

# Online Aerial Image Retrieval System

## Challenge

A county in US wanted to provide an efficient, user-friendly browser-based approach to obtain county's Aerial images for research and development activities by private and public firms. O.A.I.R.S. also serves to educate the public, on the many opportunities to explore the vast history and developmental changes within county through an aerial perspective.

## Solution

Two approaches were provided to use O.A.I.R.S. effectively: The first is for those individuals that know the area (Represented by YEAR and GRID MAP) they wish to obtain aerial photography

The second is for those individuals who have an idea where they need to look based upon a property site, but need further clarification to pick the right aerals. The interactive GUI consists of vector layers of the county i.e., its outline, Image section grids for various years (From 1926 till 2000), major roads, water bodies, municipal boundaries and zip code boundaries. All the years starting from 1926 till 2000 have Image Grids overlaid on the County Outline. When the user takes his mouse over the grid, information Viz., year, Image size, Image name, township range, scale, price, pertaining to that section Image grid is displayed as tool tip.

Online shopping feature helps users to buy these images, and choose shipping options. An invoice is generated and sent to the users address.

## Benefits

- Easy retrieval of images if the user is conversant with the geography of the location
- Online submission of the selected images to the shopping cart

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