

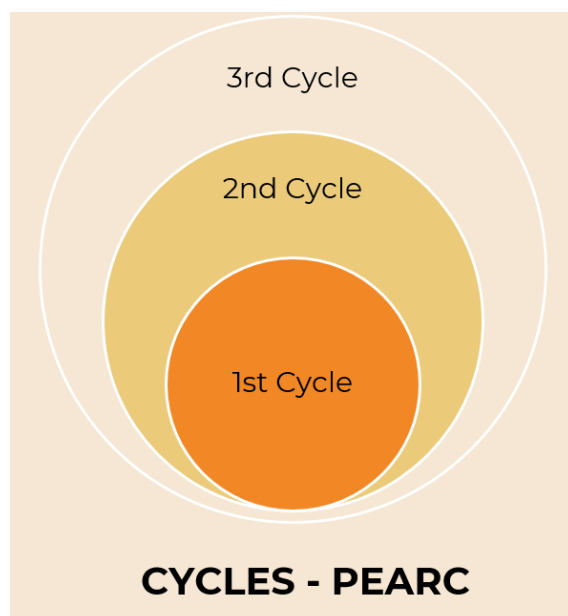
The Climate Adaptation and Resilience State Plan (PEARC) is part of the [Climate Strategy of the State of São Paulo](#) and is the instrument that organizes and guides adaptation measures and actions to the effects of climate change in the state of São Paulo, in order to contribute to the promotion of climate justice and to the implementation of more resilient and less impactful infrastructure to face current and future challenges.

Coordinated by the Secretariat for the Environment, Infrastructure and Logistics of the State of São Paulo, Brazil (SEMIL) and developed in partnership with the German Corporation for International Cooperation, GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit), PEARC opens **Public Consultation from November 4th to December 20th 2024** with the aim of collecting contributions from society to define actions and sub-actions that will be carried out in the coming years.

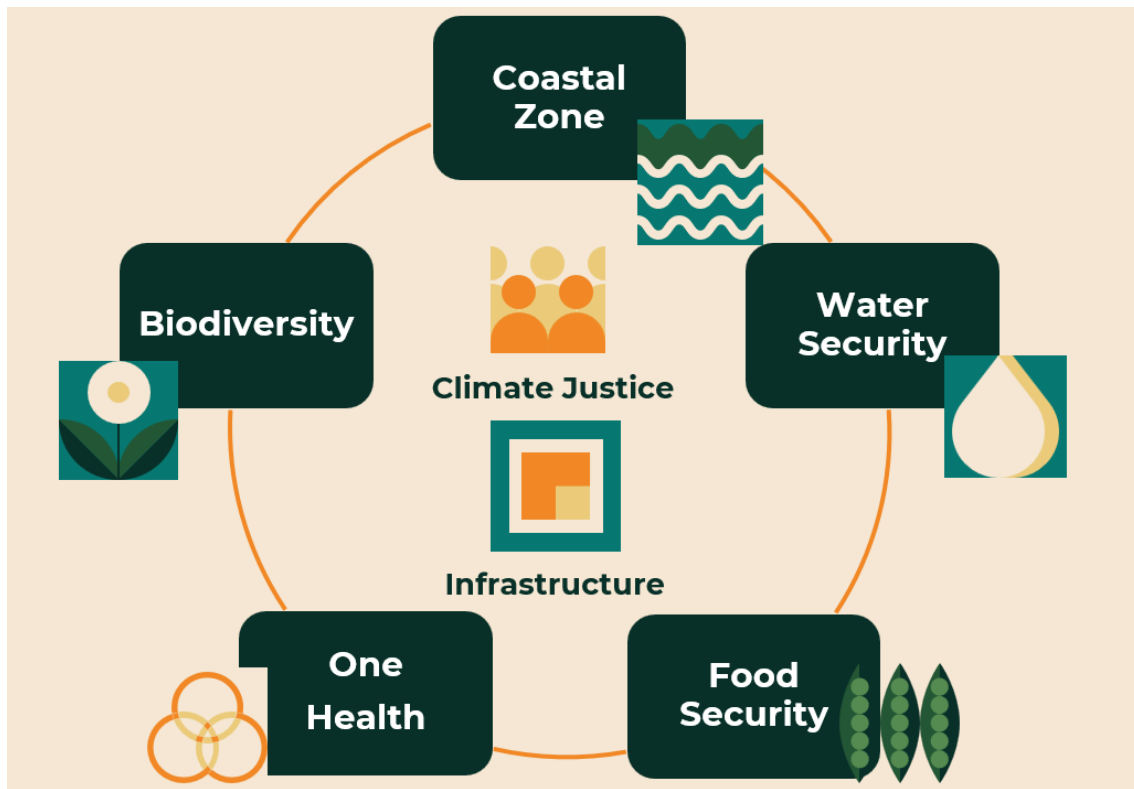
THE [CONSULTATION FORM](#) AND THE [FULL VERSION OF THE PEARC DOCUMENT](#) ARE AVAILABLE ONLY IN PORTUGUESE.

Access the available materials and fill out the form to send contributions aimed at defining actions and sub-actions that will be carried out in the coming years for adaptation and resilience to climate change in the state of São Paulo!

PEARC has a 10-year operating horizon and its implementation is organized in cycles, which must be carried out incrementally, that is, in order to expand or enhance the state's performance perspectives, according to the capacity for action and recognition of the territories demands and based on monitoring and evaluation of the actions carried out and results achieved.



The first implementation cycle of PEARC will begin in 2025 and is expected to last 3 years, with actions to combat the effects of global warming in five thematic axes: biodiversity, single health, food and nutritional security, water security and coastal zone. Furthermore, the plan is composed of a transversal theme – climate justice, and a structuring theme, focused on infrastructure.



THEMATIC AXIS OF PEARC

PEARC is organized into **five Themes**, plus a **transversal theme** and a **structuring theme**.

The five themes:



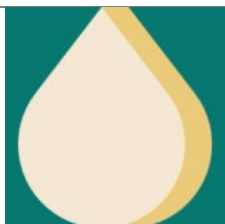
ONE HEALTH

Assessment of the impacts resulting from climate change on the increase in the incidence of zoonoses (such as spotted fever and arboviruses – viruses transmitted by mosquitoes, such as dengue and yellow fever) and on the increase in diseases and mortality of the population and compromised well-being (of the human population and other living beings).



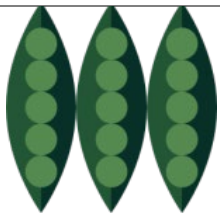
BIODIVERSITY

Assessment of the impacts resulting from climate change on the impairment of ecosystem processes, functions and services, and on the conservation of species.



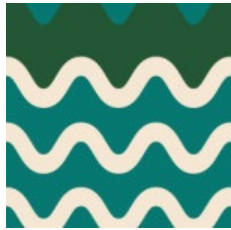
WATER SECURITY

Assessment of the impacts resulting from climate change on water availability (quality and quantity) for multiple uses (human supply, economic activities, and aquatic ecosystems).



FOOD AND NUTRITIONAL SECURITY

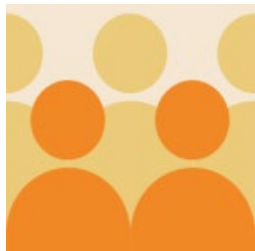
Assessment of the impacts resulting from climate change on the production and quality of food (family farming) and on the ability of citizens to access it.



COSTAL ZONE

Section of the territory where some impacts of climate change are quite specific and others are felt with greater intensity. In this theme, the impacts resulting from geological, oceanographic, climatic and hydrometeorological variables (extreme events) in the Ocean and in the Coastal Region (North Coast, Baixada Santista and Lagunar Iguape-Cananeia Estuarine Complex) were evaluated.

The transversal theme is:



CLIMATE JUSTICE

Working the dimensions of race, gender, age, income and ethnic groups in the focus, definition and selection of climate adaptation and resilience actions and sub-actions.

The structuring theme is:

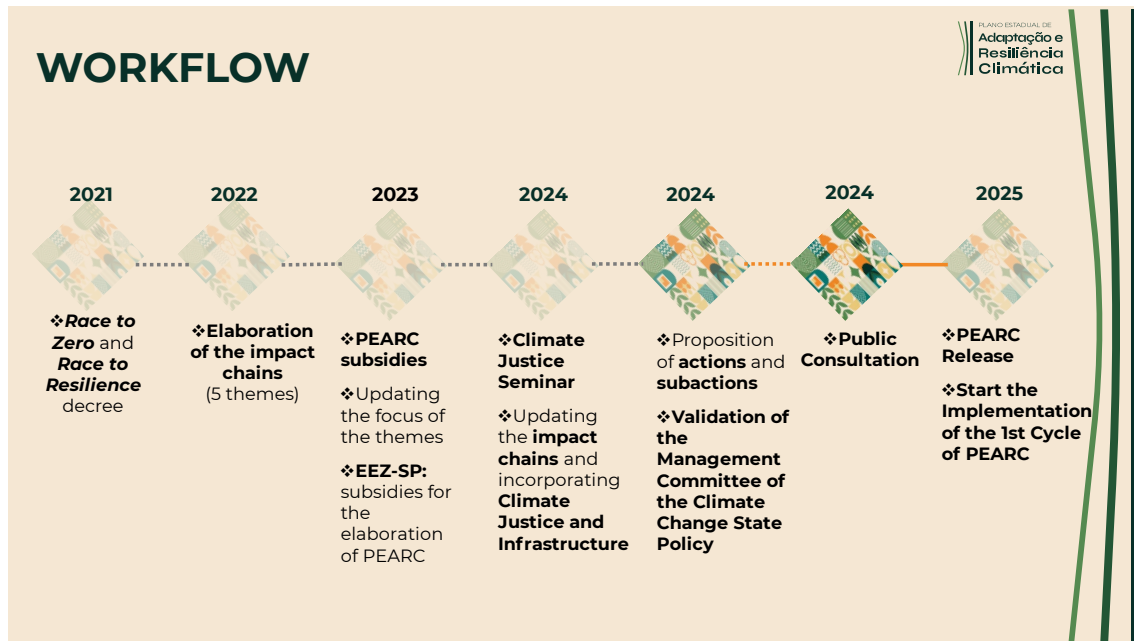


INFRASTRUCTURE

Assessment of the impacts of the existence or absence of logistics, energy, sanitation, health and housing infrastructures on other themes, from the perspective of climate change.

ELABORATION PROCESS

The preparation of PEARC began in 2021, with the signing of State Decree No. 65,881/2021, which marked the State's commitment and adherence to the "Race to Zero" and "Race to Resilience" campaigns, within the scope of the United Nations Framework Convention on Climate Change (UNFCCC).



Milestones in the PEARC preparation process

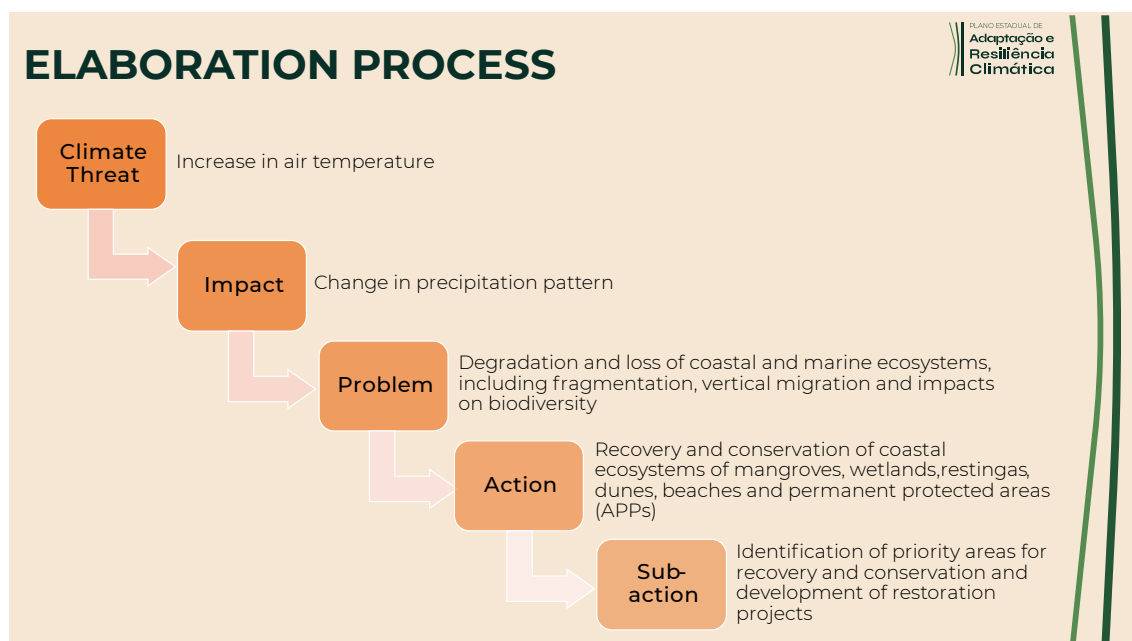
The process involved the analysis and incorporation of subsidies and guidelines, among which the Ecological-Economic Zoning of the State of São Paulo (ZEE-SP) and its multi-thematic platform, RedeZEE-SP, stand out as the main information base, which support the diagnosis and prognosis of the state's regions. The EEZ-SP also has a Guideline that addresses Resilience to Climate Change. The incorporation of Climate Justice as a transversal theme and Infrastructure as a structuring theme, reflect the lessons learned and results of initiatives such as the Climate Justice Seminar.

The methodology for defining actions and sub-actions was guided to:

identification of impacts arising from the most pressing climate threats in each of the thematic axes, through the elaboration and analysis of impact chains.

- the recognition of the main problems associated with the identified impacts.
- mapping and proposing actions and sub-actions to address the impacts and problems analyzed.
- selection of actions and sub-actions to be initiated in the 1st Cycle of PEARC, based on the criteria: (i) actions that could begin implementation in 0 to 3 years; (ii) environmental public policies under state jurisdiction; (iii) actions related to initiatives already underway or planned; (iv) actions that contribute to the promotion of climate justice in its various dimensions (race,

age, gender, income and ethnicity); (v) actions that contribute to more resilient and less impactful infrastructures; (vi) actions that are capable of solving more than one problem/impact.



Example of the methodological path for defining PEARC actions and sub-actions

This stage of the Plan was developed with the involvement and participation of more than 80 specialists of the State Secretariats (for the Environment, Infrastructure and Logistics; of Urban Development and Housing; of Agriculture and Supply; of Social Development; of Health), from institutions linked to SEMIL, such as CETESB, Fundação Florestal, Environmental Research Institute (IPA) and the Biota Síntese Project.

In 2024, around 20 meetings of the five thematic groups were held to detail and define the actions and sub-actions that make up the material made available for public consultation, a moment that will allow society to contribute to the preparation of the Plan, scheduled to have its 1st Cycle implemented, starting in 2025.

COMMUNICATION AND SOCIAL PARTICIPATION STRATEGIES

The Communication and Social Participation Strategies of PEARC aim to guide the carrying out of actions, interventions, production of materials and content to share the Plan and its results and to promote and encourage mobilization and social participation on a continuous basis in the stages of elaboration, implementation, monitoring and evaluation of PEARC, contributing to the improvement of understanding of the impacts of climate change, the appreciation of positive actions and practices in development or developed, the engagement of vulnerable groups and territories and with dissemination, outreach and education on the topic.

PREMISES

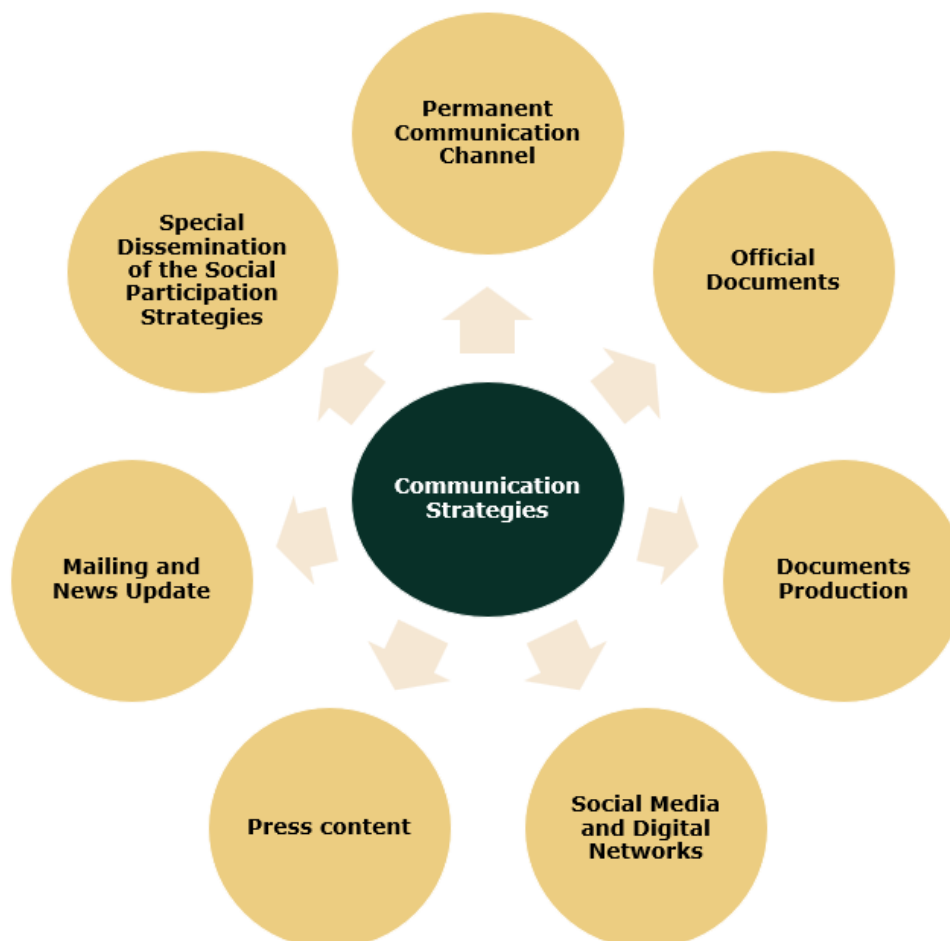
These are the premises that guide Communication and Social Participation strategies:

- Continuous participation, at all levels (internal and external) and stages of PEARC: preparation, implementation, monitoring and evaluation.

- Mobilization and engagement of vulnerable territories and groups to contribute and participate in PEARC.
- Producing and offering content and materials that guarantee guidance and access to information about climate change and the Plan, including its structure, instances and stages, as well as spaces and strategies planned for social participation and the possibilities for collecting contributions, ways of receiving them and forwarding notes made.
- Guarantee of plurality and respect for the conditions (logistical, cognitive, perceptual) of participation of vulnerable groups and different sectoral segments, aiming to resolve possible asymmetries and democratize access to communication about the plan and participation throughout the process.
- Valuing and recognizing traditional and local knowledge in addition to technical/scientific knowledge (in understanding the impacts of climate change, as well as exploring measures to combat it).
- Recognition of communication and participation as educational and training processes, aimed at promoting exchange, inclusion and collaboration to produce content and knowledge on the topic.

COMMUNICATION

Communication strategies involve both the production of content and materials that seek to explain what the Plan is, its cycles, stages, products, results, etc., as well as more specific dissemination strategies on the topic and the plan itself and forms to contribute.



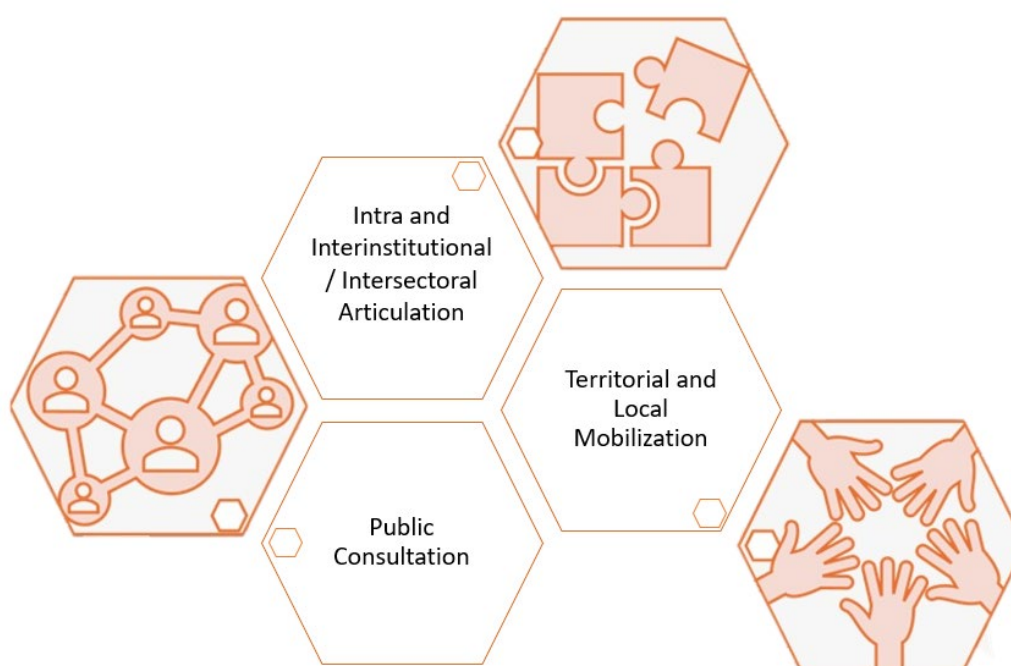
SOCIAL PARTICIPATION

Social participation strategies involve perspectives aimed at expanding the articulation and mobilization of actors, groups, social sectors, bodies and institutions with the potential to disseminate and share information on the topic and PEARC, as well as guaranteeing mechanisms, moments and spaces that enable continuous participation in all stages of PEARC: preparation, implementation, monitoring and evaluation.

These strategies, in addition to contributing to a better understanding of the impacts of climate change, seek to value positive actions and practices in facing these challenges, and promote the engagement of groups and territories, with special attention to achieving climate justice.

The strategies must be implemented in different phases, with objectives directed to the moments and stages of PEARC, starting with interventions aimed at articulation and mobilization for contributions to the preparation of the Plan, and subsequently to the moments of implementation and execution of adaptation measures, until monitoring the actions carried out, their results and evaluating the plan.

- **INTRA AND INTERINSTITUTIONAL/INTERSECTORAL ARTICULATION:** Meetings in a hybrid, in person or online format, to coordinate actors, groups, public bodies, civil society organizations, social sectors, whether in specific territories or established forums.
- **TERRITORIAL AND LOCAL MOBILIZATION:** Face-to-face meetings to mobilize groups and communities in vulnerable territories or with greater exposure to the impacts of climate change with the aim of surveying perceptions, actions under development or to be developed for adaptation and resilience.
- **PUBLIC CONSULTATION:** collection of contributions to PEARC.



CONCEPTS

What is mitigation and what is climate adaptation?

Mitigation: Acts on the causes of climate change, reducing greenhouse gas (GHG) emissions and strengthening natural structures (sinks) for absorbing and capturing carbon from the atmosphere.

Adaptation: Addresses the effects of climate change, adjusting current and future conditions to deal with impacts that are already present or inevitable.

To learn more, access the video produced by The Nature Conservancy Brasil, which explains the concepts of mitigation and adaptation and some implementation strategies.

<https://youtu.be/GpsRr3MciOM>

ENVIRONMENTAL DICTIONARY

Choose the term you want to learn more about. If you are using Google Chrome to navigate on our webpage, on the Dictionary link, click on an empty space with the right button of your mouse. Choose the language you to automatically translate your text into. Notice that the translation might contain mistakes, as it is automatic, but you will be able to have a general idea of the content presented.

- ❖ [Climate Change](#)
- ❖ [Global Warming](#)
- ❖ [Greenhouse Effect](#)
- ❖ [Greenhouse Gases](#)
- ❖ [Climate Justice](#)
- ❖ [Environmental Racism](#)
- ❖ [Food and Nutrition Security](#)
- ❖ [One Health](#)
- ❖ [Nature Based Solutions](#)
- ❖ [Decarbonization of the Economy](#)

MATERIALS AND LINKS

To learn more about adaptation, climate justice, environmental racism, climate emergency, see the materials and links.

Books

- New themes in climate emergency: for primary and secondary education
<https://www.livrosabertos.abcd.usp.br/portaldelivrosUSP/catalog/book/711>
- Introductory notes on infrastructure and climate change
<https://www.livrosabertos.abcd.usp.br/portaldelivrosUSP/catalog/book/1219>
- Urban infrastructures in Brazilian cities: national framework, climate change and the agenda for territorial planning. Territorial Summary
- <https://www.livrosabertos.abcd.usp.br/portaldelivrosUSP/catalog/book/1364>

- Current issues in climate change: for primary and secondary education
<https://www.livrosabertos.abcd.usp.br/portaldelivrosUSP/catalog/book/315>
- Detetive climático: caderno de exercícios – vol. 1
<https://www.livrosabertos.abcd.usp.br/portaldelivrosUSP/catalog/book/1343>
- Detetive climático: caderno do/da educador/educadora – vol. 2
<https://www.livrosabertos.abcd.usp.br/portaldelivrosUSP/catalog/book/1346>
- Who needs climate justice in Brazil? https://generoeclima.oc.eco.br/wp-content/uploads/dlm_uploads/2022/08/ESTUDO_Quem-precisa-de-justicca-climatica.pdf
- Environmental Racism and Climate Emergencies in Brazil
<https://peregum.org.br/publicacao/racismo-ambiental-e-emergencias-climaticas-no-brasil/>
- Guide for Developing Climate Adaptation and Resilience Plans -- 2nd revised edition
<https://semil.sp.gov.br/sma/municipiosresilientes/#1694548457628-70ceabdf-6fd5>
- Guide for Conducting Climate Risk Surveys and Adaptation Measures for Port Infrastructures
<https://www.adaptacao.eco.br/biblioteca/guia-para-a-conducao-de-levantamento-de-risco-climatico-e-medidas-de-adaptacao-para-infraestruturas-portuarias/>
- Climate Risk Survey and Adaptation Measures for Port Infrastructures – Executive Summary Porto de Santos
<https://www.adaptacao.eco.br/biblioteca/levantamento-de-risco-climatico-e-medidas-de-adaptacao-para-infraestruturas-portuarias-sumario-executivo-porto-de-santos/>
- Guide for community disaster risk reduction actions: landslides, floods, flooding, erosion
https://www.gov.br/cidades/pt-br/assuntos/publicacoes/arquivos/arquivos/CARTILHA2_FINAL_ESPELHADO_LOGO_ATUAL.pdf
- Climate change and the Guarani people.
<https://acervo.socioambiental.org/acervo/documentos/mudancas-climaticas-e-o-povo-guarani>
- Climate Change 2022: Impacts, Adaptation and Vulnerability
<https://www.ipcc.ch/report/sixth-assessment-report-working-group-ii/>[em inglês]
- Santana Filho, D. M.; Ferreira, A. J. F.; Goes, Emanuelle F. Sumário Estratégias para Planos Nacionais de Adaptação: um caso Brasil. Selo Iyaleta. Org. Iyaleta – Pesquisa, Ciências e Humanidade: Salvador/BA – Brasil, 2022. 28 p.
- 1SUMÁRIO PARA TOMADORES DE DECISÃO 1º Diagnóstico Brasileiro Marinho-Costeiro sobre Biodiversidade e Serviços Ecossistêmicos

<https://gaigerco.furg.br/images/Arquivos-PDF/SUMRIO PARA TOMADORES DE DECISO.pdf>

- Climate Environmental Education Guidelines: https://www.funbea.org.br/wp-content/uploads/2023/09/Relatorio_EA-na-EC_DiretrizesEducacaoAmbientalClimatica.pdf
- Metodologia Cartas de Direitos Climáticos https://www.climaterealityproject.org.br/files/ugd/fbec55_05af5a0358454a7a8e928c8d7e89b5fc.pdf

Portals

- AdaptaBrasil MCTI Indexes and risk indicators for climate change impacts in Brazil, integrated into a single platform: <https://adaptabrasil.mcti.gov.br>
- Portal CEMADEN Education: <https://educacao.cemaden.gov.br/formato/nossas-publicacoes/>
- Brazilian Coalition for Climate Education: <https://www.climaterealityproject.org.br/post/coaliz%C3%A3o-brasileira-de-educ%C3%A7%C3%A3o-clim%C3%A1tica>
- Cartas de Direitos Climáticos – The Climate Reality Project Brasil: <https://centrobrasilnoclima.org/conheca-as-cartas-de-direitos-climaticos/>

Videos

- What is climate change? – Environmental Minute – Climate change <https://www.youtube.com/watch?v=B1GdcDVZGQc>
- Do you know what ENVIRONMENTAL RACISM is? – Canal Preto <https://www.youtube.com/watch?v=hTRuVRXLwz0>
- We need to talk about Environmental Racism | Amanda Costa | TEDxMorroDaUrca <https://www.youtube.com/watch?v=3aEFKgGML-o>
- What is Environmental Racism? – Greenpeace Explains <https://www.youtube.com/watch?v=QL5jZAnJdxc>
- The concept of Climate Justice <https://www.youtube.com/watch?v=FbysyeXLSWo>
- CITY, INFRASTRUCTURE AND ADAPTATION TO CLIMATE CHANGE IN THE GLOBAL SOUTH <https://www.youtube.com/watch?v=hKYXkSJhXO8>

- Adapting to Climate Change | Futurando (26/06/2023)
<https://www.youtube.com/watch?v=aMMP07SWWyw>
- Impacts, Vulnerabilities and Adaptation to Climate Change from Brazil's 4CN to the UNFCCC:
https://www.youtube.com/watch?v=IdmSKI_tN9Y
- Ecosystem based adaptation (AbE)
<https://www.adaptacao.eco.br/biblioteca/video-proadapta-abe/>
- Climate Risk Management
<https://www.adaptacao.eco.br/biblioteca/video-proadapta-gestao-de-risco-climatico/>

CLIMATE JUSTICE

One of the great challenges for the development and implementation of PEARC was to internalize the dimensions of Climate Justice throughout the process of elaboration, implementation, monitoring and evaluation of the Climate Adaptation and Resilience State Plan (PEARC).

As a Transversal Axis of PEARC, Climate Justice guided the survey and identification of the main climate impacts, the definition and selection of adaptation measures and the elaboration of communication and social participation strategies, and should also guide the approach and focus for implementation of actions, in addition to supporting and providing references for the creation of indicators aimed at monitoring the results and progress of the plan in achieving and promoting climate justice.

CLIMATE JUSTICE SEMINAR

In April 2024, an event was organized by SEMIL in partnership with GIZ to discuss the dimensions related to the concept of climate justice (such as race, gender, income, age, ethnicity) and the main challenges for its incorporation into public policies, with the aim of collecting subsidies for the PEARC preparation process.

Click here and watch the Climate Justice Seminar: <https://youtu.be/9yqL5iD8hdw>

See the results of the graphic facilitation panels of the Seminar's two dialogue tables:

JUSTIÇA CLIMÁTICA



2 INCORPORAÇÃO EM POLÍTICAS PÚBLICAS



AGENDA AND ACTIONS

Follow the PEARC agenda and presentations, held or scheduled for 2024:

OCTOBER:

OCT/22: 439ª Reunião Plenária CONSEMA:

<https://www.youtube.com/live/l0h7snmDO0?si=K0f6PUJjP9Z2wv0k&t=5322>

OCT/31: GERCO – Baixada Santista

NOVEMBER:

NOV/04: GERCO – Litoral Norte

NOV/12: das 14h00 às 16h30: Webinar Fapesp – [Click here](#)

NOV/18: Webinar “Educação Ambiental e Proteção das Águas” organizado pelas Câmaras Técnicas de Educação Ambiental (CTEA) e de Proteção das Águas (CTPA) do Conselho Estadual de Recursos Hídricos (CRH) – Programação: [Click here](#); Transmissão: Youtube TV
Água: [Click here](#)

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