1.3.2.2 REDD Projects

REDD stands for Reducing Emissions from Deforestation and Forest Degradation and emerged in 2007, during the 13th Meeting of the Parties to the United Nations Convention - UN on Climate Change (COP 13) held in Bali, Indonesia, when the the first time the role of forests was officially recognized as fundamental to combat efforts to the effects of global climate change. It is the creation of a compensation mechanism for carbon emission reduction efforts resulting from the clearing and burning of forests, adopted for a set of measures, not only to reduce deforestation and degradation, but also to strengthen the conservation and sustainable management of forests.

In 2010, at COP 16 in Cancun / Mexico were defined environmental and social safeguards in the development and implementation of REDD actions by countries, which are: respect for the knowledge and rights of indigenous peoples and members of local communities, taking into account the relevant international obligations, national circumstances and legislation; right to full and effective participation of relevant stakeholders, in particular indigenous peoples and local communities; and to ensure that actions taken are consistent with the conservation of natural forests and biodiversity, ensuring that they are not used for conversion of natural forests, but to encourage the protection and conservation of natural forests and the ecosystem services they generate.

#### 1.3.2.2.1 REDD +

It is the Reducing Emissions from Deforestation and Forest Degradation, and also the efforts directed to the conservation and sustainable management of forests actions and activities that promote the increase of carbon stocks of native forests.

### 1.3.2.2.2 REDD ++

REDD ++ means the inclusion of agricultural practices in favor of non-deforestation in REDD + concept.

### 1.3.2.2.3 ENREDD +

The National REDD + Strategy (ENREDD +) defines how a developing country will achieve the reduction of emissions with international aid. COP 16 (UNFCCC/COP16, 2010) asked the developing countries, according to national circumstances and capabilities, develop a national strategy or action plan, which shall cover the REDD + strategies and actions, and that consider :

- Vector deforestation and forest degradation;
- Land issues;
- Forest governance issues;
- Gender considerations and environmental and social safeguards, ensuring effective participation of different stakeholders (stakeholders) relevant, among others, indigenous peoples and local communities.

### 1.3.3 Business Plans for Financing / International Investments

The preparation of Technical and Financial Report, along the lines expected by international organizations requires a systemic view of the business and the use of techniques and tools of innovation (product, process and service) for better viability of the project. Thus, a well prepared Business Plan allows greater security in decision-making by investors, because knowing the business and problems related to it, leads to the search for solutions at higher levels of profitability, profitability of investments and longevity in challenging times.

The main points raised in the Business Plan are:

- Organizational Diagnosis and Consulting Notions;
- Strategic planning;
- Canvas method;
- Costs Costing Systems and Financial Accounting;
- Economic and Financial Feasibility Project Development;
- Project management;
- certifications;
- Market research;
- Among others.

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## 2 Technical responsible for the Company Hapia Environment

**Name:** Gisele Victor Batista  
**Address:** Brasília - DF - Brazil - CEP: 70675-214  
 Cell Phone: +55 061 983065618  
 E-mail: gisele@harpiameioambiente.com.br

**CREA:** 757623 / A-SC

**Curriculum lattes:** <http://lattes.cnpq.br/3636169863167746>

### 2.1 Education

| Period | Titration |
|--------|-----------|
|        |           |

|             |  |
|-------------|--|
| 2016 - 2018 | MBA in Business Management, Accounting and Corporate Finance - IPOG<br>Line of interest: Green Bonds Issue in Brazil.  |
| 2013-2015   | MBA in Project Management at the Getulio Vargas Foundation<br><i>Title: House Container: innovative homes for different audiences.</i>   |
| 2009 - 2014 | PhD in Civil Engineering - Land Management and Technical Multipurpose cadastre<br>Federal University of Santa Catarina - UFSC / Brazil.<br>Title: Environmental Impact Assessment Modeling for as territorial management tool in Electronic Government - eGov. |
| 2002-2004   | Master in Graduate Geography Program.<br>Federal University of Santa Catarina, UFSC, Brazil.<br>Title: Environmental Analysis of the Sub-River Basin of Pigs / SC.   |
| 2006-2007   | Associate degree in geomatics - surveying.<br>Federal Institute of Education, Science and Technology of Santa Catarina.  |
| 2001-2002   | Degree in Geography - Bachelor.<br>Federal University of Santa Catarina, UFSC, Brazil.<br>Title: Geo-graphy: the landscape drawn by the eyes of the residents of Mocotó Hill.  |
| 1997-2001   | Degree in Geography - Full Degree<br>Universidade do Estado de Santa Catarina, UDESC, Brazil.<br>Title: Training Report - Experience in SC Penitentiary.   |

## 2.2 Supplementary Training

| Month year       | Diploma / Institution  |
|------------------|--|
| Sep / 2013       | BULLET PROOF MANAGER: How to deal with difficult customers and leaders who make change work (8h) |
| April 2013       | Course Leader Coach - FECOMERCIO / DF (20h / a)  |
| April 2013       | Brazilian Public Bidding course - FECOMERCIO / DF (20h / a)                                      |
| April-Sep / 2011 | Coaching Program Group - ActionCOACH / SC (80h / a)  |

## 2.3 Professional Experience

| Year        | function Organization  | Description of tasks   |
|-------------|--|--|
| Current     | <b>Harpy Environment</b>   | Development and project management in the environmental area. Climate and environmental change studies - CDM and REDD. Business Plan Preparation for implementation of projects in the energy, carbon credit, solid waste and innovation. Technical support for the issuance of Green Bonds and generation of green projects.  |
| 2015-2016   | <b>Adjuntorium Consulting and Advisory</b>   | Development of multidisciplinary studies and management of urban and environmental projects in the Federal District and region.  |
| 2015        | <b>Sabin laboratory</b>  | Administrative Coordination Unit <i>Check-Up Executvo</i> - venture Deployment Work Management.  |
| 2012 - 2015 | <b>TOPOCART</b> Surveying, Engineering and Aerial Survey<br><i>Executive Environment Projects, Urban Planning and Architecture</i> | Development of multidisciplinary studies. Planning and execution of survey / field campaigns. Presentation of Public Hearings. Analysis of bids and preparation of technical proposals to public competition. Preparation of commercial proposals and direct customer service. project management (scope, cost, time, human resources) and monitoring of performance indicators and quality of projects. Monitoring of the risks and problems of projects. Restructuring and strategic planning Sector. Development and implementation of Training Program and |



|                    |   |  |
|--------------------|---|--|
|                    |   | Continuous Improvement to employees of Environment Sectors, Urban Planning and Infrastructure Engineering. technical support to the Marketing sector. Formulation of the Company's Environmental Management System. Production texts Newsletter  |
| <b>2011 - 2012</b> | <b>University Barriga Verde - UNIBAVE Assistant Professor of Latu Sensu Specialization Course in Environmental Management .</b> | Teaching in the disciplines of Environmental Impact Assessment (30h / class) and the Environmental Monitoring System (30h / class), field trip run to complement the knowledge, scientific paper orientation as a final evaluation of the course. Currently, guidance 05 monographs, all in the environmental area.                        |
| <b>2006 - 2012</b> | <b>GIS Environmental Solutions Commercial Director and Project Manager</b>  | Development of environmental studies related to environmental licensing. Planning and execution of survey / field campaigns. Customer service, field visit to composition of budgets, project scope of preparation to run, reviewing and editing the final product, after-sales service. strategic planning of development of the company. |
| <b>2004-2006</b>   | <b>Federation of SC shellfishermen Associations educating People</b>  | Lectures, workshops and courses in environmental education, business management and mariculture, preparation of teaching material and organization of the service "DISK Mollusk".  |
| <b>2002-2004</b>   | <b>DE - UFSC Distance Learning Monitors</b>   | Facilitator of the course content in order to provide easy to understand and aimed at the academic progress of the student. Use technology (email, chat and management software student learning). Monitoring and scheduling classes "takes questions."  |
| <b>2001</b>        | <b>Public Penitentiary of Florianópolis / SC Teacher Education Program for holding the semi-open and Closed Regimes</b>         | Preparing lesson plans, teaching materials composition, use of multimedia and other learning resources to consolidate the knowledge passed on.   |
| <b>2001</b>        | <b>SESI / SC - Service Industry Social Geography teacher-Supletivo</b>  | Summary of activities: preparation of lesson plans, interactive lessons and other learning resources to consolidate the knowledge passed on. Preparation and Application of evidence.  |

#### 2.4 Missions Short Term

| Year        | Function / Organization  | Local                 | Description of tasks  |
|-------------|--|-----------------------|---|
| <b>2002</b> | Educating People - Federal University of Santa Catarina (UFSC) -     | Santa Catarina Brazil | Execution of field data collection campaigns and reporting to Community Plan composition of territorial occupation set of Morro Massif Central from the slums - in Florianópolis - SC.  |
| <b>2001</b> | Educating People - University of the State of Santa Catarina (UDESC) | For/ Brazil           | Project education in University Solidarity - NACIONAL (Hours: 170h): preparation of lesson plans, teaching materials composition for community empowerment through lectures on environmental education, health and quality of life in Augusto Correia County communities - PA |

|             |  |                       |   |
|-------------|--|-----------------------|---|
| <b>2000</b> | Educating People - University of the State of Santa Catarina (UDESC) | Santa Catarina Brazil | Project education in University Solidarity - REGIONAL (Hours: 160h): preparation of lesson plans, teaching materials composition for community empowerment through lectures on environmental education, saúdee quality of life in Augusto Correia County communities - PA |
| <b>1999</b> | Educating People - Univ. State of Santa Catarina (UDESC)             | Santa Catarina Brazil | education in Popular Education in the peripheries (slums) of Florianópolis - SC   |

## 2.5 Performance of Technical Responsible as Project Manager and / or Technical Participation

- *Business Plan* for Houses Factory deployment Sustentáveis- OPEN SPACE Consulting (2016);
- *Business Plan* for the implementation of Plant *Syncro Thermo Plasm a*, Electricity Generation and Carbon Credit - ECO GRAPHICS EDITOR E PARTICIPAÇÕES SA (2016);
- *Business Plan* for the implementation of Plant *Syncro Thermo Plasm a*, Electricity Generation and Carbon Credit - ECO GRAPHICS EDITOR E PARTICIPAÇÕES SA (2016);
- Study - Environmental Authorization (AuA) Condo Vertical - DSF Construction and Incorporated - Taguatinga - Brasilia / DF (2016);
- Socioeconomic study of SHP - Pindaíba III - Rio Verde / GO;
- Coordination of Land Regularization Project Swallows Condo - Brasília / DF (In Progress) (2015);
- Coordination of Land Regularization Project Condominium Resort Del Rey - Brasília / DF (Concluded) (2015);
- Technical participation in the Basic Environmental Plan of Improvement Works of the BR 101 South - Excerpt Palhoça- Steps Torres / SC (2015);
- Socioeconomic Study of Environmental Impact Assessment (EIA-RIMA) of Fazenda Santo Aurélio - Paracatu / MG (2015);
- Socioeconomic Study of Simplified Environmental Report (RAS) GCH (Generating Hydropower - plants with installed capacity of up to 1,000 kW (1 MW)) - Pindaíba I and II, Montividiu - Rio Verde / MG (2015);
- Participation in the Public Hearing on Municipal Waste Plan Valparaiso Municipality of Solid Goias / GO (2015);
- Reform Project Manager and Construction Units of the Department of Health, Education and Zoo - Brasília / DF (2015);
- Floristic Inventory, Traffic Impact Assessment and Waste Management Plan Solid Structural the Screening Center - Brasília / DF (2014);
- Plan Environmental Lookout North Project Control - Brasília / DF (2014);
- Plan Use and Occupation Residential Villa Celia - Brasília / DF (2015);
- Plan Use and Occupation Residential Crixá - Brasília / DF (2014);
- Environmental Licensing 21 aerodromes located in RS and SC. Banco do Brazil SA (2014/15);
- Environmental licensing of Transnordestina Railway Network. TNL SA (2014);
- Environmental Control Plan Lookout North Lake - 2014; NOVACAP, Brasilia.
- Basic Environmental Plan and Degraded Area Recovery Project Allotment Albert Ville - Valparaiso City of Goiás / GO - 2013. Castanheiras Ventures;
- Environmental Impact Assessment, Environmental Impact Assessment, Environmental Basic Plan and Degraded Area Recovery Project - Project Brasilia Interconnected - BRT - Corridor North Axis . DER, 2013;
- Economic Feasibility Study Technical and Environmental - North-South Railroad - Excerpt Panorama - Chapecó - Socioeconomic Studies (2014);
- Environmental Impact Assessment, Environmental Impact Assessment, Environmental Basic Plan and Degraded Area Recovery Project - Land Regularization Project of Housing Sectors Arniqueira and Bernardo Sayão and industry Mansions Park Wa y. Terracap, 2012;

- Environmental Impact Assessment, Environmental Impact Assessment, Environmental Basic Plan and Degraded Area Recovery Project - *Housing Enterprise Gleba 3* . Atrium, 2012;
- Neighborhood Impact Study, Environmental Impact Assessment, Environmental Impact Assessment, Environmental Basic Plan and Degraded Area Recovery Project - *Allotment High Ribeirão* . Lamb Administrator 2011.
- Basic Plan Environmental and Degraded Area Recovery Project - *Condominium and Aerodrome Fly Ville*. Setep / Construction Locks 2011.
- Technical Report - *Environmental analysis and determination of flood quota Sub-basin of the Jordan Rive* . 2011.
- Technical Report - *Course Revitalization Proposal d'Água for the implementation of housing projects*. (2010).
- Register Socioeconomic - preparation of registration of 475 Buildings at Risk and High Risk Area in 07 Communities of Florianopolis Box Hill, Hill Janga, balloon Morro, Morro of the Rising Sun, Morro Coast, Morro da MacLarem, Morro New Jerusalem (2009);
- Simplified Environmental Study of the Condominium Costão String. Governador Celso Ramos / SC (2009).
- Environmental Compliance Study of Industry Papemborg. Governador Celso Ramos / SC (2009).
- Simplified Environmental Study of the Condominium *Boulevard De Palmas*. Governador Celso Ramos / SC (2009).
- GIS - Thematic Mapping Preparation for Participative Master Plan in Paulo Lopes (2008-2009);
- Geoprocessing - Limit Update State Park of Sierra Board: Municipalities of Palhoça, Paulo Lopes, Garopaba, Imarui, St. Martin, St. Boniface, Warm Waters, Santo Amaro da Imperatriz, Florianopolis (2008);
- Simplified Environmental Study of Allotment Maria Gorete - Gravatal / SC. 2008.
- Simplified Environmental Study of Allotment Saturnino - Grand Para. 2008.
- Simplified Environmental Study of Allotment St. Benedict - Grand Para. 2008.
- Simplified Environmental Study of Allotment Rock - Warehouse. 2008.
- Environmental Compliance Study Allotment Residential Park. 2008.
- Simplified Environmental Study for Opening Municipal Road - Governador Celso Ramos. 2008.
- Environmental Impact Study Allotment Bem-Te-Vi- São José / SC. 2008.
- Socioeconomic Study Allotment oranges - Shark. 2008.
- Simplified Environmental Study for the Course Change Biguaçu River - Biguaçu / SC. 2008.
- Simplified Environmental Study for gravel extraction in Rio das Antas Locales / Rio Branco - Biguaçu / SC the. 2008.
- Simplified Environmental Study for crushing plant - Gravatal / SC. 2008.
- Simplified Environmental Study for Asphalt Plant - Gravatal / SC. 2008.
- Topographical Survey of urban land planialtimetric. 2008.
- Degraded Area Recovery Project Black Water River - Governador Celso Ramos / SC-Brazil. 2007.
- Preparation of Environmental Studies (EIA-RIMA / EAS / RAP / EIV / EVA) Municipalities of: Warehouse Anitápolis, Antonio Carlos, Barra Velha, Blumenau, Bom Retiro, Biguaçu, North Arm, Canelinha, Canoinha, Capivari-de-Low , Florianópolis, Gravatal, Grand Para, Governador Celso Ramos, Guaramirim, Guabiruba, Imbituba, Ituporanga, Cay, Itajai, Itapema, Jaragua do Sul, Otters, Mirim Doce, Navegantes, Palhoça, Pomerode, Porto Belo, Pouso Redondo, Rancho Queimado , Salete, São Bento do Sul, Saint Joseph, Saint Martin, Saint Rose of Lima, Santo Amaro da Imperatriz, South River, Tijucas, Shark (2007-2012);
- Geoprocessing - Thematic Mapping Plan Participatory 13 Municipalities of the Greater Florianópolis - GRANFPOLIS. Tijucas, Governador Celso Ramos, Warm Waters, Angelina, Alfredo Wagner, Leoberto Leal, Trent, St. John the Baptist, Canelinha, St. Boniface, Major Gercino, Burnt Ranch and Anitápolis - (2006 - 2007).

## 2.6 Acting as Speaker



- **2016 - VII Research Seminar on Planning and Land Management - Universidade do Extremo Sul Catarinense**  
Location: Criciúma / SC - November / 2016  
Theme: Environment and Spatial Planning  
**Debates cycles - GOSP**  
Location: São Paulo / SP  
Theme: Business Opportunities in the Low Carbon Economy  
**The paths of environmental consultancy**  
Location: UNB - Brasília / DF
- **2014 - Biomass estimate for profiling Laser**  
Location - MundoGEO Conect (03 h / a) - São Paulo / Brazil;
- **2013 - Theme: Municipal Plan for Solid Waste - Federal Law No. 12,305 / 2010**  
Local - INTERLEGIS - SENATE, Brasília / DF (03 h / a);  
- Municipality of Uruaçu - Goiás (03 h / a);  
- Municipality of Barreiras, Bahia (03 h / a).
- **2013 - Theme: Use of laser profiling applied to mining and the environment.**
- **15th International Mining Congress - EXPOIBRAM (02 h / a)**  
Location: Belo Horizonte. Minas Gerais Brazil
- **2013 - Environmental licensing of dam works (03 h / a)**  
Location: Colégio IESPLAN, Brasília / DF;

### 2.7 Performance in Scientific and Academic Research Projects

- **2003 - 2004** - Basin Environmental Analysis of Araranguá River  
Description: collaborator in the research project having as product dissertation.  
Members: Coordinator: Luiz Fernando Scheibe; Members: Gisele Victor Batista, Sandra Maria de Arruda Furtado, Maria Dolores Buss, et all.  
Funder: National Council for Scientific and Technological Development - Cooperation.
- **2000 - 2001** - The evolution of human occupation in the Sierra Board  
Description: Scientific Initiation Project.  
Members: Chair: Richard Wagner Ad-link Deer; Member: Gisele Victor Batista  
Funder: National Council for Scientific and Technological Development - Exchange.
- 1999 - 2000** - The health of school and the construction of knowledge about learning.  
Description: Scientific Initiation Project.  
Members: Chair: Zenir Maria Koch; Member: Gisele Victor Batista -  
Funder: National Council for Scientific and Technological Development - Exchange.

### 2.8 Performance in Academic and Scientific Production

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| <b>VOX Magazine - Cara and Legislative Voice</b> | 2013 - Current<br>monthly columnist on issues related to sustainability, ethics, innovation and climate change - <a href="http://revistavox.com.br/">http://revistavox.com.br/</a><br>2012<br><i>urban crecimiento y la environmental degradation: el use información del geographic system en la Identification of these conflicts usage de la tierra en la ciudad de San Jose / SC - Brazil. Academic publisher Spanish, v. 16542, p. 1-72, 2012. Email:</i> |
| <b>International journal</b>                     | 2003<br><i>Men confined spaces marked. Geography (Londrina), v. 12, p. 1, 2003</i><br>Brazil   |



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| <p><b>National journal</b></p>                | <p>International Symposium on Environmental Quality - Environmental Regulation, Development and Innovation - Porto Alegre, 2016 (in press)<br/><i>solid waste treatment plants, electric power generation and carbon market: new challenges of Brazil.</i></p> <p>XIV Latin American Forum of Engineering and Sustainability and Brazilian Symposium of Environmental Engineering - Brasilia, 2016.<br/><i>land tenure and urban-environmental regulation policies: the case of federal / Brazil district.</i></p>   |
| <p><b>International Publications 2016</b></p> | <p>4th International Congress on Technology for the Environment - FIEMA - Bento Gonçalves / RS.<br/><i>Geoprocessing applied to the Delineation of watersheds for Environmental Impact Assessment.</i></p> <p>USA<br/>Orlando - Eleventh Conference Iberoamericana en Systems, Cybernetics and Informatics: ICSID in 2012.<br/><i>Evaluation Of The Electronic Government Cartographic Information How Land Management Instrument: Case Study In Capital Of the Brazilian states.</i></p>  |
| <p><b>2014</b></p>                            | <p>Argentina - First Congress of Latin American urban ecology<br/><i>Calidad de las aguas y comerciales effluents: un estudio sobre la polución water caused by them Establecimientos edible en Gravatal / Santa Catarina Brazil. Buenos Aires. Proceedings of the First Congress of Latin American urban ecology 2012.</i></p>  |
| <p><b>2012</b></p>                            | <p><i>Avaliación del Environmental Impact: studio comparative un entre los indicators definen these areas of influence en los estudios ambientales. Buenos Aires. Proceedings of the First Congress of Latin American urban ecology 2012.</i></p> <p>Brazil<br/>Bento Gonçalves - 3rd International Congress on Technology for the Environment - International Fair of Environmental Solutions.<br/><i>Geotechnology for environmental impact assessment: the use of GIS to define flood quota Sub-basin of the Jordan River - Governador Celso Ramos - SC / Brazil.</i></p> <p>Brasilia - PLURIS- 5 Luso Brasileiro For Urban Planning, Regional, Integrated and Sustainable<br/><i>Electronic Government for Territorial Management: Map of interoperability of virtual prior consultation of the municipalities of the Brazilian capitals and the Federal District.</i></p> |
| <p><b>2011</b></p>                            | <p>Costa Rica<br/>San Jose. Autonomous University of Costa Rica<br/>ANAL EGAL 2011- Geographers Meeting of Latin American<br/><i>Use of environmental indicators for impact assessment: environmental expert system as environmental land management tool.</i></p> <p>Brazil - Porto Alegre - 54th. IFHP_PORTO ALEGRE<br/><i>Automation feasibility consultations as social sustainability instrument: System application Environmental Specialist for urban management of São José / SC - Brazil.</i></p>   |
| <p><b>2010</b></p>                            | <p>Mexico - SELPER - Guanajuato. Autonomous University of Guanajuato<br/><i>Utilización Del Informacion System Geographic In La Identificación De Los Conflict Of Use Y Ocupacion From Urban Land: Estudio De Caso En El Municipio San Jose / Sc Brazil.</i></p> <p>Brazil - Florianópolis - VII Day Luso Brazilian Conference on Environmental damage.<br/><i>Geotechnology For Environmental Damage Identification Of How To Support Legal Proceedings Tool.</i></p>   |
| <p><b>National Publications 2016</b></p>      | <p>National Development Day and public policy - V Seminar of applied social sciences: Debates for overcoming socioeconomic inequalities - Universidade do Extremo Sul Catarinense - Criciúma / SC.<br/><i>Public transparency and accessibility challenges: the Internet as an instrument of</i></p>   |

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| <p><b>2015</b></p>        | <p><i>rapprochement between state and citizen in the era of the information society</i><br/>           CONSAD - Public Management Congress of Brazil - Brasília / DF<br/>           The electronic public procurement as a public policy: analysis compared Brazil / Portugal</p> |
| <p><b>1998 - 2015</b></p> | <p><i>Available at Lattes - CNPq.</i></p>   |

### 2.9 Performance in Guidelines Monographs Completion Course Specialization Lato Sensu

- **Liana Gesing Niehues.** Procedures to minimize the problems in relation to solid waste in the municipality of São Ludgero SC. 2012. Monograph. (Specialization in Environmental Management: Licensing and expertise) - University Center Barriga Verde.
- **Alice Macari.** Contribution to environmental licensing of landfills in Santa Catarina: landfill case study CIRSURES Urussanga / SC. 2012. Monograph. (Specialization in Environmental Management: Licensing and expertise) - University Center Barriga Verde.
- **Eliandro Bett Giongo.** Environmental Education Training for Young. Home: 2012. Monograph (Specialization in Environmental Management: Licensing and expertise) - University Center Barriga Verde.

Regards,

**Gisele Victor Batista**

PhD Civil Engineering, Geographer  
 CREA 757623 / D-SC