

# Sustainable Management of São Paulo Protected Areas

## The Role of **BLUE CARBON**

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# INTEGRATED MANGROVE MANAGEMENT PROGRAM



UNITED NATIONS DECADE ON  
**ECOSYSTEM  
RESTORATION**  
2021-2030



**2021  
2030** United Nations Decade  
of Ocean Science  
for Sustainable Development



# INTEGRATED MANGROVE MANAGEMENT PROGRAM

## KEY COMPONENTS



### Nature-based solution

Conserving, properly managing, and restoring coastal-marine environments are strategies for both climate change adaptation and mitigation

### Communities

Involving communities in the design and implementation of projects ensures that the projects are tailored to their needs, increasing local mobilization and engagement.

### Ecosystem services

Considering which provided services are most relevant to each locality helps in developing projects tailored to different realities.



### Public Use and Environmental Education

Projects of ecological and community-based tourism and promotion of broad, fair, and empowering environmental education drive awareness of the significance of each ecosystem.

### Managers

Understanding the daily demands of unit managers and identifying the strengths and weaknesses of each region can be crucial in shaping projects

### Database

Utilizing existing databases is a cost-effective way to identify potential pressure vectors, delineate possible degraded areas, and define qualitative quality indicators, facilitating the mission of monitoring and developing recovery projects.

# INTEGRATED MANGROVE MANAGEMENT PROGRAM



HOW?

## STRATEGICS STEPS

DIAGNOSIS



MONITORING



RECOVERY



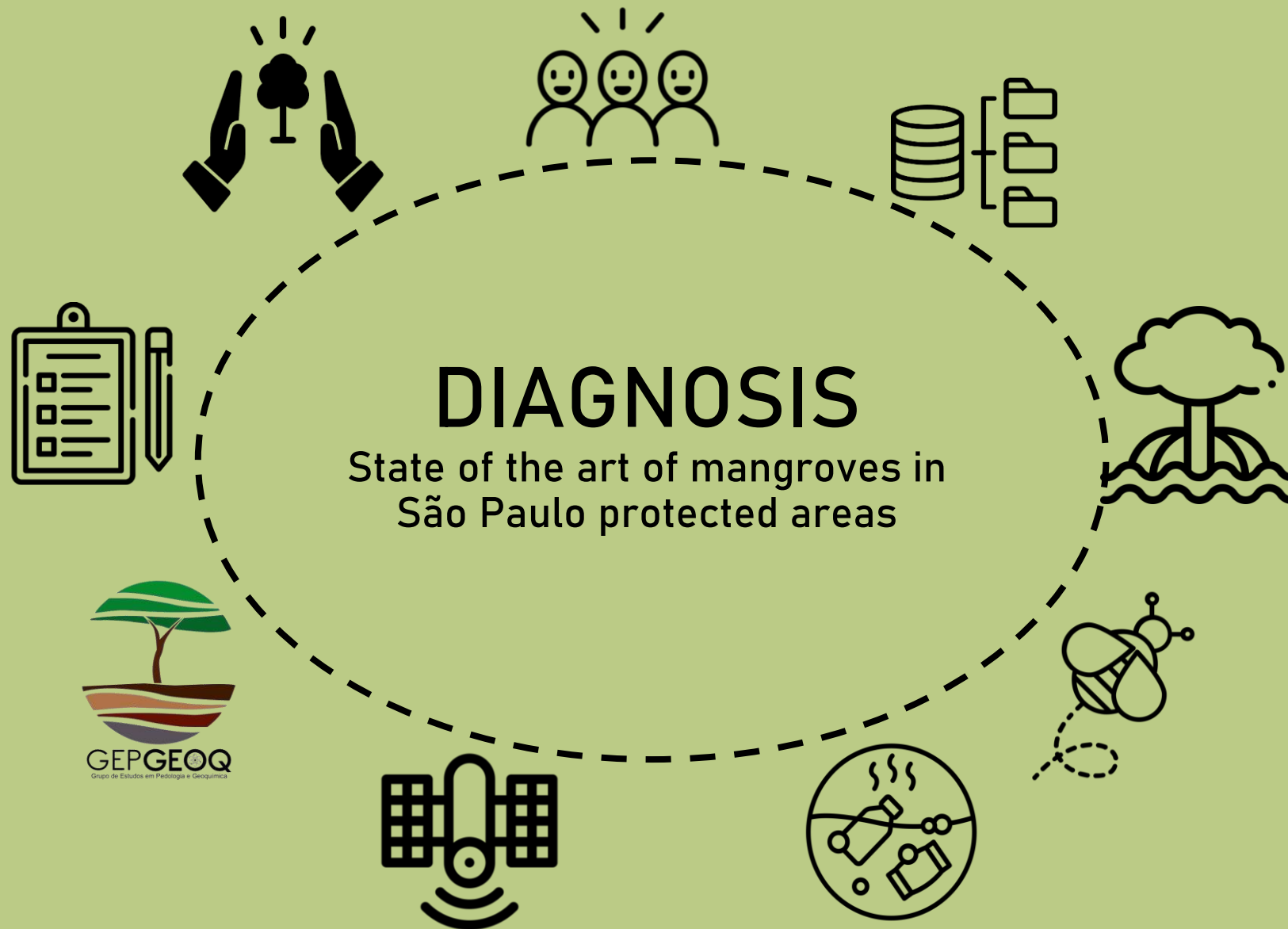
ENVIRONMENTAL  
EDUCATION AND  
PUBLIC USE



SUSTAINABILITY AND  
CLIMATE CHANGE



CONTINUED  
COORDINATION







# Mangrove Monitoring Protocol






20/09/2023 10:07

# Protocolo Mínimo

FUNDAÇÃO FLORESTAL

## Manguezais



 Secretaria de Meio Ambiente, Infraestrutura e Logística

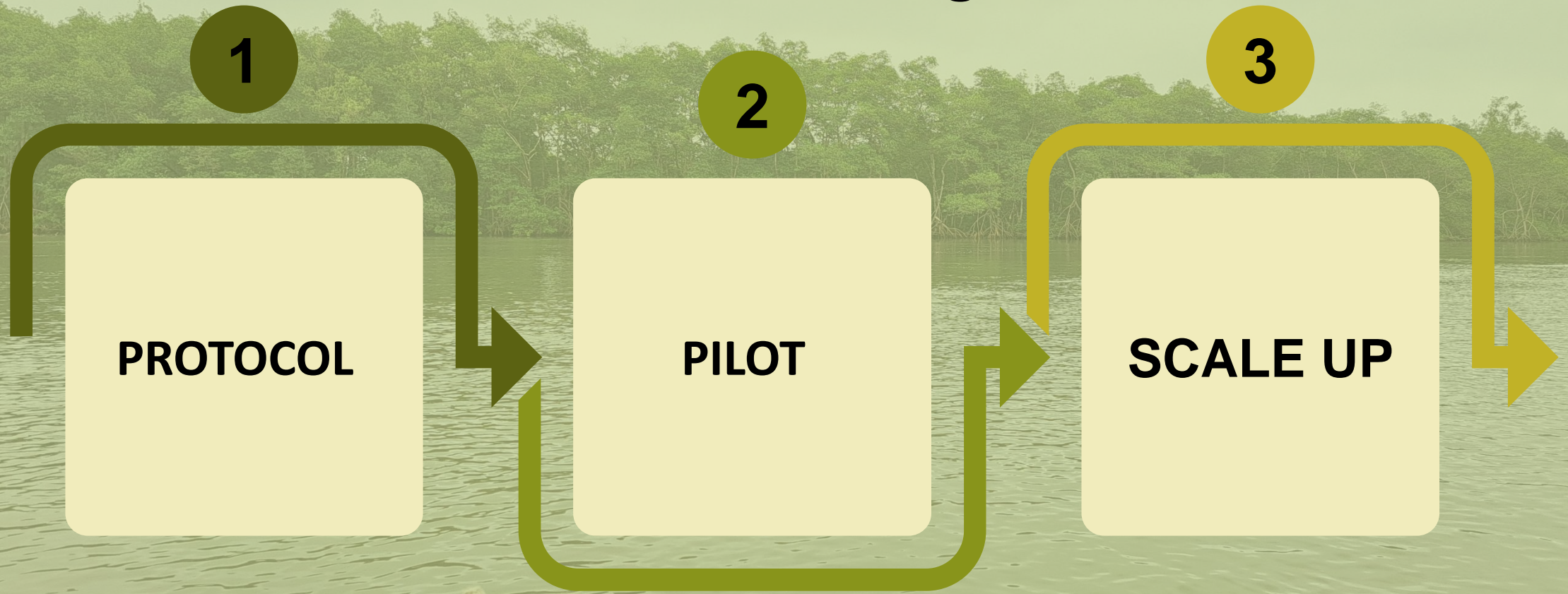

**SÃO PAULO**  
 GOVERNO DO ESTADO





# Recovery

Results from the sensing phase of the **DIAGNOSTIC** stage







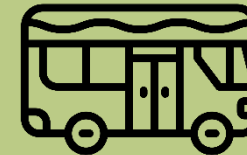
# ENVIRONMENTAL EDUCATION AND PUBLIC USE



Replicate successful actions



Community engagement  
(Scientific communication/ training)



Public use development:  
Expansion of  
infrastructure conditions



Environmental education/  
Educational materials/  
School engagement



Created by Icons By Affre

Citizen science protocols





# SUSTAINABILITY AND CLIMATE CHANGE



**Sustainable resource use  
(if provided for)**



**Financial sustainability:**  
- Carbon credit pilot  
- Payment for ecosystem services



**Studies for the inclusion of the coastal zone  
and mangroves in the Nationally  
Determined Contributions (NDC)**



**Coastal erosion control**

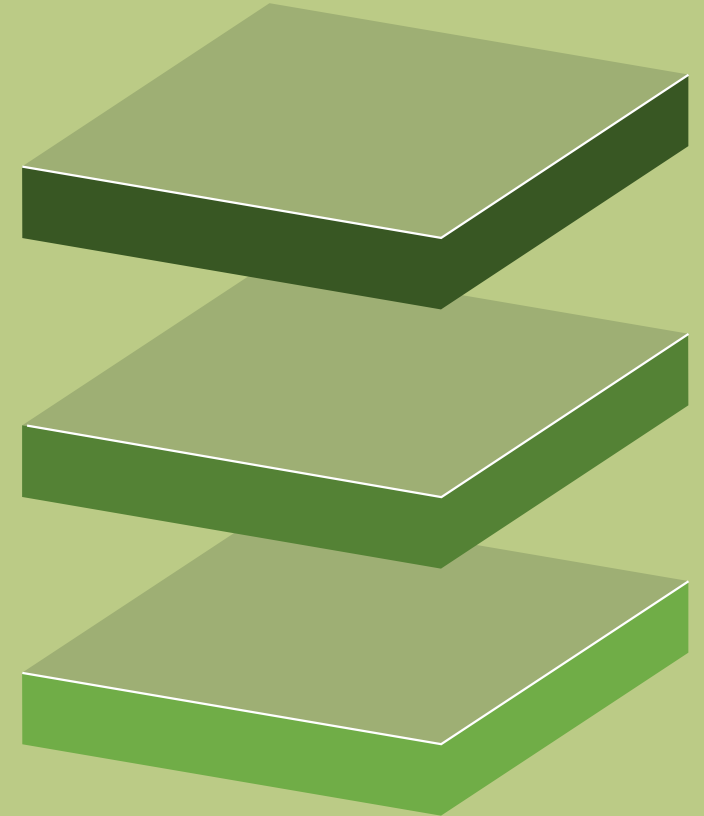


# CONTINUED COORDINATION

 **ACADEMIC  
RESEARCH**

 **PUBLIC  
MANAGEMENT**

 **CIVIL SOCIETY**





# WEBSITE



## Fundação Florestal

Secretaria de Meio Ambiente,  
Infraestrutura e Logística

INSTITUCIONAL

**Integrated  
Action  
Programme for  
Mangroves in in  
São Paulo  
Protected Areas**

[Programa Manguezais](#)

← [PROGRAMA MANGUEZAIS](#)

### PROGRAMA DE AÇÃO INTEGRADA PARA OS MANGUEZAIS DAS UNIDADES DE CONSERVAÇÃO ESTADUAIS DE SP



**Apresentação do Programa**



# First meet

## INTEGRATED MANGROVE MANAGEMENT PROGRAM







## Contact



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