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EXPERIENCES OF PRECISION AGRICULTURE WITH THE USE OF GNSS FOR SAVINGS AND YIELD IMPROVEMENTS ON TROPICAL AGRICULTURE

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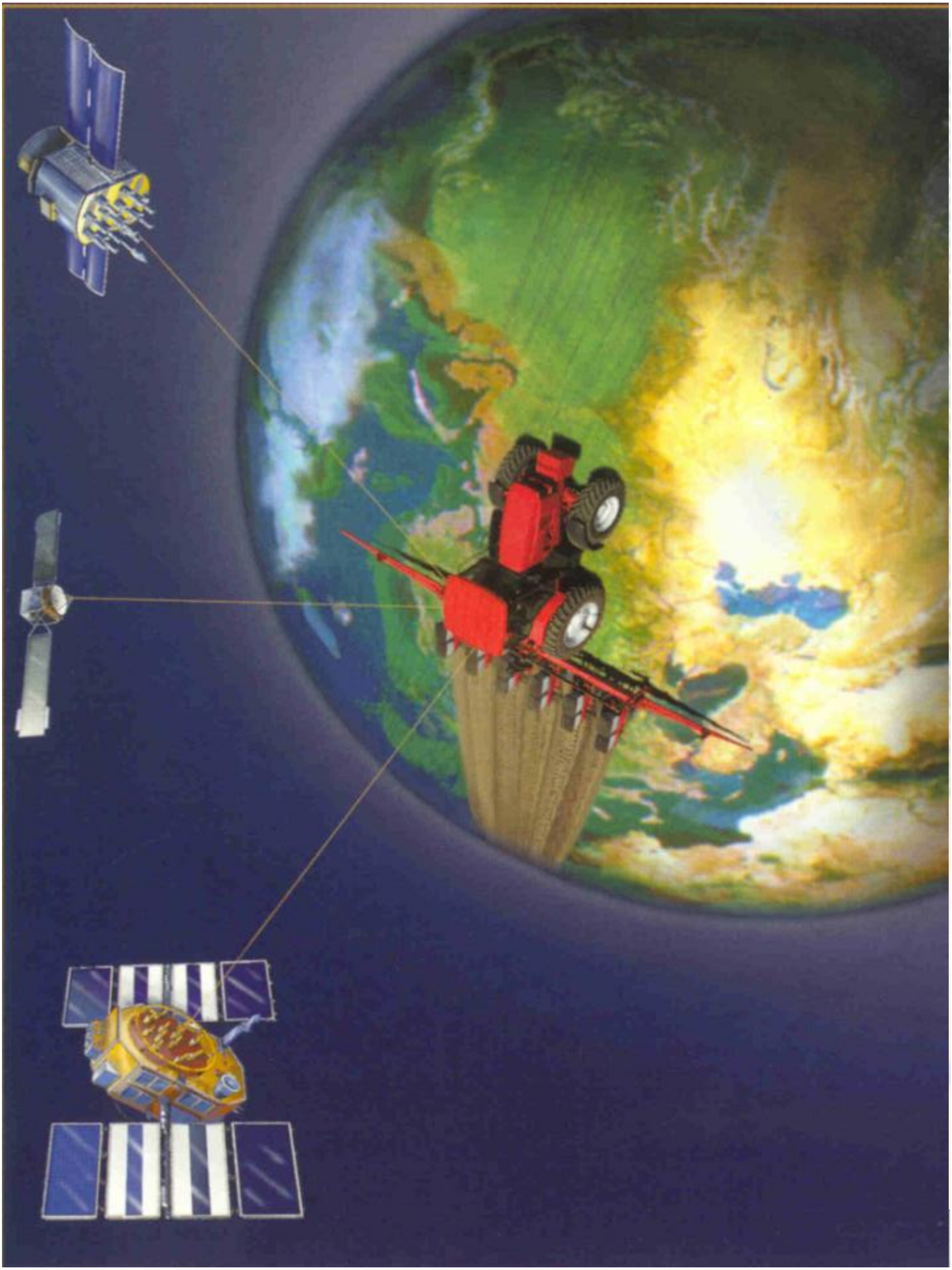
Just to remind:

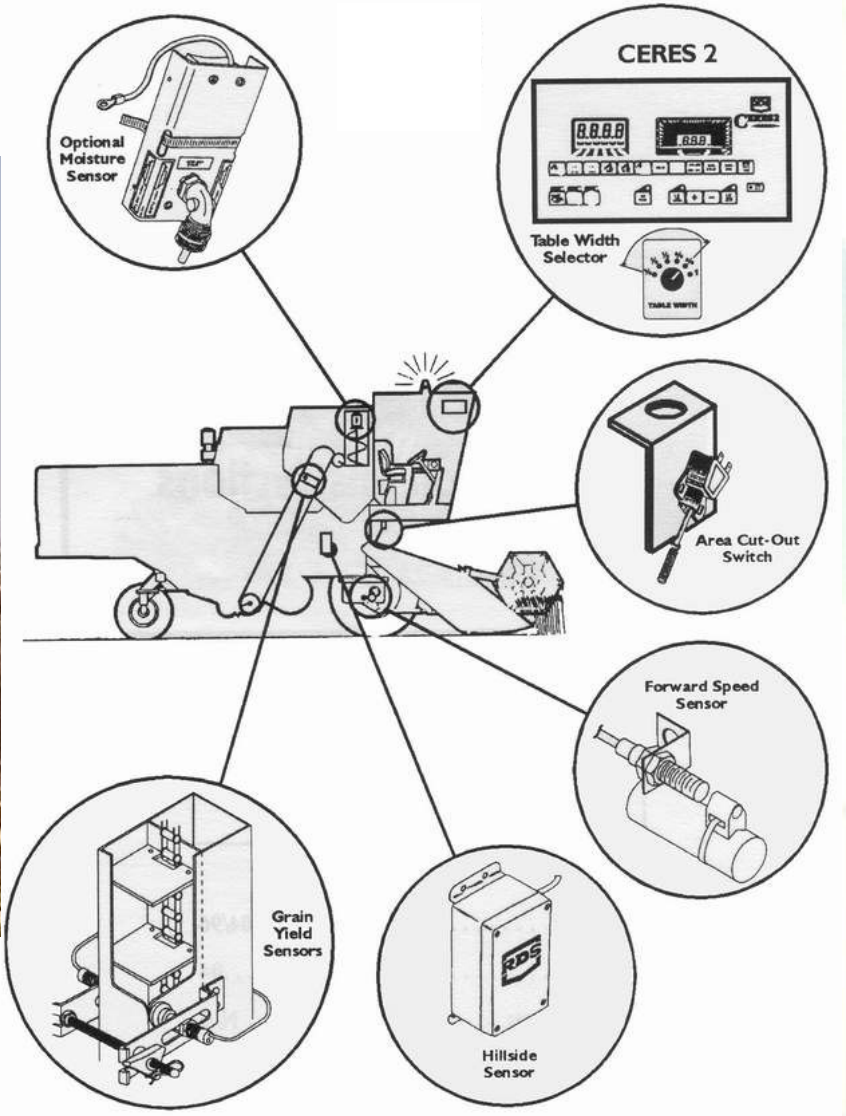
- Agriculture is one of the largest potential users of GNSS
- In a few years the technologies today called “precision agriculture” will be totally incorporated in the routine of agricultural practices

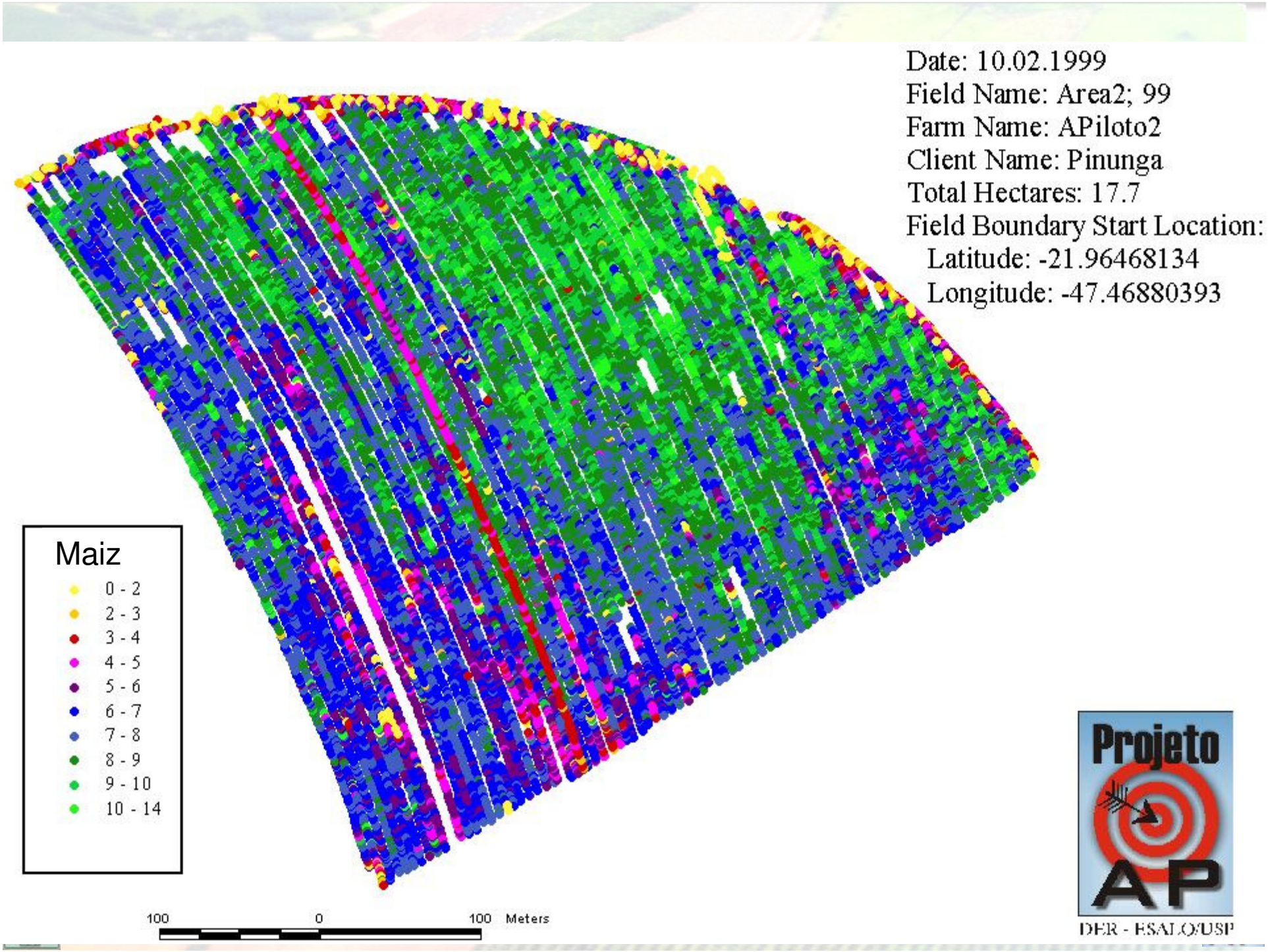
What is “Precision Agriculture”?

It means the way the majority of us still conduct agriculture may be strongly improved by the use of some new technologies mainly concentrated around GNSS. One of the basic assumptions is that agricultural fields are not uniform, so we should not treat them as uniform and GNSS is fundamental on all the related activities of managing this new concept of agricultural and forestry activities.



Fields are not uniform!

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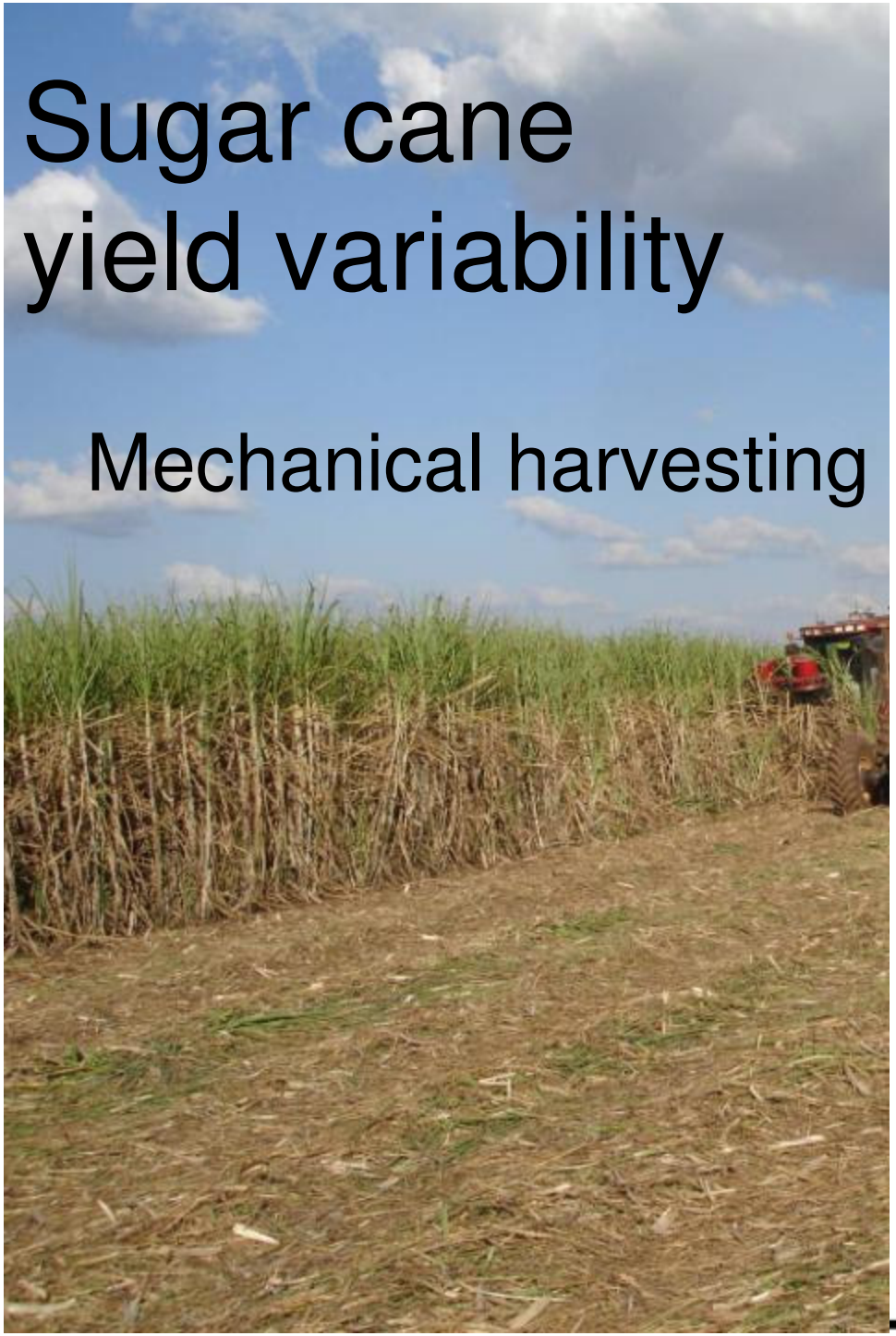
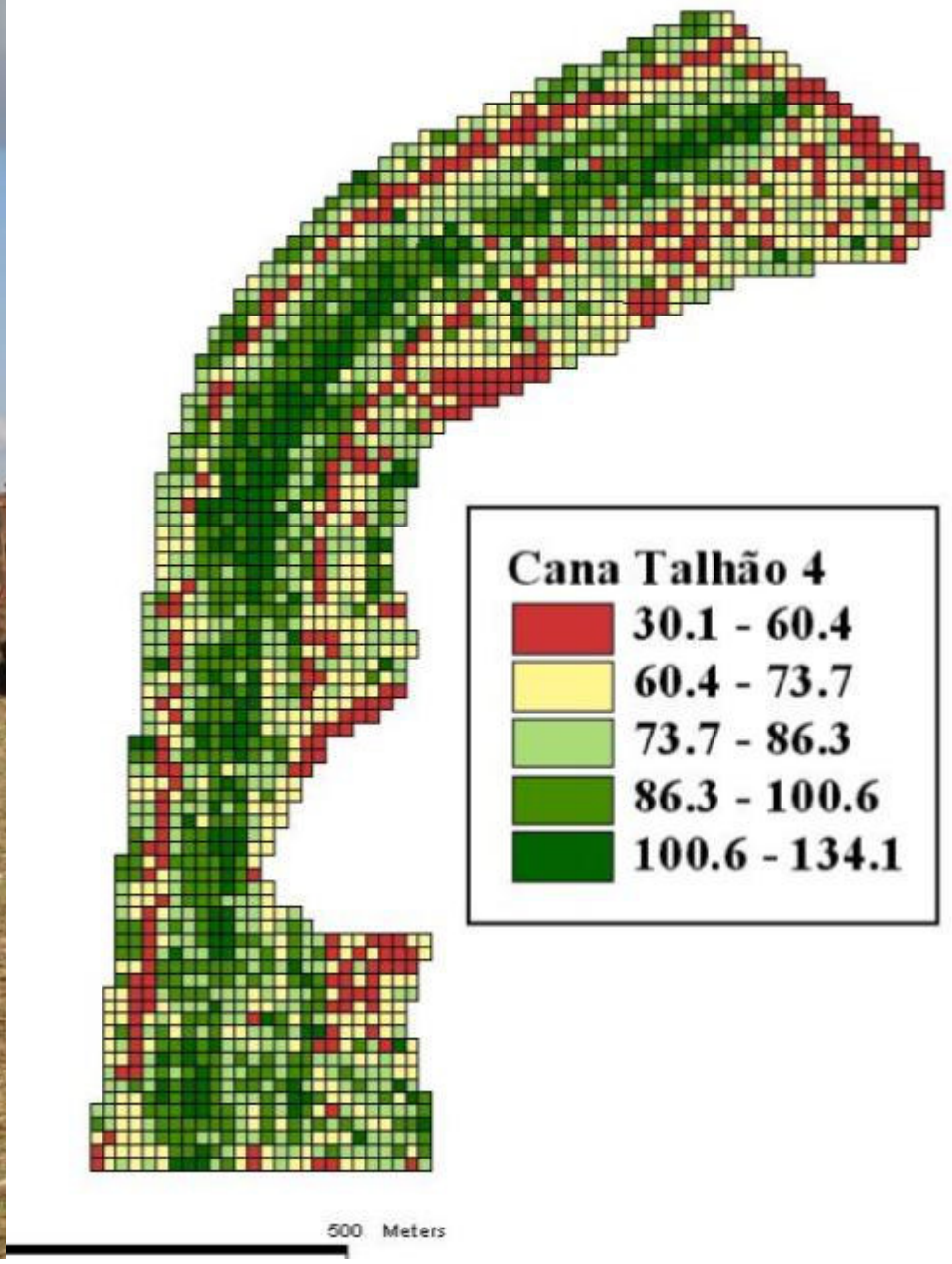
Field Name: Area2; 99
Farm Name: APiloto2
Client Name: Pinunga
Total Hectares: 17.7
Field Boundary Start Location:
Latitude: -21.96468134
Longitude: -47.46880393
Maiz
0 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 9
9 - 10
10 - 14
100
0
100 Meters
Projeto
AP
DER - ESALQ/USP

Sugar cane yield variability

Mechanical harvesting





Manual harvesting

José Paulo Molin

Agricultura de precisão

O gerenciamento da variabilidade

Piracicaba - 2001

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