Blue Carbon in Practice: Tips for developing a successful blue carbon offset project

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Agenda

- Case Study from Forestry Sector
- Lessons and Challenges for Blue Carbon
- Tips for Developing Blue Carbon Projects





TerraCarbon background

- Established in 2006.
- Advisory firm specialized in the land use and forestry sector of the carbon market.
- Develop and sell offsets from projects that restore and protect forests and wetlands around the world.
- 27 registered projects under VCS/ACR/CCB/CDM.
- Certified B Corporation.







- WHAT?
 - Planting trees in former agricultural fields in the Lower Mississippi Valley
 - Reforestation of 77,000 acres since 1999
 - Over 34,000 acres registered in 4 VCS projects and 1 ACR project







- WHO?
 - Public-private partnership between the project developer (ESI), NGOs and state or federal land-owners and corporate funders.



TRUST for PUBLIC LAND













- HOW?
 - Federal or state agency provides land for restoration
 - NGO may also purchase and donate land to federal or state agency
 - Corporate funder provides cash for restoration and some portion of land acquisition; USFWS allows funder to claim credits
 - Project developer designs and implements restoration, carbon monitoring





- WHY?
 - Carbon sequestration and climate change mitigation
 - Restore habitat and reconnect forested landscapes
 - Protect soil resources, improve water quality and provide for natural flood storage

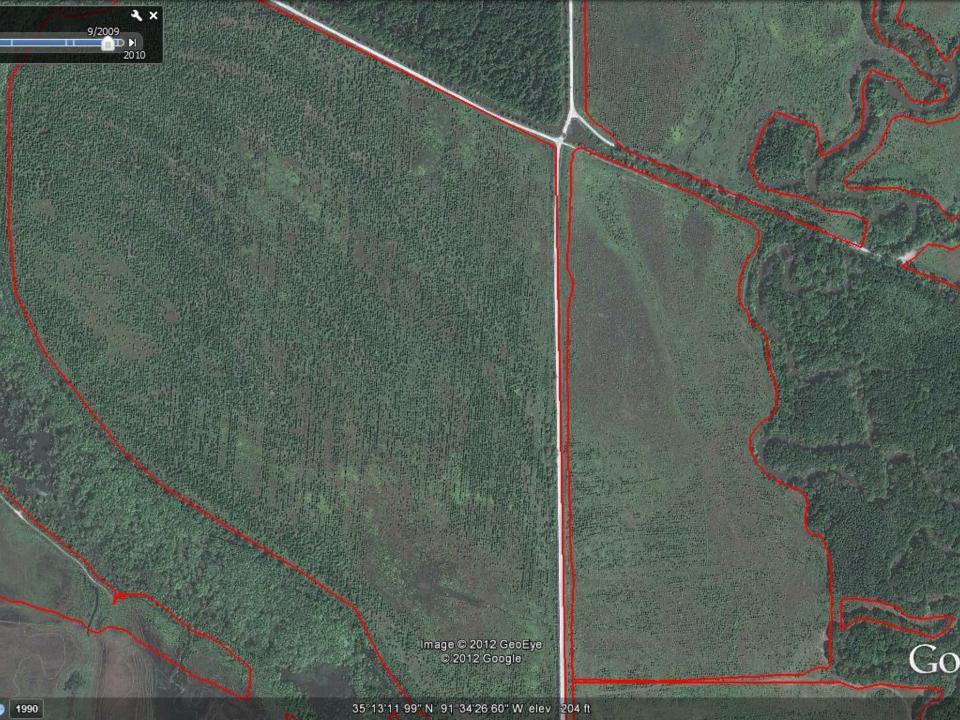


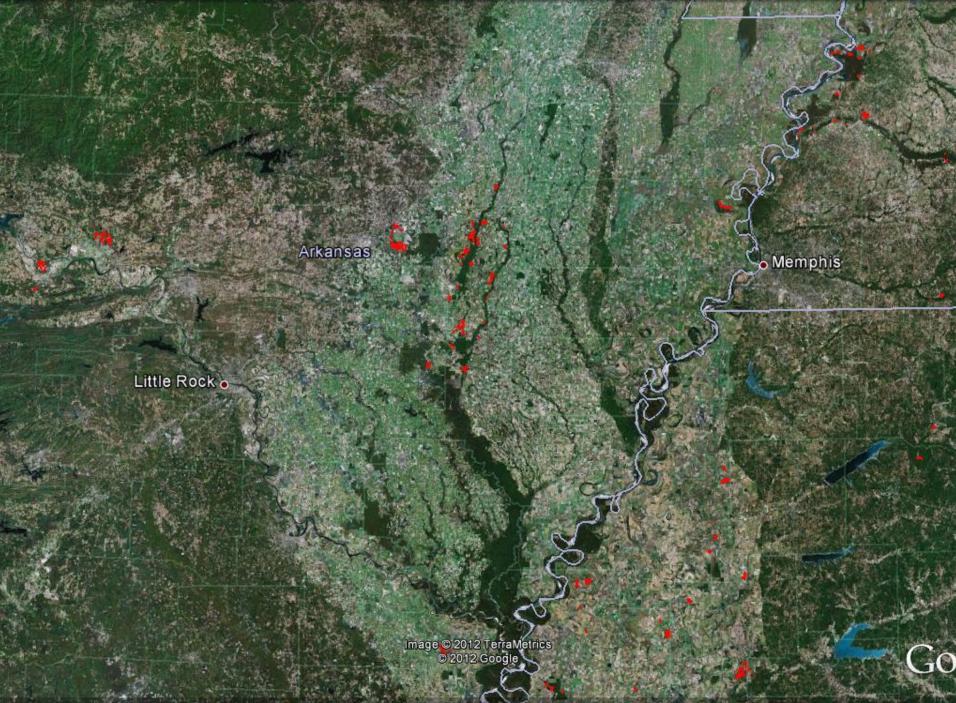


- WHERE?
 - Lower Mississippi Valley
 - Arkansas, Kentucky, Louisiana, Mississippi, and Tennessee
 - USFWS lands
 - State Lands









34°50'05.44" N 91°14'13.15" W elev 180 ft



Lessons Learned

- Carbon projects can serve as basis for private-public partnerships
- Scale is important to lowering (mostly fixed) project development and monitoring costs
- Restoration (and generation of CO2 benefits) takes time
- Other sources of funding needed





Challenges for Blue Carbon

- GHG Fluxes
 - CO2 as well as CH4 and N2O
 - Highly variable across site conditions and locations
 - Expensive to collect





Challenges for Blue Carbon

- Land Ownership
 - Restoration at scale of hydrology, can affect multiple landowners, including public landowners
 - Transfer of carbon rights on public lands is still new





Challenges for Blue Carbon

- Scale
 - Size of blue carbon projects is often smaller than forestry projects
 - Project development and monitoring costs are largely fixed





Tips for Blue Carbon Projects

- GHG Fluxes
 - Develop partnerships with academic institutions
 - Use default values, peer reviewed models
- Land ownership
 - Educate landowners/stakeholders
 - Transfer carbon rights in exchange for public benefits
- Scale
 - Group projects in same landscape
 - Use default values, peer reviewed models





Tips for Blue Carbon Projects

- Feasibility analysis
 - Technical (meth applicability, estimated credits),
 - Financial (estimated carbon revenues and costs),
 - Legal (landowners, credit ownership),
 - Organizational (partners, roles),
 - Market (potential buyers).





Thank you!

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