NCTCOG ORTHOPHOTOGRAPHY PROGRAM Making the Cooperative Model Work

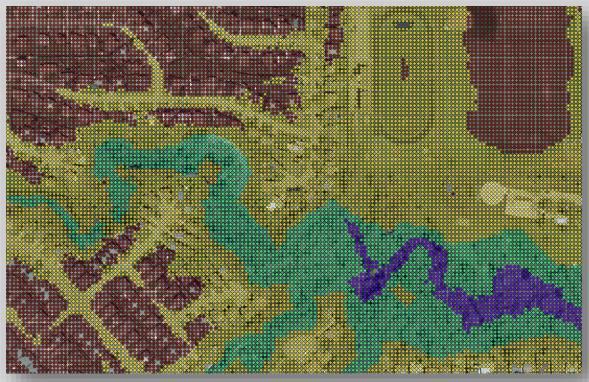
Agenda

- 1. History of the NCTCOG ortho project
- 2. Two Things that Make a Cooperative Model Work
- 3. The Woolpert Way
- 4. Moving Forward

History of the NCTCOG Orthophotography Project

And More...

2001 to 2006



2001 LiDAR

2007 to 2008



2007 Planimetrics

2009 - 2012

Aerial Photography

Feature	Coverage Area (sq mi)	Not-to-Exceed Cost
3-inch Aerial Photography 6-inch Aerial Photography	0	0
	Aerials Total	0

Airborne LiDAR

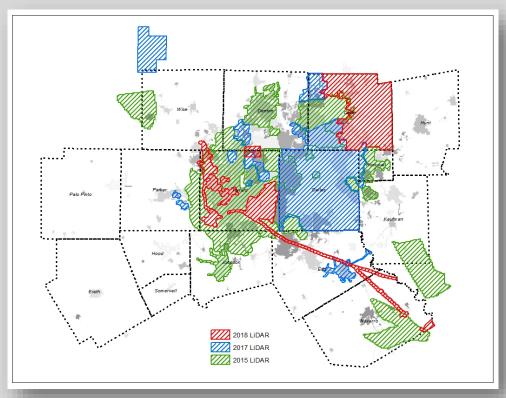
Feature	Coverage Area (sq mi)
	llows a path, road, utility, or any right-of-way. Due to tle ground control and are thereby more expensive than
 If coverage area is a corridor, check here a 	nd leave all other options in this section blank. Corrido
0.5-Meter LiDAR	0

2D Planimetrics (Aerial Photography required)

Feature [Hover over product name for specifications]	Coverage Area (sq mi)	Туре	Not-to-Exceed Cost
Discounted Bundle - Building footprints, road edges, parking lots, bridges, sidewalk <i>centerlines</i>	0	○ New ○ Updates	0
☐ Discounted Bundle - Building footprints, road edges, parking lots, bridges, sidewalk <i>edges</i>	0	○ New ○ Updates	0
☐ Building Footprints	0	○ New ○ Updates	0
☐ Bridges	0	○ New ○ Updates	0
☐ Driveways	0	O New O Updates	0
Fences	0	O New O Updates	0
☐ Lake Edges	0	○ New ○ Updates	0
☐ Parking Lots	0	O New O Updates	0

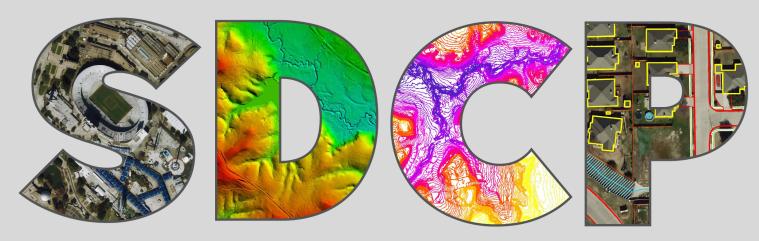
Online Ordering Form

2013 to 2018



Multi-year LiDAR

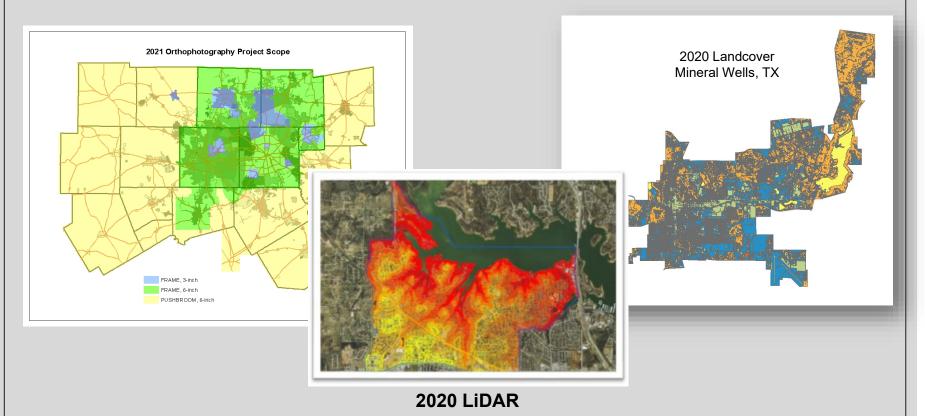
Rebranding the program:



Spatial Data Cooperative Program

Program website: https://www.nctcog.org/regional-data/spatial-data-cooperative-program-(sdcp)

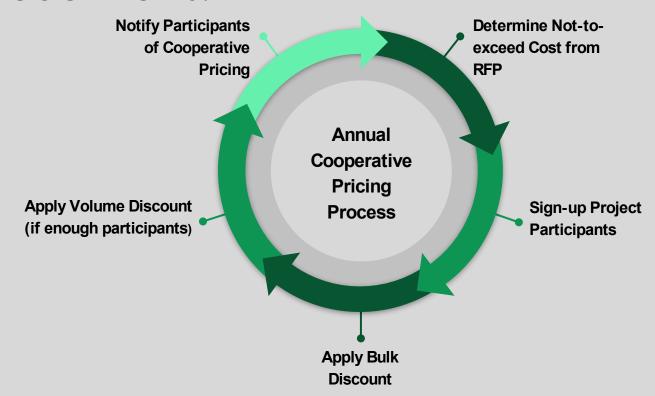
2018 to Present



Two Things That Make a Cooperative Model Work

Competitive Pricing and Strong Vendor Relationship

How the NCTCOG cooperative pricing model works:



Who We've Partnered With!



PIXXURES, INC













The Woolpert Way

Changing the Vendor/Client Relationship

About Woolpert



ARCHITECTURE



ENGINEERING



GEOSPATIAL



Woolpert at a Glance



1911 Founded in Dayton, Ohio



60+ Offices Worldwide



1600+ Global Employees





Jefferson Dity, MD Driendo, FL Oklahoma City, DK Richmond, VA

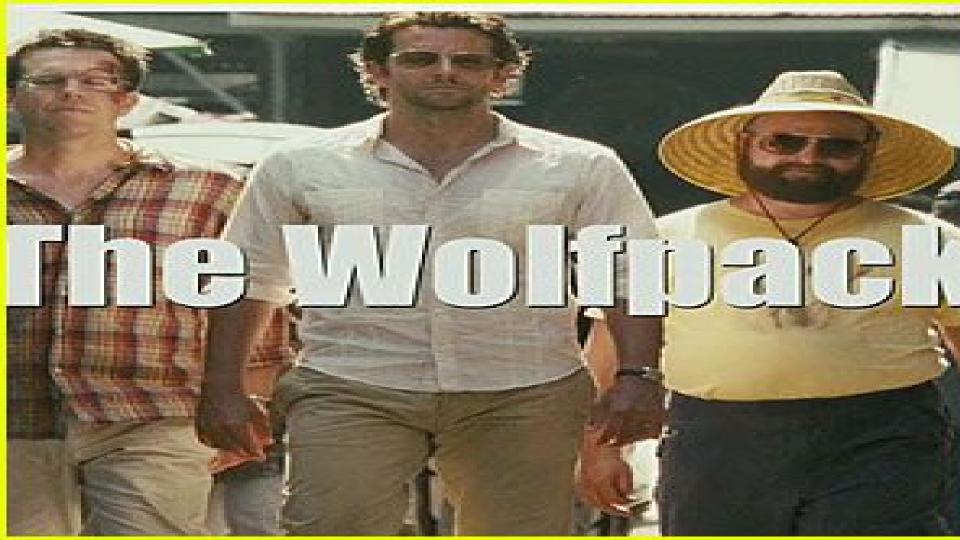
Virginia Beach, VA



WOOLPERT GEOSPATIAL CAPABILITIES







Thoughts on Partnership with Woolpert

The last 10 years have seen enormous growth. Lots of ideas for expanding the program. Added many new derivative products as regular offerings.

NCTCOG Buy-up Products

3D (or 2D) Planimetrics

- Buildings **
- Paved Roads
- Parking Lots
- Driveways
- Pavement Pads
- Sidewalks
- Unpaved Roads,
- Groups of Vegetation
- Hydrology

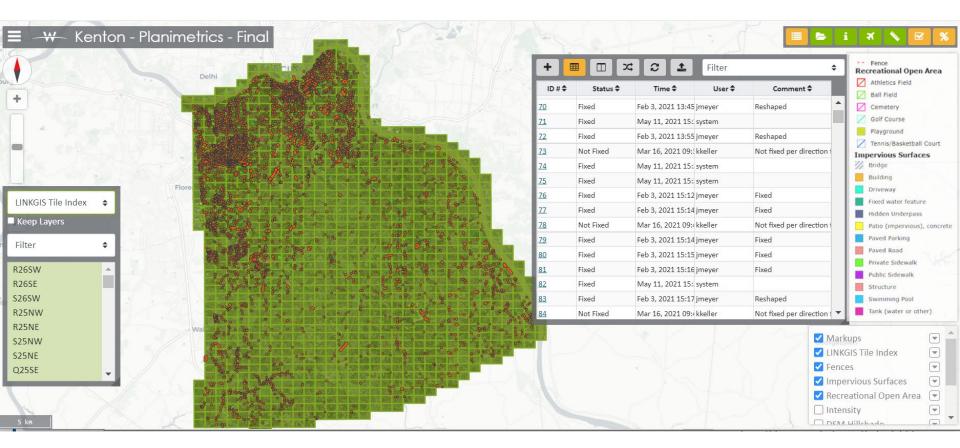
Orthoimagery

- 3-inch
- 6-inch
- Solar Mapping Potential
- Impervious Surface Mapping
- Change Detection
- Land Cover / Land Use

Thoughts on Partnership with Woolpert

Biggest additions - WMS QA/QC, Cloud Delivery

Smartview Connect - Online QA





Smartview Connect - Online QA









Delivery



Cloud Take-Aways

- No Login Required
- Use Existing FTP Software?
- More User Friendly and Familiar to ALL Users

Can transfer any type of data to any number of clients - Orthos,
 Lidar, Planimetrics, Contours

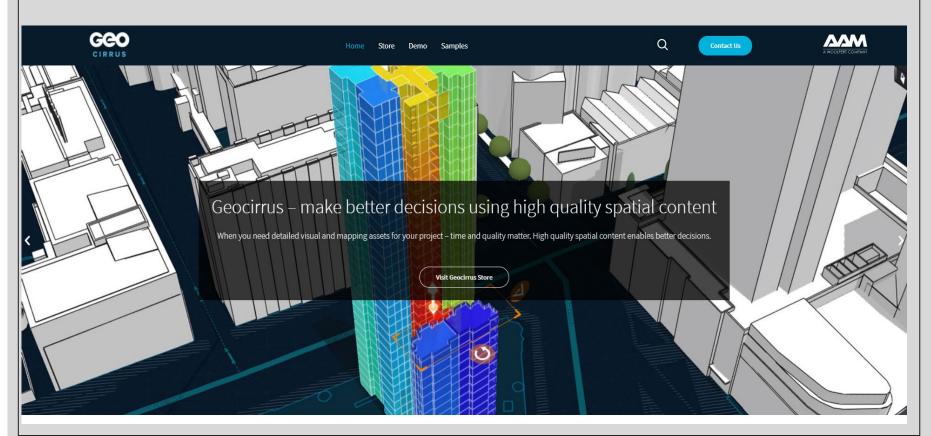


Moving Forward

For both Woolpert & NCTCOG



3D Mapping Platform



Geocirrus Platform



High resolution 3D Photomesh

Use Geocirrus to analyse, measure and plan using a realistic and spatially accurate representation of the real world.

Find out more



Realistic 3D city modelling

Explore the current status of the built environment in fine detail to enhance future design, construction and ongoing management.

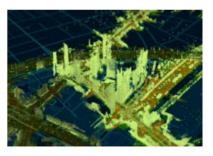
Find out more



Aerial Imagery

View comprehensive imagery of locations and assets that you can use to perform measurements of environmental and built features.

Find out more



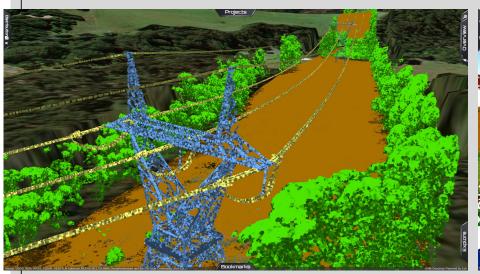
LiDAR captures

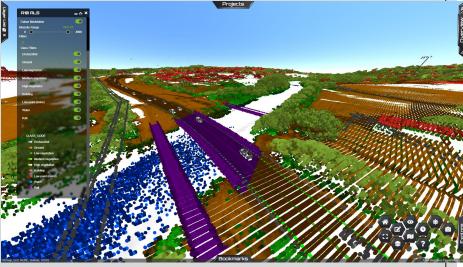
Detailed models of the earth's surface and buildings captured via LiDAR that provide you with high levels of height accuracy.

Find out more

Geocirrus Platform

Display LiDAR data by classification, elevation, intensity . . .





- Geocirrus Open, flexible, configurable platform
 - Handles all common lidar data and derivatives, including multiple collections for an area

Summary

- 3 Storage/analysis/visualization/dissemination for other raster and vector data
 - Use existing Esri licensing (or not). Manage in-house or use Woolpert-managed service.
 - Customize basemaps, overlays, tools.
 Brandable and accessible.

Thoughts on Partnership with Woolpert

Changed the vendor/vendee relationship. Much more communication & involvement throughout the year. More through communications between vendor and participants regarding existing products and potential new products.

The future of the program



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