



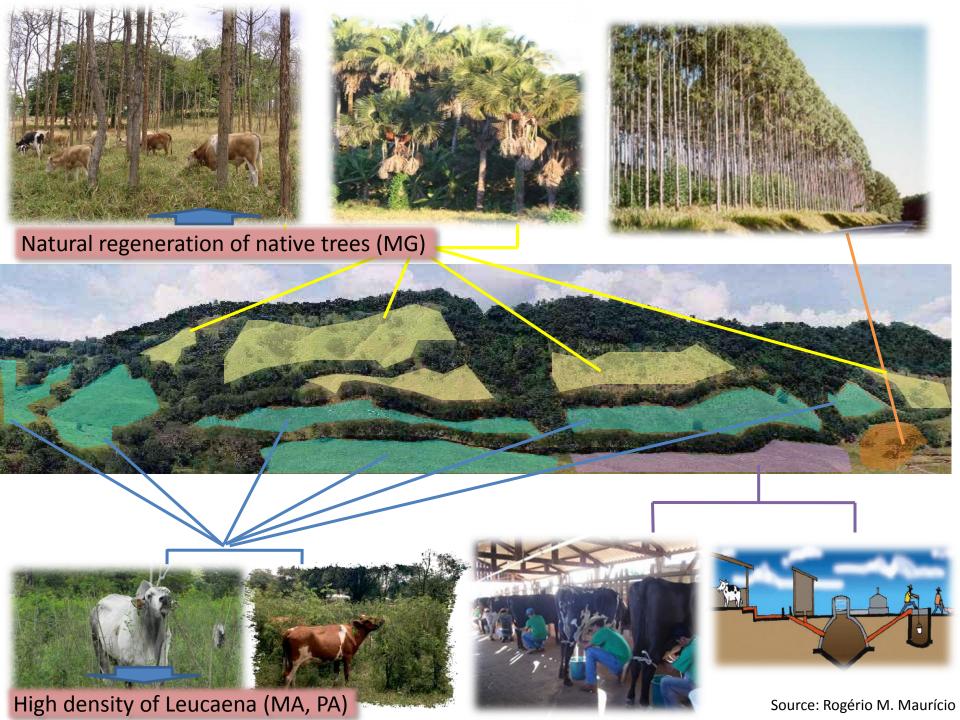




Prof. Rogério M. Mauricio

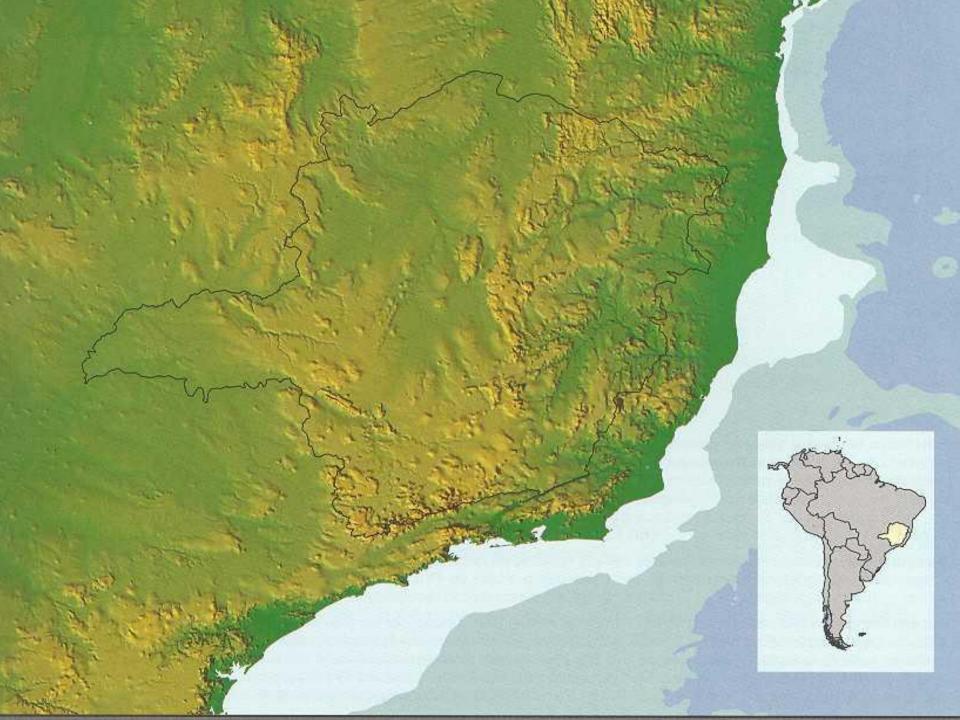


Introduction



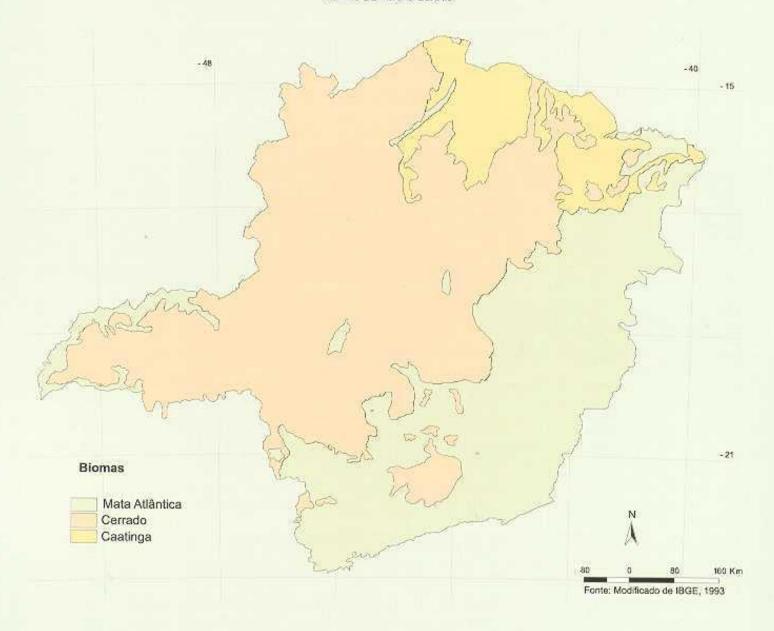
Natural regeneration of native trees for the implementation of silvopastoral system

Cerrado bioma (Minas Gerais State)





BIOMAS DE MINAS GERAIS



Cerrado (Monoculture of Braquiaria)



Silvopastoral system - Natural regeneration of native trees



Results

Monoculture

Silvopastoral system

- Lower DM production
- Higher forage PB
- Higher forage intake
- Lower water intake in the system





Natural regeneration of trees for the implementation of silvopastoral system

Amazonia bioma (Maranhão & Pará State)



Maranhão State (10.000 ha of pasture without shadow)



Mona Lisa Farm – Natural regeneration since 2002

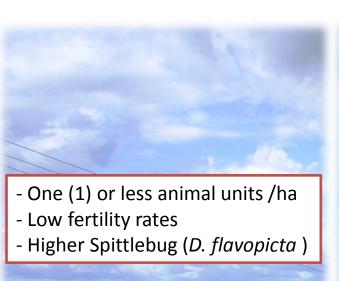


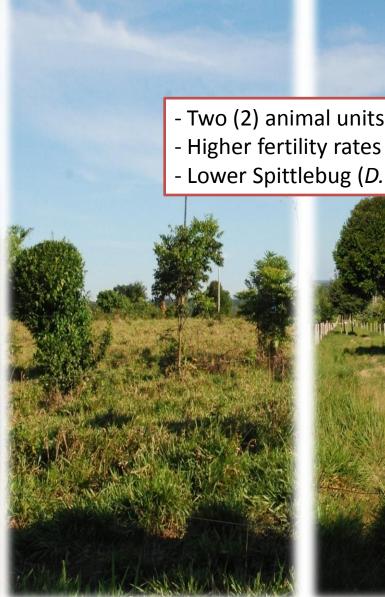


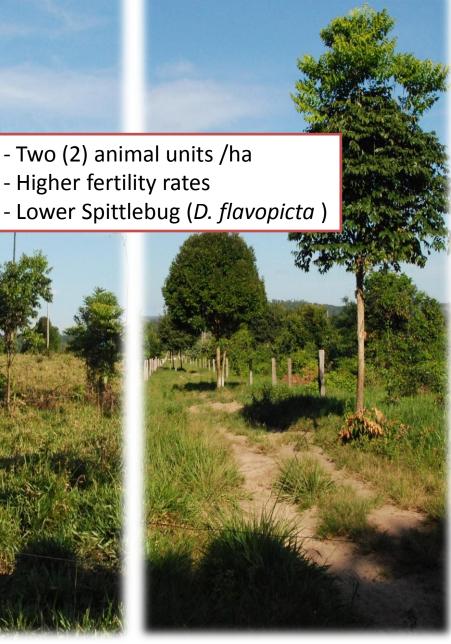


Monoculture

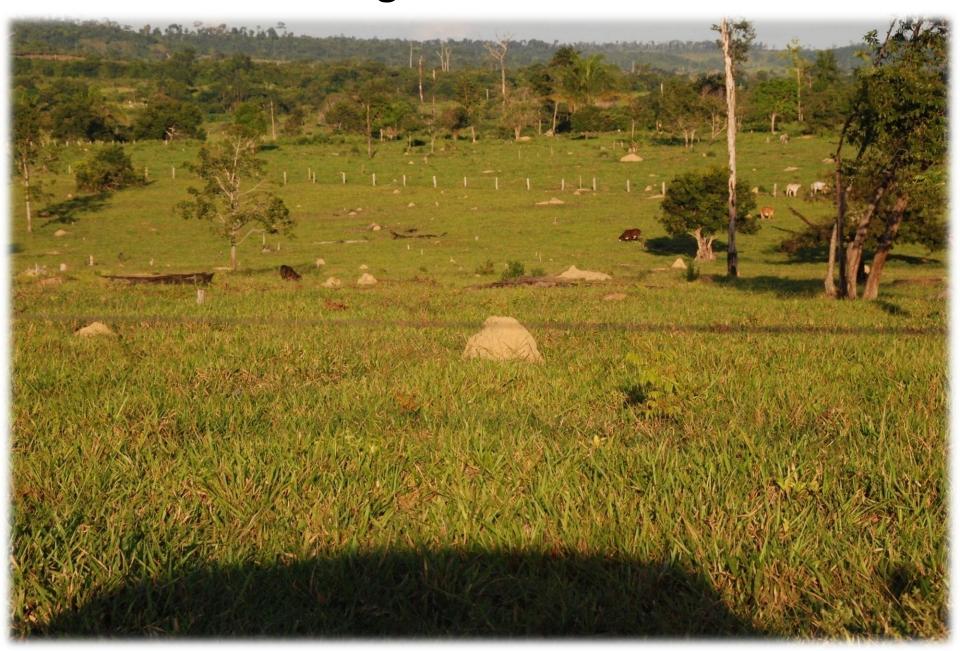
Silvopastoral system







Neighbourhood



High density of Leucaena for the implementation of silvopastoral system

Amazonia bioma (Maranhão & Pará State)























Results

Monoculture

0.6 animal units / ha

Silvopastoral system

4 animal units (450kg) / ha 15% higher live weight/animal

Conclusions for sustainable livestock intensification

- Natural regeneration of native trees
- Intensive silvopastoral system

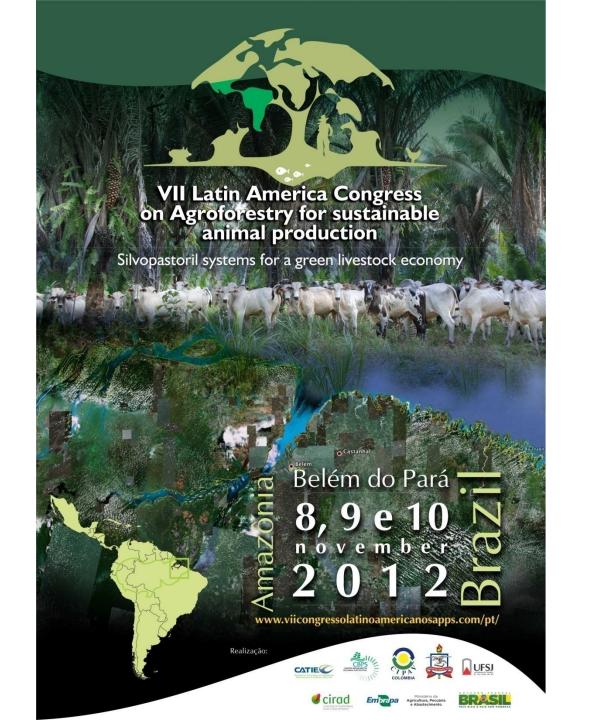
- 一个 Higher stocking rate
- No fertilize
- Soil seed dependent
- Lower cost \$
- Environment services?

- → ↑ Higher stocking rate
- Fertilize during implantation
- Seed demand
- Higher cost \$
- Environment services?

Both are better than monoculture forage system!

References

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- Plant Soil 329:185–193, 2010
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Thank you!

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