



# The Carbon Project®

Innovative Geosocial Solutions™

## Kickoff Meeting Notes - May 2012

Implementation Model Development for FGDC-Standard Cadastral Data -  
Enabling Seamless Parcel Data Exchange

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# Agenda

- Overview and Objective
- Partners
- Approach
- Development Tasks
- Discussion...

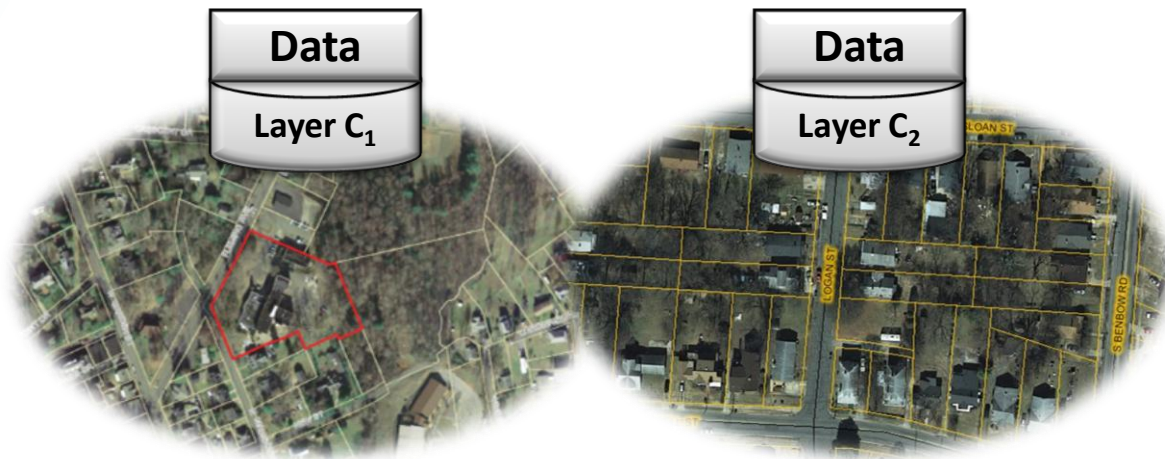
# Why Parcels?

- Land ownership has been critical to the economic development of the United States.
- Land parcel databases, also known as cadastres, describe the rights, interests, and value of property.
- These databases represent the distribution of the real property assets of a community and its ownership, form the basis for all land use and zoning decisions, and represent the location of residences, businesses, and public lands. *In other words, almost every aspect of government and business can be associated with a land parcel.*



# Why Parcels?

- Given the importance of this data there is growing interest in creating 'seamless' statewide and federal parcel data sets that can be shared among local, state, tribal and federal organizations
- The objective of this project is to assist in the implementation of the FGDC-endorsed standard for Cadastral Data Content



# Overview and Objective

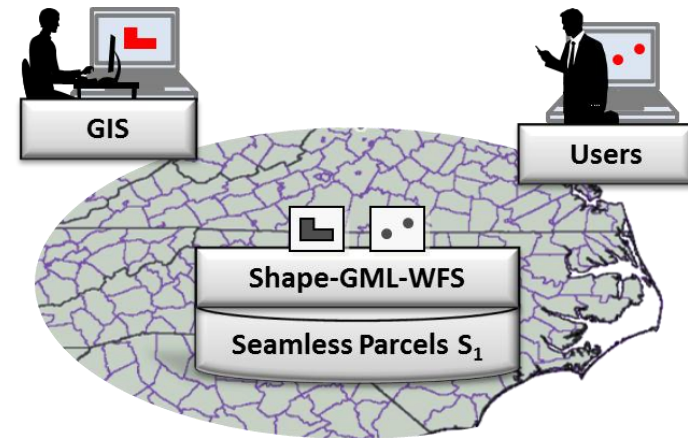
- Assist in the deployment of the FGDC-endorsed standard for Cadastral Data Content.
- To achieve this objective the project will develop an implementation model of the subcommittee's standard for published parcel data in Extensible Markup Language/Geographic Markup Language (XML/GML).
- Intent is to help enable 'seamless' parcel data sharing among local, state, tribal and federal organizations.
- Results will be freely available and help promote uptake of the FGDC Cadastral Data Content Standard across the United States National Spatial Data Infrastructure (NSDI).

# Partners

- Fairview Industries
- NC Secretary of State, Land Records Management Program, Land Records Manager
- FGDC
- The Carbon Project
- NOTE - Effort will also coordinate with Integrated Cadastral and Land Use Data Exchange (InCLUDE) platform now under consideration for sharing North Carolina parcel data

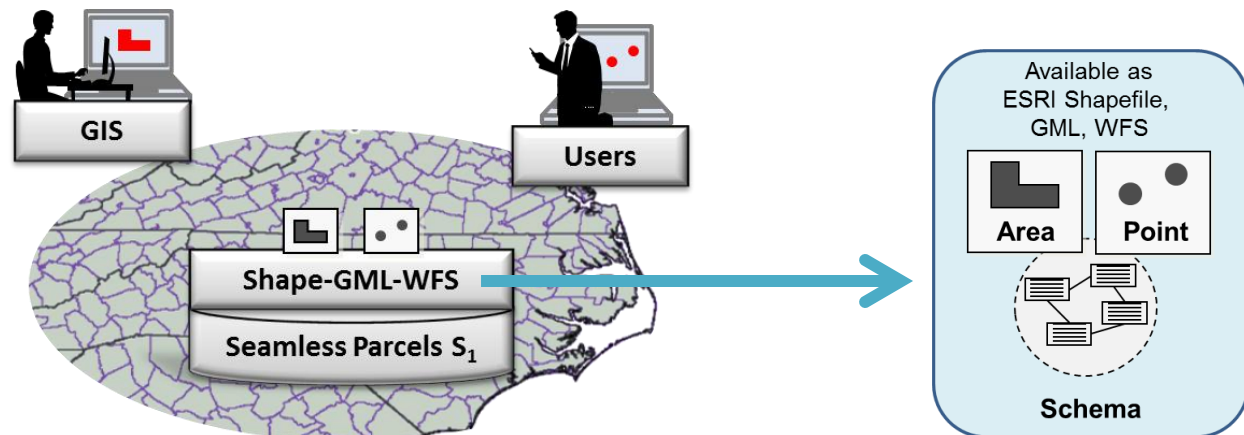
# Approach

- Effort builds on survey commissioned in early 2008 by North Carolina Working Group for Seamless Parcels (WGSP) to determine most commonly needed cadastral data attributes.
- Identified multiple business cases that require seamless parcel data and a proposed list of standardized information elements that most county property mapping offices are able to support.
- Final attribute list is also fully conformant with the Federal Geographic Data Committee (FGDC) Cadastral Subcommittee standards for published parcel data.
- WGSP also examined a number of options for standardizing and sharing Local Government cadastral and land use data.

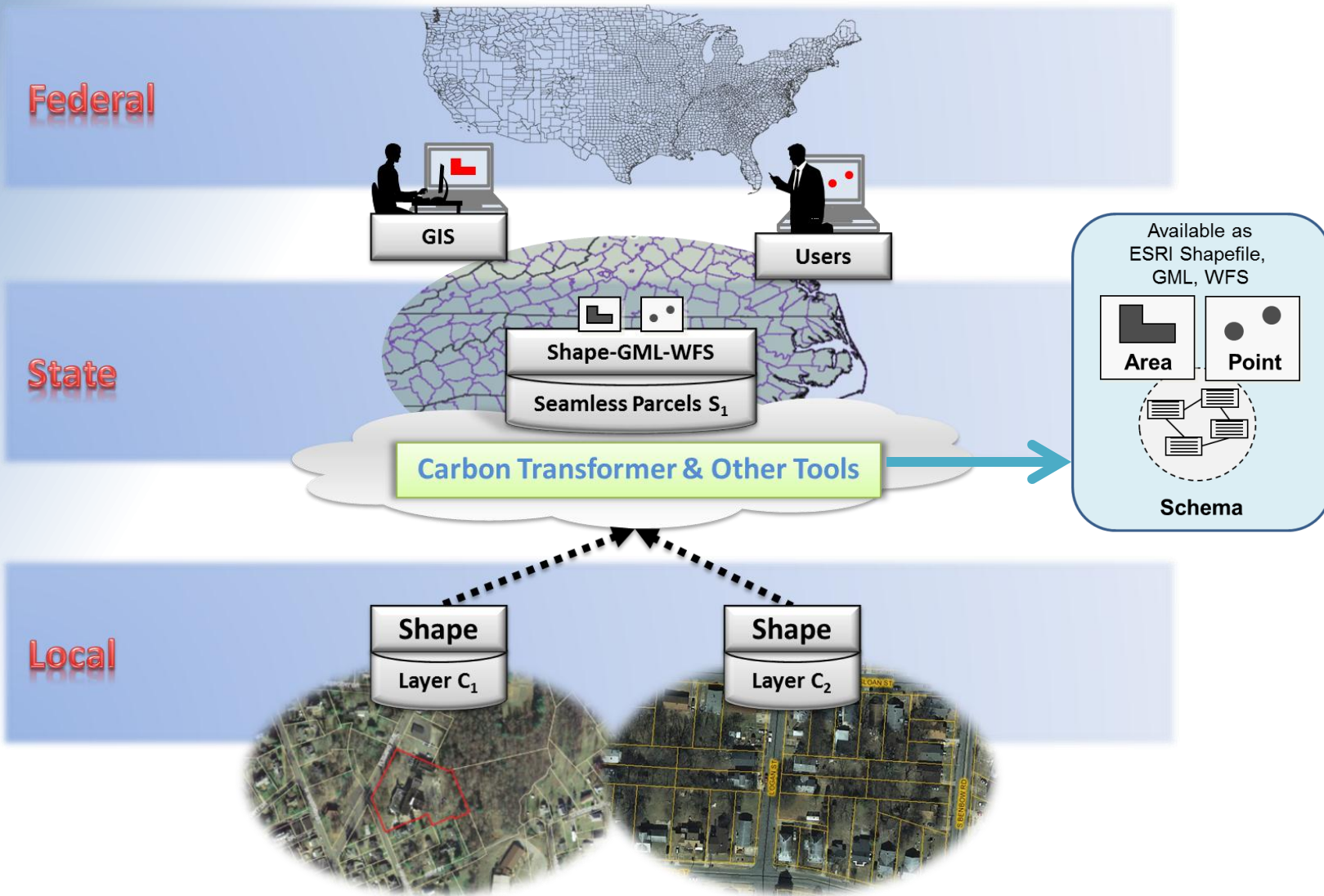


# Approach

- For this project, identified parcel attributes will be modeled as both Area (Polygon) and Point data.
- Architecture of this model will support a Geography Markup Language for Simple Features (GMLsf) schema usable in Esri GIS and other open GIS systems.
- This approach will ensure full compatibility with existing GIS implementations in North Carolina, and provide a convenient connection to national networks for information exchange.



# Approach



# Development

- Development will be conducted as a series of collaborative tasks.
- The project team will conduct collaborative Schema Development by verifying a core set of data elements that will support business needs for parcel data among agencies.
- Once identified, the core data elements will be converted to a Geography Markup Language for Simple Features (GMLsf) Exchange Schema made available for NSDI interoperability.

# Questions and Discussion...

