Some features

• 3 productive sectors linked to LU: biomass, cattle and rest of agriculture
• Land as a production factor (in physical unit - ha)
• Land supply function with ultimate limit of total land availability (possibly in relation to deforestation objectives)
• Land allocation function (logit)
• Demand side: trade-off between:
  – Food - mobility – housing services - composite
  – bioethanol and gasoline to supply private transportation (Goldemberg curve)
Growth of productive sectors between 2005 and 2025 in the reference scenario

[Bar chart showing growth of different sectors such as BIO, COAL, CRUDE OIL, GAS, OIL PROD, ELEC, TRANS, CATT, AGRI, INDUS, SERV. The chart compares 'No land constraint' and 'land constraint' scenarios.]
Constraint on land

- BIO
- COAL
- CRUDE OIL
- GAS
- OIL PROD
- ELEC
- TRANS
- CATT
- AGRI
- INDUS
- SERV

Constraint on land
Effect of a 200R$ carbon tax in 2025 on sectoral growth
Next Steps

• Develop a methodology to link BLUM to IMACLIM

• Treat agriculture sector with more detail
  – Substitute the 3 sectors related to LU by 12 sectors: sugar cane; sugar; ethanol; soya; soya protein; soya oil; biodiesel; gasohol; wood; charcoal
  – This detailed database will allow us to have more robust link to the LU model