

# AISe - The Sweet and bitter sides of the sugarcane. An integrated sustainability assessment for the Brazilian ethanol context

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# RESEARCH TEAM

- \* UNIVERSITY OF SÃO PAULO (SÃO CARLOS SCHOOL OF ENGINEERING, SCHOOL OF PUBLIC HEALTH)
- \* FEDERAL UNIVERSITY OF GOIÁS
- \* FEDERAL UNIVERSITY OF PERNAMBUCO
- \* IEA - AGROECONOMICS INSTITUTE
- \* EMBRAPA
- \* IMAFLORA – AGRICULTURE AND FOREST MANAGEMENT CERTIFICATION INSTITUTE

# Brazilian ethanol context ... Lessons we learned ....

- \* Sustainability assessment is still a developing body of research and practice.

# Brazilian ethanol context ... Lessons we learned ....

- \* Sustainability assessment is more than assessment ...  
encourages capacity building, stakeholder engagement and

# Brazilian ethanol context ... Lessons we learned ....

- \* Certification .... tool to support decision making at business level
- \* GRI - Sustainability Report .... a new step ....

but both don't approach large scale context yet ....

# Brazilian ethanol context ...

## Lessons we learned ....

- \* tripple bottom line, certification, LCA, modelling ... nice as individual tools, but not enough for sustainability assessment

# Brazilian ethanol context ... Lessons we learned ....

- \* Governmental actions ...  
Agroenvironmental Zoning for  
sugarcane ... lack the other  
dimensions of sustainability ...  
lack clear policy ....

# Brazilian ethanol context ... Lessons we learned ....

- \* Information is not centralized, databases are spread among different governmental agencies

# Brazilian ethanol context ... Lessons we learned ....

\* *Environmental Impact Assessment* in Brazil is regulated only for projects ....

hard to capture  
sustainability

# Brazilian ethanol context ... Lessons we learned ....

- \* Many of the important decisions reside at the government level ... but government is too slow ....

# Brazilian ethanol context ... Lessons we learned ....

\*But there are good examples ...  
Environmental Agreement  
at the State of São Paulo

....

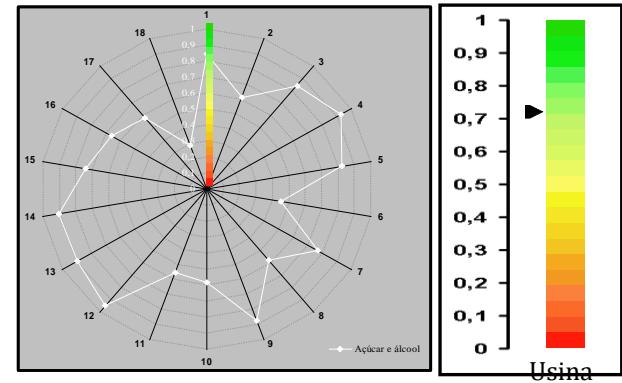
# Brazilian ethanol context ...

## Lessons we learned ....

# \* Environmental Behaviour

## Indicator is under construction

## ...for benchmarking best practices ...



# Brazilian ethanol context ...

## research challenges ....

# Brazilian ethanol context ... research challenges ....

- \* How much is **sustainability** an important dimension in the decision process?

# Brazilian ethanol context ... research challenges ....

- \* Are the present *sustainability assessment tools* appropriated for the decision makers in the ethanol policy network?