

**Gustavo Herrmann**

CropLife  
BRASIL



**Koppert**

# Constitution

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Since October 2019, CropLife Brasil has brought together, on a single platform, the experience and history of associations that for decades have led discussions on innovation in agriculture.



## PLATFORM INTEGRATION:

CropLife Brasil is the result of the recognition that agricultural systems require much more than the benefits of each technology alone.

## PILLARS OF ACTION



Biotechnology



Chemical pesticides



Germplasm



Biological products



Digital Agriculture



# Associates



# Associates



# Associates



# Global Biological Market Evolution

The global biopesticide market reached the value of **US\$ 5.2 billion** in 2020

Represent 8% of the chemical pesticide market, estimated at **US\$ 62 billion.**



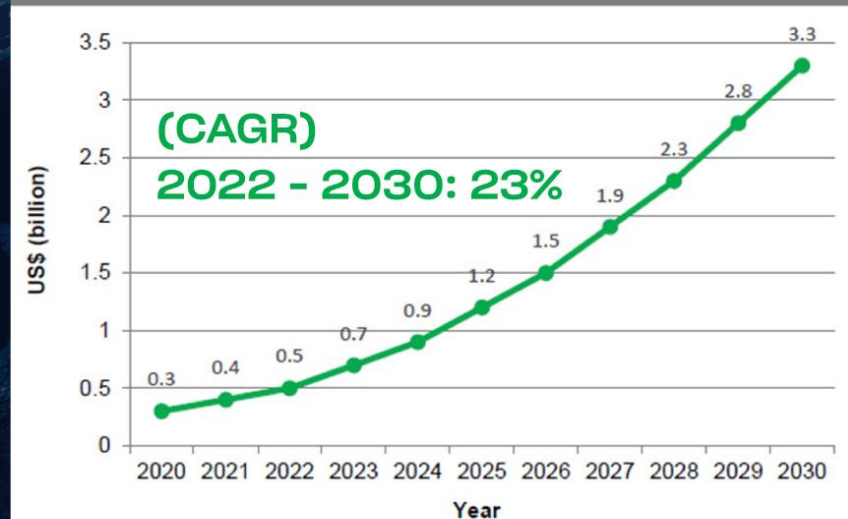
Source: S&P, (2021)

# Biological - Brazil Market Overview

Brazil stands out for the highest market growth rate

CAGR 2018-2022:  
**Global Mkt: 16%**  
**Brazilian Mkt: 62%**

Chart 4: Evolution of the Brazilian Biopesticides Market



(\*) Market value: final consumer (farm gate price)  
(\*\*) Forecast in constant dollar (US\$ = R\$ 5,20)  
Source: IHS Markit

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Source: S&P, 2021 and 2022







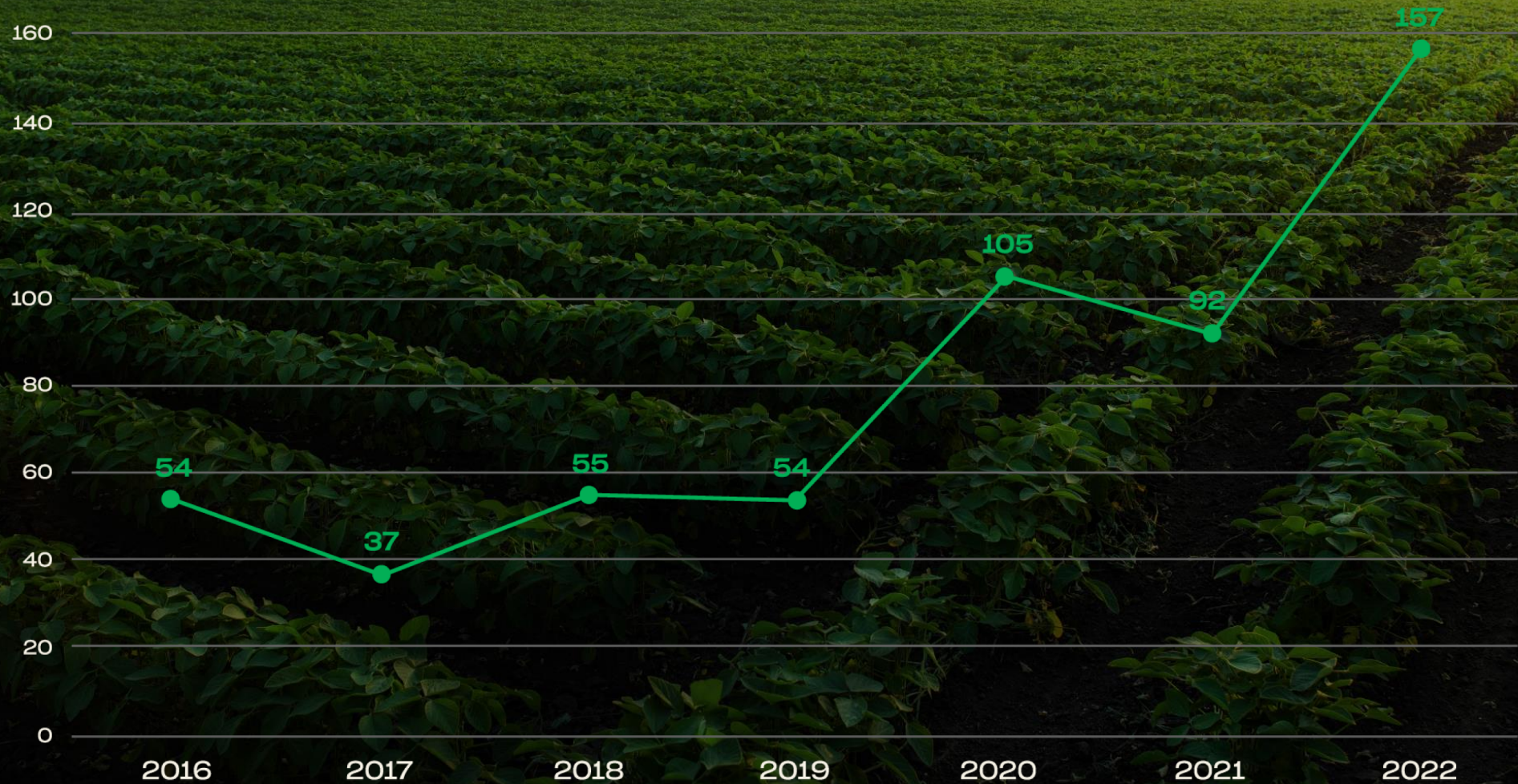
# BRAZILIAN MARKET FOR BIOLOGICAL PRODUCTS



Source: FarmTirak, Kynetec



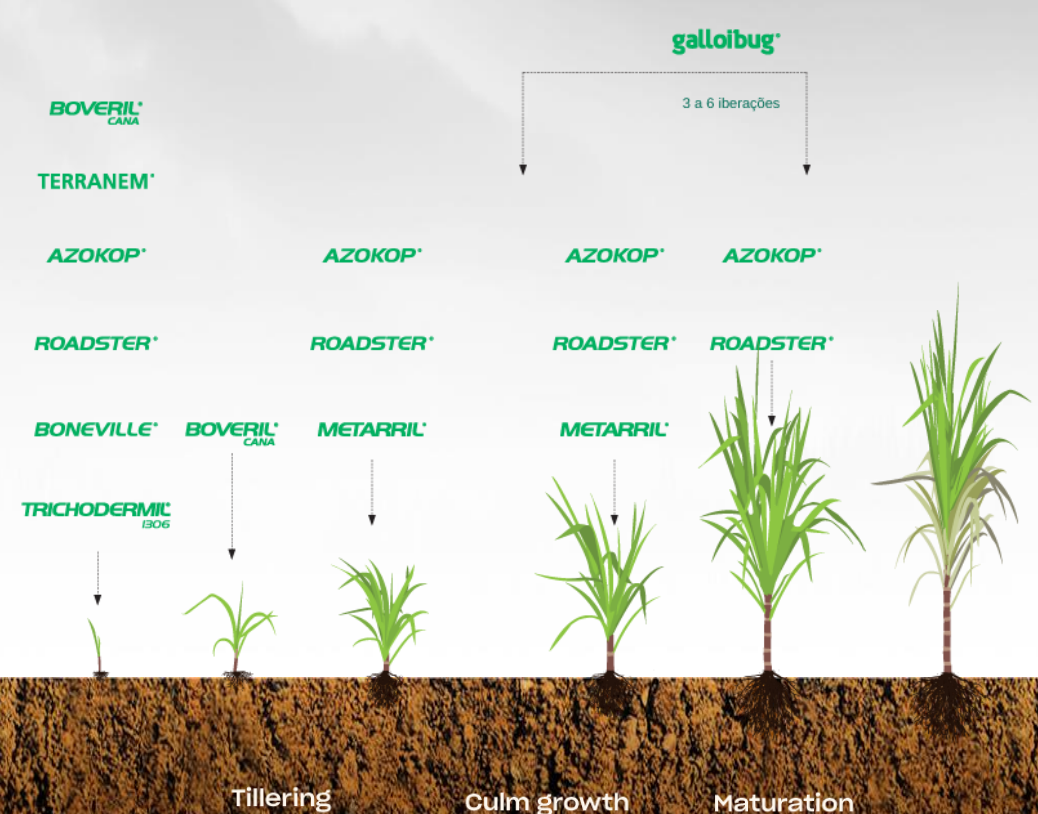
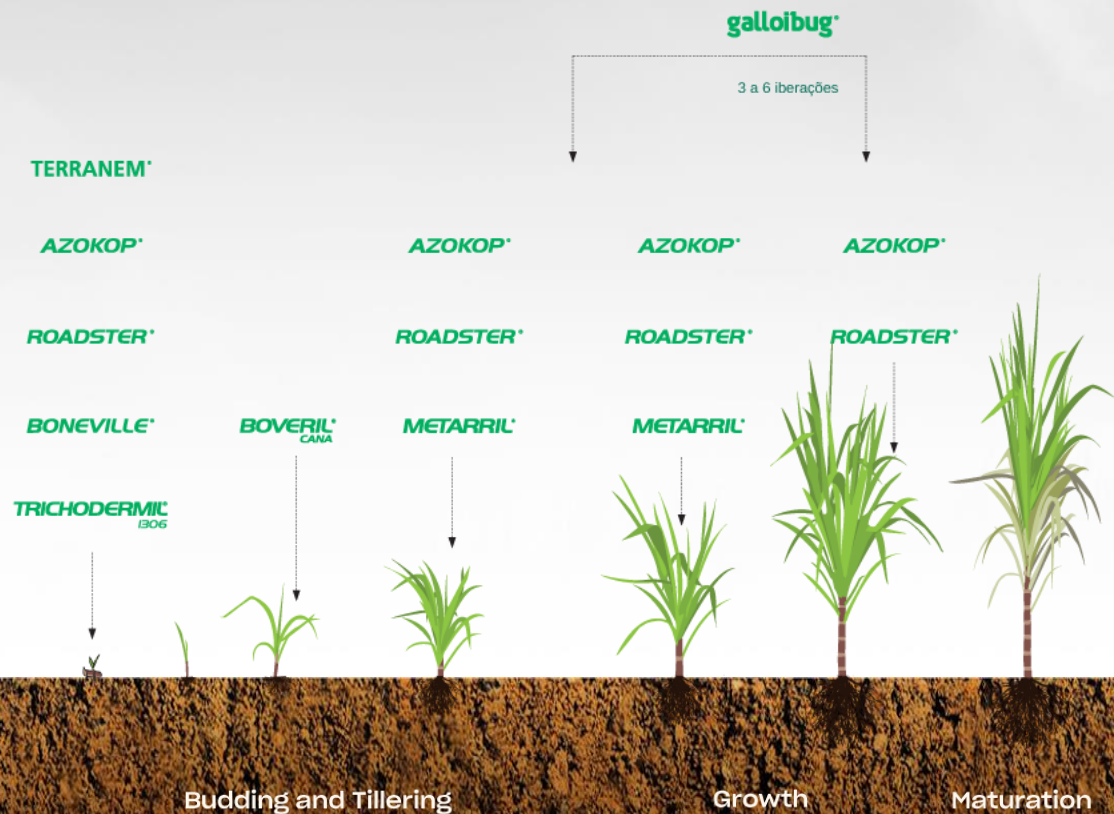
# EVOLUTION OF LOW IMPACT FORMULATED PRODUCTS APPROVED BY ANVISA 2016 - 2022



Source: GGTOX Publication Report

# Koppert Integrated System Sugar Cane Plant

# Koppert Integrated System Sugar Cane Ratoon



Budding and Tillering

Growth

Maturation

Tillering

Culm growth

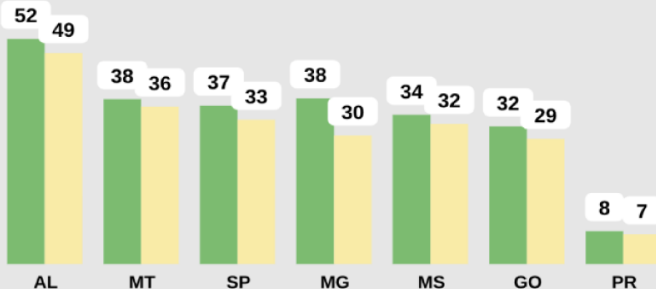
Maturation

# Sugar Cane Results - Average Brazil - 2021/2022 Harvest

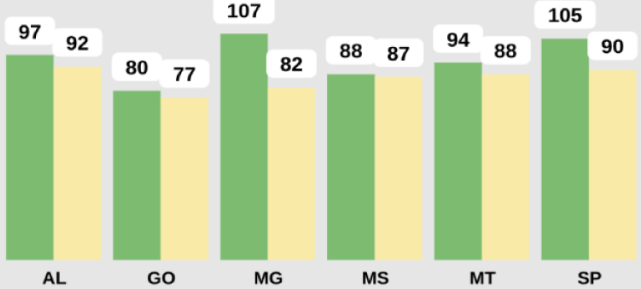
Trichodermil / Boneville VS Soil Fungi and Nematodes

Number of fields: 188

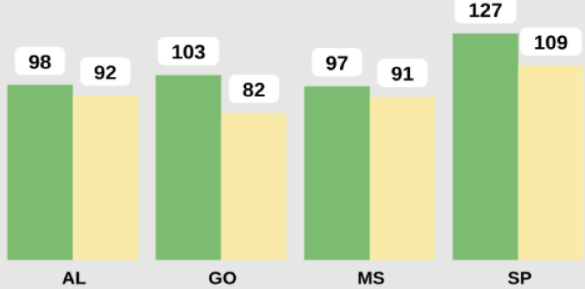
Tillers/meter



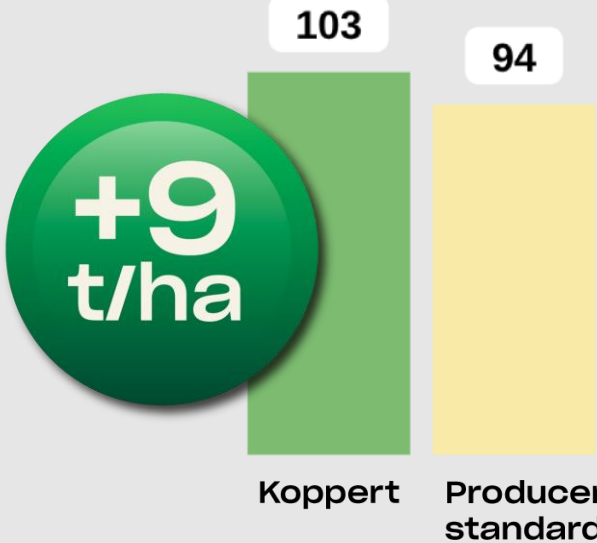
Biometrics (TCH) - Average/State



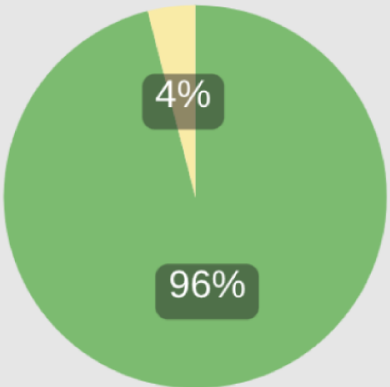
Productivity (t/ha) - Average/State



Productivity (t/ha)  
Average Brazil



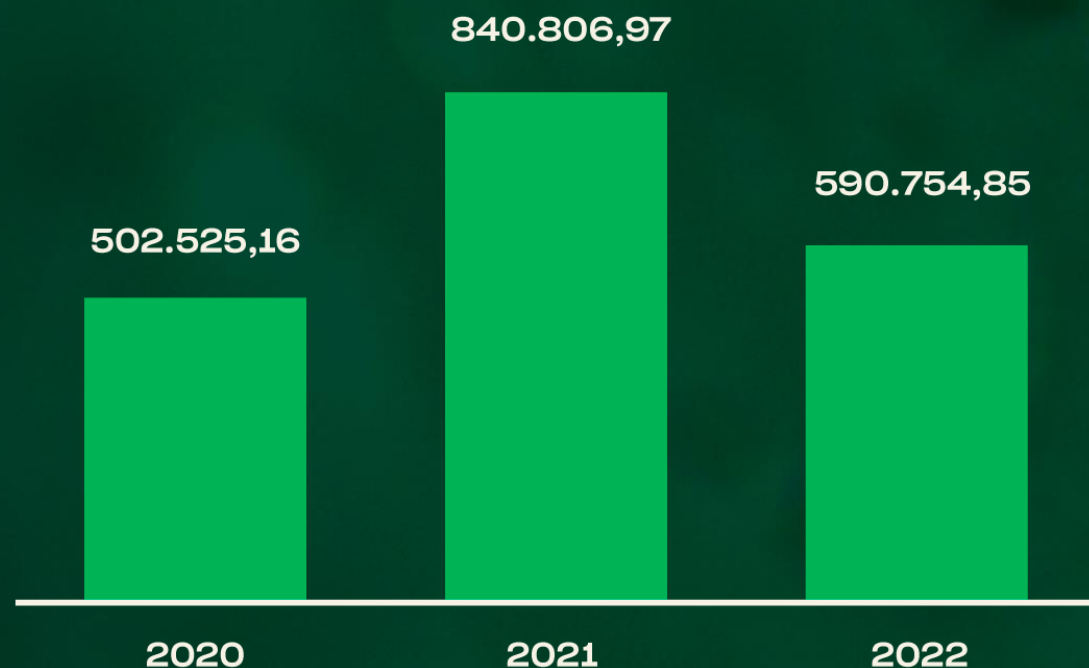
Yield response frequency (t/ha)  
Average Brazil





Source: Radicle Brazil

# Galloibug release via drone 2020 to 2022



Total:  
**1.934.085** (ha).

Release of *Trichogramma galloi* via drone  
(2020 to September 2022).

Source: Koppert Brazil Market Development Department

**Thank You  
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