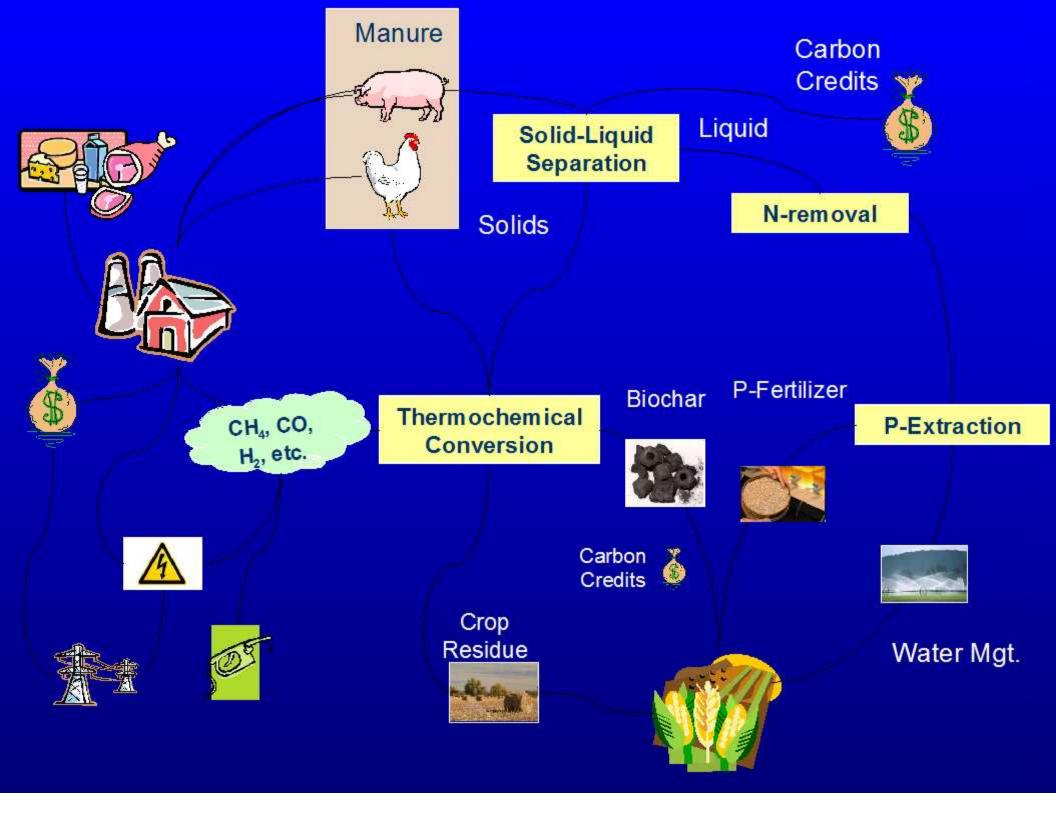
Green and Profitable Farming Systems for the Southeastern U.S.A.

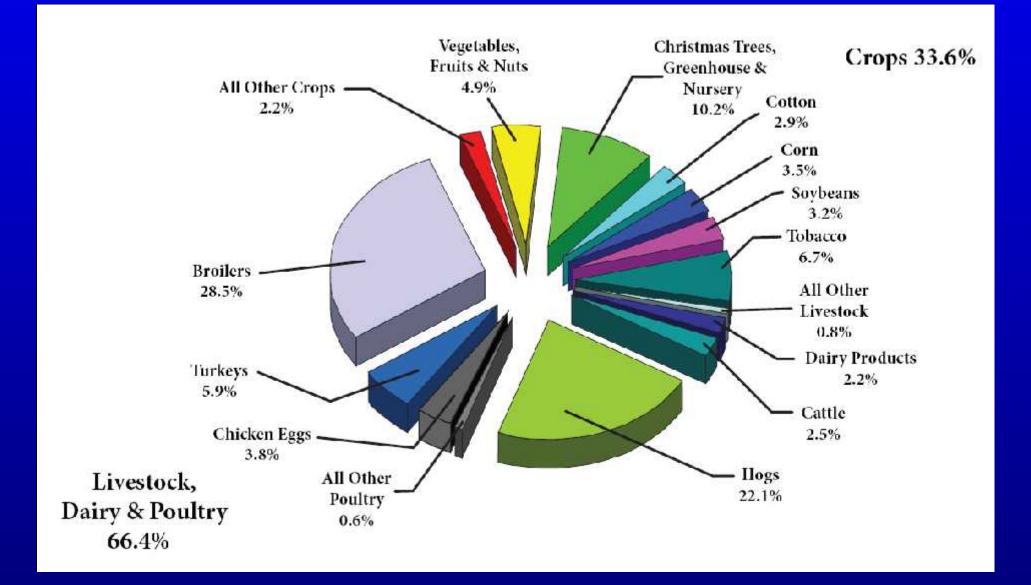


Livestock particularly poultry and swine are large contributors to economies of all Southern U.S. states.

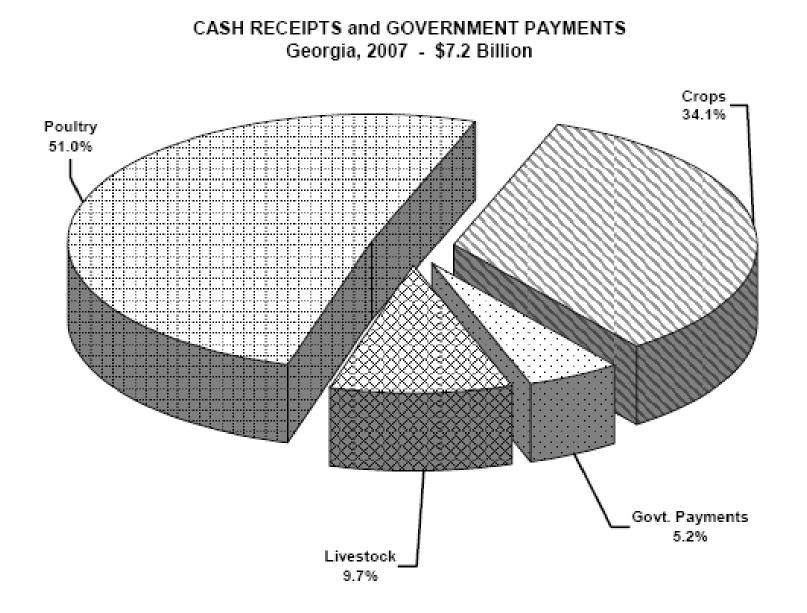




NC Commodity Cash Receipts



GA Commodity Cash Receipts



Livestock Waste Treatment

Full-scale treatment of 5,600 finishing pigs in North Carolina



Solid-liquid Separation -Flocculation





High-capacity rotary press

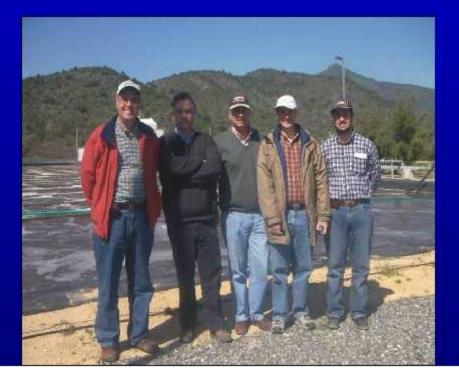
Drier cake (26% solids)

Granulated Phosphorus Fertilizer

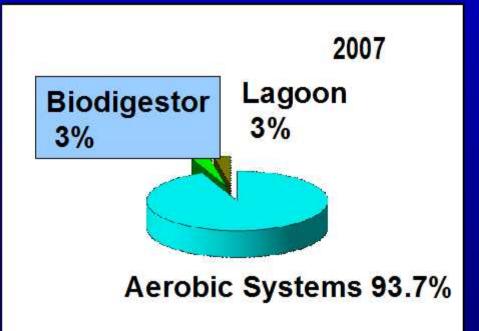


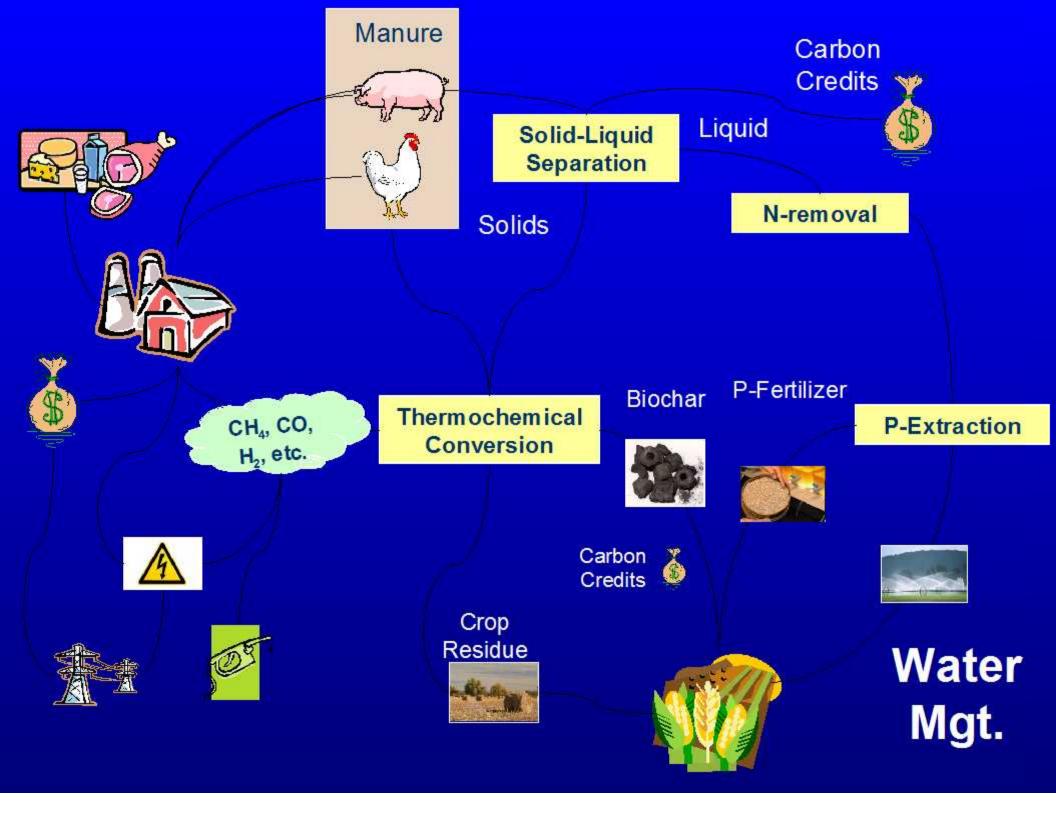
Conversion of swine lagoons to clean 1997 technology in Chile

2001 Kyoto Protocol: Chile's Central Region, 1.3 million pigs



Lagoon 100%

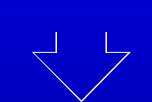




Transformation Anaerobic Lagoon → Aerobic Pond



Start: December, 2006





September, 2008

Blending Feedstocks: Grasses, Stover & Legumes













Solid-liquid Separation -Flocculation

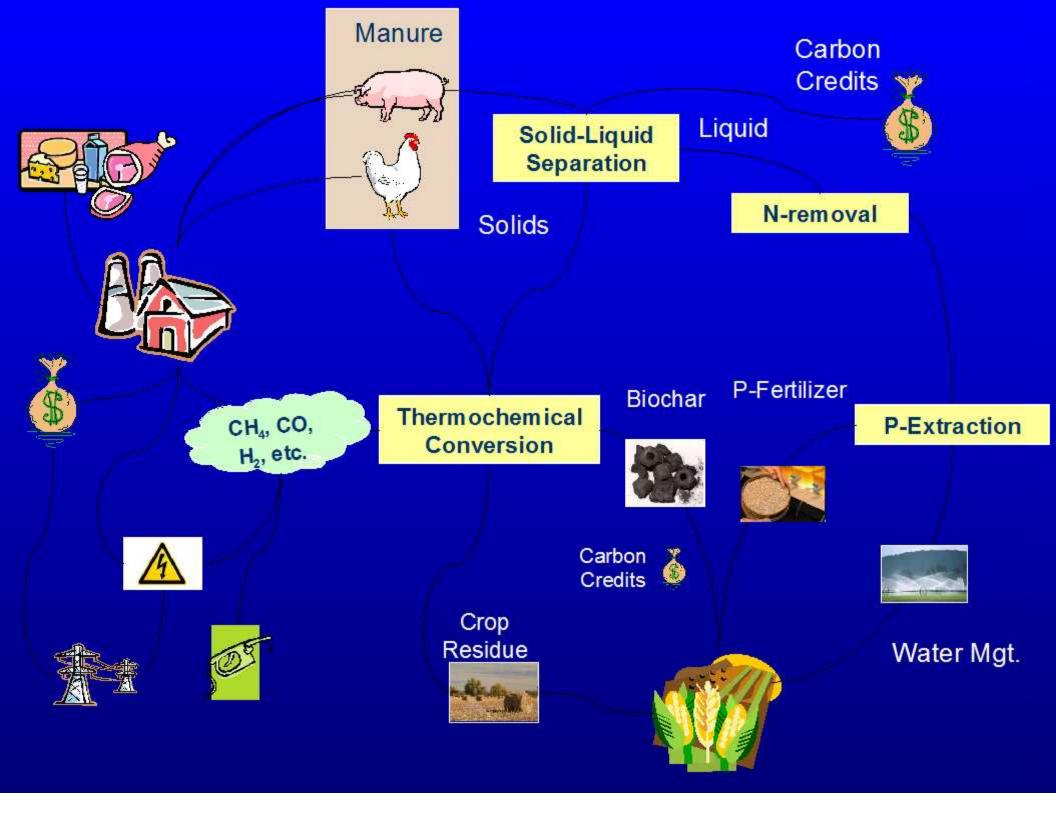




High-capacity rotary press

Drier cake (26% solids)

Energy and Biochar

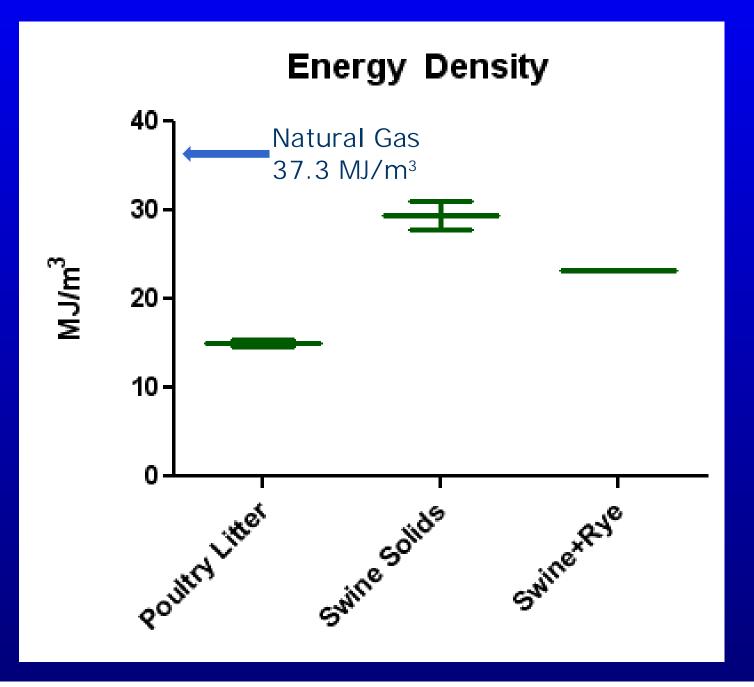


Pyrolysis



US Innovation Group, Inc.

Heating Value of Produced Gas



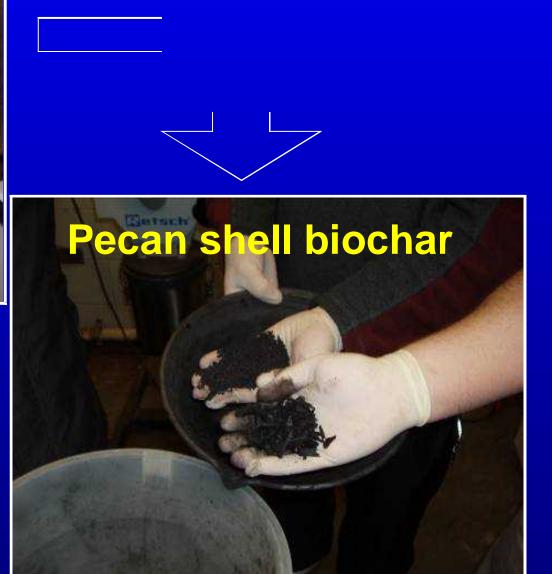
Electrical Generation via Biogas I Power ENI Units



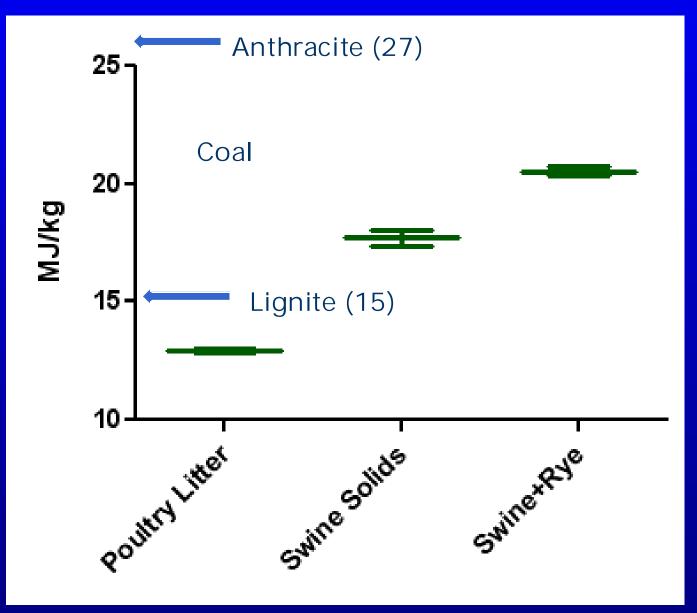
Blue = natural gas or propane Green = biogas

Green Coal





Energy Content of Biochar

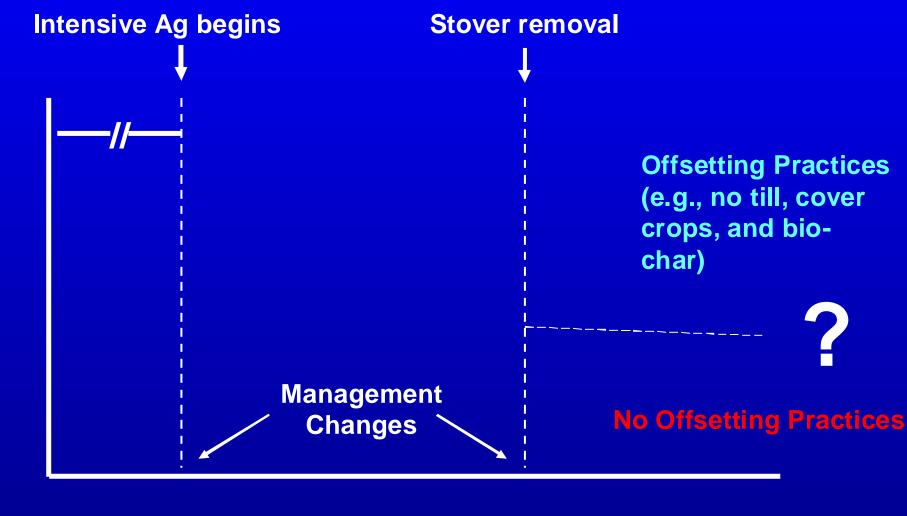


Green/Black Fertilizers

Black fertilizer pellets



Soil C Change with Management



Time ——

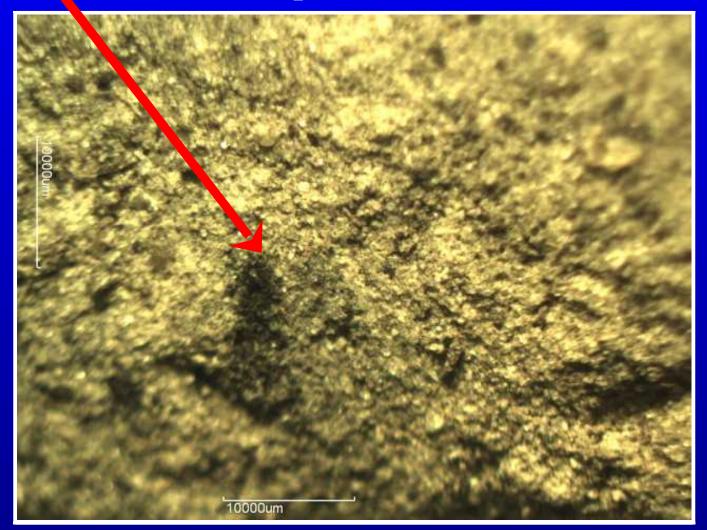
Soil Carbon Content

Credit: Wally Wilhelm, Dec. 2005

Terra Preta



A nodule of pecan biochar in the Ap horizon



Granulated Phosphorus Fertilizer

