The Climate Academy 2021

27 September to 1 Octuber 2021 - Oline edition

Implementation Process and Results of Filtering Garden located in the City of Sobral, Brazil.

Úrsula Priscyla Santana Nóbrega Sobral-Ce, 2021



Munich Re Foundation

From Knowledge to Action



UNITED NATIONS
UNIVERSITY

UNU-EHS

Institute for Environment and Human Security



United Nations Climate Change

How my work is using NbS







BSc. Architect and Urban Planner;

MSc in Geography: territorial dynamics, countryside and city;

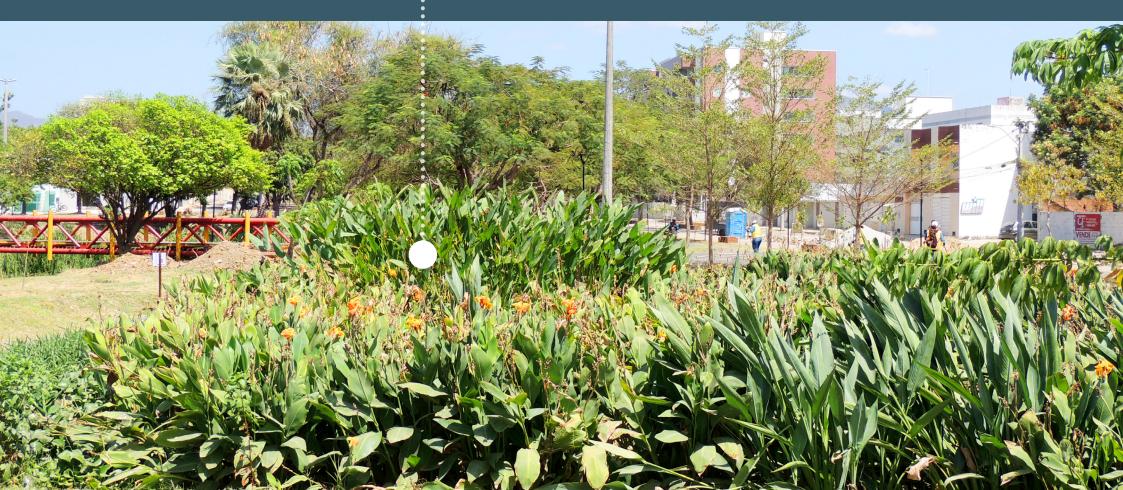
Director of Parks, Gardens and Conservation Units.



How my work is using NbS

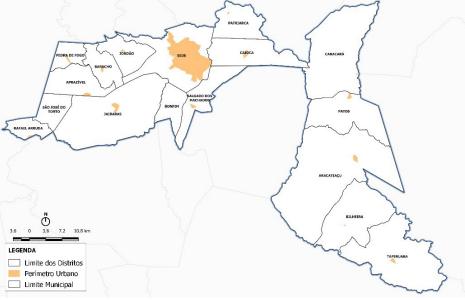
Wetland of Pajeu's Creek









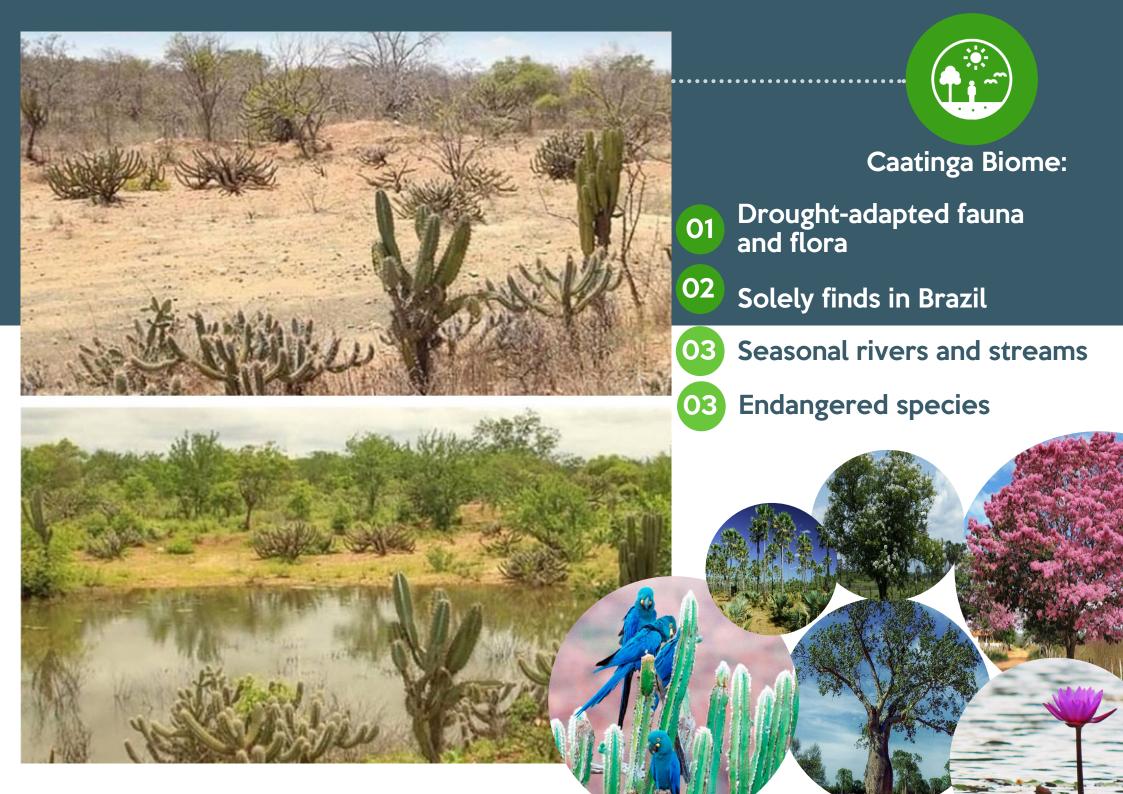


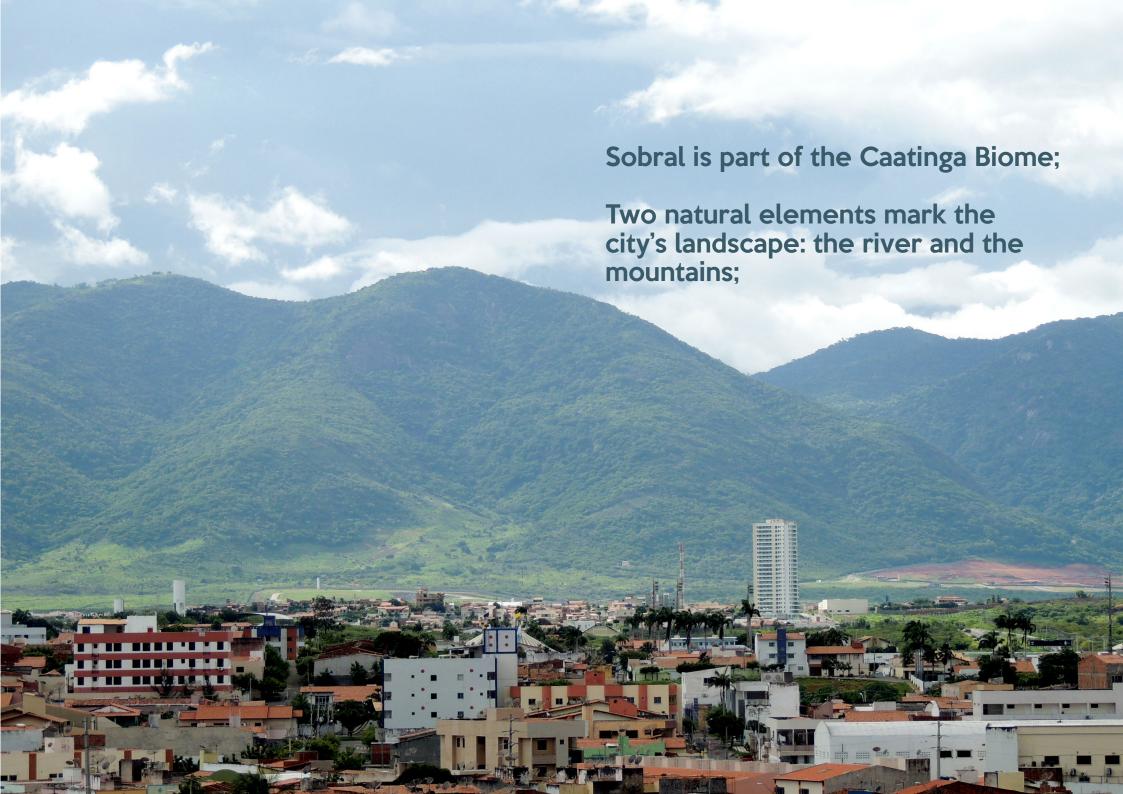
POPULATION: 208.935

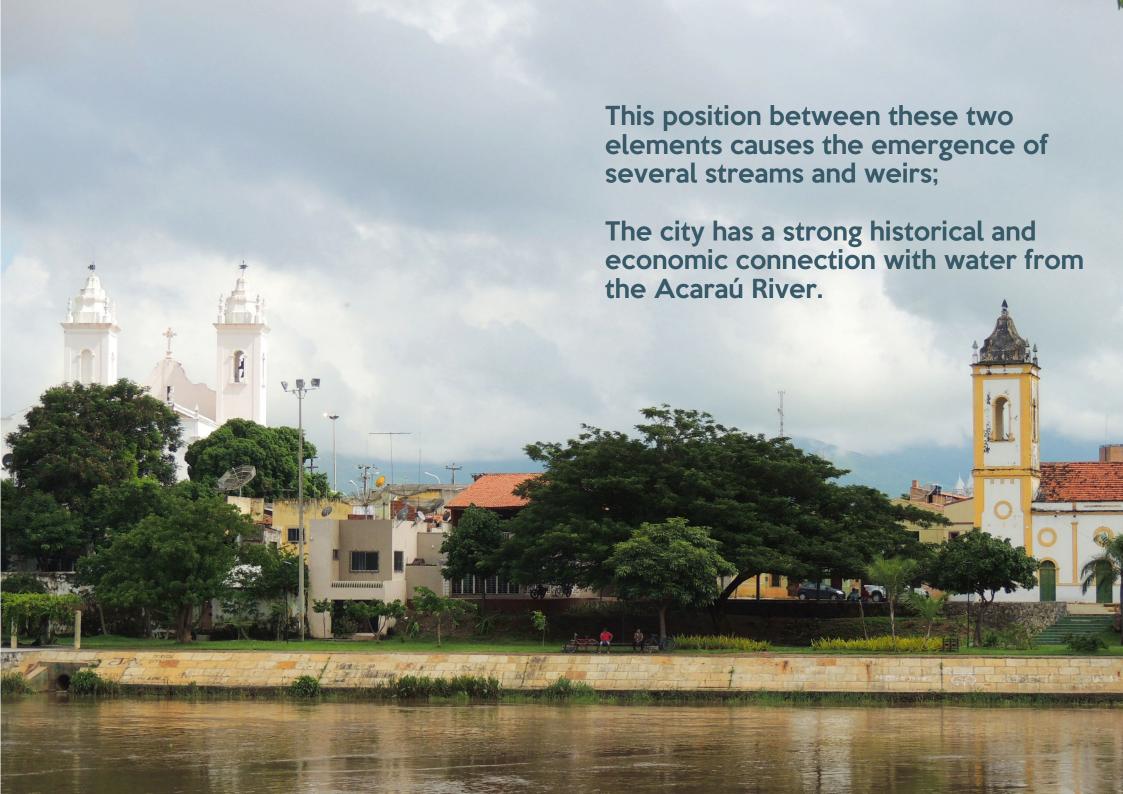
(source: IBGE 2019)

BIOME: Caatinga12% of the country's

territory







Sanitation Facilities Infrastructure

problem: Sobral and Brazil

strategy: Sobral

rapidly in recent decades

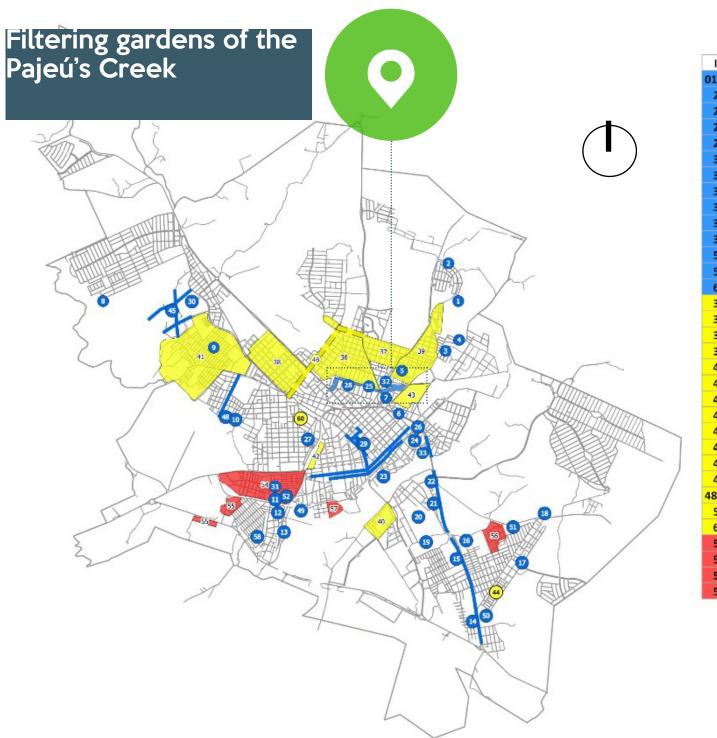
The city has grown The infrastructure (sanitation) does not supports the demand

Expansion of the Filtering gardens traditional sewage of the Riacho treatment

Pajeú (One of the main polluters of the Acaraú River)



Source: Do Jornal da USP, in EcoDebate, SSN 2446-9394, 06/05/2020



ID	Obras
01-24	Requalificação das EEE
26	Lixeiras Urbanas
27	Urbanização do Alto do Cristo
28	Jardins Filtrantes
29	Corredores Verdes
30	CSF (Bairro Nova Caiçara)
31	Areninha Mucambinho
32	Areninha Pajeú
33	Areninha Margem Esquerda
34	Areninha Patriarca
35	Areninha Areinha (Aracatiaçu)
58	Areninha Sumaré
59	Rede coletora de águas servidas de Rafael Arruda
60	Areninha Alto do Cristo
36	SES Campo dos Velhos e Parque Silvana
37	SES Alto da Expectativa
38	SES Junco
39	SES Alto da Brasília
40	SES Dom Expedito
41	SES José Euclides
42	Estação Ferroviária
43	Lagoa da Fazenda
44	CSF (Bairro Sinhá Sabóia)
45	Lixeiras subterrâneas
46	Ciclovia
47	Adutora do Jordão
48-52	Requalificação das ETE's
53	Riacho do Urubu
61	SES Aracatiaçu
54	SES Dom José
55	SES Sumaré (Padre Palhano)
56	SES Cohab II
57	SES Sumaré (Pintor Lemos)

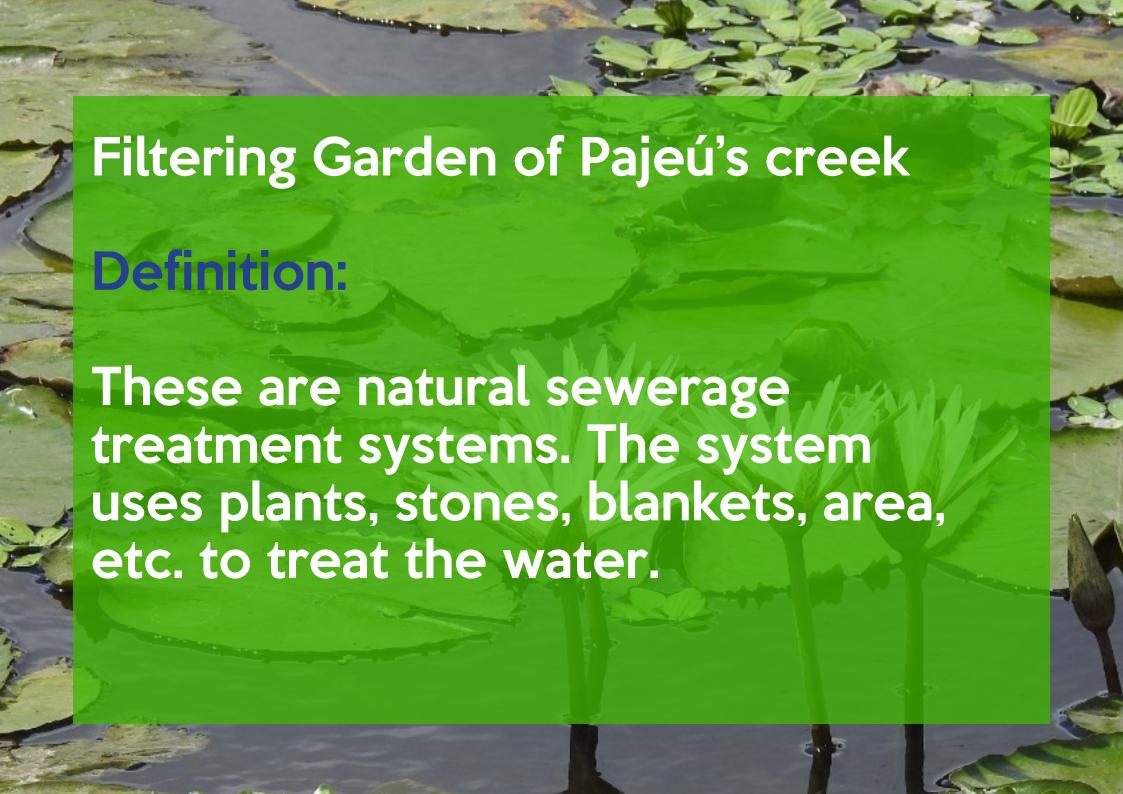
Legenda

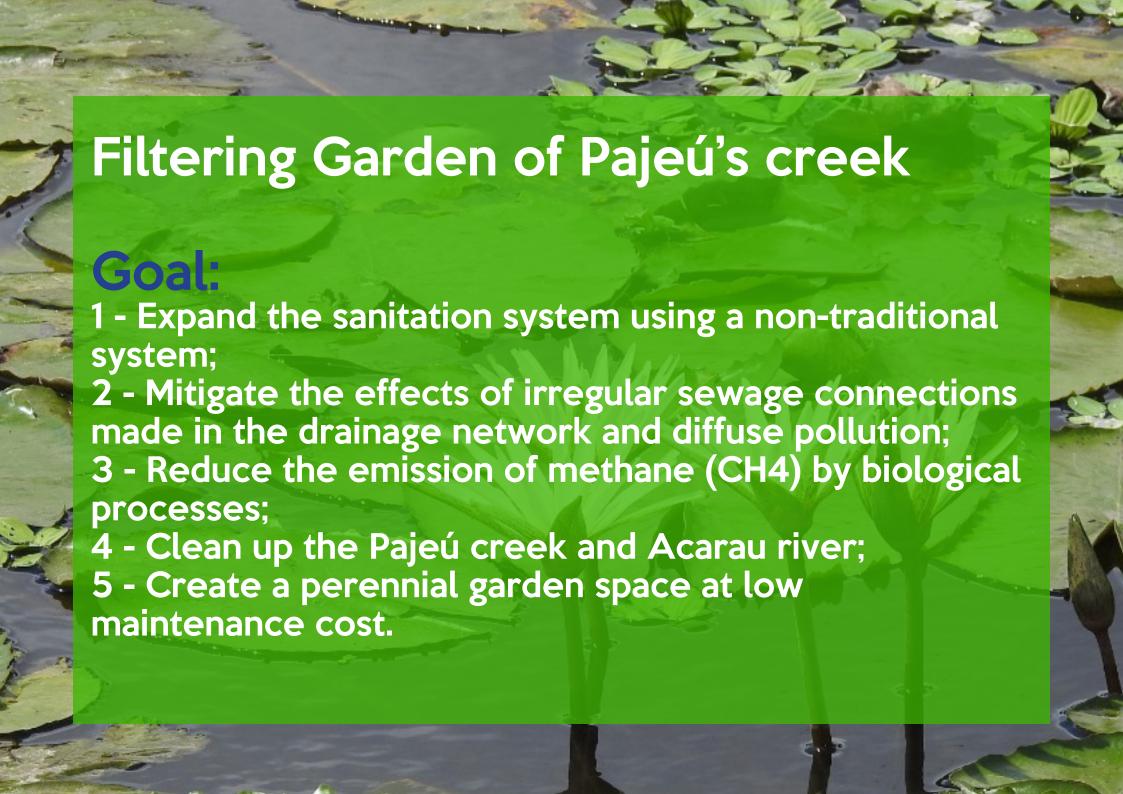
Obras concluídas

Obras em execução

Obras à licitar

Perímetro urbano de Sobral





Filtering Garden of Pajeú's creek

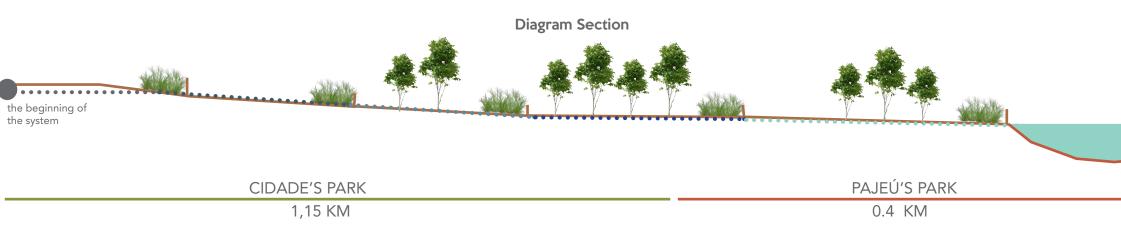


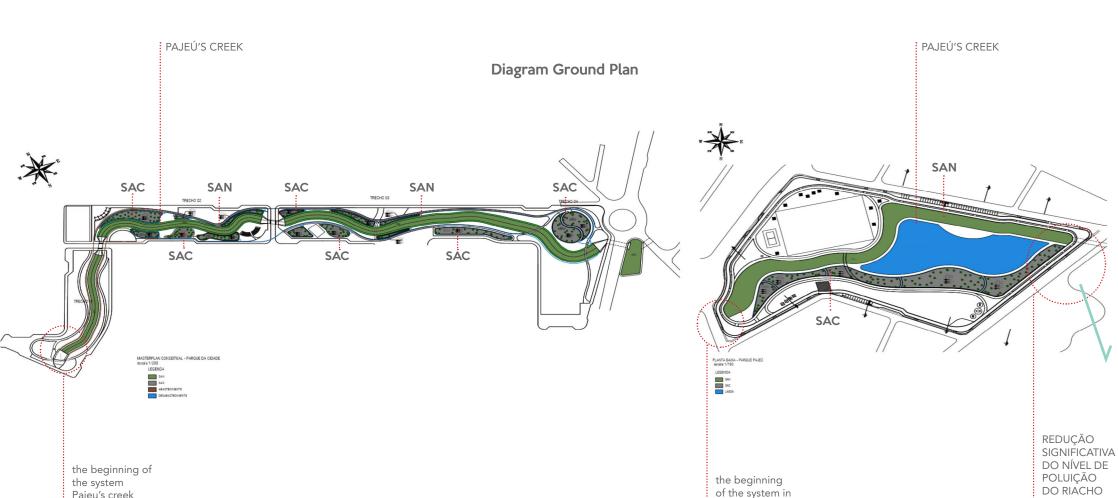




Dimension: 12.000m² 1,19 km Cost to build: \$440.377,05

People have already benefited directly: more than 50,000





Pajeu's creek

polluted water

in Cidade's Park

of the system in Pajeú's Park

reduction of the

pollution level of

the Pajeú's creek

PAJEÚ

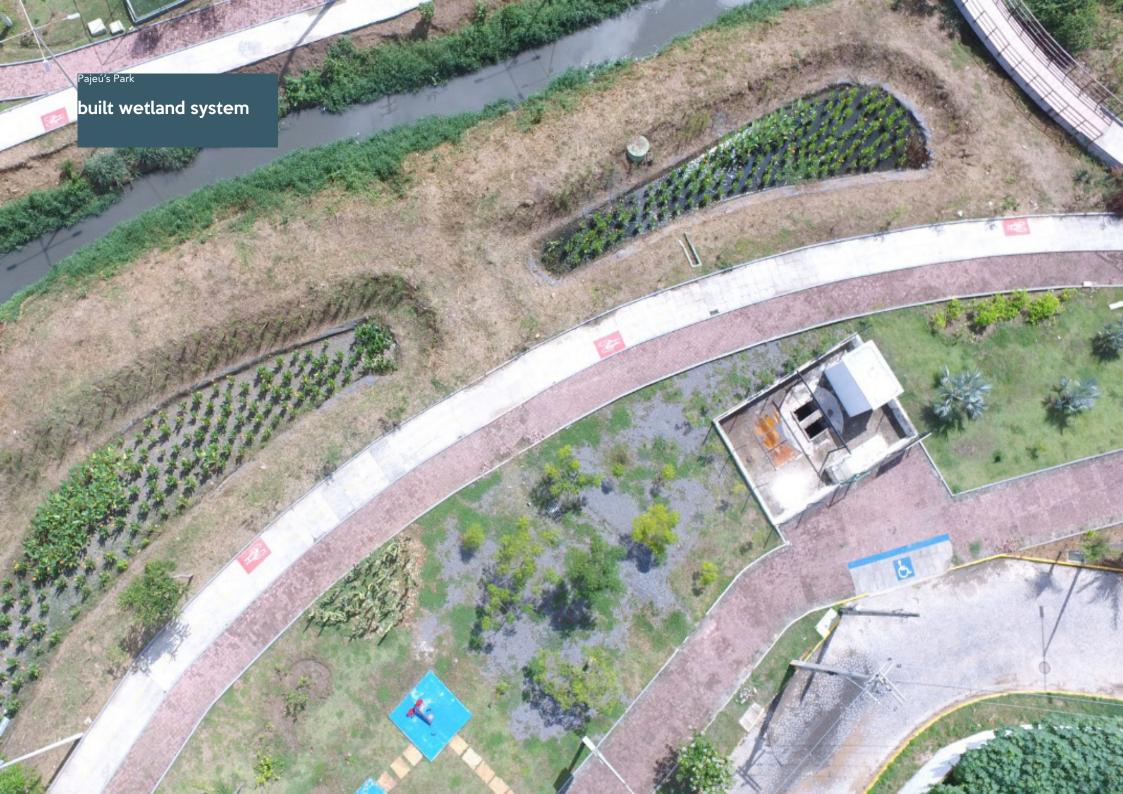
DESTINO

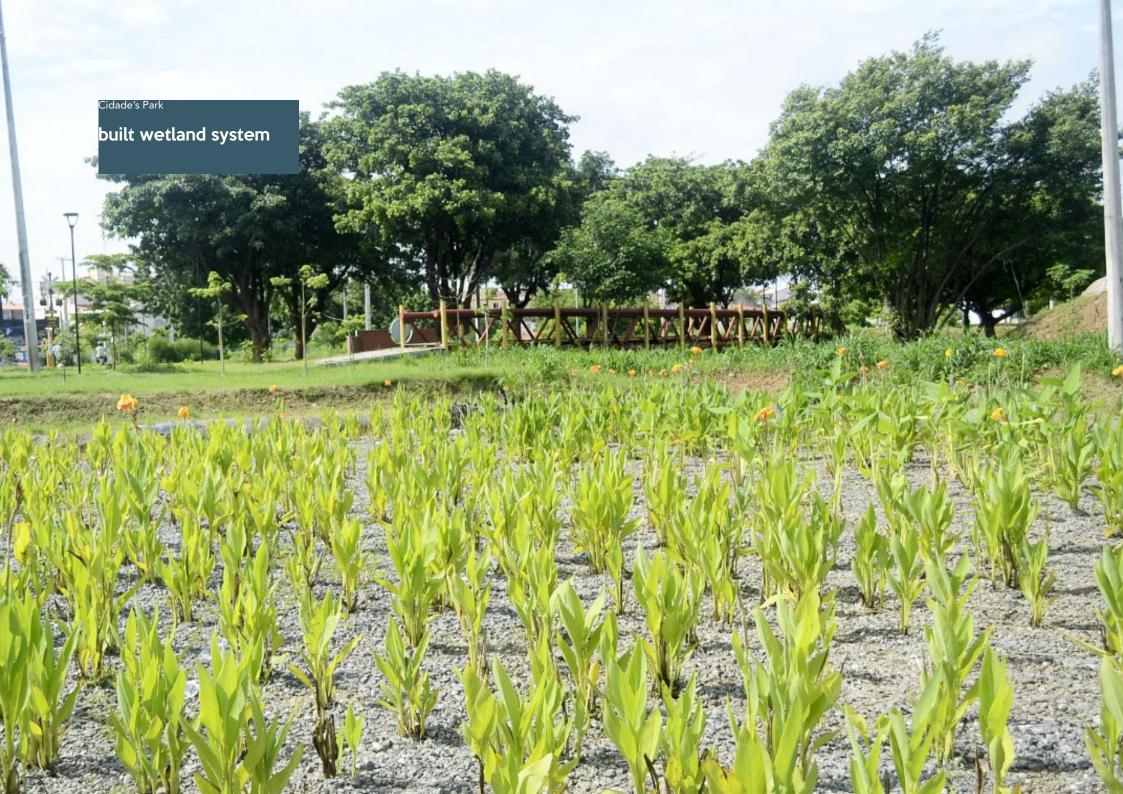
LAGOA DA

FAZENDA



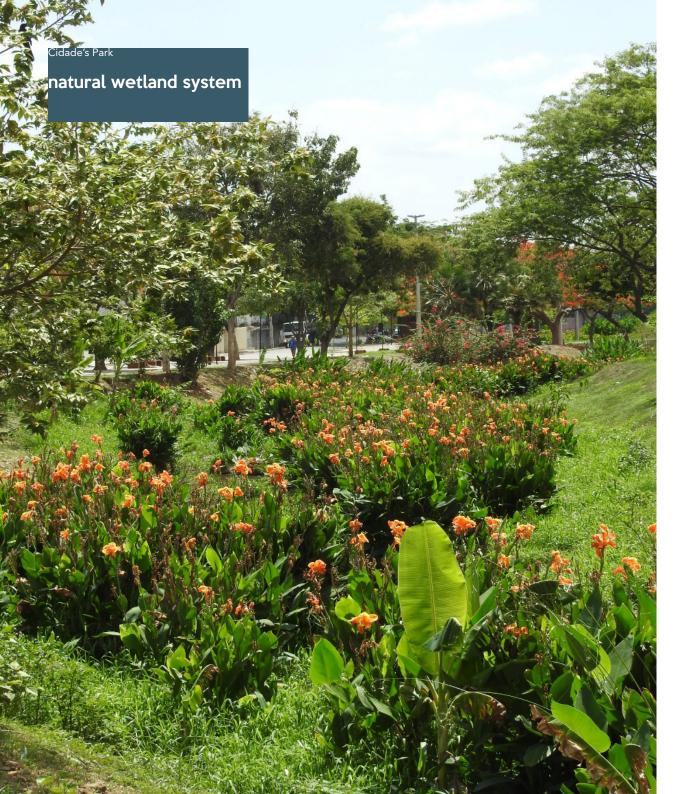














Cidade's Park

plant identification





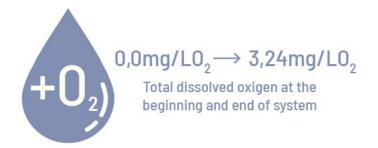








Results:









Lessons Learned:



1 - Technical team



2 - Plans and projects connected with local reality



3 - Political committed



4 - Financial support

Thanks!

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