



Intelligence in Soil Diagnosis

Who we are & What we do

CROPMAN is expanding knowledge and technological boundaries in soil diagnosis, through its methodological platform that uses the most modern and precise tools of digital agricultural, delivering higher efficiency in agricultural management & practices.







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Our team



Marina Burjaili Finance



Dr. Leandro Barbosa R&D



Data Processing





Priscila Vieira HR manager



Nelson Dias Data Gathering/Field



Partners & Clients





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Soil & Plant Nutrition

Data Mining & Processing

Strategic & Localized Management сгортлп

Value Proposition

Cost Reduction & higher agronomical efficiency, through effective field management, creating conditions for productivity gains and, consequently, for income increase for farmers.





High performance analytical capacity & yield for the creation of Permanent Field Management Zones



Oil & Gas Industry inspired Algorithms





Soil Samples

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Step by step







✓ SAVINGS: 60-80% reduction in the number of soil samples compared to traditional Precision;
✓ PERMANENT MANAGEMENT ZONES: based on highly stable soil parameters;
✓ PRECISION: Interpolation-free Zones that respect soil limits;
✓ APLICABILITY: Soil based technology usable for all crops (sugarcane, grains, cotton, palm, etc.)

Second processing
Delivery
(After soil analysis)
(Maps & shape files)



Nanagement Zones







Cropman Permanent Management Zones based on *soil parameters*

Low variation overtime Based on soil parameters that are quite stable Permanent Management Zones



Competitors Mutable Management Zones based on *plant parameters*

High variation overtime Affected by factors such as plagues, plant fisiology and agricultural practices Management Zones changing all the time

One file: Several Uses per Management Znnoc



сгортлл Argila (g/kg) 640 650 Argila (g/kg) 530 640 440 Meters 680

Management Zones Map



Clay content per Management Zone Map





Lime Dosage per Management Zone Map



KCL dosage per Management Zone Man











147 samples

19 samples







Cropman Technology helping in soil classification and definition of production ambient for sugarcane

Original classification

Mapping & oriented grid (CROPMAN)







Reclassification after soil sampling & Cropman data processing





Management Zones Map (focused on arable layer – 0-20cm)



AGRONOMICAL USES

- Management unit (localized actions)
- ➢ Fertility diagnosis
- Variable rates deployment for
 - a)Herbicides
 - b)Lime
 - c)Fertilizers

Soil Maps (focused on Diagnosys Horizon – 80-100cm)



AGRONOMICAL USES

- Variety allocation
- Sawing & harvest seasons
- ➤ Systematization
- Soil Conservancy













- Field sensoring for data collection in 4 different depths;
- Data processing for the creation of compaction maps;
- Field protocol to confirm compaction in soil profile;







Subsoiling costs: BRL 250,00/ha > 1/3 of area not compacted > SAVING: BRL 82,50/ha





Digital platform

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Friendly Digital Platform & API



Several agronomic uses

In one single workflow

1) Permanent Management Zones Map

2) Clay, Organic Matter & CEC Maps per Zone 3) Permanent sampling points per Management Zone

> 4) Soil Fertility Maps per Management Zone

> > 5) Application Maps for Fertilizers, Lime and Herbicides

> > > 6) Soil & Production Ambient Maps

7) Compaction Maps

8) Compaction Management Maps

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CROPMAN work tools and support use the most advanced means & technology for sustainable agricultural production. For us, innovation is transforming science in applied solutions for our clients. It is the opportunity to produce more using less

