



# Aggregation Lessons Learned

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CCSI began operations in early 2009

Aggregated over 1.1 million tonnes of CO<sub>2</sub>e since 2009

1000 participants, 2000 contracts, 11,000 land locations, 1.83 million acres

Aggregated Soil Conservation Projects and Green Energy Projects

13 Verifications 2 Government Audits

16,505,183 registered reductions from 96 projects

Historical crediting

67 projects are aggregated “Tillage” projects

Proof that aggregation works

Proof that aggregated projects can fail

Demonstrated the need for prescriptive protocols

Demonstrated the need for data standards and sophisticated data management systems

Ambiguous, descriptive protocols

Unaccredited verifiers and auditors

Regulatory authorities reluctance to listen to market players

Unscrupulous aggregators

Price of Offsets

Difficult to find projects to aggregate. ROI is low

Dollar value of offsets is a tiny fraction of a farmers income. Often it isn't worth their time.

Vast amounts of data have to be collected and verified. Farm records may not exist.

Unscrupulous aggregators

Price of Offsets

## Prescriptive protocols

- Data collection standards
- Data Standards

## Prescriptive verification guidelines

## Accredited verifiers and auditors

## All stakeholders partaking in the protocol development process

## Sophisticated data management systems

- Relational databases
- Transaction logging

## Comprehensive business processes

- Quality control
- Data validation
- Physical file management

Customer relationship management

Contract management

Track verifications

Calculate payment and distribution of funds

Track ownership and changes in ownership

Project crediting periods

Track removals and corrections



Include stakeholders at appropriate times

Develop prescriptive protocols & verification guidelines

Standards

Qualify verifiers and auditors

Qualify aggregators

Sophisticated data management systems are critical

# DOES WORK

