




HISTORY OF THE DEVELOPMENT OF THE **LIFE** STANDARDS AND **LIFE** CERTIFICATION METHODOLOGY

LIFE-IN-R01

International Version - English

(SEPTEMBER/2012)


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HISTÓRICO DE DESENVOLVIMENTO DOS PADRÕES E METODOLOGIA DE CERTIFICAÇÃO **LIFE**


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Versão Internacional - Português

(SETEMBRO/2012)


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1. INTRODUCTION

The LIFE Certification, a cutting-edge instrument for recognizing businesses' commitment to biodiversity conservation and practices which work in favor of this, was first created and developed in 2008 in the city of Curitiba in Brazil. Since then, a group of specialists, technicians, consultants and business managers, together with representatives of government, academia and civil society, have worked to develop the LIFE Certification Methodology, based on the following premises:

- The conservation of biodiversity as a voluntary act;
- The need for performance in conservation which is compatible with potential impacts both on biodiversity and on investment capability, with a view to fostering the involvement of medium and small businesses;
- Objectivity, gained through quantifying impacts and scoring conservation actions based on scientifically-recognized technical criteria; and,
- Applicability to any size or sector of business.


The bases of the LIFE Certification Methodology were developed in Brazil, this process involving over 198 professionals and 96 organizations in public meetings, technical meetings and pilot-audits, and culminating in the launch, in August 2011, of Version 1.0 (Brazil) of the LIFE Certification Standards and LIFE Technical Guides 01 and 02.

As it is an instrument with international applicability, the LIFE Certification is adaptable to any country. The work of adaptation is carried out based on the methodology developed by the LIFE Institute, always taking the latest official versions approved by the LIFE Institute and used in Brazil as a reference.

The process of international adaptation also involves the participation of specialists and consultancies, the formation of a National Technical Committee, and the carrying out of Public Consultations.

2. OBJECTIVE

This document aims to relate the principal historical aspects related to the development of the LIFE Standards and LIFE Certification Methodology. It deals with the main facts which occurred before the launch of the first versions of the LIFE Certification Standards and LIFE Technical Guides 01 and 02.

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3. APPROVAL

Document approved by the LIFE Institute Executive Secretariat.

4. HISTORY OF THE DEVELOPMENT OF THE LIFE CERTIFICATION


Below are presented the main steps that were part of the historical development of the LIFE Certification.

4.1 Conception of the LIFE Certification Idea

In February 2008, the institutions listed below initiated discussions which led to the idea of, and building of, LIFE Certification. The group founded an initiative to be developed jointly by their institutions with the aim of developing and implanting a “System of Voluntary Regulation” through an integral certification aimed at organizations in the public and private sectors, with a focus on biodiversity conservation.

Among the founding institutions of LIFE Certification are:

- **Fundación Avina:** created in 1994 by the Swiss businessman Stephan Schmidheiny. It is maintained by the VIVA Trust, a fiduciary fund created by Schmidheiny to drive the sustainable development of Latin America through the building of links of confidence and fruitful alliances between social leaders and business people, in a successful and responsible way;
- **Boticário Group Foundation (FGB, in Portuguese):** created in 1990 at the wish of Miguel Gellert Krigsner, founder of the Brazilian company O Boticário, with the objective of undertaking actions aimed at preserving nature as an expression of corporative responsibility. With an international scope, it supports other organizations’ projects and actions aimed at raising societal awareness of the conservationist cause. In Brazil, it maintains the Salto Morato Nature Reserve, where it preserves 1,716 hectares of primary Atlantic Forest in an area considered by UNESCO to be a “Biosphere Reserve”, while in the Brazilian Mid-West it maintains the “Serra do Tombador Nature Reserve” in an area of the Brazilian Savannah biome;
- **Posigraf:** created in 1972 by the founders of the Grupo Positivo, it is today the largest printing company in Brazil and one of the largest in Latin America, being the first in its segment in Brazil to obtain ISO 9001 and 14001 certification. It carries out actions in favor of the environment, such as reduction of and compensation of greenhouse gases, and supports the protection of

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an important remaining fragment of Araucária Forest in the South of Brazil; and,

- The Society for Wildlife Research and Environmental Education (SPVS, in Portuguese): founded in 1984 in Curitiba, it is recognized as one of the most important Brazilian non-governmental organizations working in nature conservation, having developed innovative projects for biodiversity conservation, combat against climate change, and other initiatives held as models of partnership with the private sector.

4.2 Benchmark Study


Still in 2008, after the basic structure and scope for the LIFE Certification had been defined, equally at the initiative of the institutions cited above, a wide and extensive benchmark study was carried out, so as to guarantee the innovative nature of the mechanism to be developed.

Knowing that the LIFE Certification was going to be based on the evaluation of biodiversity conservation actions undertaken by the enterprises to be certified, the research focused on the surveying of biodiversity conservation actions, applicable to the entire business sector, irrespective of the organizations' size or area of activity. The actions investigated were divided into the following Groups: (1) Conventions and international treaties related to biodiversity conservation and/or defense of the environment; (2) Certifications and (3) Schemes.

The following information was collected for each of the three Groups:

- Group 1: (i) Objective; (ii) Relevant observations (dates of creation, reformulations and others); Relevant items or articles;
- Group 2: (i) Objective; (ii) Relevant observations (dates of creation, reformulations and others); (iii) Principles and criteria; and,
- Group 3: (i) Objective; (ii) relevant observations (dates of creation, reformulations, parallel initiatives and others); (iii) Principles.


In group 1, the following International Conventions and Accords were investigated: Convention on the Conservation of Migratory Species of Wild Animals; The Convention on International Trade in Endangered Species of Wild Fauna and Flora; Convention on Wetlands of International Importance especially as Waterfowl Habitat; Convention Concerning the Protection of World Cultural and Natural Heritage; The International Treaty on Plant Genetic Resources for Food and Agriculture; Global

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Invasive Species Program; Convention on Biological Diversity; Agenda 21 (Global) and Agenda 21 (Brazil); The United Nations Framework Convention on Climate Change; The Rio Declaration on Environment and Development; The Statement of Forest Principles; Rio+10 – Political Declaration of the World Summit on Sustainable Development; The Basel Convention; The Madrid Protocol; The Treaty for Conservation of Aquatic Fauna in Frontier-zone Rivers (Brazil and Paraguay); Agreement on Cooperation in Combating Illicit Timber Smuggling; The Annapolis Protocol; The United Nations Convention to Combat Desertification in those countries experiencing severe drought and/or desertification, particularly in Africa; The International Convention on Oil Pollution; The Convention on Environmental Impact Assessment in a Transboundary Contexts and the Convention on the Transboundary Effects of Industrial Accidents.

In Group 2, the following Certifications were brought up: Rainforest Alliance – Sustainable Agriculture Network; Global GAP Integrated System for Guarantee of Production; IFOAM – Generic Standards; RSPO – Principles and Criteria for Sustainable Palm Oil Production; RTRS – Roundtable for Responsible Soy Association; RSB – Roundtable on Sustainable Biofuels; BMP’s – Better Management Practices for Water Thirsty Crops Project (Cotton and Sugarcane – Crop Management Review); Basic Cotton Manual; Best Aquaculture Practice Standard – Global Aquaculture Alliance; IFOAM – Basic Standards for Aquaculture; UTZ Certified; CCBA – The Climate, Community and Biodiversity Alliance; GHG Protocol; ISO 14064; ISO 14065; The Gold Standard – Premium Quality Carbon Credit; US Energy Star; EU Energy Label; FSC – Forest Stewardship Council; PEFC – Program for the Endorsement of Forest Certification; Revised ITTO Criteria and Indicators for the Sustainable Management of Tropical Forests; Pan European Operational Level Guidelines; FSC/HCVF approach; EU EMAS – Eco Management and Audit Scheme; ISO 14040: Product Life Cycle; MSC – Marine Stewardship Council; The Flower – EU Eco-label Scheme; Sustainable Tourism Stewardship Council; Environmental and Social Management System – International Finance Corporation Performance Standard 1; Biodiversity Benchmark – The Wildlife Trust; Guidelines for Integrating Biodiversity Conservation into Oil & Gas Development – The Energy and BD Initiative; UE Impact Assessment Directive; Environmental and Social Impact Assessment Guidelines – Cement Sustainability Initiative; Business and Biodiversity Offsets Program; Life Cycle Assessment and Management – UNEP Life Cycle Initiative.


In Group 3, the following initiatives were analyzed: The UN Global Compact – Environmental Principles; CERES Principles – Investors and Environmentalists for Sustainable Prosperity; The Equator Principles – International Finance Corporation; Sustainable Development Framework – International Council for Mining and Minerals; Environment Performance Indicators – Global Reporting Initiative; Covalence Criteria; Biodiversity Benchmark Framework – Fauna and Flora International; Ethos Indicators for Corporate Social Responsibility; The Corporate Sustainability Index - ISE Bovespa; The

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Sustainability Guide of the Brazilian Institute of Corporate Governance; Dow Jones Sustainability Index; FTSE The Index Company.

In addition, an investigation was carried out in the Brazilian Federal government and in the tertiary sector, about programs and projects relevant to the conservation of protected areas and Brazilian biodiversity. This study was divided into three sections: (1) Federal government programs; (2) Tertiary sector programs – large scale; (3) Tertiary sector programs – small and medium scale. For Sections 1 and 2, the objectives and other information were researched, as well as the content of the program or project. For Section 3, a description was provided of the Project or program analyzed.

In Section 1, the following initiatives were brought up: Pilot Program for Protection of Brazil's Tropical Forests (PPG7); Protected Areas of the Amazon Program (ARPA, in Portuguese); The Brazilian Institute of Geography and Statistics (IBGE, in Portuguese) – Map of Biomes and Vegetation. Programs/Projects of the Brazilian Ministry for the Environment, such as: Priority Areas and Actions for Conservation in Brazilian Biomes; The Ecological Corridors Project; The Program for the Revitalization of the Rio São Francisco Basin; The National Protected Areas Program. RAMSAR Sites; The Program for Volunteering in Conservation Units; The Campaign for Awareness relating to Natural Environments; World Heritage Sites; UNESCO – Man and Biosphere; Exotic Invasive Species – National Strategy; Public Policies related to Agrobiodiversity; National Initiatives relating to Coral Reefs; The Mangrove Program – GEF Mangrove; Environmental Segment of the Brazilian Antarctic Program; Marine Protected Areas and Fisheries; The Sustainable Amazon Plan (PAS, in Portuguese); The Program for the Development of Ecotourism in the Brazilian Amazon; The National Plan on Climate Change; The National Plan for Water Resources; The National Program for Subterranean Water; The Program for the Revitalization of Water Basins; Environmental Licensing of Rural Properties – National and Amazonia; Project Shore; The Program for the Evaluation of the Sustainable Potential of Live Resources in the Exclusive Economic Zone; The Mosaic of Conservation Units. Various projects and initiatives from the Chico Mendes Institute for Biodiversity Conservation (ICMBio, in Portuguese) such as: Steps for Conservation Developed; The List of Endangered Species; Fostering Scientific Research and the Drafting of Management Plans; The National Center for the Researching (CMA, in Portuguese), Conservation and Management of Aquatic Mammals; The National Center for Research for Conservation of Woodland Birds (CEMAVE, in Portuguese); The National Center for Research for Conservation of Natural Predators (CENAP, in Portuguese); The Center for Research and Management of Fishing Resources in the Northeast Coastal Region (CEPENE, in Portuguese); The Center for Research and Management of Fishing Resources in the Northern Coastal Region (CEPNOR, in Portuguese); The Center for Research and Management of Fishing Resources in Lagoons and Estuaries (CEPERG, in Portuguese); The Center for Research and Management of Fishing Resources in the

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Southeast and Southern Coastal Region (CEPSUL, in Portuguese); The Center for Research and Management of Aquatic Biodiversity and Continental Fishing Resources in Amazonia (CEPAM, in Portuguese); The National Center for Research and Conservation of Continental Fish (CEPTA, in Portuguese); The Center for the Protection of Brazilian Primates (CPB, in Portuguese); The Center for Research into Reptiles and Amphibians (RAN, in Portuguese); The National Center for Sustainable Development and Traditional Populations (CNPT, in Portuguese); The National Center for the Study, Protection and Management of Caves (CECAV, in Portuguese); The National Center for Orchids and Ornamental, Medicinal and Aromatic Plants (COPOM, in Portuguese) and the National Center for the Conservation and Management of Marine Turtles (TAMAR, in Portuguese).

For the same Section, equally several initiatives were brought up, from the Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA, in Portuguese), such as: Surveying of Areas at Risk; Ecological-Economic Brazilian Zoning; Environmental Zoning; Systematic Planning for Conservation (PSC, in Portuguese). In addition, the following initiatives between countries were studied for Section 1: the Brazil/Germany Demonstration Projects Treaty; The Brazil/Colombia Cooperation Treaty; the Brazil/Peru Treaty for the Conservation of Amazonian Flora and Fauna; Bilateral Acts Brazil/Countries of South America; The Mercosul Framework Agreement on the Environment; and the Inter-American Convention for the Protection and Conservation of Marine Turtles.

The following large-scale projects from the tertiary sector were investigated in Section 2: Hot Spots – Conservation International; Important Bird Areas (IBAS) – Birdlife International; Key Areas for Biodiversity Conservation – Conservation International; Networks of Protected Marine Areas – Conservation International; National Pact for the Valuing of the Forest and for the End of Deforestation in the Amazon – various NGOs; Red List of Threatened Species – International Union for Conservation of Nature (IUCN); Campaign for the Sustainability of the Planet – The Nature Conservancy (TNC); the Biosphere Reserve for the Marine Zone – Partners AVINA and Biosphere Reserve of the Atlantic Forest (RBMA, in Portuguese); Protection of the Oceans – Greenpeace and the International Whaling Commission (CIB, in Portuguese).

For Section 3, programs and projects were selected from the following non-governmental organizations: Conservation International; IUCN; TNC e World Wide Fund for Nature (WWF). The following projects were also brought up: Protecting Tropical Forests for Reduction of Carbon Emissions – TNC/SPVS, and the Right Whale Project – Whale Conservation Institute (WCI).

The results of the benchmark study, concluded in October 2008, confirmed the innovative nature of the LIFE Certification, indicating that it was the first certification for biodiversity conservation on a

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worldwide level. As a result, development of the methodology was continued.

4.3 Approach to Organizations of Public and Private Sectors

After the benchmark study had been concluded, an extensive program of visits to private and public sector organizations was started, with the aim of raising awareness among influential persons and decision-makers, such that adherence to the proposal of LIFE Certification should be through institutional support or financial backing. The list of organizations and companies approached in this stage, which extended from October 2008 until June 2009, may be found in Annex I.

4.4 Formation of Working Groups and Technical Meetings for the Definition of the LIFE Criteria

Early in 2009, researchers and professionals from the Fundación Avina, the Boticário Group Foundation (BGF), the Society for Wildlife Research and Environmental Education (SPVS), Posigraf and the Technical Institute of Paraná (Tecpar, in Portuguese) carried out a series of technical meetings and work groups with the aim of discussing the Criteria relevant to LIFE Certification and advancing the consolidation of the methodology.


A consultant specializing in the area of nature conservation was hired in the same period, to describe in detail the biodiversity conservation actions to be given points under the LIFE Certification System and to develop the scoring system for these.

4.5 Assembly for the Constitution of the LIFE Institute

Simultaneously with the consolidation work of the LIFE Certification Methodology, the founders of the LIFE Certification project worked on structuring the LIFE Institute, whose legal constitution came on 15th of May 2009, in the city of Curitiba/Brazil, when the first members of the General Assembly, Board of Directors and Executive Secretariat were elected/indicated.

During the meeting the Statute was analyzed and then approved unanimously. As provided in the Statute, in the meeting there were considered as founding members and therefore permanent members of the General Assembly body, all in the Assembly.

The first elected members of the Board of Directors were: Miguel Serediuk Milano, Clovis Ricardo Schrappe Borges, Glem Raduy Guimarães and Miguel Gellert Krigsner. Clovis Borges was elected Chairman of the Board of Directors and Miguel Milano Vice-President. The Executive Secretary elected was Andrea Rose Drapier.

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4.6 Preliminary Version of the LIFE Certification Regulation

As a result of those technical meetings and work groups, the preliminary version of the first technical document of the LIFE Certification was drafted, the “LIFE Certification Regulation”. This document was based on compliance with the Legislation; Criteria for Environmental Management and Business as well as guidelines for the implementation of Actions for Biodiversity Conservation.

4.7 Launch of the LIFE Institute


The LIFE Certification Regulation was presented on 17 July 2009, during the launch of the LIFE Institute in the city of Curitiba in the Brazilian state of Paraná. On this day, the LIFE Institute was officially recognized before the public as an institution responsible for preserving the continuous development of LIFE Certification.

About 250 people from various sectors of society participated, including academia, associations, consultancies, companies, governmental agencies, non-governmental organizations, partners and others. Among the VIPs were the (then-) ministers Carlos Minc (Brazilian Minister of State for the Environment) and Paulo Bernardo Silva (Brazilian Minister of State for Planning), and Roberto Richa (Mayor of Curitiba at that time); in addition, there was support from the Convention on Biological Diversity in the person of Dr. Ahmed Djoghla (at that time the Executive Secretary of the United Nations Convention on Biological Diversity, via the sending of a statement recorded specially for the occasion (available on YouTube: <http://www.youtube.com/watch?v=VXt14M7ViLk>). Below, some photographs taken during the launch of the LIFE Institute in Curitiba, Paraná (Figures 1 and 2).

Figures 1 and 2: Photographs of the launch of the LIFE Institute



The first meeting of the Board of Directors took place on the afternoon of the same day as the launch of the LIFE Institute and the LIFE Certification. The Board members were presented with the history of

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the works of building the LIFE Certification and its challenges for the future.

4.8 Improvement of the LIFE Certification Methodology

A preliminary version of the LIFE Certification Regulation was presented during the LIFE Institute's launch. The Annex V (Biodiversity Conservation Actions), an important part of the Regulation was still in a developmental phase on the day of the launch. This being so, the LIFE Institute team, with the support of external consultants, carried on in the following period with completing and finalizing the LIFE Certification Regulation.


The Annex V was developed based on a consultancy work and brought together various biodiversity conservation actions for consideration in the process of LIFE Certification. These were divided into the six topics below, each being composed of a set of themes.

- Protected areas;
- Species of conservation interest;
- Fragmented habitats and ecological corridors
- Sustainable use of resources;
- Support for conservationist public policies; and,
- Sharing of benefits.

Annex V considered subjects whose scope aimed to encompass the most incisive actions, most directly geared to the conservation of indigenous biodiversity. Strategically, the actions encompassed three basic conservation elements: (i) Preserve and protect natural environments; (ii) Protect indigenous species and; (iii) Reduce or eliminate impacts on these two elements. In addition, a scoring system was proposed which would allow the performance (in conservation actions) of organizations in the process of LIFE Certification to be evaluated quantitatively.

4.9 First Test-Audit

As well as the work done on finalizing the LIFE Certification Regulation, in November 2009 the first test-audit was undertaken, in the Posigraf company. This applied the methodology as developed at that time to a genuine business environment.

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4.10 Submission of the LIFE Certification Regulation to Expert Analysis

In March 2010 the first version of Annex V, along with the other contents of the preliminary version of the LIFE Certification Regulation, was submitted for critical analysis by five specialists selected by the LIFE Institute. Their suggestions, recommendations, criticisms and other feedback were evaluated by the LIFE Institute Technical Area, being considered where relevant in the development process of the LIFE Certification Methodology.

4.11 Set up of Temporary Technical Commissions


In April 2010, the LIFE Institute set up, as called for in the LIFE Institute Statutes, Temporary Technical Commissions to deliberate on the solutions given to points which had remained unsettled in the LIFE Certification Regulation. These Commissions were formed by contracting the following technical consultancies:

- **Technical Consultancy 01 – LIFE Certification System:** detailing, revision and normatization of the flows, processes and procedures of LIFE Certification;
- **Technical Consultancy 02 – Evidence of Meeting Legal Requirements:** identifying the principal legal evidence for the environmental, labor, social security and fiscal indicators dealt with in the LIFE Certification Regulation;
- **Technical Consultancy 03 – Mathematical Factor:** validation of the method for calculating environmental impact utilized by the LIFE Certification;
- **Technical Consultancy 04 – Matrix of Significance of Environmental Impacts:** calibration and validation of the matrix of significance of environmental impacts;
- **Technical Consultancy 05 – Biodiversity Conservation Actions:** revision and refinement of the aspects and criteria for scoring biodiversity conservation actions developed; and,
- **Technical Consultancy 06 – Environmental Database - Brazil:** identification of information on environmental aspects (based on Brazil) for defining reference values for the Mathematical Factor (see above).

4.12 Development of LIFE Technical Documents – Phase I

In May 2010, based on the results obtained so far by the Temporary Technical Commissions

Only documents available on the LIFE Institute website may be considered updated official versions. When using printed versions, it must be checked that these are the most up-to-date, this being the exclusive responsibility of the user of the document user.

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mentioned above, the Technical Area of LIFE Institute started the drafting of the preliminary versions of the following technical documents: LIFE Certification Standards and LIFE Technical Guides 01 and 02 - all generated from the LIFE Certification Regulation.

4.12.1 LIFE Certification Standards

LIFE Certification Standards were made up of a set of Premises and Principles, being associated to each Principle, specific Criteria and indicators.

The Premises have their origins in Annex IV of the LIFE Certification Regulation - “LIFE Certification Premises for Biodiversity Conservation Actions”. The Premises in the Annex in question were revised by the LIFE Institute Technical Area so as to bring them into line with the objectives of the Convention for Biological Diversity and to feed into the LIFE Certification Standards.

For the set up of the LIFE Certification Principles, Criteria and indicators, the LIFE Institute’s Technical Area based its work on the Mandatory Requisite to Comply with Legislation and on the Criteria for Business and Environmental Management, both contained in the LIFE Certification Regulation.


4.12.2 LIFE Technical Guide 02

The Life Technical Guide 02, created with the aim to evaluate quantitatively the performance (in terms of biodiversity conservation actions) of organizations in the process of LIFE Certification, was originated from Annex V of the LIFE Certification Regulation.

After issuance of the opinions of experts to which Annex V of the LIFE Certification Regulation was submitted in March 2010, it underwent in April 2010 through a phase of improvement of the scoring system. This study was performed by the set up of a Temporary Technical Commission characterized by the recruitment of the Technical Consultancy 05 "Actions for Biodiversity Conservation”.

4.12.3 LIFE Technical Guide 01.

The LIFE Technical Guide 01, which describes part of the methodology utilized in LIFE Certification’s quantitative approach, which itself aims to determine the minimum performance demanded in biodiversity conservation actions of organizations of any size or sector, was developed based on Criteria 2, “Assessing Aspects of Management and Environmental Impacts”, of the LIFE Certification Regulation.

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According to the Criteria created at the time, all candidate organizations for LIFE Certification should initially be evaluated in relation to their compliance with the Legislation and the Criteria of Environmental and Business Management. The evaluation of the guidelines for biodiversity conservation actions would be carried out only after fully satisfactory compliance with the Criteria for Legislation and with Environmental and Business Management. The “External Impact on the Enterprise Factor” was established as a reference for determining the biodiversity conservation actions. According to the Regulation, the evaluation of the significance of impact should be carried out by the following mathematical equation:

$$SIGNIFICANCE\ FACTOR = (F \times S \times A)^{11}$$

Where:

“F” = Frequency;


“S” = Severity; and,

“A” = scope.

The methodology of quantification of environmental impacts proposed in the LIFE Regulation was further improved through the work of the Temporary Technical Commissions 03 (Mathematical Factor); 04 (Matrix of Significance of Environmental Impacts); 06 (Environmental Database) as well as through the efforts of the LIFE Technical Area and of specialists.

The calculations for obtaining organizations’ Negative Impact Values (NIV) were initially based on the parameters related to waste generation, water consumption, energy use, emission of greenhouse gases and use of materials by the client organization. At the time, ‘use of materials’ was understood as meaning the characteristics of the principal inputs of production, the final product, and its associated impacts on biodiversity. The NIV was expressed by the product of the quantities of the parameters already outlined of water, energy, waste generation and emission of green house gases. Based on the NIV, LIFE established the minimum performance, in terms of the score which an organization should achieve in biodiversity conservation actions (BCA_{minimum}).

With the continuous development of the quantification impacts methodology the term Negative Impact Value (VIN) was re-named to Total Value of Significance (VST).

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4.13 Development of LIFE Technical Documents – Phase II

During the second phase of the development of the technical documents of LIFE Certification, two pilot-audits were carried out and a Public Consultation period to discuss specific issues related to the documents under development.

4.13.1 Pilot-Audits: Posigraf and Boticário Group

The LIFE Certification Methodology developed during Phase I was tested in enterprise-level, through two pilot audits. The first took place from 16th to 18th of June 2010 in the Posigraf company (Gráfica e Editora Posigraf S/A) and the other was from 21st to 23rd of July 2010 in the G&K Holding (Boticário Group). Both companies located in Curitiba/Brasil. The results of the pilot-audits contributed to the improvement of the LIFE Certification Methodology under development.

The audits were performed by auditors of the Tecpar being accompanied by members of the Technical Area of the LIFE Institute and in certain cases by consultants hired by the LIFE Institute.

4.13.2 Public Consultation

Between August and September of 2011 specific issues regarding the LIFE Certification Methodology developed so far have been discussed publicly, by means of four Public Meetings which took place on the following dates and places:

- 08/20/2010 - São Paulo;
- 08/24/2010 – Rio de Janeiro;
- 08/30/2010 – Brasília; and,
- 09/02/2010 – Curitiba.

For these Public Consultations, a total of 240 invitations were issued, to representatives of academia, business, government and civil society, as well as consultants. Annex II of this document presents the complete list of people invited, classified by type of stakeholder.

Figures 3 and 4, below, refer to photographs of some of the Public Meetings carried out.


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Figure 3: Public Meeting in São Paulo



Figure 4: Public Meeting in Rio de Janeiro



4.13.2.1 Objectives

The general objective of the Public Meetings was to involve the different parties in the development and refinement of the LIFE Certification Methodology. The following specific objectives were defined:

- Present the structure of the work and the actions already developed by the LIFE Institute;
- Present, and publicly discuss, the Standards for development of the LIFE Certification;
- Carry out group dynamics involving actors from academia, companies and civil society so as to revise and define Criteria, indicators and verifiers;
- Present the concepts of the LIFE Quali-quantitative Methodology; and,
- Present the LIFE Certification Methodology for evaluation of biodiversity conservation actions.


4.13.2.2 Participants

The following classes of stakeholders were identified for participation in the Public Meetings: Academia; Government; Business Sector and Civil Society. Below, participants in the Public Meetings are given, classified by stakeholder class and location.

4.13.2.2.1 São Paulo

The Public Meeting held in São Paulo had the following participants:

- Academia

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Name	Institution
Paulo Artaxo	-
Thomas Lewinsohn	ABECO/Campinas

- Government

Name	Institution
Antonio Tafuri	DCBIO/SBF/MMA/Brasília

- Business Sector

Name	Institution
Ana Beatriz de Souza Ferreira	Petrobras/Rio de Janeiro
Ana Paula Ramos	Petrobras/Rio de Janeiro
Cláudia Nakamura	Petrobras/São Paulo
Peter Susemihl	Instituto EcoSocial
Natalia Lutti Hummel	DNV/São Paulo

- Civil Society


Name	Institution
Alexandre Harkaly	IBD Certificações/Botucatu
Cristiane de Moraes	UEBT/São Paulo
Helene Menu	UEBT/São Paulo
Marcelo Langer	Consultor LPAF/Curitiba

4.13.2.2.2 Rio de Janeiro

The Public Meeting held in Rio de Janeiro had the following participants:

- Academia

Name	Institution
Fernando Fernandez	UFRJ
Ricardo Aguilar Galeno	IEF/MG

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- Government

Name	Institution
Alberto Jorge da Rocha Silva	MMA/Brasília
Antonio Tafuri	DCBIO/SBF/MMA/Brasília

- Business Sector

Name	Institution
Alexandra Z. Mendes Silva	EMBRATEL/Rio de Janeiro
Ana Carolina Srbek de Araujo	VALE/Linhares-ES
Angela Tresinari	MPX/Rio de Janeiro
Luiz Felipe C. de Campos	VALE/Linhares-ES
Maria Cristina Ribeiro	SUEZ/BH E RJ
Paulo Monteiro B. Filho	MPX/Rio de Janeiro
Veronica Theulen	MPX/Rio de Janeiro

- Civil Society

Name	Institution
Adalberto Eberhard	ECOTROPICA/Cuiabá-MS
Alexandre Ferrazoli Camargo	FUNBIO/Rio de Janeiro
Daniela Lerda	CEBDS/Rio de Janeiro

4.13.2.2.3 Brasília


The Public Meeting held in Brasilia had the following participants:

- Academia

Name	Institution
Arnaldo Freitas de O. Jr	IFMG/Belo Horizonte

- Government

Name	Institution
Antonio Tafuri	DCBIO/SBF/MMA/Brasília
Alan Boccato	MMA/DEX/Brasília
Andrea Vulcanis	IBAMA/Brasília

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Name	Institution
Claudio Ritti Itaborahy	ANA/Brasília
Daniela S. Nascimento	MMA/SEDR/Brasília
Eric Stoner	USAID/Brasília
Hans Dorresteijn	União Européia/Brasília
Jimmy Yamamura	Emb. Japão/Brasília
Taciana Cavalcanti	EMBRAPA/Brasília
Tulio César Gomes Pinho	MMA/DEX/CEX/Brasília
Yusuke Saito	Emb. Japão/Brasília

- Business Sector

Name	Institution
Arilton Sousa	WALMART/Brasília

- Civil Society


Name	Institution
Angelo Rabelo	IHP/Cuiabá-MS
Fernanda Gimenes	CEBDS/Brasília
João Meirelles	PEABIRU/Belém-PA
Mariano C. Cenamo	IDESAM/Manaus-AM
Roberto Xavier de Lima	SPVS-Neotrópica Consultoria/Brasília

4.13.2.2.4 Curitiba

The Public Meeting held in Curitiba had the following participants:

- Academia

Name	Institution
Andre Bittencourt	UFPR/Curitiba
Carlos Firkowski	UFPR/Curitiba
Celso J. Rubin Filho	UEM/Maringá
Fernando de Camargo Passos	UFPR/Curitiba
José M. Andriguetto Filho	UFPR/Curitiba
Luciane Marinoni	UFPR/Curitiba

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- Government

Name	Institution
Henry de Novion	MMA/Brasília
João Antônio Cordoni	ITAIPU/Foz do Iguaçu
Luiz Carlos Balcewick	DCBIO/SBF/MMA/Brasília
Newton Luiz Kaminski	ITAIPU/Foz do Iguaçu

- Business Sector


Name	Institution
Cícero Rohr	Master/Curitiba
Debora Neves Lemos	STCP/Curitiba
Isadora de Mali	Master/Curitiba
Lorena Dambiski Delfino	TECPAR/Curitiba
Marcelo Posonski	SILVICONSULT/Curitiba
Marília T. Rodrigues Basniak	Ecosistema Consult. Amb/Curitiba
Mônica Breda	STCP/Curitiba
Romulo Souza Lisboa	STCP/Curitiba
Sandro Coneglian	-
Sergio Roberti Vieira	COPEL/Curitiba
Virlene Marcia Coturi	TECPAR/Curitiba

- Civil Society

Name	Institution
Anita Diederichsen	TNC/Curitiba
Cristiane Pacheco	Instit. Justiça Amb/Porto Alegre
José Álvaro da Silva Carneiro	Hosp. Peq. Príncipe/Curitiba
Juliana Strobel	AVINA/Curitiba
Karina L. de Oliveira	Mater Natura/Curitiba
Leide Takahashi	Fund. Boticário/Curitiba

4.13.2.3 Subjects Discussed

Each of the Consultations held involved the presentation of the following topics:

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4.13.2.3.1 LIFE Certification Standards

The Principles, Criteria, indicators and Verifiers of LIFE Certification were presented for analysis by the three groups of stakeholders, with the aim of obtaining either their validation and approval or suggestions for improvement and the incorporation of other points to be met by the LIFE Institute's objectives.

4.13.2.3.2 Concepts for the Quantitative Evaluation of the Impacts

Introduction to the following concepts related to the methodology for quantifying impacts:


- Value for Total Significance (VTS);
- Minimum performance in scoring for biodiversity conservation actions (BCA_{minimum});
- Environmental aspects: (i) Water consumption; (ii) Energy use; (iii) Emission of greenhouse gases; (iv) waste generation; and,
- Criteria for determining environmental impacts:
 - Quantity of the impact in the organization in reference to the state or national value and,
 - Severity of the impact, based on the following points: (i) Water availability; (ii) Potential of the gases for global warming; (iii) Class I Wastes; (iv) Energy matrix.

Remaining on the topic of the quantitative evaluation of the impact, the concept of LIFE scoring at that time was also tackled, as was its objective: the defining of actions and minimum results for biodiversity conservation, as a result of the activities carried out by an organization.

4.13.2.3.3 Information and Concepts of LIFE Certification for Evaluation of Biodiversity Conservation Actions

In this session, the Groups and Themes defined so far for scoring biodiversity conservation actions carried out by a organization were presented. The following Groups were discussed in the Public Consultation:

- G1 – Protected areas;
- G2 – Species of conservation interest;

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- G3 – Fragments and conectivity;
- G4 – Sustainable use of resources; and,
- G5 – Support for conservation actions carried out by third parties.

4.13.2.4 Activities Undertaken


To guarantee the impartiality and moderation of Public Meetings, these were conducted by an independent organization, the Ecosocial Institute. The dynamic used for the meetings was made up of the following stages:

- Presentation of the LIFE Institute;
- Presentation of LIFE Certification’s Principles and Criteria;
- Handing out material for reading;
- Group discussions; and,
- Presentation of results and the groups’ contributions.

Along with the reading material, a questionnaire was handed out, to be filled out individually by each participant. After that, the participants get together, according to their area of representation, in the following groups: (i) Academia; (ii) Government; (iii) Business Sector and (iv) Civil Society. The groups discussed the questions and defined the principal points for each subject dealt with, after which they presented their findings to the others.

4.13.3 Feedback from the Public Consultations

In December 2010, feedback dealing with the most important results of the Public Meetings held between August and September 2010 was made available on the LIFE Institute website. The feedback included the principal points raised by society in the Public Meeting, with each question discussed being accompanied by a verdict elaborated by the LIFE Institute. The feedback was made available at the time on the LIFE Institute website. For historical purposes the document is kept until today on the website.

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4.14 Development of LIFE Technical Documents – Phase III

The third phase of development of the LIFE Certification Methodology was characterized by continual refinement of methodological issues by the technical consultants and by the Scientific-Technical Committee; by the pilot audits and in the end by the launch of the of versions 1.0 of the LIFE Certification Standards and the LIFE Technical Guides 01 and 02.

4.14.1 Refinement of Methodology for Quantifying Environmental Impact


After the Public Consultation had been finished and the verdicts of the specialists consulted had been received, development of the methodology for measuring environmental impact was resumed, taking into consideration both the specialists' opinions and the contributions received during the Public Consultation. It was in this context that the following environmental aspects were defined for the quantification of environmental impact:

- Quantity of solid waste generated by the client organization;
- Quantity of greenhouse gases emitted by the client organization;
- Quantity of water consumed by the client organization; and,
- Quantity of energy consumed by the client organization.

Based on the environmental aspects listed, calculations were developed which would allow the obtaining of the total indexes of quantity and severity of the environmental impact caused by a client organization. Based on the total indexes for quantity and severity, the Potential Value of Impact on Biodiversity (VPIB) was determined, which measured the potential impact which a client organization might cause to the environment.

4.14.2 Pilot-Audits: Magistral and Gaia

In February 2011 two more pilot-audits were undertaken to test the LIFE Certification Methodology in a business context. The first one was carried out in the company Magistral (Magistral Impressora Industrial) and the other in the Gaia advocacy office (Gaia, Silva, Gaede & Associados S/S - Consultoria Empresarial).

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4.14.3 Setting up the Scientific-Technical Committee

The LIFE Technical-Scientific Committee was set up in March 2011 with the objective of deepening themes which require technical and scientific discussion - such as Principles, Criteria, indicators and themes related to LIFE Certification Methodology - and of providing; in the first instance, advice to the Board of Directors.


The Committee consisted of specialists in the theme for which they were responsible, originated from the Primary, Secondary and Tertiary Sectors and from Academia, its members being selected by the LIFE Institute itself.

The first meeting, through which the Technical-Scientific Committee was created, was held in March 2011. To ensure standardization of information among its members, the LIFE Institute presented its history, its mission, the flowchart of the certification process, and its governance, as well as information about the Technical-Scientific Committee itself, such as: functions of governance, how it works, and presentation of the specialists. Subsequently, the LIFE Certification Methodology was presented, opening a space in the sequence for the joint task of evaluating and proposing general subjects related to LIFE Certification.

Later, the specialists were divided into two groups (1- Management of Impacts on Biodiversity and 2 – Biodiversity Conservation Actions) for discussion and definition of the guidelines for specific questions determined by the LIFE institute for each one of the groups. The questions were presented by the LIFE Institute, following which they were discussed by the group, always seeking consensus among the members. The table below provides the names of the professionals who participated in the first meeting of the Technical-Scientific Committee.

Participants in the first meeting of the Technical-Scientific Committee:

PARTICIPANT	ORGANIZATION
André Bittencourt	Federal University o Paraná
Georges Kaskantz Neto	Federal University o Paraná
Marcellus Fontanelle	University of the West of Santa Catarina
Fernando Fernandez	Federal University of Rio de Janeiro
José Andriguetto Filho	Federal University o Paraná
Tamara van Kaick	Federal Technological University of Paraná
Christopher Blum	Consultant

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PARTICIPANT	ORGANIZATION
Thomas Lewinsohn	State University of Campinas
Maria Alice Alexandre	LIFE
Regiane Borsato	LIFE
Marcelo Posonski	LIFE
Michele Galdi	LIFE
Adriana Meger	LIFE

4.14.4 Pilot-Audit: Itaipu

From 23rd to 24th of March, another pilot-audit was performed to test the LIFE Certification Methodology at business level. The pilot-audit was carried out at the hydroelectric power plant Itaipu (Itaipu Binacional). The pilot-audit was coordinated by auditors of the Certifying body Tecpar, being accompanied by representatives of the Technical Area of LIFE Institute and also by consultants hired by the Institute.


4.14.5 Refinement of the Technical Guide LIFE 02

In April 2011, the latest in-house version of the LIFE Technical Guide 02 went through another process of revision, undertaken as before by contracting an external consultancy. The consultancy's work resulted in the general improvement of the internal version of the LIFE Technical Guide 02, as well as an improvement in the scoring system. The process of improving the document in question also took into account the results of the pilot-audits carried out previously.

Conservation actions were reorganized into five Groups, these being:

- G1 – Protected areas;
- G2 – Taxa of conservation interest;
- G3 – Fragmented habitats and ecological corridors;
- G4 – Minimization of impacts on biodiversity; and,
- G5 – Actions with global and strategic reach for the conservation of biodiversity.

As structured in the LIFE Certification Regulation, each Group was divided into a set of Themes. For

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each combination of Group and Theme, a set of conservation actions was established, each of which would be scorable in the process of LIFE Certification.

4.14.6 Second Meeting of the Scientific-Technical Committee

In May of 2011, approximately two months after the first meeting of the Committee had been held, there was a second meeting of the Technical-Scientific Committee. At the beginning the participants were brought up-to-date on the principal changes which had occurred in the LIFE Certification Methodology since the previous meeting. In this context, the following topics were presented:

- Presentation of how to interpret and support Principles, Criteria and indicators;
- Presentation of a new proposal for the index of direct impact of the PVIB (Potential Value of Impact on Biodiversity);
- Definition of indicators which are essential for an organization's environmental management; and,
- Discussion about the conversion of natural ecosystems.


In the second part of the meeting, groups were formed (Management of Environmental Impacts on Biodiversity; Biodiversity Conservation) for the discussion of specific questions defined by the LIFE Institute. From the discussions raised, the Technical-Scientific Committee suggested changing the name 'Potential Value of Impact on Biodiversity' (PVIB) to 'Biodiversity Estimated Impact Value' (BEIV). This alteration was proposed because the term PVIB gave the impression that the methodology considered future impact.

As in the first meeting, the questions defined were recorded in a document, with the updates being sent to the participants in the second meeting of the Technical Scientific Committee.

The second meeting of the Technical-Scientific Committee involved the participation of the professional listed below.

Participants in the second meeting of the Technical-Scientific Committee:

PARTICIPANT	ORGANIZATION
André Bittencourt	Federal University of Paraná
Christopher Blum	Consultant

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PARTICIPANT	ORGANIZATION
Georges Kaskantz Neto	Federal University of Paraná
Henry Novion	Brazilian Ministry for the Environment
José Andriguetto Filho	Federal University of Paraná
Liliani Tiepolo	Federal University of Paraná
Tamara van Kaick	Federal Technological University of Paraná
Thomas Lewinsohn	State University of Campinas
Maria Alice Alexandre	LIFE
Regiane Borsato	LIFE
Marcelo Posonski	LIFE
Michele Galdi	LIFE

4.14.7 Pilot-Audit: MPX

From 30th of May to 3rd of June 2011 another pilot-audit was undertaken. This time at the thermoelectric power plant of MPX (Usina Termelétrica Porto de Itaquí – MPX).

4.14.8 Direct and Indirect Aspects of the Methodology for Quantifying Environmental Impact


In July 2011, the methodology for quantifying impact on the environment started to consider environmental aspects both directly and indirectly related to biodiversity. Among the aspects listed as indirectly related to biodiversity were: (i) Emission of greenhouse gases; (ii) Generation of waste; (iii) Water consumption; and (iv) Energy use. The conversion of habitats began to be considered as an environmental aspect directly related to biodiversity. The minimum performance in scoring for biodiversity conservation actions (BCA_{minimum}) calculated for an organization in the process of LIFE Certification remained coupled with the BEIV.

4.14.9 Launch of the Version 1.0 of the LIFE Certification Technical Documents


In August 2011 the first official version of the LIFE Certification Standards and LIFE Technical Guides 01 and 02 was launched, during the CBD Workshop “Business and Biodiversity” in Rio de Janeiro. All the documents were made freely accessible to the public on the LIFE Institute’s website.

4.15 Flowchart of the History of LIFE Certification

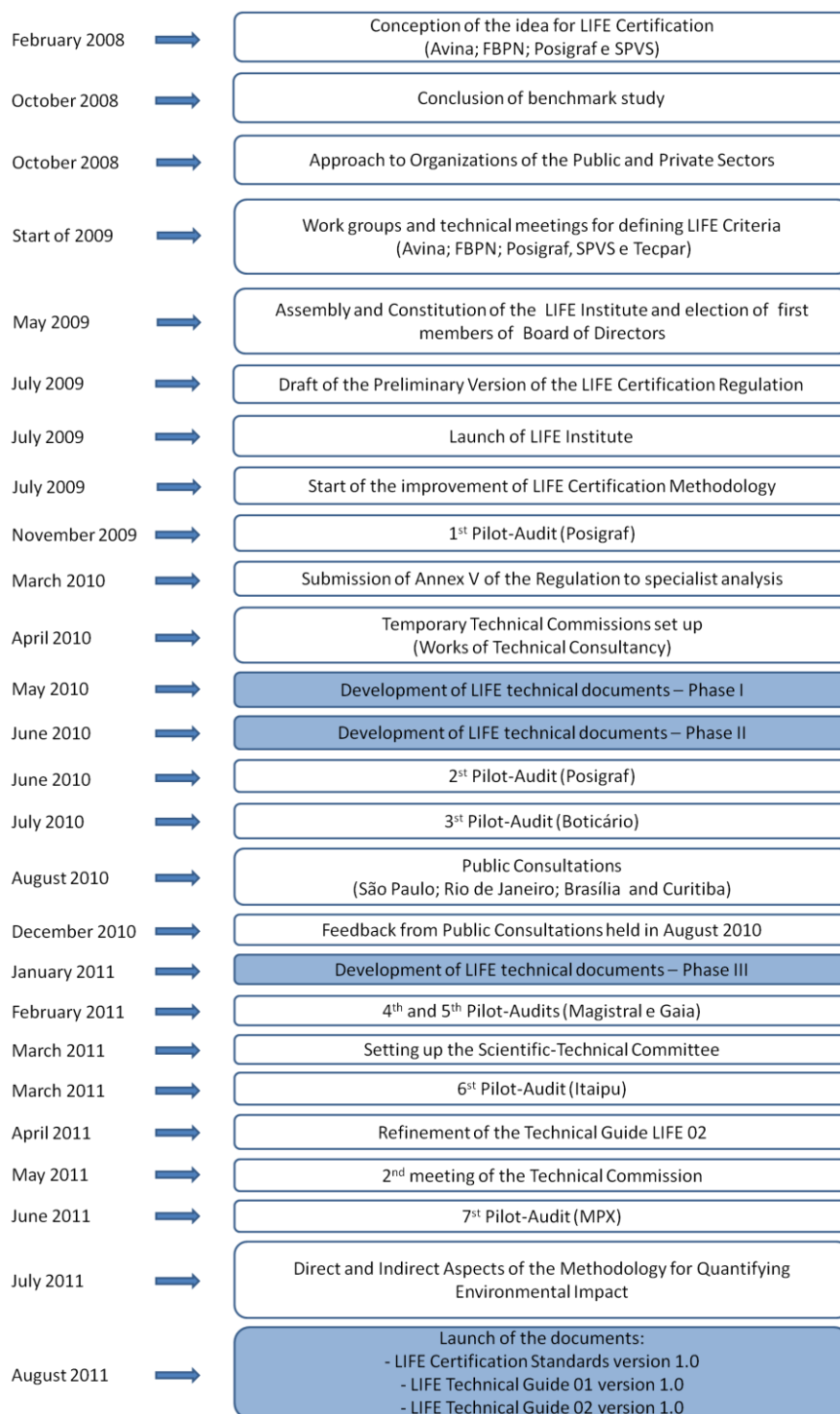
The flowchart below shows the principal historic aspects involved from the conception of the idea of

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LIFE Certification up until the launch of Versions 1.0 of the LIFE Certification Standards and the LIFE Technical Guides 01 and 02. Annex III lists the specialists, technicians and consultants who were directly involved in developing the LIFE Certification Methodology; besides those professionals directly or indirectly linked with the LIFE Institute, who was equally involved.

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Flowchart of the history of LIFE Certification:




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ANNEX I

List of organizations from the public and private sectors approached with the aim to join the proposal for LIFE Certification (October 2008 to June 2009)

Approached organizations	
1	Agropalma
2	Alcoa - Brasil
3	Anglo American
4	Banco Real
5	Bayer
6	Banco Nacional de Desenvolvimento (BNDES - Brasil)
7	Banco Regional de Desenvolvimento do Extremo Sul (BRDE - Brasil)
8	CAVO Gestão Ambiental
9	Camargo Correia Equipamentos e Sistemas (CCES)
10	Conselho Empresarial Brasileiro para o Desenvolvimento Sustentável (CEBDS)
11	Ciser
12	Cola-Cola
13	Conservation International (CI)
14	Companhia Paranaense de Energia (COPEL)
15	Dixie Toga
16	Grupo EcoRodovias
17	Energias de Portugal do Brasil (EDP)
18	Empresas japonesas
19	Faber Castel
20	Forest Trends
21	Fundo Brasileiro para a Biodiversidade (FUNBIO)
22	Cooperação Técnica Alemã (GTZ)
23	Herbarium Laboratório Botânico
24	Grupo HSBC
25	HSM
26	IFC/Banco Mundial
27	Itaipu
28	Grupo KfW
29	Klabin
30	Lapinha Spa
31	Malwee
32	Masisa
33	Michellin

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Approached organizations

34 Ministério Brasileiro do Meio Ambiente (MMA)

35 Novozymes Latin America LTDA.

36 Petrobras

37 RBS

38 Rigesa

39 Suzano


40 Tetrapak

41 Grupo Tigre

42 Vale

43 Veracel

44 Wal-Mart


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ANNEX II

List of professionals invited to the Public Meetings held between August and September 2010


	Guest	Institution	Stakeholder class	Location
1	VERA LEX ENGEL	UNESP BOTUCATU	ACADEMIA	BOTUCATU
2	CARLOS FIRKOWSKI	UFPR	ACADEMIA	CURITIBA
3	ANDRÉ FERRETTI	UFPR	ACADEMIA	CURITIBA
4	MYRIAN DEL VECCHIO	UFPR	ACADEMIA	CURITIBA
5	MARCIA MARIA FERNANDES DE OLIVEIRA	UNILIVRE	ACADEMIA	CURITIBA
6	JOSE MILTON ANDRIGUETTO	UFPR	ACADEMIA	CURITIBA
7	LUCIANE MARINONI	UFPR	ACADEMIA	CURITIBA
8	CARLOS FIRKOWSKI	UFPR	ACADEMIA	CURITIBA
9	LEILA MARANHO	UP	ACADEMIA	CURITIBA
10	PAULO INADA	UEM	ACADEMIA	CURITIBA
11	EDUARDO VEDOR DE PAULA	UFPR	ACADEMIA	CURITIBA
12	RAINER FABRY	UFPR	ACADEMIA	CURITIBA
13	JEAN VITULE	UFPR	ACADEMIA	CURITIBA
14	KLAUS FREY	PUC	ACADEMIA	CURITIBA
15	FRANCISCO MENDONÇA	UFPR	ACADEMIA	CURITIBA
16	MARCIA MARQUES	UFPR	ACADEMIA	CURITIBA
17	MARION HARUKO MACHADO	UEM	ACADEMIA	CURITIBA
18	HARRY ALBERTO BOLLMANN	PUC	ACADEMIA	CURITIBA
19	RAMIRO WAHRHAFTIG	UNILIVRE	ACADEMIA	CURITIBA
20	FREDERICO BRANDINI	UFPR	ACADEMIA	CURITIBA
21	LILIANE TIEPOLO	UFPR	ACADEMIA	CURITIBA
22	CLOVIS ULTRAMARI	PUC	ACADEMIA	CURITIBA
23	MARCO FABIO CORREA	UFPR	ACADEMIA	CURITIBA
24	RAINER FABRY	UFPR	ACADEMIA	CURITIBA
25	ROBERTO RIBAS LANGE	UFPR	ACADEMIA	CURITIBA
26	FERNANDO SCHNAID	UFPR	ACADEMIA	CURITIBA
27	MARCIA GRISOTTI	UFSC	ACADEMIA	CURITIBA
28	HARRY ALBERTO BOLLMANN	PUC	ACADEMIA	CURITIBA
29	LETICIA HARDT	PUC	ACADEMIA	CURITIBA
30	FERNANDO PASSOS	UFPR	ACADEMIA	CURITIBA
31	KLAUS SAUTTER	UP	ACADEMIA	CURITIBA
32	PETER MAY	UFRJ	ACADEMIA	DF
33	ROBERTO XAVIER DE LIMA	UB	ACADEMIA	DF

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	Guest	Institution	Stakeholder class	Location
34	MARIA RAQUEL	FDC (Fundação Dom Cabral)	ACADEMIA	DF
35	MARIA ALICE LUTTEMBARCK	FDC (Fundação Dom Cabral)	ACADEMIA	DF
36	HEITOR SCALAMBRINI COSTA	UNIVERSIDADE DE PERNAMBUCO	ACADEMIA	JOÃO PESSOA
37	MARIANO COLINI CENAMO	IDESAM	ACADEMIA	MANAUS
38	ARNALDO FREITAS DE OLIVEIRA JR	IFMG	ACADEMIA	MG
39	ROBERTO LUIS DE MELO MONTE MOR	UFMG/CEDEPLAR	ACADEMIA	MG
40	FAUSTO BRITO	UFMG/CEDEPLAR	ACADEMIA	MG
41	NILO NASCIMENTO	UFMG/EHR	ACADEMIA	MG
42	RONALDO SEROA DA MOTA	IPEA	ACADEMIA	RJ
43	BRUNA STEIN CIASCA	UFRJ	ACADEMIA	RJ
44	FERNANDO FERNANDEZ	UFRJ	ACADEMIA	RJ
45	CARLOS EDUARDO FRIKMANN YOUNG	UFRJ	ACADEMIA	RJ
46	PETER MAY	UFRJ	ACADEMIA	RJ
47	LUIZ PINGUELLI ROSA	UFRJ	ACADEMIA	RJ
48	FRANCISCO GERSON ARAUJO	UNIVERSIDADE RURAL	ACADEMIA	RJ
49	PETER MAY	UFRJ	ACADEMIA	RJ
50	MAGDA BERETTA	UFBA	ACADEMIA	SALVADOR
51	PAULO EDUARDO ARTAXO NETO	USP	ACADEMIA	SP
52	ALEXANDRE HARKALY	IBD	ACADEMIA	SP
53	THOMAS MICHAEL LEWINSOHN	ASS. BRAS. CIENCIA ECOLÓGICA E CONSERVAÇÃO	ACADEMIA	SP
54	RACHEL BIDERMAN	FGV	ACADEMIA	SP
55	FABIO OLMOS	CONSULTOR	ACADEMIA	SP
56	CARLOS AFONSO NOBRE	IGBP	ACADEMIA	SP
57	RODRIGO BRAGA MORUZZI	UNIVERSIDADE JULIO MESQUITA	ACADEMIA	SP
58	LUIZ CARLOS ESTRAVIZ	ESALQ	ACADEMIA	SP
59	MARIO MONZONI	FGV	ACADEMIA	SP
60	MARIA ISABEL AMANDO DE BARROS	FGV	ACADEMIA	SP
61	JEAN PAUL METZGER	USP	ACADEMIA	SP
62	ALBERTO BLANCO JORGE	UNESP	ACADEMIA	SP
63	ROBERTO STRUMPF	FGV	ACADEMIA	SP
64	GUMERCINDO SOUZA LIMA	UNIVERSIDADE DE VIÇOSA	ACADEMIA	VIÇOSA MG
65	ANGELO RABELO	INSTITUTO HOMEM PANTANEIRO	ACADEMIA	
66	FABIO FELDMANN	CONSULTOR	CONSULTOR	SP
67	GISELE SESSEGOLO	CONSULTORA	CONSULTOR	CURITIBA
68	TASSO REZENDE DE AZEVEDO	MMA (consultor)	CONSULTOR	SP
69	MIGUEL MILANO	MILANO CONSULTORIA	EMPRESA	CURITIBA
70	MIGUEL MILANO	MILANO CONSULTORIA	EMPRESA	CURITIBA

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71	MIGUEL MILANO	MILANO CONSULTORIA	EMPRESA	CURITIBA
72	ARIEL SCHAFFER SILVA	HSBC	EMPRESA	CURITIBA
73	PRISCILLA MARQUES ARRUDA	HIGISERV	EMPRESA	CURITIBA
74	MARCELO POSONSKI	SILVICONSULT	EMPRESA	CURITIBA
75	MARILIA THIARA BASNIAK	ECOSSISTEMA CONSULT. AMBIENTAL	EMPRESA	CURITIBA
76	MARCOS	TECPAR	EMPRESA	CURITIBA
77	LEONARDO JIANOTI	STCP	EMPRESA	CURITIBA
78	MIGUEL MILANO	MILANO CONSULTORIA	EMPRESA	CURITIBA
79	WILSON LOUREIRO	CONSULTORA	EMPRESA	CURITIBA
80	MARIA DE LOURDES NUNES	FUNDAÇÃO BOTICÁRIO	EMPRESA	CURITIBA
81	PEDRO LUIZ FERNANDES	NOVOZYMES	EMPRESA	CURITIBA
82	FABRISIO PAIVA	HSBC	EMPRESA	CURITIBA
83	FLAVIO GOULART	SOUZA CRUZ	EMPRESA	CURITIBA
84	JULIA BARROS	EXXON	EMPRESA	CURITIBA
85	MARLENE ZANNIN	COPEL	EMPRESA	CURITIBA
86	LEIDE TAKAHASHI	FUNDAÇÃO BOTICARIO	EMPRESA	CURITIBA
87	ROMULO ERIEL	ERIEL	EMPRESA	CURITIBA
88	CICERO ROHR	MASTER	EMPRESA	CURITIBA
89	ISADORA MALI	MASTER	EMPRESA	CURITIBA
90	MARCELO ROMA	MASTER	EMPRESA	CURITIBA
91	LUIS GUSTAVO BUDZIAK	BDO	EMPRESA	CURITIBA
92	MARCELO PALAMARTCHUK	BDO	EMPRESA	CURITIBA
93	CLAUDIA CIMARELLI	POSITIVO INFORMATICA	EMPRESA	CURITIBA
94	ORIOVISTO GUIMARÃES	UP	EMPRESA	CURITIBA
95	MAURICIO DZIEDZIC	UP	EMPRESA	CURITIBA
96	LUISA NASTARI	COPEL	EMPRESA	CURITIBA
97	TACIANA CAVALCANTI	EMBRAPA	EMPRESA	DF
98	LADJANE CAPORAL	GTZ	EMPRESA	DF
99	ARMIN DEITENBACH	GTZ	EMPRESA	DF
100	RUBENS GIRARDI	ELETRONORTE	EMPRESA	DF
101	ADRIANA GONÇALVES MOREIRA	WORLD BANK	EMPRESA	DF
102	PREM INGRID	GTZ	EMPRESA	DF
103	ANA PAULA RAMOS DE ALMEIDA E SILVA	PETROBRAS	EMPRESA	RJ
104	ANGELA TRESINARI	MPX	EMPRESA	RJ
105	ALEXANDRA ZUHLSDORFF	EMBRATEL	EMPRESA	RJ
106	MARCIO MACEDO COSTA	BNDES	EMPRESA	RJ
107	HELOISA MARCONDES	CHEVRON	EMPRESA	RJ
108	CARLOS BUENO	EMBRATEL	EMPRESA	RJ

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109	MONICA LINHARES	PETROBRAS	EMPRESA	RJ
110	PAULO CARVALHO	REPSOL	EMPRESA	RJ
111	JANE MAURO	PETROBRAS	EMPRESA	RJ
112	MARCIO MACEDO COSTA	BNDES	EMPRESA	RJ
113	ANA CAROLINA SRBEK	VALE	EMPRESA	RJ
114	LAURA SNITOVSKY	NUREMBERG MESSE	EMPRESA	SP
115	WELLINGTON BALDO	ITAU	EMPRESA	SP
116	CLAUDIA NAKAMURA	PETROBRAS	EMPRESA	SP
117	THAIS MAGALHÃES	ALCOA	EMPRESA	SP
118	MARIA CRISTINA RIBEIRO	SUEZ	EMPRESA	SP
119	LEONARDO MITIDIERO	PETROBRAS	EMPRESA	SP
120	MARCOS VAZ	NATURA	EMPRESA	SP
121	NEMERCIO NOGUEIRA	ALCOA	EMPRESA	SP
122	BRUNO VIO	HSBC	EMPRESA	SP
123	ERNESTO CAVASIN NETO	PWC	EMPRESA	SP
124	PAULO MINDLIM	WALMART	EMPRESA	SP
125	FLAVIO PINHEIRO	GRUPO SUEZ	EMPRESA	SP
126	TEDDY LALANDE	DIXIE TOGA	EMPRESA	SP
127	UMBERTO CALDEIRA CINQUE	VOTORANTIM	EMPRESA	SP
128	LAP CHAN	AES	EMPRESA	SP
129	RENATO NETTO	J&J	EMPRESA	SP
130	PEDRO BETTANCOURT	GM	EMPRESA	SP
131	PEDRO DIAS	GM	EMPRESA	SP
132	NATHALIE GASTOU	GOLDMAN & SACHS	EMPRESA	SP
133	EDUARDO A ATAIDE	GOLDMAN & SACHS	EMPRESA	SP
134	DOMINIC SCHMAL	PWC	EMPRESA	SP
135	DENES LOTT	VALE	EMPRESA	SP
136	ALEXANDRE BROWN	NUREMBERG MESSE	EMPRESA	SP
137	LIGIA AMORIM	NUREMBERG MESSE	EMPRESA	SP
138	GUSTAVO FERAZ	WSI	EMPRESA	SP
139	ANA LUIZA CUNHA	WSI	EMPRESA	SP
140	GILBERTO BARBERO	ANGLO AMERICAN	EMPRESA	SP
141	REINOLDO PORNACHER	KLABIN	EMPRESA	SP
142	PATRICIA CENTENO	BDO	EMPRESA	SP
143	JOÃO GILBERTO AZEVEDO DOS SANTOS	PCW	EMPRESA	SP
144	PATRICIA MONTEIRO MONTENEGRO	VOTORANTIM	EMPRESA	SP
145	GILBERTO CALDEIRA	VOTORANTIM	EMPRESA	SP
146	JOÃO CARLOS DAVID	GRUPO CAVO	EMPRESA	SP

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	Guest	Institution	Stakeholder class	Location
147	CARLA DUPRAT	CAMARGO CORREA	EMPRESA	SP
148	MARIA CRISTINA RIBEIRO	SUEZ	EMPRESA	SP
149	EDUARDO GUIMARÃES	PMC	GOVERNO	CURITIBA
150	JOSÉ ANTONIO ANDREGUETTO	SMMA	GOVERNO	CURITIBA
151	FRANCISCA JUÇARA RIBEIRO DO VALLE	SMMA	GOVERNO	CURITIBA
152	ALFREDO TRINDADE	SMMA	GOVERNO	CURITIBA
153	HANS DORRESTEIJN	UNIÃO EUROPÉIA	GOVERNO	DF
154	ERIC STONER	USAID	GOVERNO	DF
155	LIDIO CORADIN	MMA	GOVERNO	DF
156	PAULINO FRANCO DE CARVALHO NETO	MRE	GOVERNO	DF
157	MARIA CECILIA WEY BRITTO	MMA	GOVERNO	DF
158	HENRY DE NOVION	MMA	GOVERNO	DF
159	DEVANIR GARCIA DOS SANTOS	ANA	GOVERNO	DF
160	AURELIO SOUZA DA CRUZ	CAIXA ECONOMICA FEDERAL	GOVERNO	DF
161	DAVID OREN	MCT	GOVERNO	DF
162	TINE ULDAHL LUND	EMBAIXADA REAL DA DINAMARCA	GOVERNO	DF
163	LUIS HENRIQUE DE LIMA	MINISTÉRIO DA PESCA E AQUICULTURA	GOVERNO	DF
164	MARCIA SUMIRI	EMBAIXADA BRITANICA	GOVERNO	DF
165	HETEL L. DOS SANTOS	MMA	GOVERNO	DF
166	EDUARDO MARTINS	IEF MG	GOVERNO	MG
167	ROBERTO ALVARENGA	IEF MG	GOVERNO	MG
168	RICARDO GALENO	IEF MG	GOVERNO	MG
169	ANTONIO JOSÉ DE SOUZA	FLORESTAL BRASIL	SOCIEDADE CIVIL	3 LAGOAS MS
170	ADALBERTO EBERHARDT	ECOTROPICA	SOCIEDADE CIVIL	CUIABÁ
171	CLOVIS BORGES	SPVS	SOCIEDADE CIVIL	CURITIBA
172	CRISTIANE DE MORAES	ETHICAL BIOTRADE	SOCIEDADE CIVIL	CURITIBA
173	CLOVIS BORGES	SPVS	SOCIEDADE CIVIL	CURITIBA
174	CLOVIS BORGES	SPVS	SOCIEDADE CIVIL	CURITIBA
175	CLOVIS BORGES	SPVS	SOCIEDADE CIVIL	CURITIBA
176	JULIANA STROBEL	AVINA	SOCIEDADE CIVIL	CURITIBA
177	JOSÉ ÁLVARO CARNEIRO	IAP	SOCIEDADE CIVIL	CURITIBA
178	KARINA LUIZA DE OLIVEIRA	MATER NATURA	SOCIEDADE CIVIL	CURITIBA
179	FERNANDO VEIGA	TNC	SOCIEDADE CIVIL	CURITIBA
180	ANITA DIEDERICHSEN	TNC	SOCIEDADE CIVIL	CURITIBA
181	BENITO MERA	INSTITUTO BIOESTE	SOCIEDADE CIVIL	CURITIBA
182	PAULO PIZZI	MATER NATURA	SOCIEDADE CIVIL	CURITIBA
183	CARLOS AMARAL	SPVS	SOCIEDADE CIVIL	CURITIBA
184	VALDEMAR DE OLIVEIRA NETO	ASHOKA	SOCIEDADE CIVIL	CURITIBA

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	Guest	Institution	Stakeholder class	Location
185	GERMANO WOHEL	RA BUGIO	SOCIEDADE CIVIL	CURITIBA
186	GILBERTO TIEPOLO	TNC	SOCIEDADE CIVIL	CURITIBA
187	MIGUEL CALMON	BIOATLANTICA	SOCIEDADE CIVIL	CURITIBA
188	HELENA BONIATTI PAVESE	UNEP	SOCIEDADE CIVIL	DF
189	VIVIAN UHLIG	ICMBIO	SOCIEDADE CIVIL	DF
190	GERALDINHO VIEIRA	ANDI	SOCIEDADE CIVIL	DF
191	JULIO GONCHOROSKY	ICMBIO	SOCIEDADE CIVIL	DF
192	ANDREA VULCANIS	IBAMA	SOCIEDADE CIVIL	DF
193	LUIZ PAULO PINTO	CI	SOCIEDADE CIVIL	DF
194	MIGUEL CALMON	TNC	SOCIEDADE CIVIL	DF
195	ANDRE DA SILVIA DIAS	LENNON	SOCIEDADE CIVIL	DF
196	PAULO MOUTINHO	IPAM	SOCIEDADE CIVIL	DF
197	FERNANDO VIGA	TNC	SOCIEDADE CIVIL	DF
198	AURELIO PADAREZI	TNC	SOCIEDADE CIVIL	DF
199	CLAUDIO PADUA	IPE	SOCIEDADE CIVIL	DF
200	LUCIANA SIMOES	WWF	SOCIEDADE CIVIL	DF
201	YURI BOTELHO SALMONA	CI	SOCIEDADE CIVIL	DF
202	LAURA ANTONIAZZI	ICONE	SOCIEDADE CIVIL	DF
203	MARCOS AMEND	CSF	SOCIEDADE CIVIL	DF
204	CARLOS EDUARDO MARINELLI	ISA	SOCIEDADE CIVIL	DF
205	SILVIA ZILLER	INSTITUTO HORUS	SOCIEDADE CIVIL	FLORIANÓPOLIS
206	MARCOS DA RÉ	FUNDAÇÃO CERTI	SOCIEDADE CIVIL	FLORIANÓPOLIS
207	JOÃO MEIRELLES	INSTITUTO PEABIRU	SOCIEDADE CIVIL	PARÁ
208	CRISTIANO PACHECO	IJA	SOCIEDADE CIVIL	POA
209	MARIA CLAUDIA GRILLO	CEBDS	SOCIEDADE CIVIL	RJ
210	LUIZ FERNANDO DUARTE DE MORAES	IBAMA	SOCIEDADE CIVIL	RJ
211	FABIO SCARANO	CI	SOCIEDADE CIVIL	RJ
212	PAULO PRADO	CI	SOCIEDADE CIVIL	RJ
213	DANELA LERDA		SOCIEDADE CIVIL	RJ
214	ALEXANDRE FERRAZOLLI	FUNBIO	SOCIEDADE CIVIL	RJ
215	CARLOS ALBERTO MESQUITA	BIOATLANTICA	SOCIEDADE CIVIL	RJ
216	ROSA LEMOS	FUNBIO	SOCIEDADE CIVIL	RJ
217	MARCOS SÁ CORREA	O ECO	SOCIEDADE CIVIL	RJ
218	JOE KEENAN	TNC	SOCIEDADE CIVIL	RJ
219	MARINA GROSSI	CEBDS	SOCIEDADE CIVIL	RJ
220	CARLOS AUGUSTO VICTAL	IBP	SOCIEDADE CIVIL	RJ
221	MARA BRAILE	CEBDS	SOCIEDADE CIVIL	RJ
222	SERGIO MATTOS FONSECA	APREC	SOCIEDADE CIVIL	RJ

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	Guest	Institution	Stakeholder class	Location
223	FERNANDA GIMENES	CEBDS	SOCIEDADE CIVIL	RJ
224	CLAYTON LINO	Reserva da Biosf da Mata Atl	SOCIEDADE CIVIL	SP
225	HELENE MENU	UEBT	SOCIEDADE CIVIL	SP
226	CRISTIANE DE MORAIS	UEBT	SOCIEDADE CIVIL	SP
227	JASMIM EYMERY	DNV	SOCIEDADE CIVIL	SP
228	CARLOS KLINK	IFC	SOCIEDADE CIVIL	SP
229	MAURICIO ALONSO	RBMA	SOCIEDADE CIVIL	SP
230	NATALIA LUTTI HUMMEL	CORPORATE RESPONSABILITY DPT (DNV)	SOCIEDADE CIVIL	SP
231	RUBENS HARRY BORN	VITAE CIVILIS	SOCIEDADE CIVIL	SP
232	BETO VERISSIMO	IMAZON	SOCIEDADE CIVIL	SP
233	HELOISA DIAS	Reserva da Biosf da Mata Atl	SOCIEDADE CIVIL	SP
234	RICARDO RIBEIRO RODRIGUES	ESALQ	SOCIEDADE CIVIL	SP
235	JOAQUIM MACHADO	CEBDS	SOCIEDADE CIVIL	SP
236	MARIO MANTOVANI	SOS MATA ATLANTICA	SOCIEDADE CIVIL	SP
237	MAURICIO BORN	CONSULTOR	SOCIEDADE CIVIL	SP
238	PAULO COSTA	DOWAGROSCIENCE	SOCIEDADE CIVIL	SP
239	LINEU SIQUEIRA	IMAFLOA	SOCIEDADE CIVIL	SP
240	MICHAEL BECKER	WWF	SOCIEDADE CIVIL	SP


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ANNEX III

List of specialists, technicians, consultants and professionals directly or indirectly linked to the LIFE Institute and involved in the development of the LIFE Certification Methodology up to the launch of Versions 1.0 of the technical documents in August 2011.

Professionals involved in the development of the LIFE Certification Methodology up to the launch of versions 1.0 of the LIFE technical documents		Description
1	Adriana Vasconcellos	
2	Alceu Fernandes	
3	Aldair Rizzi	
4	Ana Carolina Surgik	
5	André Ferretti	
6	André Steklain	
7	Andrea Drapier	
8	Angelo Augusto dos Santos	
9	Antonio José de Souza	
10	Augusto Cesar Fayet	
11	Braúlio Dias	
12	Carlos Firkowski	
13	Carlos Mayer	
14	Cassiane Gomes	
15	Cecil Maya	
16	Christie Pereira Silva	Specialists, technicians, consultants
17	Christopher Thomas Blum	
18	Daniela Lerda	
19	Daniela Marques de Deus	
20	Eliane Santana	
21	Estevão Braga	
22	Francine Leal	
23	Francisco Bartosiewicz	
24	Guilherme Karam	
25	Guilherme Valenga	
26	Gustavo Gatti	
27	Rairo Reinhart	
28	José Antonio Andreguetto	
29	Juliana Strobel	
30	Klaus Sautter	


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Professionals involved in the development of the LIFE Certification Methodology up to the launch of versions 1.0 of the LIFE technical documents

Description

31	Laurenz Pinder
32	Leide Yasuko Takahashi
33	Leonardo Jianoti
34	Luciana Passos
35	Luís Gustavo Budziak
36	Maíra Gonçalves da Luz Pereira
37	Maísa Guapyassú
38	Malu Nunes
39	Marcellus Fontanelle
40	Marcelo Posonski
41	Marcelo Real Prado
42	Marcos Lorenzon
43	Marcos Viceconte Baptistucci
44	Maria Cavalcanti
45	Maria Cecília Wey de Brito
46	Maria Helena Martins Carlin
47	Mariangela Gerum
48	Mariano Macedo
49	Marina Landeiro
50	Master Comunicação
51	Michelle Galdi
52	Monica Borges
53	Natália Sampaio
54	Paulo Holanda Menezes de Barros
55	Patrícia Centeno
56	Pedro Leitão
57	Regiane Borsato
58	Ricardo Gomes
59	Ricardo Miranda de Britez
60	Roberto Antonelli Filho
61	Rodrigo Feijó
62	Rosana Maria Renner
63	Rosana Maria Zorzo
64	Rosemari Prix
65	Sandro Coneglian

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Professionals involved in the development of the LIFE Certification Methodology up to the launch of versions 1.0 of the LIFE technical documents		Description
66	Simone Mont-Mór Mussolin	
67	Tania Mello	
68	Valdemar de Oliveira Neto	
69	Vanessa Vitoriano Silva	
70	Vanitskelli Castro	
71	Virlene Cotturi	
72	Priscila Brudsinski	
73	Ricardo Borges	Trainees at LIFE Institute
74	Roberta Zandonai	
75	Rodrigo Augusto Gonçalves Pinto	
76	André Bittencourt	
77	Fernando A. S. Fernandez	
78	Georges Kaskantzis Neto	
79	Henry Novion	
80	José Milton Andriquetto Filho	Scientific-Technical Committee
81	Liliani Tiepolo	
82	Tamara Simone Van Kaick	
83	Thomas Lewinsohn	
84	Valma Martins Barbosa	
85	Clóvis Borges	
86	Fernando A. S. Fernandez	
87	Giem Guimarães	
88	Jorge Miguel Samek	
89	Mario Monzoni	Board of Directors of LIFE Institute
90	Miguel Krigsner	
91	Miguel Serediuk Milano	
92	Paulo Monteiro	
93	Pedro Leitão	
94	Thomas Lovejoy	
95	Adriana Meger	Instituto LIFE: Administrative area
96	Bianca Brasil	Instituto LIFE: Communication area
97	Maria Alice Alexandre	Instituto LIFE: Executive Secretary
98	Regiane Borsato	Instituto LIFE: Technical area
Total of involved professionals		98

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