KyFromAbove

Aerial Mapping Project Update

Project Overview, Status, & Data Sharing

*House Budget Review Subcommittee
on Personnel, Public Retirement, and Finance*

February 15th, 2023

Project Overview

Continue development of Kentucky's base mapping assets by using appropriated general funds ($8.5 million/year) to acquire statewide coverage of 3" resolution ortho and oblique imagery.

The imagery must meet the needs of the State Government, PVAs, and all units of local government.

The Commonwealth will own the imagery and there will be no use restrictions.

The imagery must meet or exceed specifications adopted by the Geographic Information Advisory Council (GIAC), drafted by the KyFromAbove Technical Subcommittee.

The imagery will be freely available to all units of government and those in the private sector.

A contract was awarded to Quantum Spatial/NV5 on June 29th, 2022. Two representatives from the Department of Revenue, two units of local government and multiple state agencies participated in the review of submitted proposals.

Procurement of a non-licensed product as per statute ensured the largest number of users will have access to and benefit from this data resource.

Project Overview: Return on Investment

Many units of government will benefit from having open access to this critical data resource. The imagery will be used to:

Design and build transportation, water, wastewater, and communication infrastructure.

Market the Commonwealth to investors and attract tourists.

Improve the situational awareness of our first responders.

Prepare for, respond to, and rebuild after disasters.

Improve land use and community planning.

Assess properties for the purpose of taxation.

Manage our public lands.

Greenup County 3" resolution

Project Overview: Local Governments

Kentucky's cities and counties will benefit from access to this rich data resource.

(The Haves) The units of local government that <u>have been able</u> to afford their own imagery over the years will no longer need to budget for imagery. This will have a positive fiscal impact on their operations.

(The Have Nots) The units of local government that <u>have been unable</u> to afford their own imagery will now have access to 3" leaf-off, ortho and oblique imagery for their jurisdiction. Kentucky's smallest communities will now have access to the same quality of data being used at LOJIC in Jefferson County.

Greenup County 3" resolution oblique

Imagery can only be acquired when the following conditions exist:

Leaf-off conditions

No cloud cover

No snow or ice on the ground

No flooding

Sun angle must be > 30º

Greenup County 3" resolution oblique
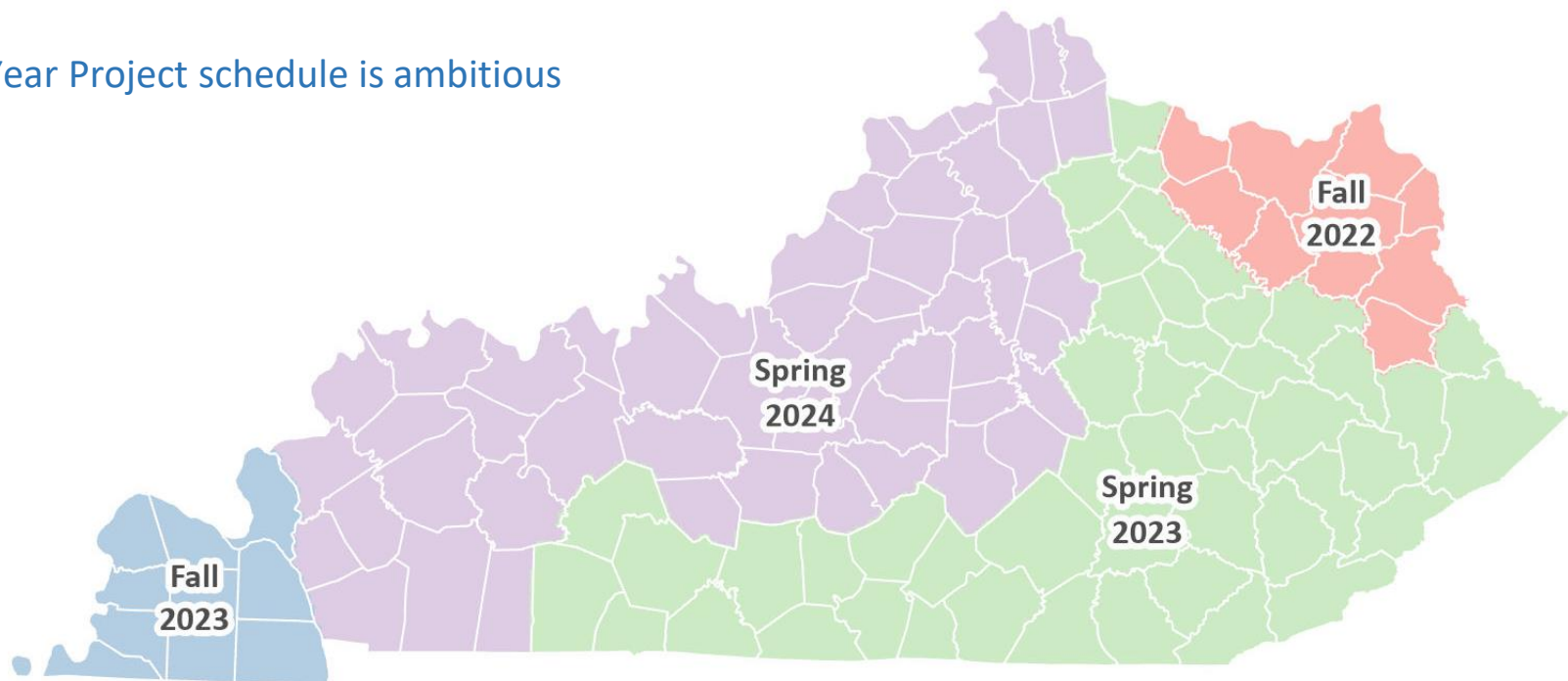
Project Status: Acquisition Planning

Year 1 Flight planning completed in October 2022 *(east to west progression)*

At least ten planes and sensors have been assigned to the project for 2023

Year 1 acquisition area covers 21,377 square miles *(Fall 2022 & Spring 2023)*

Flight plan includes 1,515 separate flight lines *(63,404 miles)*

Two-Year Project schedule is ambitious

Project Status: Year 1 Acquisition

Imagery acquisition commenced in mid-November 2022 within the **Fall 2022** area.
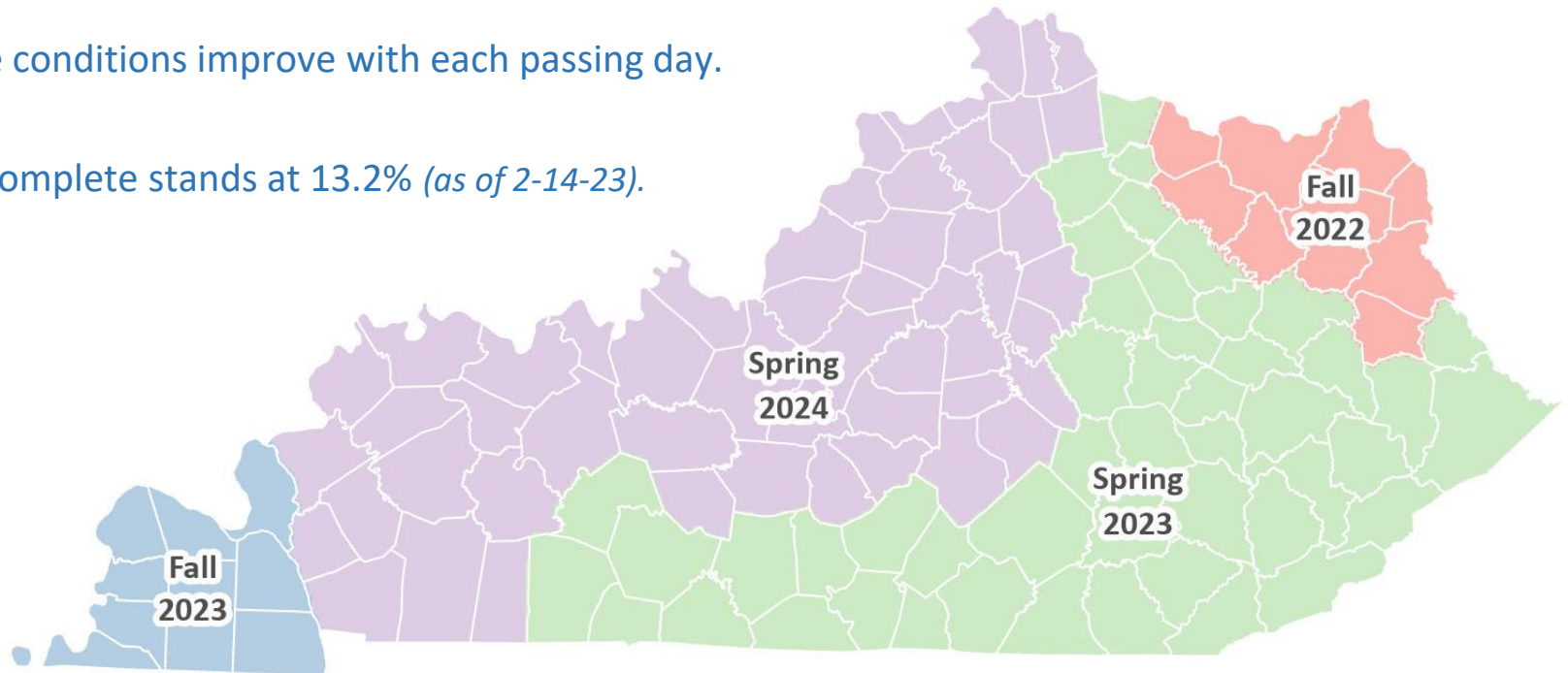
Five planes and sensors are currently positioned for the project.

More planes and sensors are being staged as weather conditions improve.

Flights have occurred on eleven different days *(as of 2-14-23)*.

Sun angle conditions improve with each passing day.

Percent complete stands at 13.2% *(as of 2-14-23)*.

GIS Data Sharing

The Commonwealth is a national leader in GIS and data sharing.

The imagery acquired through this effort will be shared freely with all units of government including Kentucky's PVAs.

As a public domain data asset, this imagery will be made accessible to citizens and the private sector.

Kentucky's PVAs have free and open access to the hundreds of GIS layers contributed by State and Federal Government agencies.

State Government agencies desire access to the PVA parcel data for internal use.

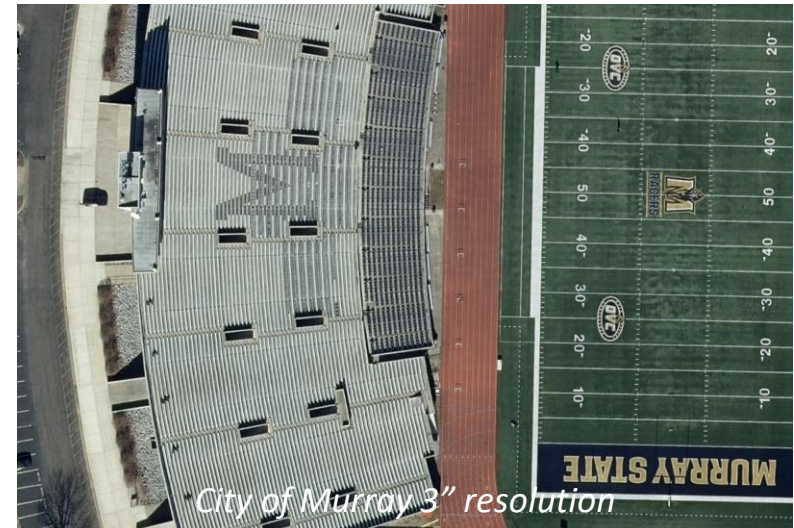**Cross agency data sharing and collaboration:**

Increases return on investment

Promotes fact—based decision making

Has a positive economic impact

Encourages civic engagement

Reduces duplicative spending

City of Murray 3" resolution

Questions?

Kent Anness

Division of Geographic Information

https://kygeonet.ky.gov/
https://kyfromabove.ky.gov/