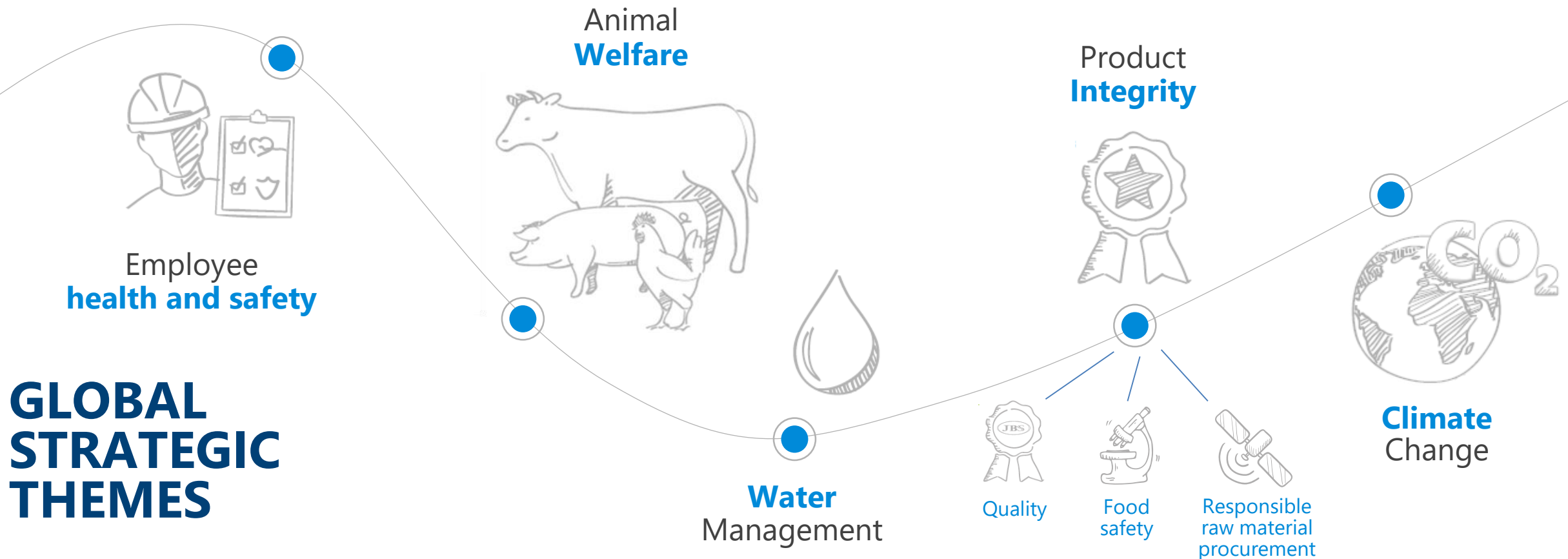




SUSTAINABILITY

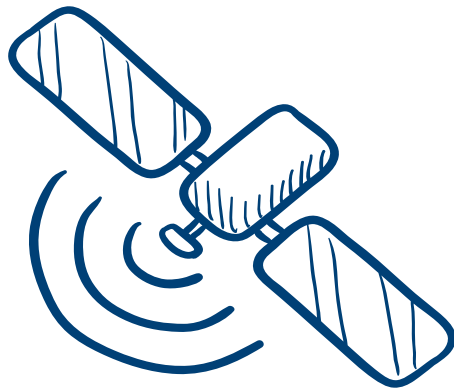
# AND HOW DO WE MANAGE **SUSTAINABILITY?**

For JBS sustainability is:





# RESPONSIBLE RAW MATERIAL **PROCUREMENT**



All of suppliers are selected using **social and environmental criteria**

**JBS does not purchase raw materials from farms that:**

are involved with **deforestation** in the **Amazon biome after 2009**

face property's **environmental embargoes**

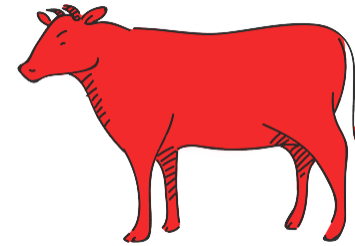
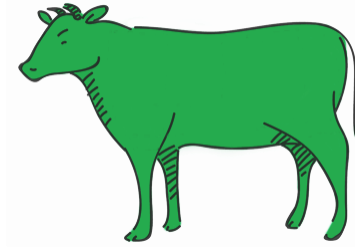
are linked to any kind of **forced labour**

are located on **indigenous land** or in **environmental conservation areas**

## How do we guarantee responsible raw material sourcing?

JBS developed a modern **social and environmental monitoring system** that uses:

satellite imagery, geo-referenced farm data and information from government agencies to **analyse in daily-basis over 90,000 cattle suppliers in Brazil**



## OBJECTIVE

**Identify and block suppliers** that are not in compliance with the company's social and environmental criteria



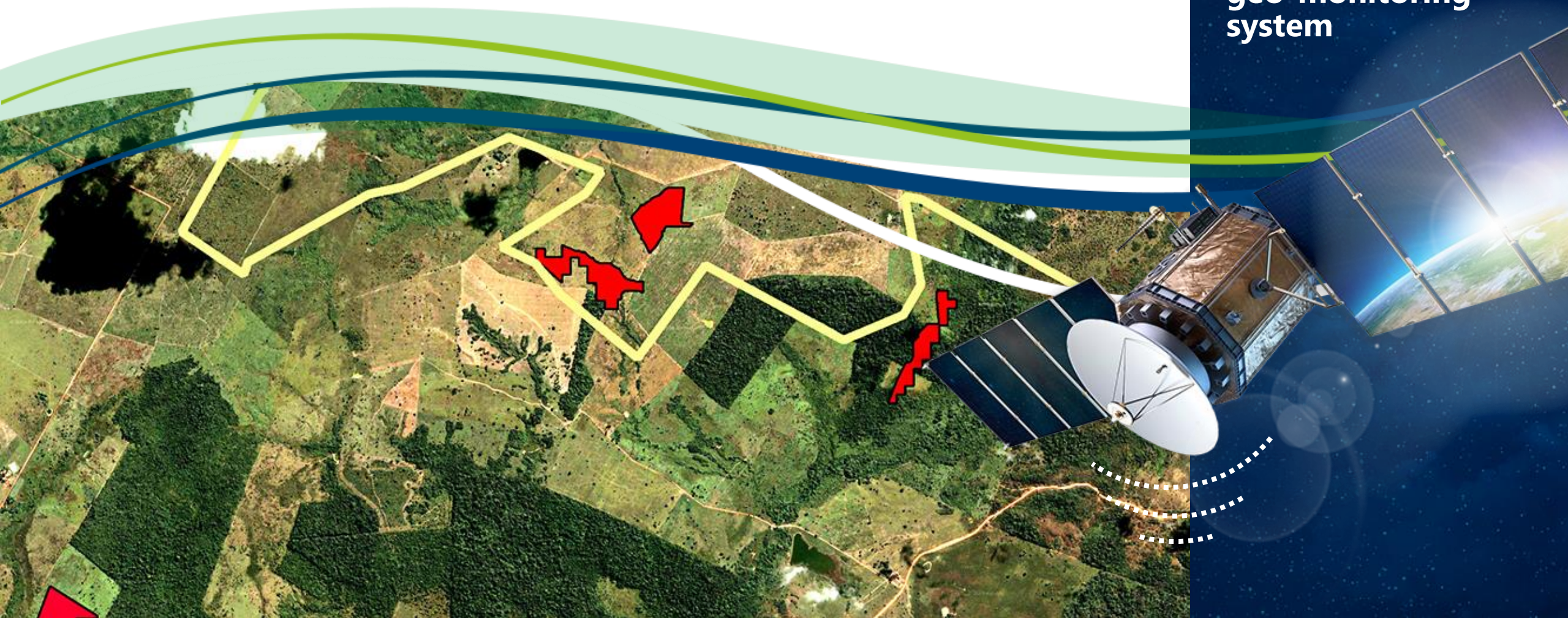
# SUSTAINABLE SOURCING

**Satellite  
imagery**  
analysis  
of farms

**50,000 cattle  
suppliers** analyzed  
**daily** in the **Amazon  
region**

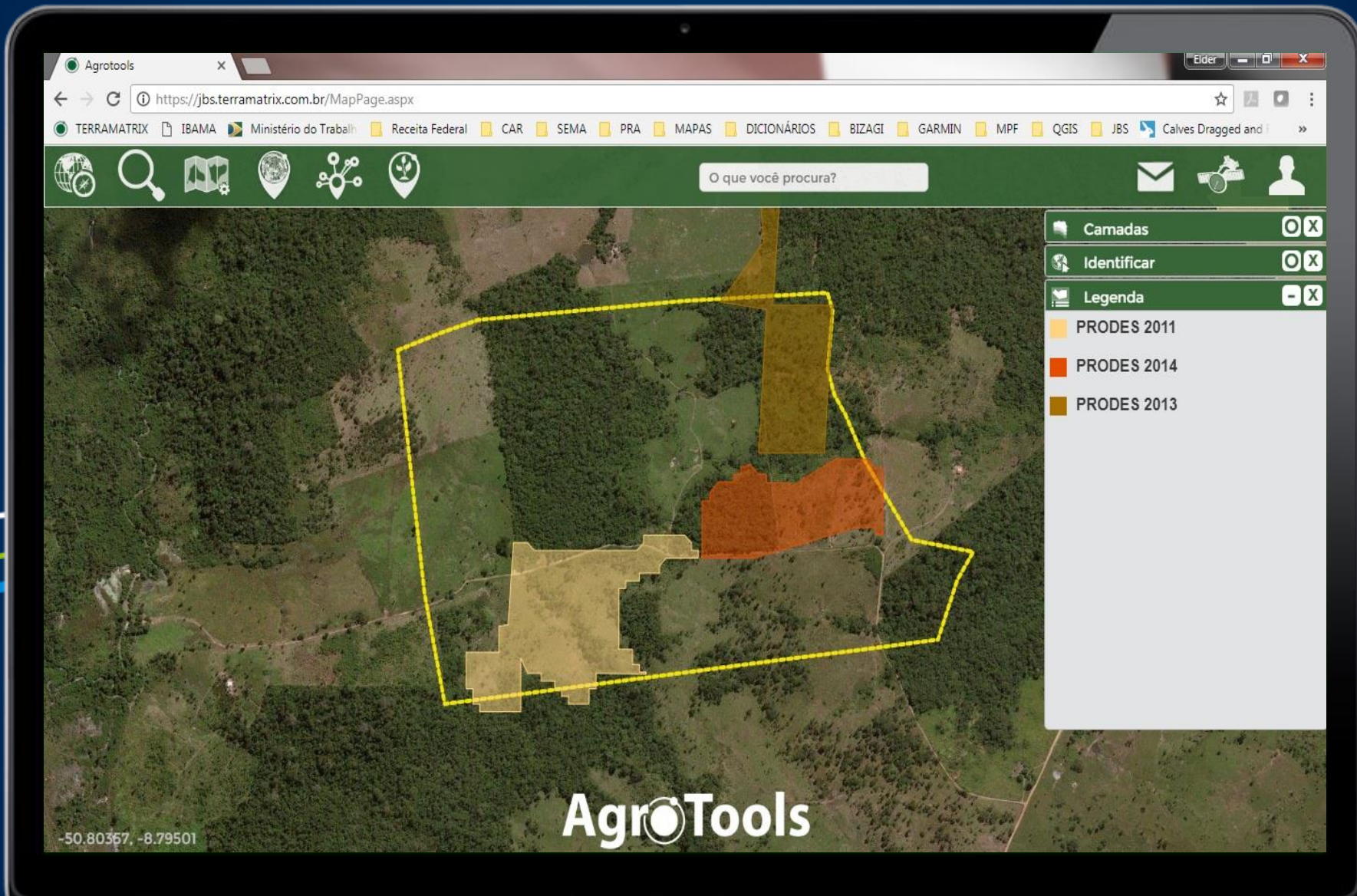
**JBS** monitors around  
**450,000 km<sup>2</sup>**  
(111 million acres)  
in over **400 municipal  
regions** in the Amazon

**GLOBAL  
BENCHMARK**  
in the use of  
**geo-monitoring  
system**





**AgrTools**



Agrotools

https://jbs.terramatrix.com.br/MapPage.aspx

TERRAMATRIX IBAMA Ministério do Trabalho Receita Federal CAR SEMA PRA MAPAS DICIONÁRIOS BIZAGI GARMIN MPF QGIS JBS Calves Dragged and



O que você procura?

Camadas [X]

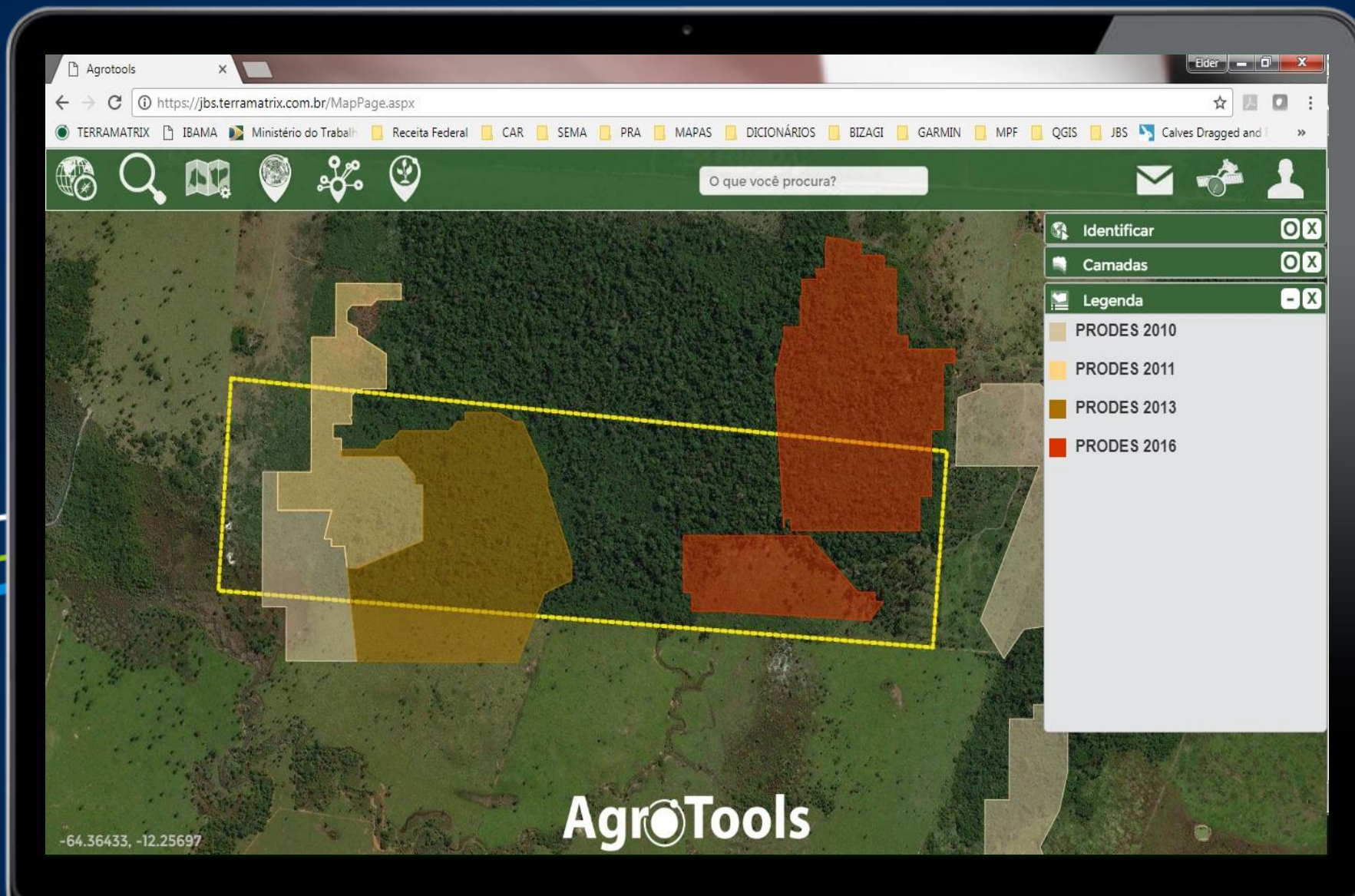
Identificar [X]

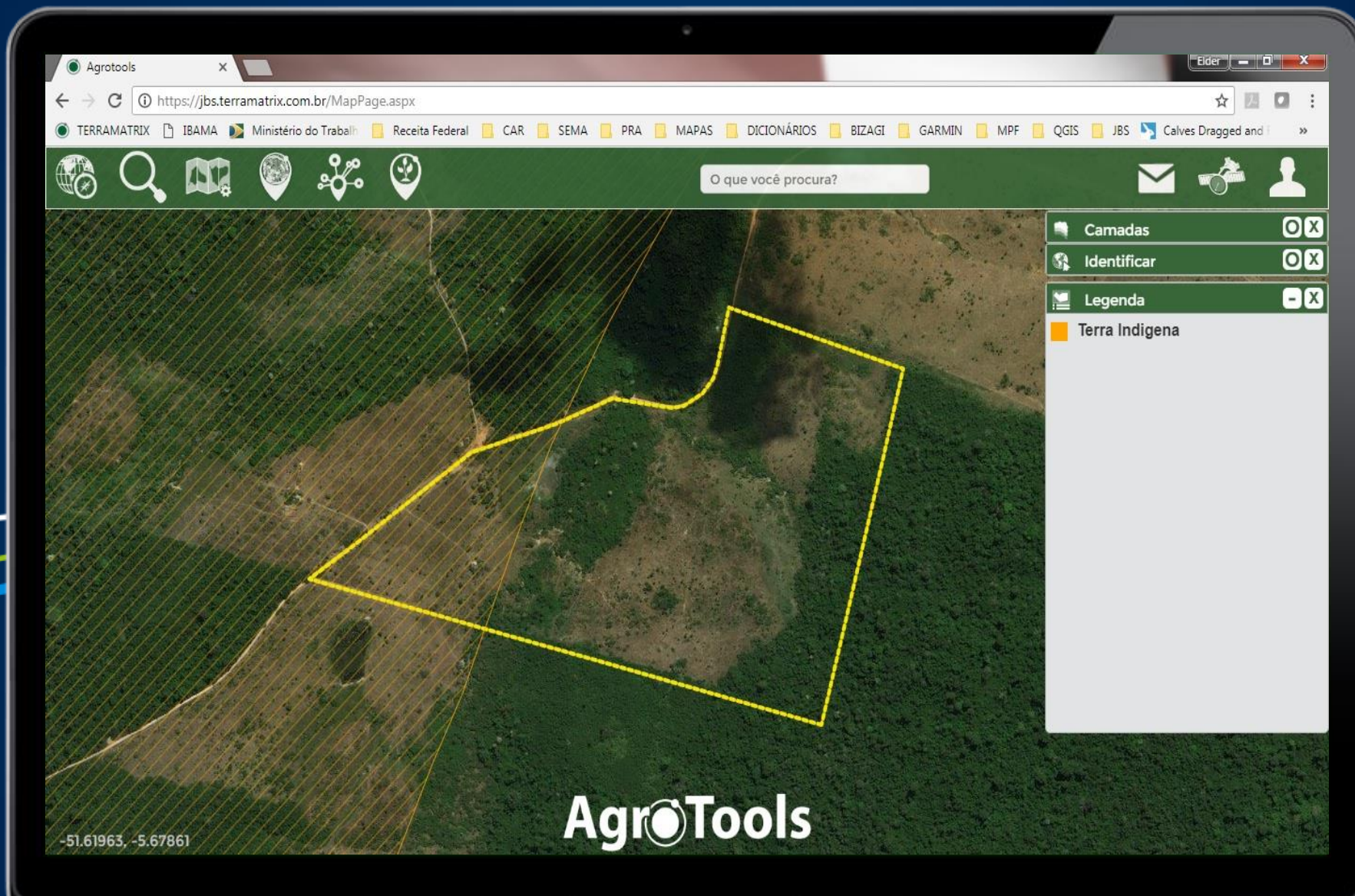
Legenda [X]

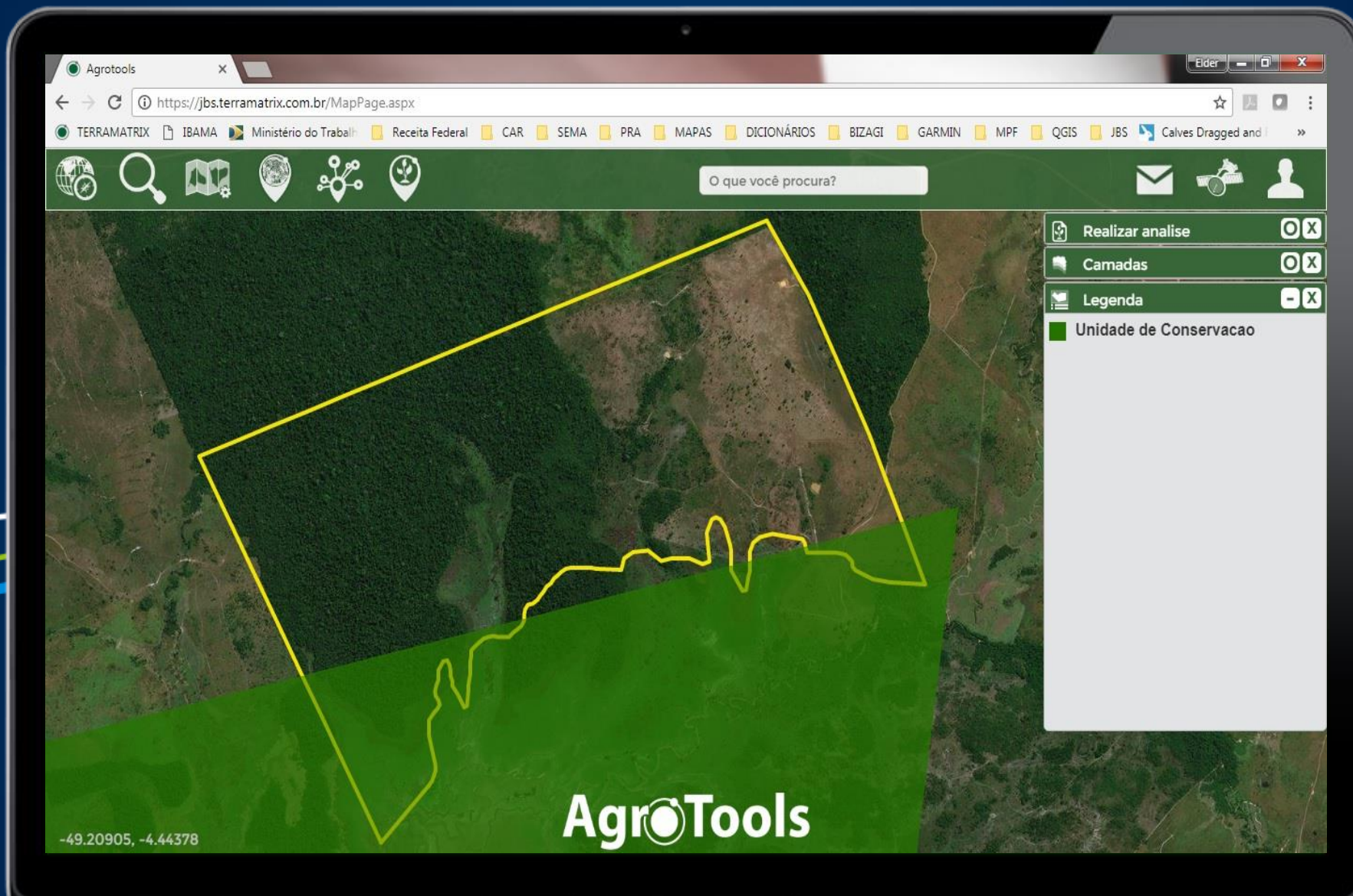
- PRODES 2011
- PRODES 2014
- PRODES 2013

-50.80357, -8.79501

AgroTools







Operação Comercial	12	CG - Compra de Gado	
Divisão Comercial	11	ORIGINACAO	Lançamento 03/06/2016
Empresa	70	JBS S.A. - Pedra Preta	Situação 1-Aberto
Responsável	3.481	IsmaelRech-pdp	Digitador PauloPacheco-pdp

**Compromisso de Compra e Venda**

Compromisso

**Contrato de Fornecimento**

Licitação / Boi a Termo / Curoos

**Pedido Principal**

Pedido Principal

**Boleta**

Nome Terceiro JOSE WILSON MAIA PATEZ

Nome Terceiro de Logística FAZENDA TABOCAO - JOSE WILSON MAIA PATEZ

Modalidade 1 CONVENCIONAL UNIDADE

Preço Termo

**Identificação do Terceiro**

Terceiro 1.956.440 JOSE WILSON MAIA PATEZ

Contato

Pedido Terceiro Pedido Terceiro Compra

Tipo de Terceiro 10 FORNECEDOR DE COMMODITIES Cidade ACAILANDIA MA

Terceiro de Logística 1.956.489 FAZENDA TABOCAO - JOSE WILSON MAIA PATEZ

Tipo de Terceiro de Logística 23 FORNECEDORES - FAZENDA Cidade ACAILANDIA MA

Retiro

**Roteiro**

Roteiro

Corporate

Terceiro de Entrega está Bloqueado por Sustentabilidade/Garantia da Qualidade ou a data de monitoramento não está vigente. O pedido não pode ser gravado.

OK



# TRANSPARENCY AND ACCOUNTABILITY

## Cattle Agreement with **GREENPEACE**

### Independent Audit Results

YEAR	ACCOMPLISHMENT*	SAMPLE (10%)
<b>2013</b>	99,75%	12,135 <small>verified livestock purchasing operations</small>
<b>2014</b>	99,97%	12,221
<b>2015</b>	99,97%	11,166
<b>2016</b>	99,97%	9,198
<b>2017</b>	99,99%	9,968
<b>2018</b>	100%	7.140

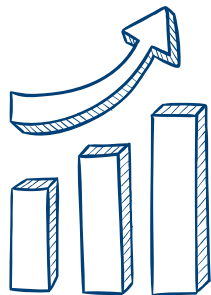
\* % of JBS cattle purchases audited and compliant with the "Cattle Agreement"



# RELATIONSHIP WITH **SUPPLIERS**

JBS vision on the **future** for livestock farming in **Brazil**

**SUSTAINABLE**  
livestock  
farming



**PRODUCTIVITY**  
for Brazilian  
cattle farming



**QUALITY**  
for raw  
materials/cattle



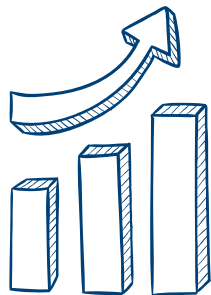
**SUSTAINABILITY**  
for cattle farms



# RELATIONSHIP WITH **SUPPLIERS**

JBS projects to **engage** with cattle suppliers

**SUSTAINABLE**  
**livestock**  
**farming**



**FLAGSHIP**  
**FARMS**  
cattle farming  
best practises



**HIGH**  
**PRODUCTION**  
**FARMS**  
more beef  
per hectare



**SOCIAL LABEL**  
**FARMS**  
smallholders  
producers



# CLIMATE CHANGE

**REDUCING  
GHG EMISSION**

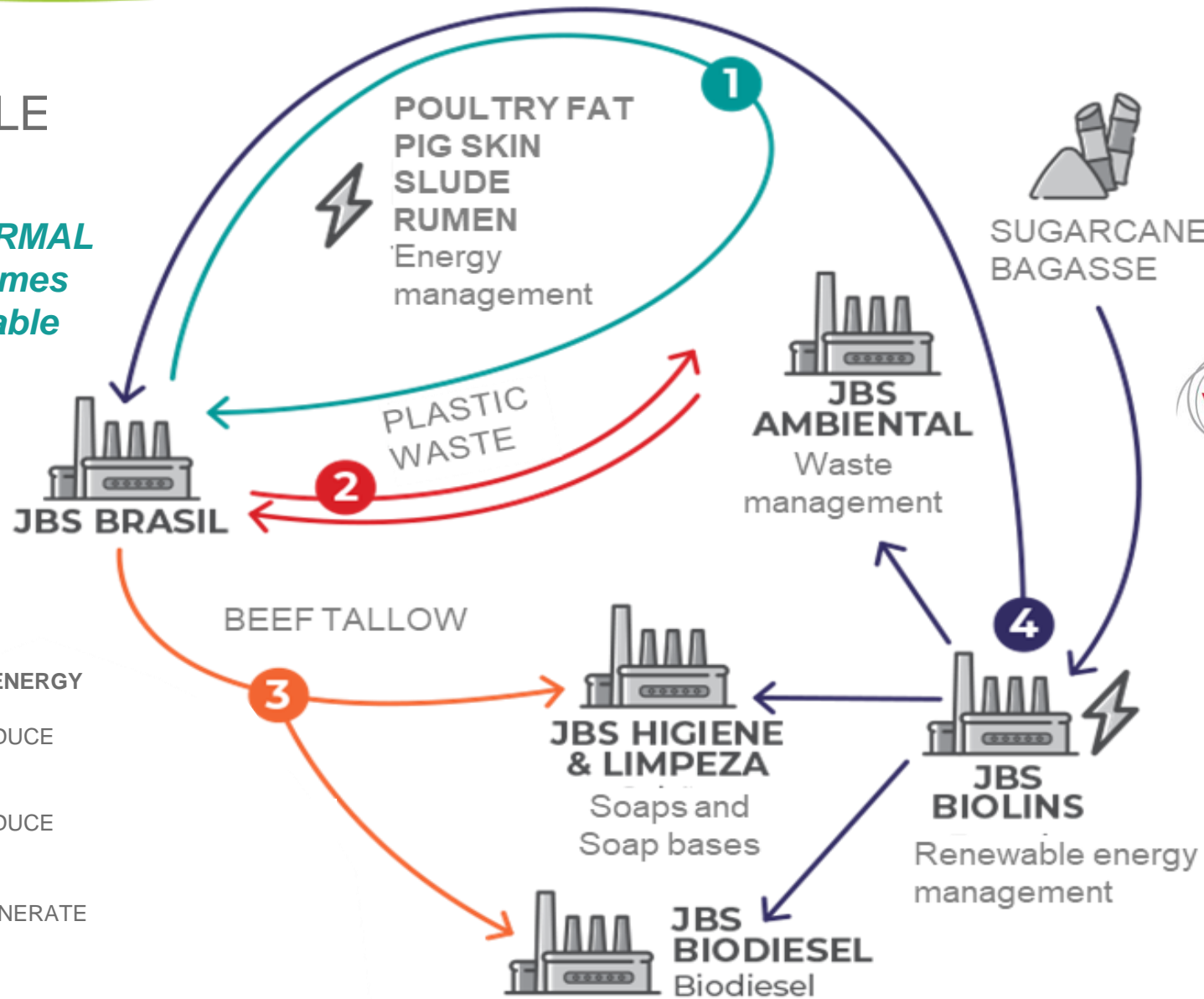
*Energy from renewable sources*

*Waste recycling for energy generation*

# RENEWABLE ENERGY

*88% of THERMAL ENERGY comes from renewable sources*

- 1** REUSING WASTE TO GENERATE THERMAL ENERGY
- 2** USING WASTE TO PRODUCE MATERIALS
- 3** USING WASTE TO PRODUCE NEW PRODUCTS
- 4** USING BIOMASS TO GENERATE ELETRICITY



*The company reused 1.2 MILLION TONS OF WASTE in 2018 for composting, recycling, energy reuse and energy generation*

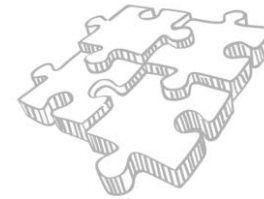
# INFORMATION TRANSPARENCY AND DISCLOSURE



Report on  
**Driving  
Sustainable  
Economies**



Report on  
**Business  
Benchmark on  
Farm Animal  
Welfare**



JBS is a member  
of the **Brazilian  
GHG Protocol**  
Program

Programa Brasileiro  
GHG Protocol



JBS shares are traded on  
the Brazilian Stock Market  
**Efficient Carbon  
Index (ICO2)**



JBS **Annual and  
Sustainability  
Report**





# *JBS*

## ***SUSTAINABILITY***

***Health & Safety***  
*for Employees and*  
***Animal Welfare***

*Concern for the*  
***Environment,***  
***Water, Waste and***  
***Climate Change***

***Initiatives that***  
*increase sustainability*  
*to the entire value chain*

***Quality and***  
***reliable*** product



SUSTAINABILITY