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# Why invest in information?

The Superintendence of Economic and Social Studies of Bahia (SEI) opens its doors to new investments in its portfolio of services and projects.

Resources from parliamentary amendments and institutional partnerships can finance products of relevance to the population of the state, municipalities, territories, and regional segments in Bahia.

All of society benefits from the generation of quantitative and qualitative subsidies that help project preparation activities, the development and monitoring of public policies, and decision-making and planning of public and private investments in the state.



Photograph: Julio Vilela

## Get to know SEI

SEI is the official information agency for the state of Bahia. An autarchy linked to the Secretariat of Planning, the institution develops research and socioeconomic studies and produces geoinformation to feed the government planning system, fulfilling its mission of “information at the service of society”.

### Project areas



Social



Social assistance



Economy



Public security



Management



Job market



Demography



Education



Environment



Tourism



Sustainable development



Infrastructure



Health



Culture

## Choose where to invest

Get to know some of SEI's ongoing work and the new projects planned for 2023 and choose where to invest.

### RESEARCH

#### Electronic surveys

- It will carry out short and continuous surveys through an electronic platform, with the objective of measuring and evaluating the degree of satisfaction of citizens who use the services provided by the State Government, as well as the level of confidence in the performance of the Bahian economy.
- Bahia Business Confidence Survey - Monthly monitors the level of confidence in the state's productive sector, producing the Bahia Business Confidence Indicator (ICEB, for its initials in Portuguese). It uses a qualitative questionnaire applied to federations, associations, and employers' unions representing the business segments of the state and seeks to investigate themes related to the macroeconomic context and the performance of companies.
- SAC Network Satisfaction Survey - Monitors and evaluates the satisfaction of citizens who use public services, by appointment, in the Citizen Assistance Service (SAC, for its initials in Portuguese) network. Conducted monthly with 50,000 questionnaires sent through a web platform, hosted on the government network, guaranteeing the confidentiality of information. It generates a dashboard for managers' monitoring. Carried out in partnership with the Secretariat of Administration of the State of Bahia (SAEB).
- Other surveys - Evaluations of citizens' satisfaction regarding services provided by the general and regional hospitals of the Government of the State of Bahia, by the service provided by the Social Security Assistance Center (CEPREV), and by the State Attorney General's Office (PGE).

**Estimated annual value: BRL 110,000.00**

Management



Photograph: Pedro Moraes/GOVBA





## Salvador Consumer Price Survey

Continuously and systematically monitoring price changes for a variety of goods and services in commercial establishments in Salvador, publishing the Consumer Price Index (CPI) on a monthly basis and the value of the basic food basket (Law No. 399, of 30 April 1938). The survey collects, monthly, between 15 and 20 thousand price quotes and has a weighting structure for a wide range of the population, with an income equivalent to 1 to 40 minimum wages. Its importance is shown by the fact that the non-use of a regional price index leads to inaccuracy in the calculation of economic indicators, such as, for example, real interest rates in the financial market and wage evolution, which require a price indicator as a parameter. The project foresees investments in technological infrastructure and the acquisition of field research services.

**Estimated annual value: BRL 900,000.00**



Economy

## Bahian Household Sample Survey

It aims to conduct a household survey to monitor the living conditions of the Bahian population, with substate cuts. It will offer information on the socioeconomic conditions of the entire population of Bahia, the conjunctural behavior of the labor market, and other characteristics that will help to better understand the situation, in addition to serving as a source for the creation of indicators of the State of Bahia's Pluriannual Plan (PPA). The results will be released every quarter for Salvador and the metropolitan region and annually for ten geographic regions in Bahia. The project foresees investments in technological infrastructure and the contracting of field research services.

**Estimated annual value: BRL 13,000,000.00**



Economy



Social



Management



Demography

## Monitoring economic activity using big data

Economy



Management



Health



Environment



Electronic invoices are one of the main sources of big data in the public sector. These are data capable of offering, with more detail and speed than traditional research techniques, a great variety and volume of data on economic flows and the circulation of goods in the state. Thousands of invoices are generated every second in Bahia, accumulating around 100 million invoices each month, which store information on commercial transactions in various segments. This project aims to implement, through data generated by Electronic Invoices (NF-e) and Electronic Consumer Invoices (NFC-e), a systematic evaluation of the impacts of public actions on regional economic dynamics. It will make it possible to assess the level of regional economic activity, relating it to various topics of public interest, with a guarantee of the protection of private data.

For its implementation, this project provides resources to improve the information technology (IT) infrastructure necessary for the development of solutions. It also includes an evaluation of the following three themes.

Product 1 - Impacts of scheduled events (cultural, business, parties, and others) and unscheduled events (pandemic, natural disasters, among others) on the economic activity of the regions.

Product 2 - Impacts of the implementation of new enterprises on the economic activity of the regions.

Product 3 - Health surveillance: monitoring of atypical drug consumption (monitoring of non-standard drug consumption linked to specific diseases, with the aim of detecting the emergence of possible regional outbreaks and issuing alerts to the state and municipal health departments).

**Estimated value: BRL 710,000.00**

Photograph: Pedro Moraes/GOVBA



## DIGITAL PLATFORMS

SEI's digital platforms facilitate the dissemination of information, with intelligent interfaces so that society as a whole can digitally find the desired data regarding Bahia. The funds raised will be invested in data infrastructure and improvements.

**Total annual value: BRL 467,160.00**

### InfoVis Bahia

InfoVis Bahia is a portal of thematic applications for data visualization on Bahian reality. InfoVis Bahia panels are interactive, with user-friendly navigation, easy to access, and intuitive. It allows public managers, researchers, and society to monitor data and statistics on topics relevant to the state of Bahia, such as health, public safety, the economy, education, the job market, and others. Available at [infovis.sei.ba.gov.br](http://infovis.sei.ba.gov.br). Resources will be destined for technological infrastructure services for processing and hosting the panels.

**Estimated annual value: BRL 150,000.00**



### SEIDADOS

SEIDADOS is a digital platform that brings together databases related to the state of Bahia, highlighting economic, financial, demographic, geographic, and social data on different topics, such as income, education, health, housing, and employment. It also enables disaggregation by municipalities and identity territories. In addition to providing access to information, SEIDADOS enables the user to download databases in historical series format to use them for work and studies. The funds will be invested in acquiring a database server.

**Estimated annual value: BRL 36,000.00**



## SEIColab

Management



SEIColab is a communication channel created by SEI with the aim of promoting the development of multidisciplinary studies, encouraging the participation of different segments of society, gathering information, and producing knowledge in a collaborative way. This channel makes it possible to contribute to decision-making in the public sphere, as well as to the dissemination of knowledge among researchers and citizens in general. The contents are presented in text formats, images, tables, useful links, maps, and videos (interviews, testimonials, discussion forums) that are spread widely in society through social media. Funds will be invested in website maintenance and in the creation of pages referring to new projects.

**Estimated annual value: BRL 131,160.38**

## SEIGEO

Management



Portal created to provide data, maps, services, applications, metadata, publications, and other documents of geographic nature, produced, or systematized by SEI. The purpose of the platform is to provide citizens with quick and easy access to geographic information. Resources will be destined to improving the technological infrastructure necessary for the platform to function.

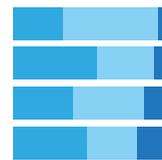
**Estimated annual value: BRL 150,000.00**



Photograph: SEI/Digeo



Photograph: Carol Garcia/GC



Photograph: Rafael Martins/

## SECTOR STUDIES

### Social profiles

It aims to conduct studies on Bahia's social reality, analyzing multiple aspects such as education, health, and housing conditions, with the objective of subsidizing the development of public policies. The funds will be invested in hiring researchers to carry out the following studies:

Study 1 - Profile of Bahian Children and Adolescents

Study 2 - Profile of Bahian Youth

**Estimated value: BRL 170,000.00**



Education



Health



Social



Demography



Social assistance

### Overview of women in Bahia – Year I

A cross-referencing study of thematic information. Women's health indicators will be analyzed, including the incidence of neoplasia, pregnancy, and other women indicators, such as maternal mortality and its causes, assistance during pregnancy, teenage pregnancy, and others. Violence indicators will also be analyzed, such as femicide and sexual violence. The study includes an analysis of the insertion of women in the labor market, considering age groups, race/color and family profile, education and income. The resource will be invested in hiring the database server for a period of four years.

**Estimated value: BRL 106,000.00**



Health



Public security



Job market

### Overview of women in Bahia – Year II

In this second study on the condition of women in Bahia, thematic analyses will be deepened based on indicators of health, violence, the labor market, issues of race/color, education and income, including the necessary observation of the reality of transgender women, in addition to the protagonism and specificities of women in rural contexts. The resource will be invested in hiring specialized researchers.

**Estimated value: BRL 140,000.00**



Health



Public security



Mercado de trabalho



OVBA



GOVBA



## Analysis of tourism in Bahia

Economy



Tourism

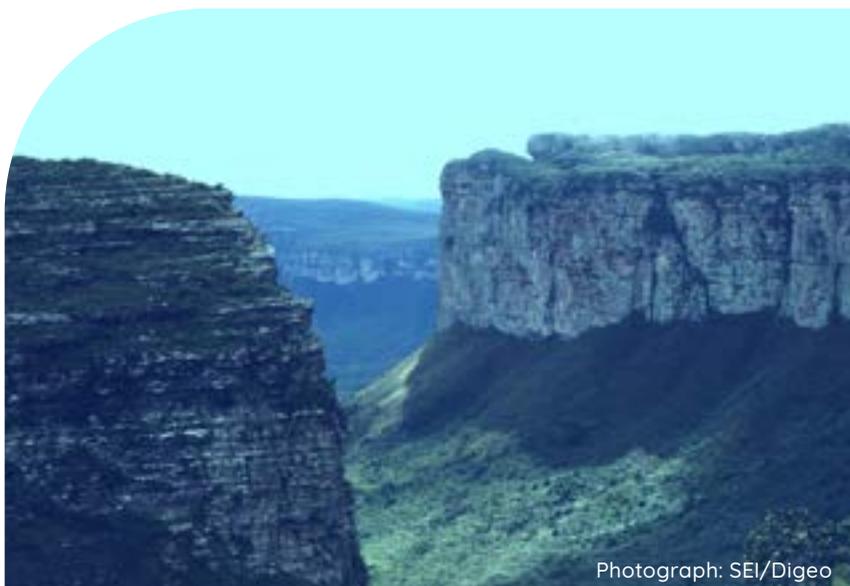
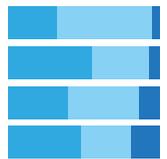


The project presents two lines of analysis, a structural one, where the Added Value of tourism in Bahia will be estimated, and a conjunctural one, in which, on a monthly basis, an analysis of tourism will be carried out from different data sources, such as jobs generated, tax collection, hotel occupancy rate, economic growth of activities related to tourism, and passenger flow. In addition to secondary data, an automated survey of information on tourist areas in the state will be developed.

**Estimated value: BRL 200,000.00**



Photo



Photograph: SEI/Digeo

## STRATEGIC PROJECTS

### Transport logistics structuring systems

This project aims to identify the main investments in the integration of the different territories of Bahia, based on analyzes and proposals of a structuring multimodal logistic system. Strategies will be formulated to allow greater interconnection between Bahia and the Southeast region, improving the flow of cargo between them and the other Northeastern states, at a lower cost and with greater speed. Strategies will also be outlined to improve and strengthen the connection between the Bahian coast and the production areas of the Brazilian cerrado (scrubland) aimed at grain production. At the same time, the project will encourage greater connectivity to facilitate international trade, the construction of new ports, and better use of the potential of the Bahia coast for domestic activities.

**Estimated value: BRL 420,000.00**



Infrastructure



Economy

Photograph: divulgação/GOVBA

### Sustainable regional development: decarbonization and development

This project foresees, as an initial product, the inventory of areas in which the state can work on decarbonization projects. In the current context of climate change, with the intensification of the occurrence of extreme events, it is essential to discuss measures aimed at reconciling economic development with environmental preservation, in order to reduce the vulnerability and exposure of the population to climate changes.

**Estimated value: BRL 662,400.00**



Sustainable development



Environment



Education



Health

## Payment for Environmental Services in Chapada Diamantina

Sustainable development



Economy



Tourism



Environment



Social



The aim is to generate a basic regional project for the Payment for Environmental Services (PES) strategy for Chapada Diamantina. PES is an instrument that can generate multiple social, environmental, and economic benefits for the region. The basic project will subsidize the development of municipal plans for the selected area: the 19 municipalities of the Chapada Diamantina Tourist Zone inserted in the Potiguara Basin. It includes a pilot plan for the municipality of Ibicoara, which can be adapted to other municipalities and regions within the state.

**Estimated value: BRL 1,302,000.00**

## Lentes Livres (Free Lenses)

Culture



Tourism



Education



Environment



Sustainable development



Lentes Livres intends to generate a bank of projects and executable ideas in the areas of culture and tourism to improve living conditions in the tourist region of Chapada Diamantina. It aims, through the convergence of multidisciplinary knowledge based on interpretations of the different sectors of society, to build a project bank that can lead to interventions, in addition to generating subsidies for public and private actions of regional development, contributing to a socioeconomically sustainable environment. Projects will be selected based on objective criteria and requirements defined in the notice.

**Estimated value: BRL 168,000.00**



## Connectivity

The Connectivity project aim is to allow access to an internet link for low-income families and for small and medium-sized economic and social activities located in towns and close to tourist attractions in the Chapada Diamantina region. Such a proposal can bring numerous benefits to families and entrepreneurs in the region, facilitating the expansion of trade and services in tourism, raising the income of small and medium-sized traders, and stimulating the production of handicrafts, food and beverages, among others. The project will be made possible with the acquisition of an internet link via satellite or a local operator to serve the communities identified in municipalities in the Chapada Diamantina Tourist Zone inserted in the Paraguaçu Basin.

**Estimated annual value: BRL 3,540,500.00**



Infrastructure



Economy



Management



Culture



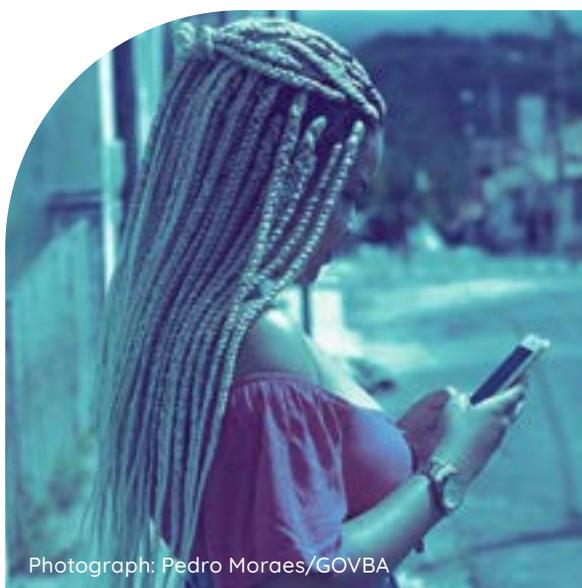
Health



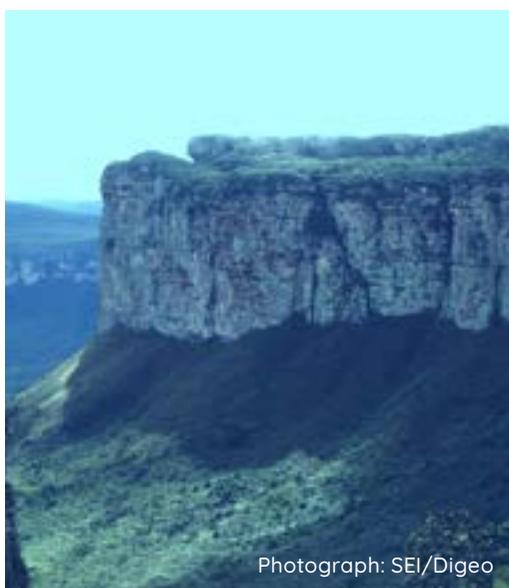
Social



Public security



Photograph: Pedro Moraes/GOVBA



Photograph: SEI/Digeo

## CIGData

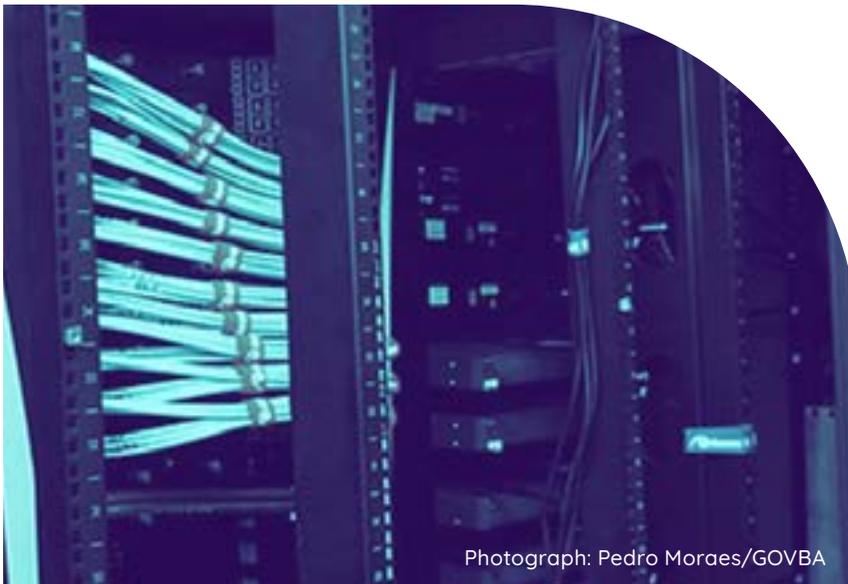
Management



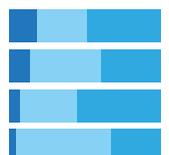
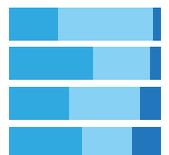
The project consists of structuring a multidisciplinary and multi-user research and innovation center with technologies that allow highly complex geospatial and data science analysis and processing, through the integration of supercomputing, artificial intelligence technologies and image processing. The structuring of CIGData aims to expand technical capacity and solidify its unique character in the training of human resources and in the provision of services to meet government, business, educational and research groups demands of different ICTs, national or international, in the areas of geographic intelligence and data science.

Its structuring includes the acquisition of data center infrastructure for uninterrupted operation, high-performance computer clusters (HPC/HTC), geoprocessing software licenses, remote sensing and artificial intelligence, drones with built-in RTK and Lidar technology, GNSS RTK receivers.

**Estimated value: BRL 25,000,000.00**



Photograph: Pedro Moraes/GOVBA



## GEOINFORMATION

### Project for the implementation of territorial boundary markers

In the field, vertexes representative of the state's territorial limits are essential for materialization. This project includes the acquisition of a pair of GNSS receivers (RTK), equipment for laser engraving on metal, the acquisition of bronze metal sheets, and the conditioning of the physical space for the implementation of the recording station, in addition to hiring a specialized company for the implementation of the landmarks in the municipalities within Bahia.

**Estimated value: BRL 1,000,000.00**



### Small area mapping project using drones

This is an essential product to support cartographic activities, territorial boundaries, current land use, and vegetation cover. It includes the acquisition of a pair of GNSS receivers (RTK) to survey coordinates with a high degree of accuracy, to implement landmarks to support the production of mappings.

**Estimated value: BRL 280,000.00**



Photograph: SEI/Digeo



Photograph: SEI/Digeo

## Bahia Cartographic Update

Infrastructure



Environment



Management



The Bahia Cartographic Update project aims to complement areas that have not yet been mapped in the state, at a scale of 1:25,000. The geoinformation gap on this scale creates obstacles to the development and planning of public and private investments in these regions, such as telecommunications, sanitation, and transport infrastructure. Indispensable for knowledge of the state territory and for regional planning, subsidizing projects, and actions of various state public administration bodies. The project will be developed over four years, with priority given to the Chapada Diamantina area.

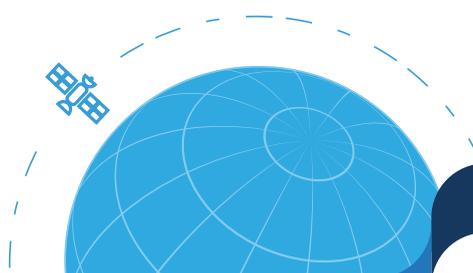
**Total estimated value: BRL 85,646,692.58**

**Table 1**  
Proposed areas and estimated value

Batch	Name	Number of Cards	Area in km <sup>2</sup>	Estimated value	Status
1	Chapada Diamantina	174	32.640	BRL 12,240,652.80	In progress *
2	Senhor do Bonfim	179	33.870	BRL 12,701,927.40	Ready to contract **
3	Jacobina	166	31.329	BRL 11,749,001.58	Ready to contract **
4	Feira de Santana	166	31.280	BRL 11,730,625.60	
5	Jequié	180	33.645	BRL 12,617,547.90	
6	Vitória da Conquista	180	33.472	BRL 12,552,669.44	
7	Porto Seguro	174	32.143	BRL 12,054,267.86	
Total		1219	228.379	BRL 85,646,692.58	

\* SEI/TOPOCART Contract No. 08/2023

\*\* PE Price Registration Minutes No. 02/2023, effective until 06/07/2024 (SEI Process No. 037.7585.2022.0000872-44)





## Mapping of Land Use and Coverage in the State of Bahia

Infrastructure



Environment



Sustainable development



Management



An essential product for monitoring land use and vegetation cover also serves as a subsidy for updating the Ecological Economic Zoning (EEZ) and inventory of emissions and removal of greenhouse gases (GHG) in the state of Bahia. Mapping is done from satellite images, identifying areas of native vegetation and anthropized areas (crops, pastures, urban areas, and others) using software for digital image processing, in addition to field visits for recognition and information verification. It generates a geospatial database of the state and a publication of the Série Estudos e Pesquisas with data analysis. The execution of the mapping is planned in batches over a period of four years, with priority for the Chapada Diamantina region (Batch 1) in the first year.

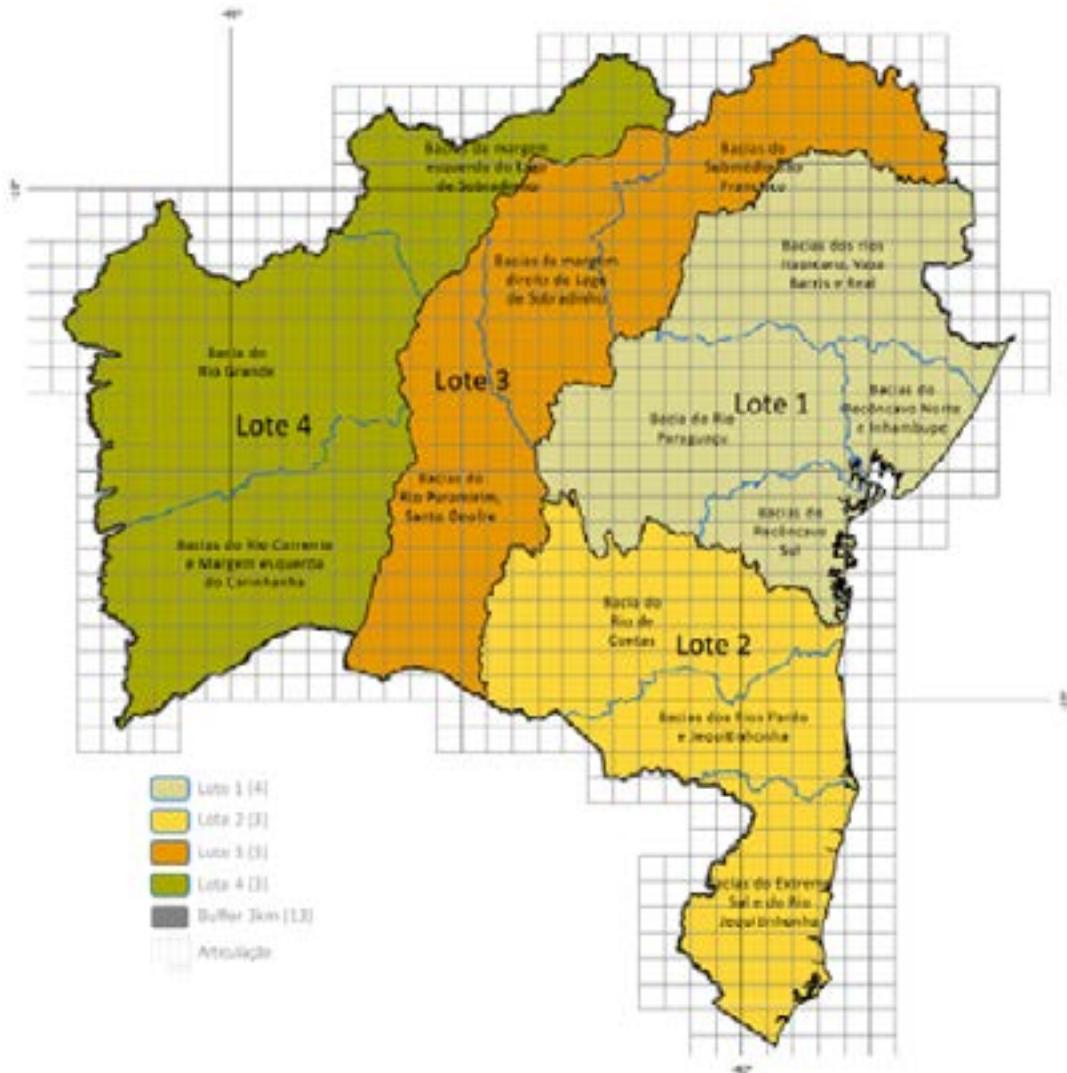
**Estimated value: BRL 20,000,000.00**

### Quadro 2

#### Proposta das áreas e valor estimado

Batch	Basins	Area in km <sup>2</sup>	Area in % of the state	Estimated value
1	Basins of the Itapicuru, Vaza Barris, and Real rivers	143.118,95	24,80	BRL 4,960,496.14
	Recôncavo Norte and Inhambupe basins			
	Paraguaçu River Basin			
	Southern Recôncavo Basins			
2	Rio de Contas Basin	118.272,04	20,50	BRL 4,098,609.25
	Basins of the Extreme South and the Jequitinhonha River			
	Pardo and Jequitinhonha river basins			
3	Paramirim river basins, Santo Onofre	134.593,07	23,32	BRL 4,664,595.81
	Basins on the right bank of Lake Sobradinho			
	Basins of the Lower São Francisco			
4	Basins on the left bank of Lake Sobradinho	181.089,44	31,38	BRL 6,276,298.81
	Basins of the Corrente River and the left bank of the Carinhanha			
	Rio Grande Basin			
Total		577.073,50	100%	BRL 20,000,000.00

Figure 2  
Proposed batches



Source: SEI/Digeo.



Photograph: SEI/Digeo

## Learn how to allocate resources for SEI

### Budget unit

17.301

### Budget Action (PAOE)

Request according to the project

### Nature of expense

33.90.39 - Legal Entity

44.90.52 - Material and equipment

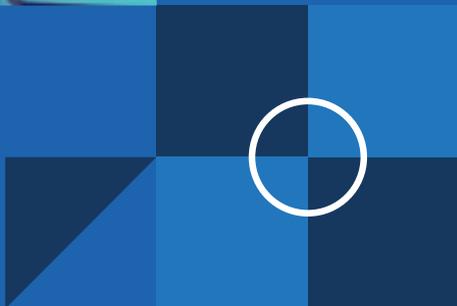
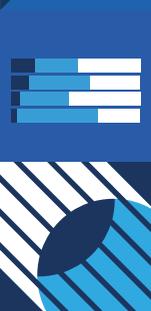
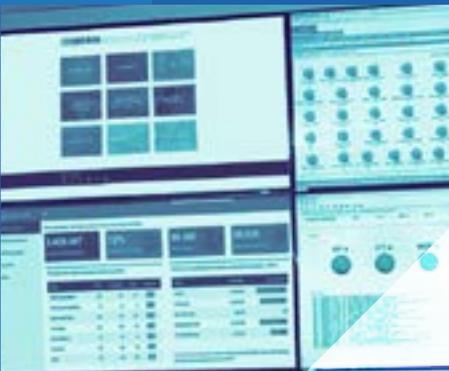
44.90.40 - Software

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