

GOOD WATER CORRIDORS PROGRAM

2 FOME ZERO E
AGRICULTURA
SUSTENTÁVEL



6 ÁGUA POTÁVEL
E SANEAMENTO



13 AÇÃO
CLIMÁTICA



15 PROTEGER A
VIDA TERRESTRE



17 PARCERIAS PARA
A IMPLEMENTAÇÃO
DOS OBJETIVOS





STATE AND FEDERAL PUBLIC PROSECUTION SUPPORT



17 PARCERIAS PARA A IMPLEMENTAÇÃO DOS OBJETIVOS



**THE FINAL OBJECTIVE
will only be successful
if it is implemented
through strong
partnerships and
global cooperation.
At the Federal, State
and Municipal levels.**

PARTNERSHIPS IN THE GOOD WATER CORRIDORS PROGRAM



THE OBJECTIVE OF THIS PROJECT

- CREATE A PARTNERSHIP MODEL TO CREATE BIODIVERSITY CORRIDORS, PROTECTION OF SPRINGS, SPRINGS AND WET AREAS, REPRODUCING RIVARIAN FORESTS AND FENCED APPS. AND EXECUTE THE MICROBASIN PROJECT, ENSURE THAT RAINWATER STAYS ON RURAL PROPERTIES AND DOES NOT TAKE FERTILE SOIL TO THE RIVERS.

THE STUDY WILL BE CARBON ZERO, REGISTERING AND MEASURING THE AREAS CONTEMPLATED, WITH THE DATA MADE AVAILABLE THROUGH FIELD RESEARCH

THIS MODEL WILL BE EXECUTED IN PARTNERSHIP WITH THE CITY HALLS OF THE COVERED MUNICIPALITIES.

Área de atuação da Usina Santa Terezinha

Escreva uma descrição para seu mapa.

Legenda

Light green area is sugar cane planting



Área de atuação da Usina Santa Terezinha

Mapa noroeste paraná

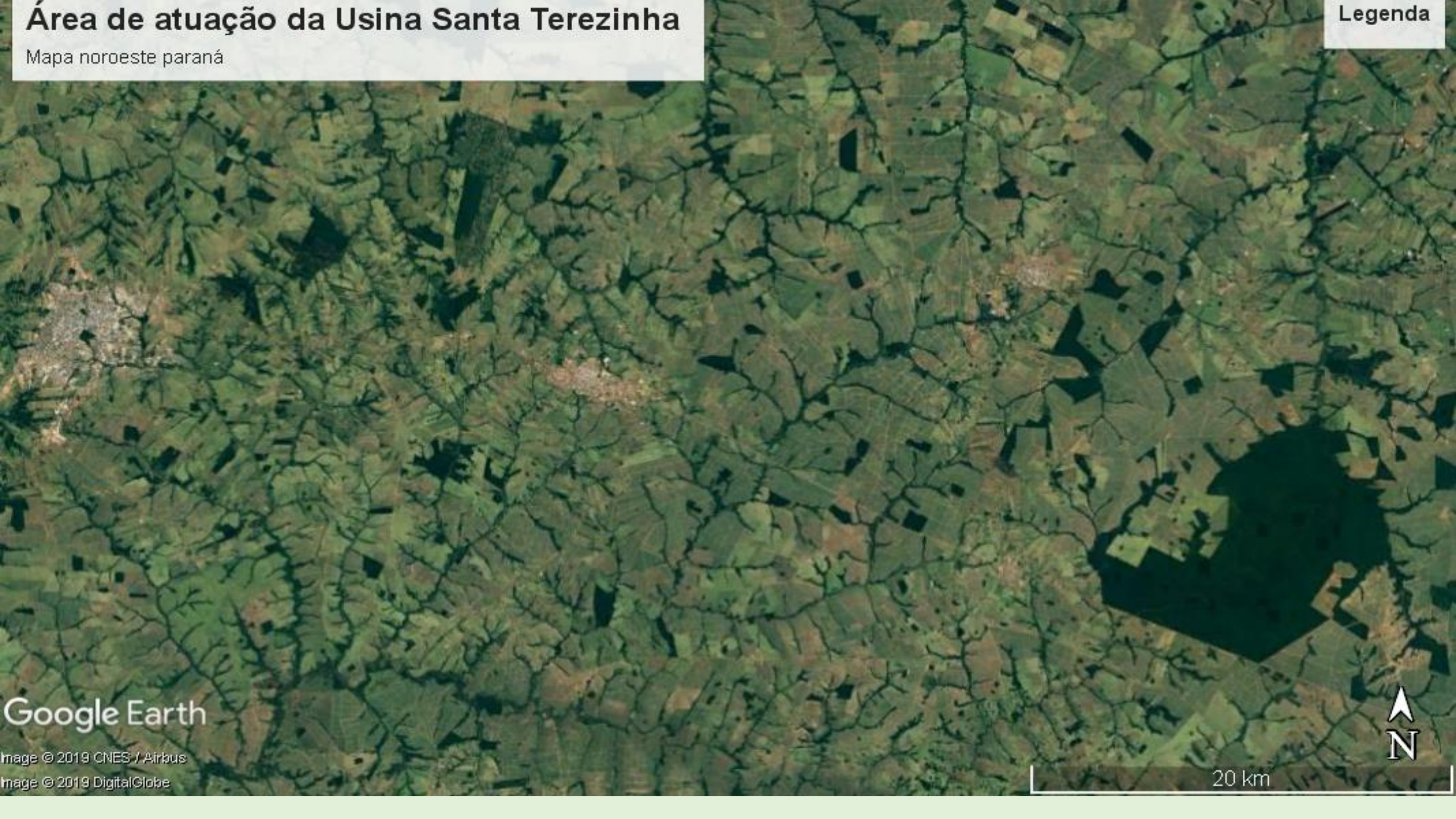
Legenda

Google Earth

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Image © 2019 DigitalGlobe

20 km



Ocupação do solo pela Usina Santa Terezinha

Escreva uma descrição para seu mapa.

Legenda

- Tuneiras do Oeste



Tapejara

Marabá

Tuneiras do Oeste

Google Earth

Image © 2018 CNES / Airbus

© 2018 Google

Image © 2018 DigitalGlobe

9 km

AREAS TO BE RESTORED IN THE CORRIDORS DE ÁGUA BOA PROGRAM

Legenda



Google Earth

Image © 2019 CNES / Airbus

500 m



AREAS TO BE RESTORED IN THE CORRIDORS DE ÁGUA BOA
PROGRAM

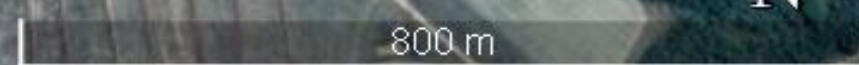
Legenda



Google Earth

Image © 2019 CNES / Airbus

Image © 2019 DigitalGlobe



800 m



AREAS TO BE RESTORED IN THE CORRIDORS DE ÁGUA BOA PROGRAM

Legenda



Google Earth

Image © 2019 CNES / Airbus



1 km


CÓRREGO MUMBUCA 5.100 MTS

Área a ser impactada 101 hectares

Distância da Captação ao Rio 1.346 mts

Distância da Captação a cx água 612 mts

Legenda

 SANEPAR

Tuneiras



Tuneiras do Oeste

Google Earth

Image © 2019 CNES / Airbus

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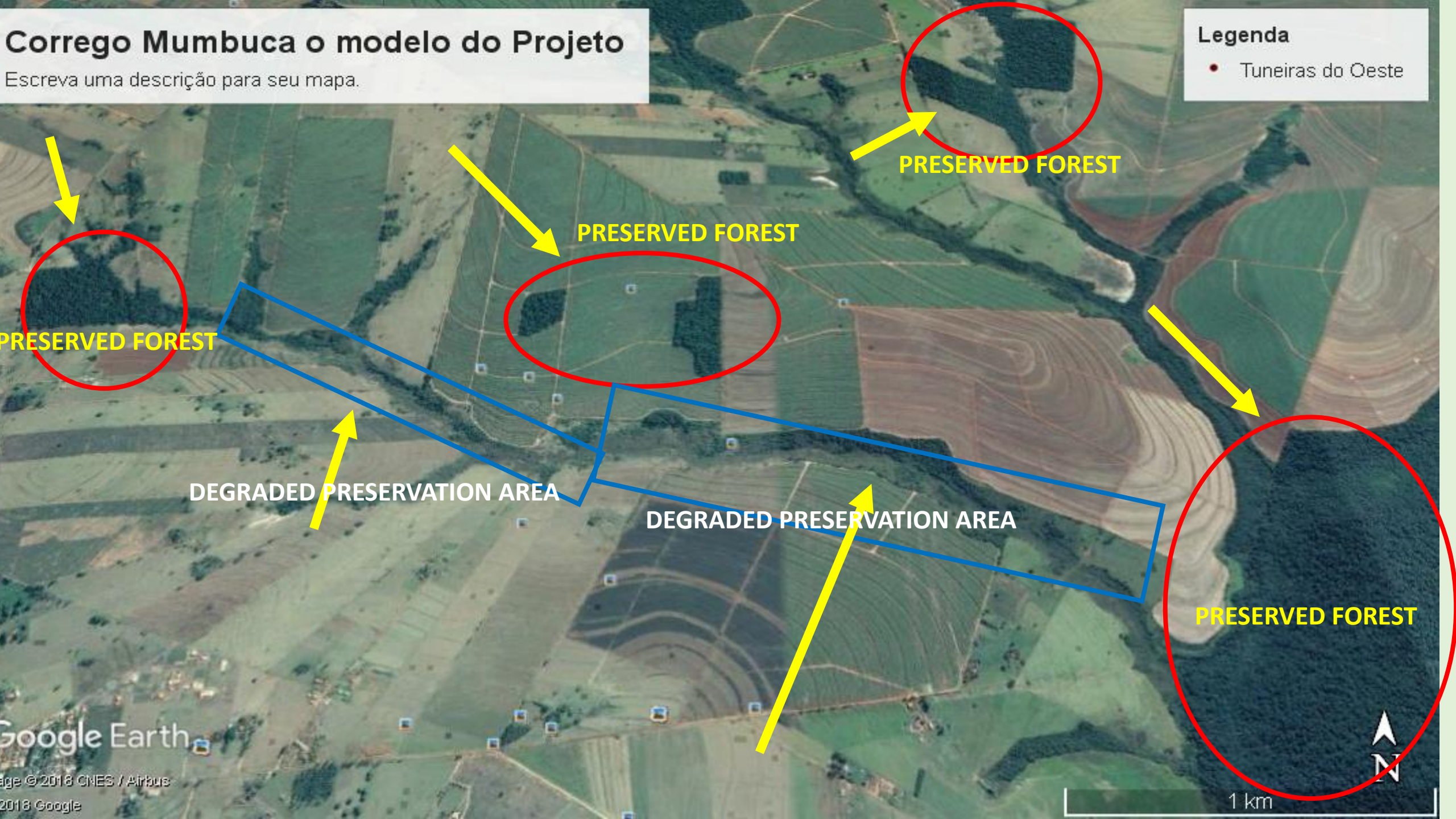
6 km

Corrego Mumbuca o modelo do Projeto

Escreva uma descrição para seu mapa.

Legenda

- Tuneiras do Oeste



PRESERVED FOREST

PRESERVED FOREST

PRESERVED FOREST

DEGRADED PRESERVATION AREA

DEGRADED PRESERVATION AREA

PRESERVED FOREST

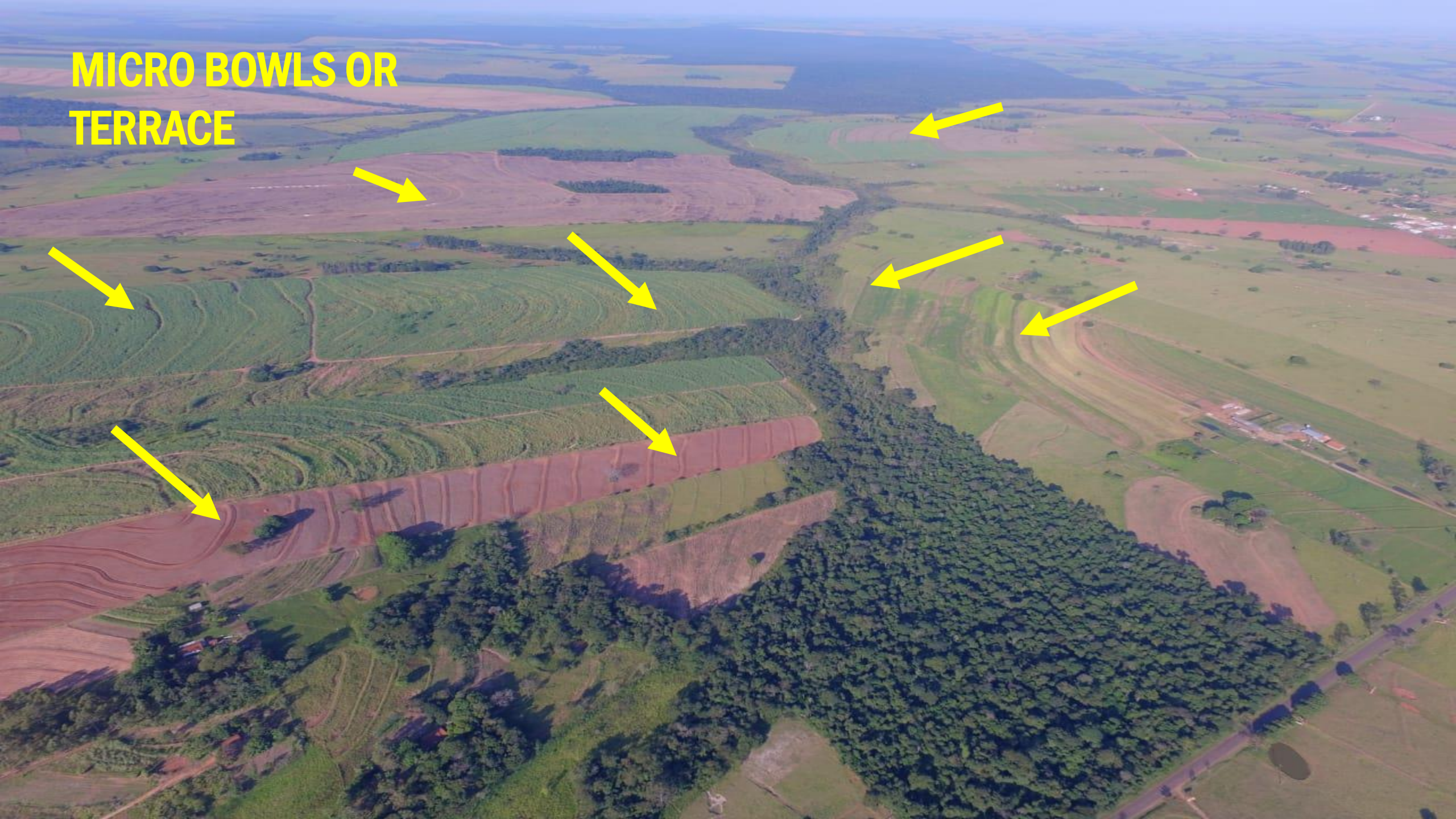
Google Earth

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1 km

**MICRO BOWLS OR
TERRACE**



ÁREA DA APA ASER CONTEMPLADA COM O CERCAMENTO

ÁREA TOTAL 101 HECTARES

ÁREA TOTAL EM METROS QUADRADOS 1.010.000

ÁREA DE CERCAMENTO LINEAR 15.850 METROS

Legenda

- Tuneiras do Oeste



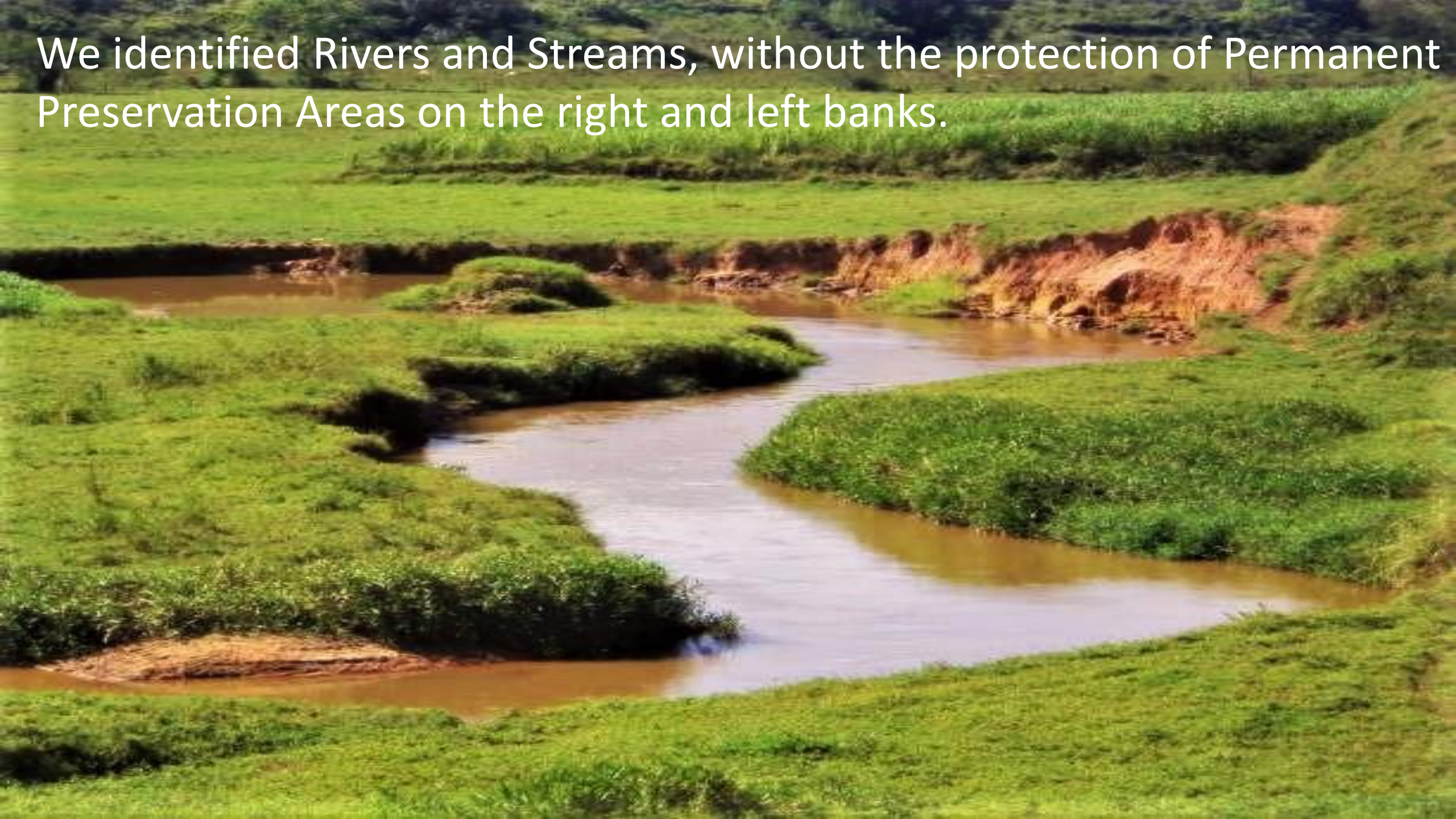
Google Earth

Image © 2019 CNES / Airbus

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2 km

We identified Rivers and Streams, without the protection of Permanent Preservation Areas on the right and left banks.



All soil types originate from the Caiuá Arenito Formation, which have low fertility and relatively high susceptibility to water erosion.

The association of these soil classes with the greater slope of the relief in the lower portions of the valleys creates conditions of greater risk of erosion and the consequent silting of watercourses observed around the Program.

Guidelines for Sustainable Rural Development

**1 _ Promote the recovery and conservation of forest areas
permanent preservation in springs and streams
in spring basins**

**2 _ Identify potential, existing opportunities.
To negotiate a “conservation pact”
Ex.: Support for the creation of private Natural Reserves.
compensatory; extensive livestock and pasture
management
native species (fire), as well as support for Agroecology.**

Mitigate environmental impacts of current production systems

1 _ Soil conservation and management program on rural properties in priority areas and landscapes, including road adaptation;

2 _ Encourage (Program) integrated management of pests, soil diseases and weeds (reduce the use of Pesticides) • Promote Environmental regularization, Create Permanent Preservation Areas and Legal Reserve

3 _ Limit the expansion of Reforestation in the Environmental Protection Area and control spontaneous spread.

15 PROTEGER A VIDA TERRESTRE



Proteger, recuperar e promover o uso sustentável dos ecossistemas terrestres, gerir de forma sustentável as florestas, combater a desertificação, deter e reverter a degradação da terra e deter a perda de biodiversidade.

Example of property without micro basins, Contours



Example of mechanized sugar cane harvesting, after harvesting, the straw was burned and not incorporated into the soil.



**RESULT OF
CONTROLLED
BURNING**



RESULT OF CONTROLLED BURNING



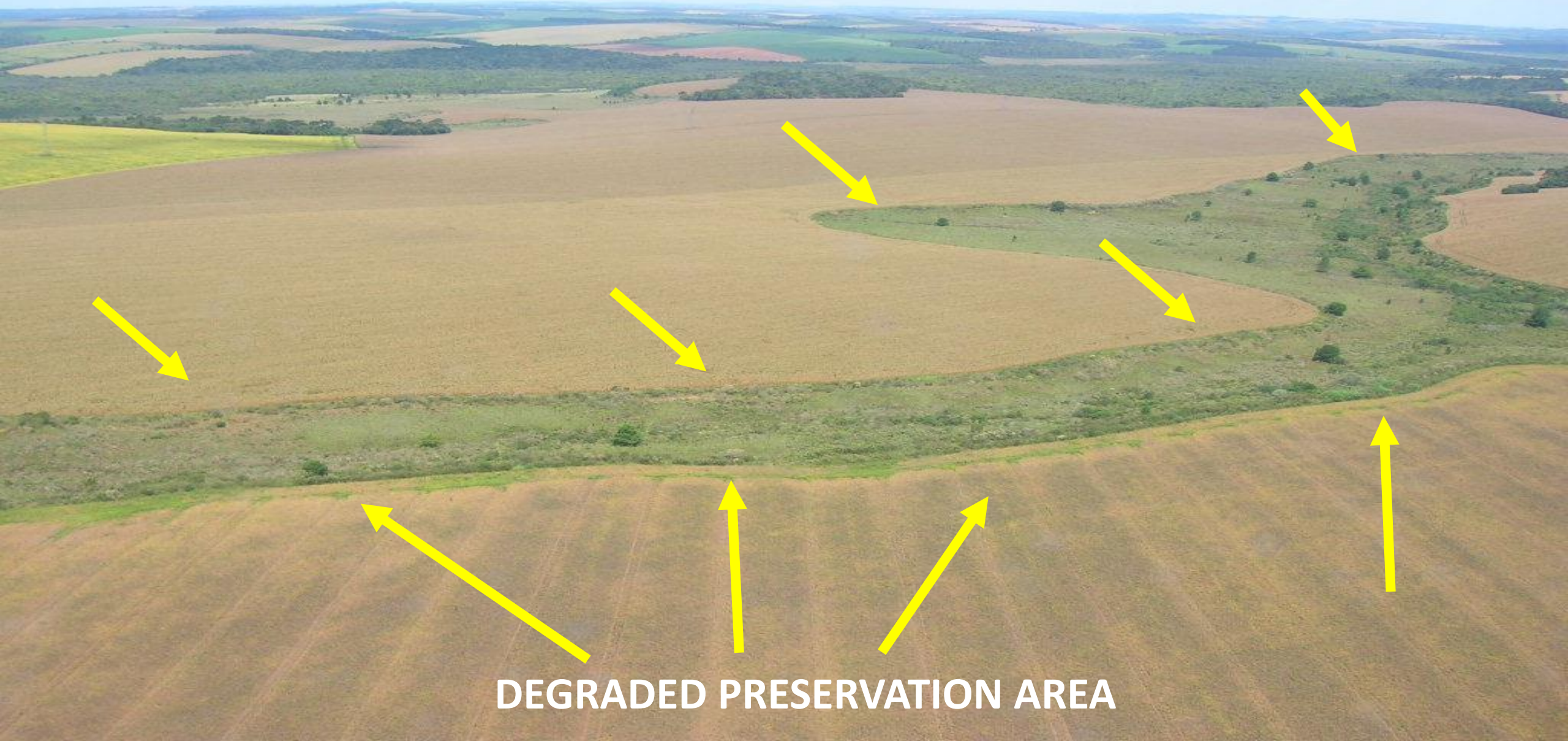
RESULT OF CONTROLLED BURNING



RESULT OF CONTROLLED BURNING



Example of property, without contour lines and without restoration and fencing of a Permanent Preservation Area.



DEGRADED PRESERVATION AREA

WITHOUT FORESTS ON THE BANKS OF RIVERS, THE CONSEQUENCES IS TRASH AND EROSION OF FERTILE SOIL



THE FORESTS PROTECT THE RIVER



FORESTS ON THE BANKS OF RIVERS MUST BE AT LEAST 30 METERS ON EACH BANK

CONVENTIONAL PLANTING



CONVENTIONAL PLANTING



EXAMPLE OF DEGRADED PASTURE



RESULT OF LACK OF MICRO BASINS AND TERRACES



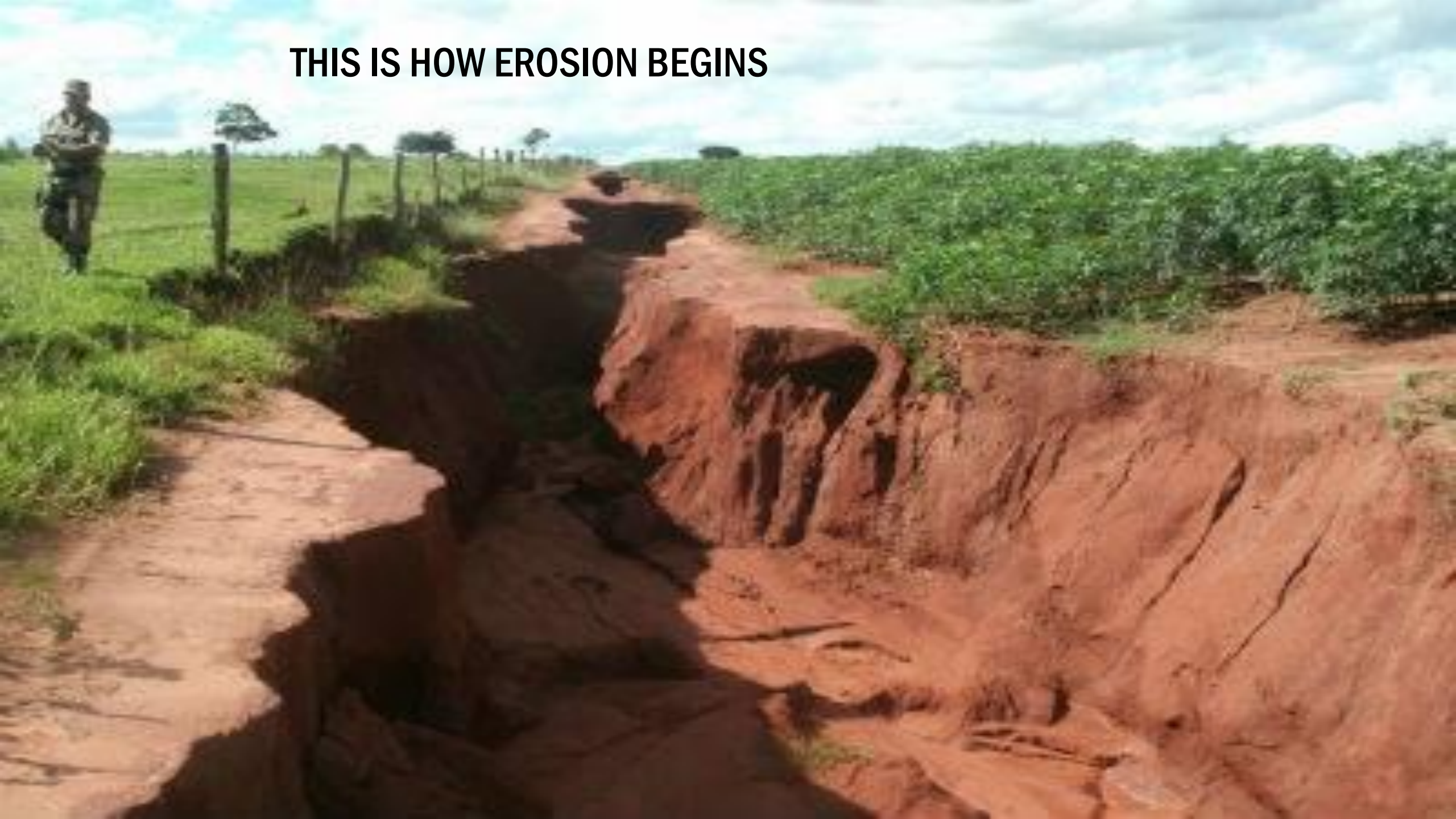
**Final result of neglect or lack of knowledge
Great loss of quality soil, and a lot of erosion...**





DISREGARD FOR THE SOIL ALSO HAPPENS IN URBAN AREAS

THIS IS HOW EROSION BEGINS



**THE RESULT IS THE SILTING OF RIVERS AND LAKES,
COMPROMISING THE QUALITY OF WATER AND ITS VOLUME**



THE LOSS OF FERTILE SOIL TAKEN BY THE RAINS IS GIANT

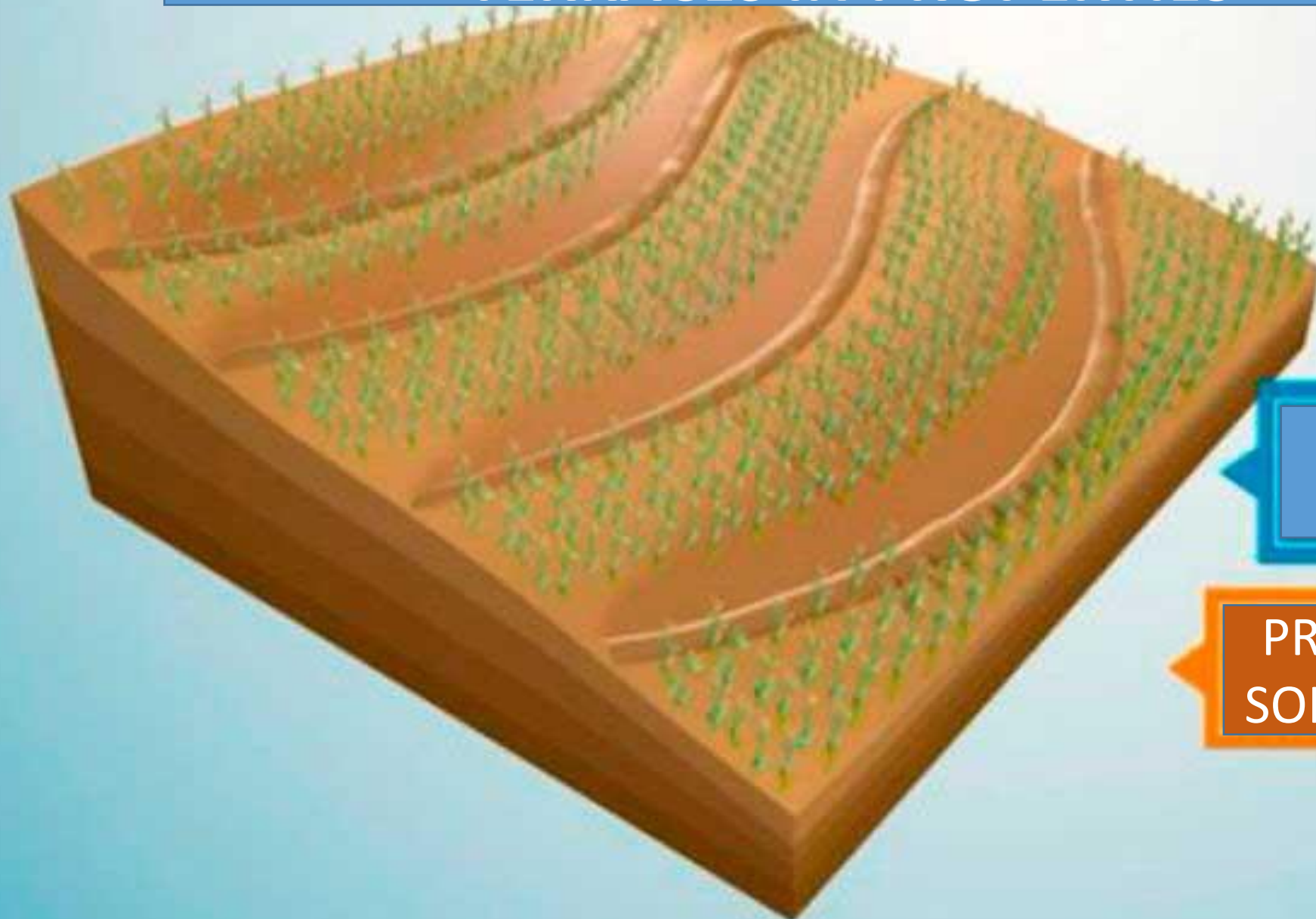


HOW WE SOLVE PROBLEMS

**THE GREAT LOSS OF FERTILE SOIL AND
THE**

**DESILATION OF RIVERS, STREAMS AND
LAKES IN BRAZIL.**

WE IMPLEMENT LEVEL CURVES AND TERRACES IN PROPERTIES



**PREVENTS
EROSION**

**RETAINS RAIN
WATER**

**PRESERVES FERTILE
SOIL ON PROPERTIES**

MAKING TERRACE, STANDARDIZING LEVEL CURVES, CREATING MICRO BASINS



MAKING TERRACE, STANDARDIZING LEVEL CURVES, CREATING MICRO BASINS



MAKING TERRACE, STANDARDIZING LEVEL CURVES, CREATING MICRO BASINS



MAKING TERRACE, STANDARDIZING LEVEL CURVES, CREATING MICRO BASINS



MAKING TERRACE, STANDARDIZING LEVEL CURVES, CREATING MICRO BASINS



POSITIVE RESULT WITH EVERY RAIN, ALL THE WATER STAYS ON THE PROPERTIES, THUS CHARGING THE WATER TABLE AND PRESERVING THE FERTILE SOIL ON THE PROPERTIES



**HOW IS THE PARTNERSHIP
WITH MUNICIPAL
GOVERNMENTS
EXECUTED?**

IN DIRECT PARTNERSHIP WITH CITY HALLS AND OWNERS



BEFORE



AFTER

SURVEY AT THE LEVEL OF RURAL ROADS, STARTING THE CONFECTION OF CONVEYOR CURVES ON EACH SIDE



BEFORE



AFTER



BEFORE



AFTER

CURVES ON THE RIGHT AND LEFT SIDE OF THE ROAD, IN PARTNERSHIP WITH THE OWNERS.



AFTER

THE IMPORTANCE OF PARTNERSHIPS BETWEEN RURAL OWNERS, PUBLIC PROSECUTION OFFICE, AUTHORITY AND CITY HALLS SO THAT PROGRAM ACTIONS TAKE PLACE WITH TRANSPARENCY AND RESPONSIBILITY



THE GOOD WATER CORRIDORS PROGRAM PROTECTS FOREST SOIL AND SPRINGS AND RIVERS



OUR COMMITMENT TO SHIELDING RIVERS HAS PROVIDED WATER CATCHING COMPANIES WITH MORE THAN 70% SAVINGS ON CHEMICAL INPUTS AND ELECTRIC POWER



DEPOIS DO SERVIÇO CONCLUÍDO, O CASCALHAMENTO NA ESTRADA, PARA FACILITAR A LOCOMOÇÃO E GARANTIR O TRABALHO, SEGURANDO A ÁGUA DAS CHUVAS, NAS PROPRIEDADES.



ANTES



DEPOIS



PARTNERSHIPS WITH SOCIAL AND ENVIRONMENTAL RESPONSIBILITY

13 AÇÃO CLIMÁTICA

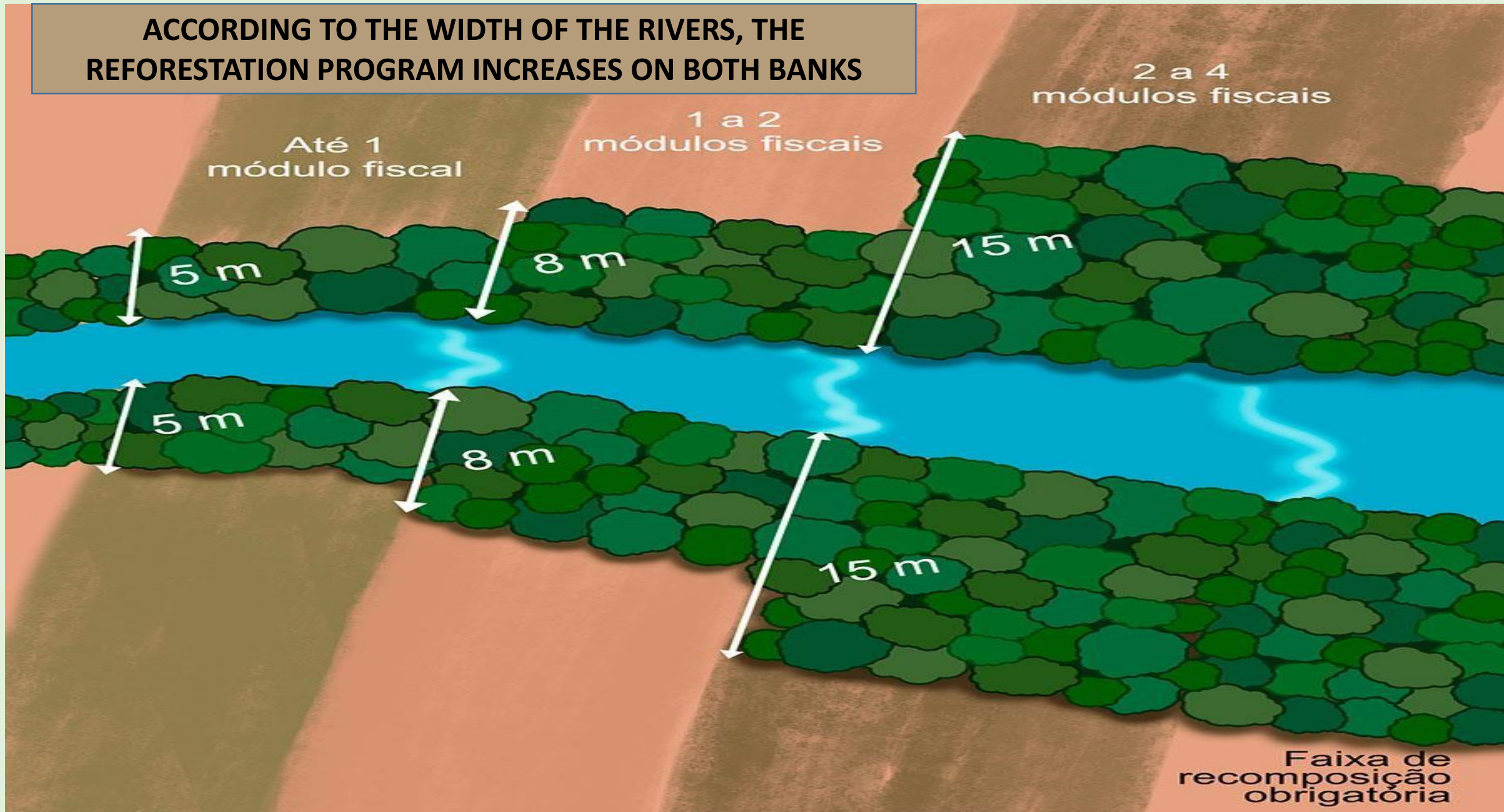


Combating Climate Change.

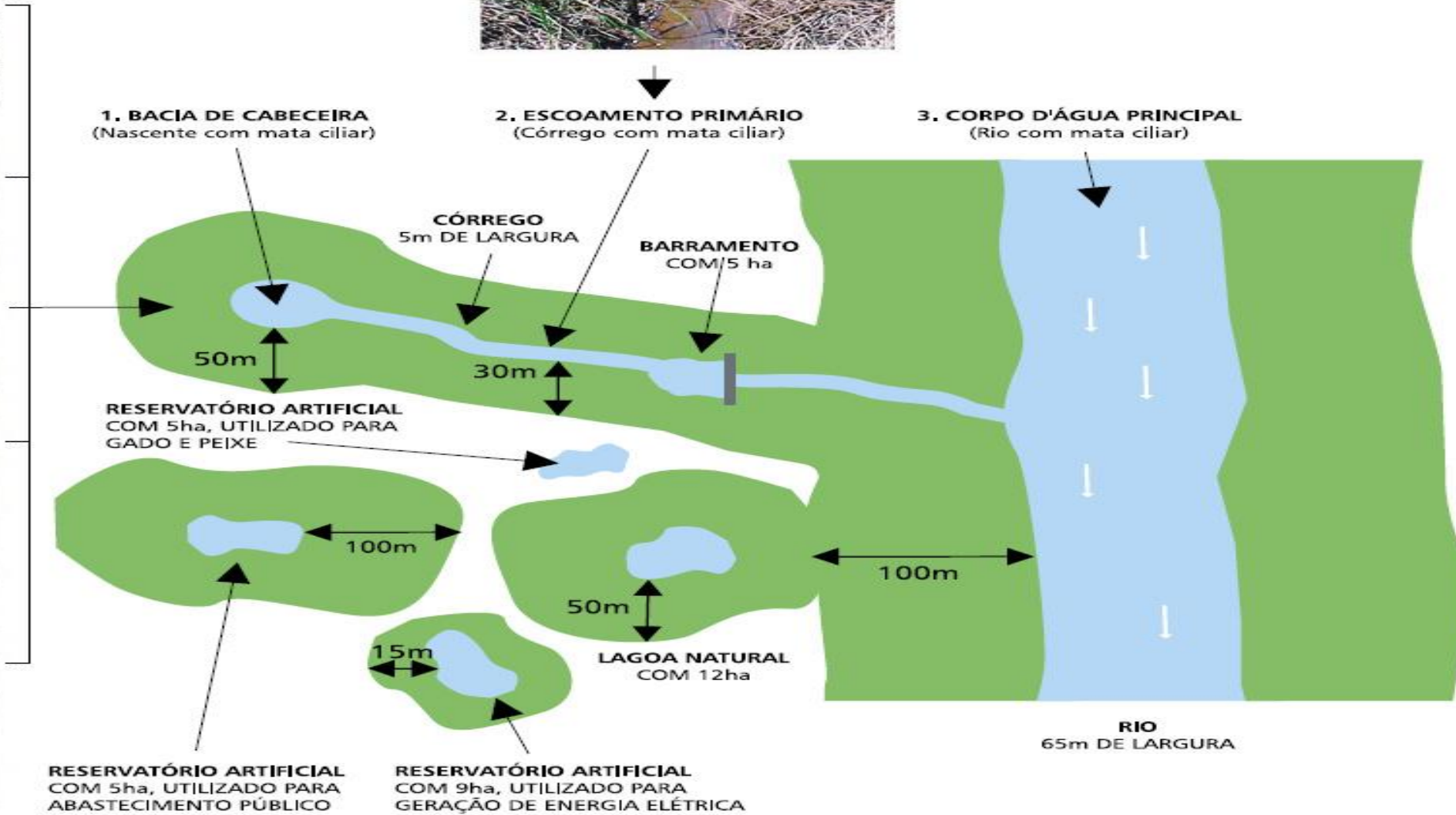
Improve education, increase awareness and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

WE ENCOURAGE THE CONSERVATION AND CREATION OF PERMANENT PRESERVATION AREAS APP

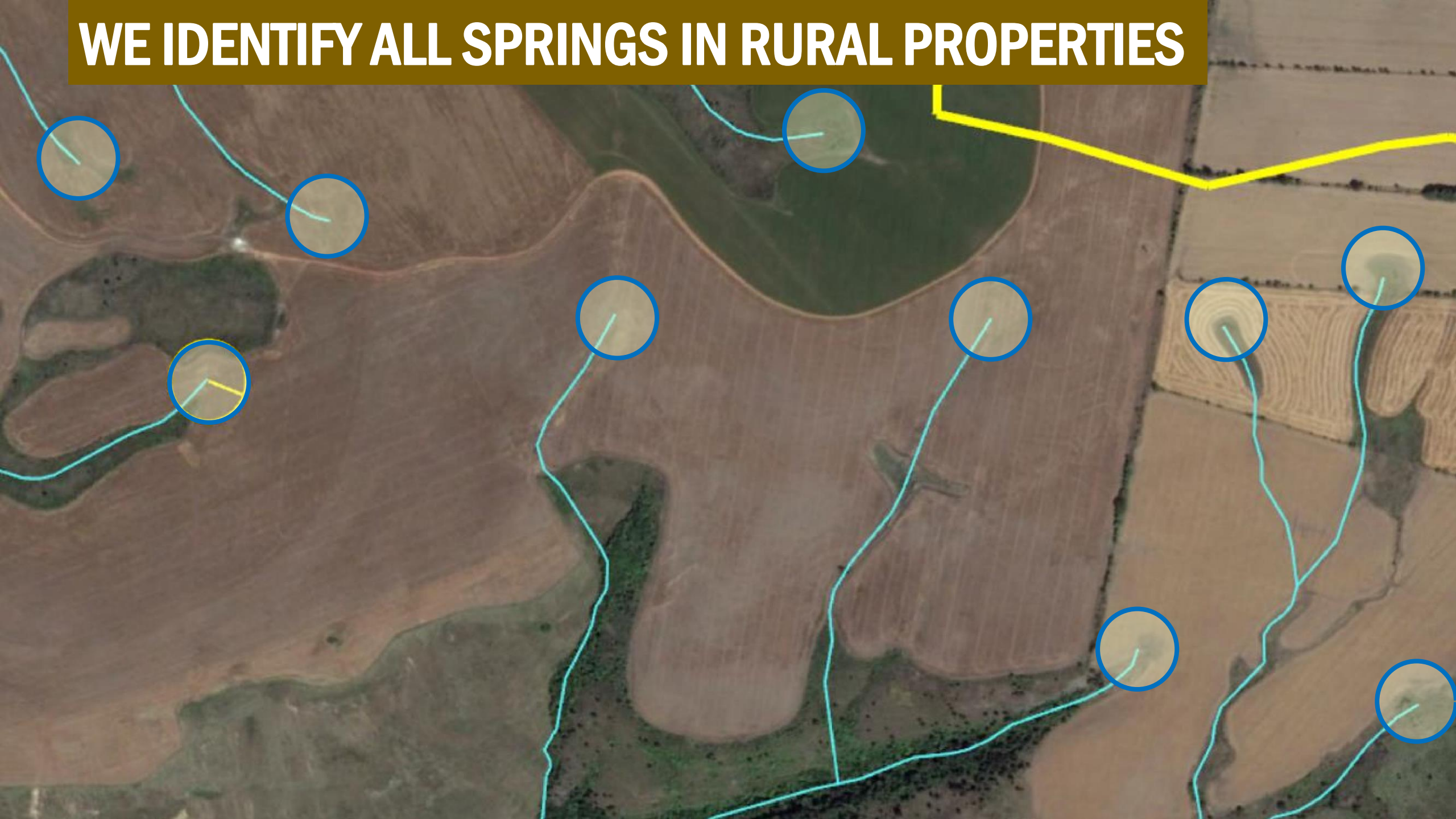
ACCORDING TO THE WIDTH OF THE RIVERS, THE REFORESTATION PROGRAM INCREASES ON BOTH BANKS



SPRING RECOVERY PROJECT



WE IDENTIFY ALL SPRINGS IN RURAL PROPERTIES





WE REVITALIZE EACH SPRING, ONE BY ONE

THE RESULT IS WATER WITH ABUNDANCE AND QUALITY





WE HAVE ALREADY REVITALIZED MORE THAN 2,800 SPRINGS IN BRAZIL

A photograph of a small stream flowing over a concrete structure into a rocky pool. The water is clear and appears to be cascading over the concrete. The surrounding area is lush with green vegetation, including various leafy plants and ferns. In the background, a thermometer is visible, showing a temperature of approximately 50 degrees Celsius. The text "PLACES WHERE THEY WERE DRY, THE WATER RETURNED WITH LARGE VOLUME AND QUALITY" is overlaid on the image in white, bold, uppercase letters.

**PLACES WHERE THEY WERE DRY, THE WATER RETURNED WITH
LARGE VOLUME AND QUALITY**

**THEN WE MEASURE THE WATER FLOW PRODUCED WITHIN THE PROPERTY,
TO REMUNERATE THE OWNER FOR PAYMENT FOR ENVIRONMENTAL SERVICES**



OUR WATER FACTORY



We identify areas on the properties to restore riverbanks measuring 30 and 50 meters



A man with a beard and mustache, wearing a dark short-sleeved shirt and blue jeans, stands in a large greenhouse. He is holding two small tree seedlings in black plastic pots. The greenhouse is filled with rows of similar seedlings in black trays, arranged in long aisles. The structure of the greenhouse is made of metal frames and translucent panels. The lighting is bright, suggesting a sunny day.

**IN 12 YEARS WE HAVE ALREADY PLANTED MORE
THAN 2,300,000 MILLION TREE SEEDLINGS**

We encourage partnerships to create nurseries for seedlings native to the local biome.



One of the objectives of the forest nursery, a project of biodiversity corridors in Brazilian biomes, guaranteeing quality genetic seed seedlings.





WITH BIODIVERSITY CORRIDORS, FAUNA RETURNS





WITH BIODIVERSITY CORRIDORS, FAUNA RETURNS





WITH BIODIVERSITY CORRIDORS, FAUNA RETURNS



**WE HAVE CARRIED OUT MORE
THAN 1400 FOREST PLANTATIONS
AROUND SPRINGS**



We help train professionals and citizens aware of conservation and preservation





We help train professionals and citizens aware of conservation and preservation

We promote environmental regularization

Limit the expansion of reforestation of exotic trees, such as pine and Australian eucalyptus in the Environmental Protection Area and control spontaneous spread



2 FOME ZERO E AGRICULTURA SUSTENTÁVEL



Zero Hunger and Sustainable Agriculture

End hunger, achieve food security and improved nutrition, and promote sustainable agriculture

ENCOURAGES RURAL PRODUCERS TO ADOPT AGROECOLOGY PRACTICES.

FOSTER RURAL TOURISM

CREATION OF PRIVATE NATURAL RESERVES AND MANAGEMENT SUPPORT, TO ACCREDITATE WITH STATE AGENCIES TO RECEIVE PAYMENTS FOR ENVIRONMENTAL SERVICES.



WE CREATE AGROECOLOGY PROJECTS



WE CREATE AGROECOLOGY PROJECTS

WE CREATE AGROECOLOGY PROJECTS





WE CREATED THE URBAN GARDEN PROJECT THAT ALREADY FEED MORE THAN 1,500,000 MILLION PEOPLE





PROVIDING INCOME TO OWNERS AND PRODUCT QUALITY TO CONSUMERS



PROVIDING INCOME TO OWNERS AND PRODUCT QUALITY TO CONSUMERS



WE ALSO CREATED THE RURAL TOURISM PROGRAM, TO IMPROVE THE QUALITY OF LIFE OF OWNERS AND VISITORS





**THESE ACTIONS
GUARANTEE
ENVIRONMENTAL AND
SOCIO-ENVIRONMENTAL
SUSTAINABILITY**



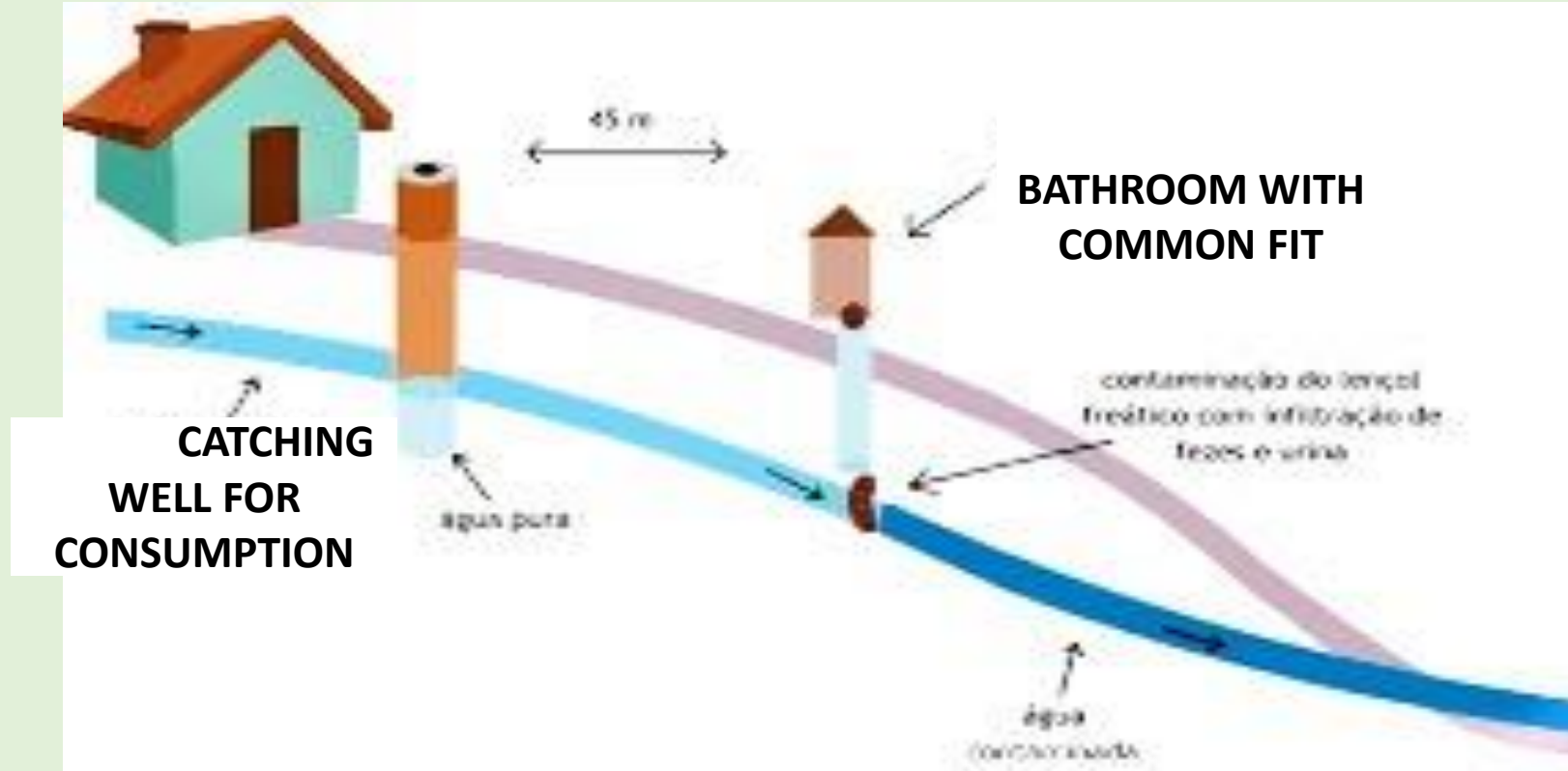
6

ÁGUA POTÁVEL
E SANEAMENTO



**Ensure the
availability and
sustainable
management of
water and sanitation
for everyone.**

TODAY IN RURAL AREAS, CONTAMINATION OF CONSUMPTION WATER IS VERY COMMON BECAUSE IT IS CLOSE TO ITS CATCH FROM THE SEWAGE DISCHARGE FIT

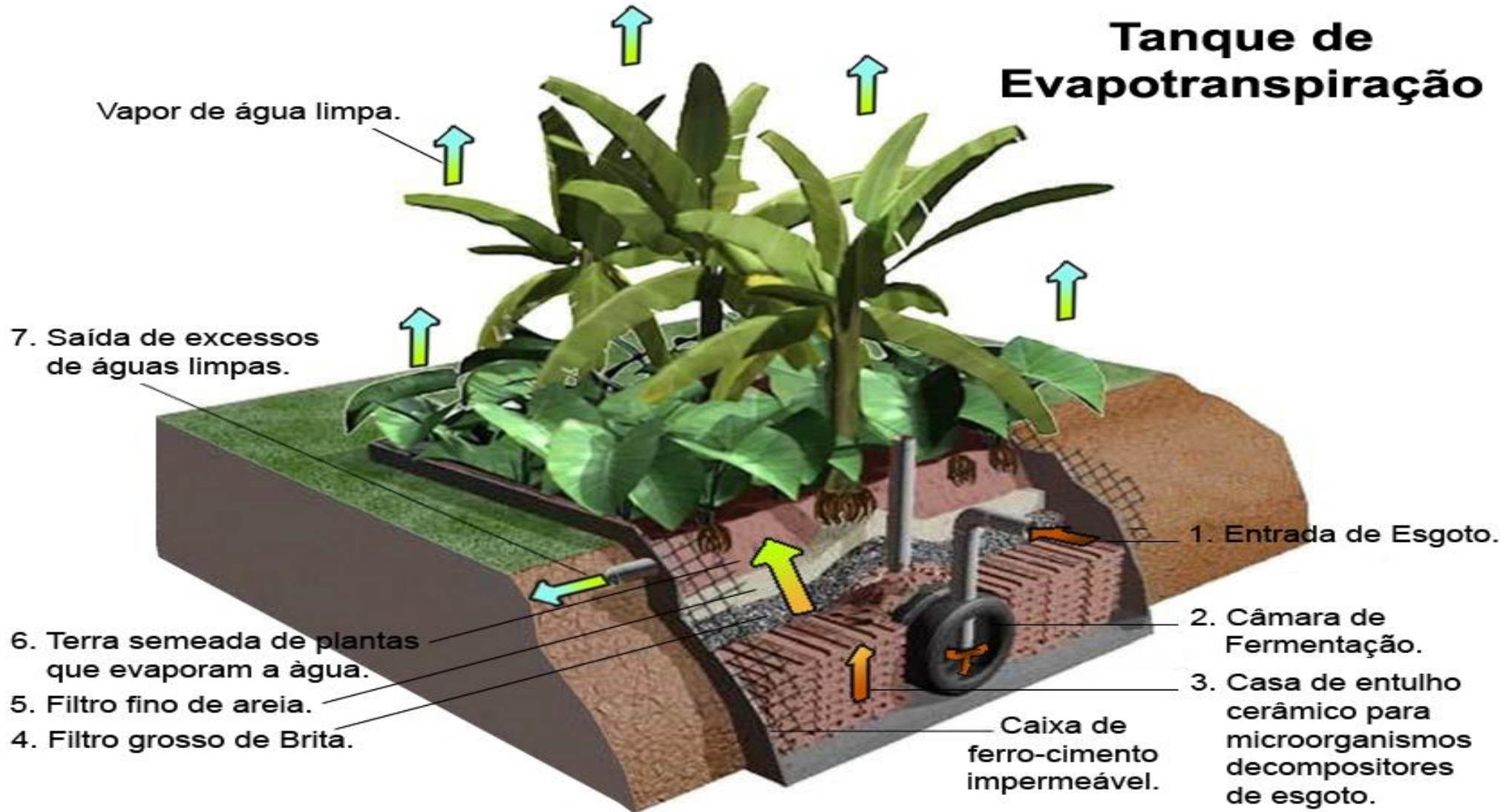




PROJECT TO NOT CONTAMINATE THE SOIL

EACH PROPERTY PROVIDED WILL RECEIVE A FREE ECOLOGICAL FOOT WITH TIRES

Tanque de Evapotranspiração





ECOLOGICAL FOSS



ECOLOGICAL FOSS



ECOLOGICAL FOSS



**EACH PROPERTY ON THE RIGHT AND LEFT BANK
WILL RECEIVE AN ECOLOGICAL FIT**



Legenda:

- 1 - José Lisboa
- 2 - Sérgio Martins
- 3 - Roberto Viana
- 4 - Antonio Viana
- 5 - Orides Gimenez
- 6 - Alcides Gimenez
- 7 - Paulo Especian
- 8 - Avelino Lima
- 9 - Cida Lima
- 10 - Alir Tramontina
- 11 - Tiriri
- 12 - Brumate
- 13 - Tinte
- 14 - Henrique Campos
- 15 - Alcides Tavares
- 16 - Aldoneis
- 17 - Branco Especian
- 18 - Nivaldo Liane
- 19 - Deco Especian
- 20 - Sérgio Especian
- 21 - Assis Fiori
- 22 - Branco Especian
- 23 - Anildo aparecido de Lima
- 24 - Leandro (Agropecuária Ouro Verde)
- 25 - José Lisboa
- 26 - Rudinei Carlos Kraus
- 27 - José Lisboa
- 28 - Oseias
- 29 - Cícero Barros Sabino




THIS IS HOW WE FOSTER CARE FOR THE PRESERVATION AND PROTECTION OF THE SOIL, SPRINGS, FORESTS, THE BIODIVERSITY OF FAUNA AND FLORA AND MAINLY PEOPLE AND THE QUALITY OF LIFE AS A WHOLE.

Contact:

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SITE <https://nascentes-do-rio-acungui.ueniweb.com/>

SITE <https://carbono-zero.ueniweb.com/>

