PimaMaps Class Outline - Pima County Geographic Information Systems

What is PimaMaps?

- PimaMaps is Pima County's next generation of web mapping system that will eventually replace the current MapGuide system. It has a much different look and feel and offers more functionality and a modern interface that can be used with multiple operating systems. This allows us to expand the functionality of PimaMaps beyond what we were capable of doing before. MapGuide will remain available for a substantial amount of time while PimaMaps is fully implemented, including department specific customized maps.
- PimaMaps Classes
  - Class announcement
  - Scheduled Sessions
  - Class outline

PimaMaps web page overview:

- Tabs
  - Introduction
    - Functionality and enhancements that are not available with MapGuide:
      - Supported in multiple browsers – Internet Explorer, Safari, Firefox, Chrome, Mobile Android, IOS
      - Multiple basemaps to choose from including background reference maps, aerial imagery and topography.
      - Drill-down point identify – Results returned from all visible layers.
  - Maps
    - Main Map
    - Main - Mobile Version – The functionality is limited
    - The Loop
    - The Loop - Mobile
    - Department customized maps coming soon
  - FAQ's
    - Requires installation of Microsoft Silverlight viewer
    - Help questions
  - Training Videos
    - How To Videos
- Feedback form

PimaMaps user interface overview: See Video See FAQ

- Title
- Search for map features
- Online Help

- Toolbar or double click the Title Bar
- Base Maps
- I want to menu
- Zoom Slider
- Panel – On by default for additional information/notices can be added
- Disclaimer

    - Products are for illustration purposes only and are not suitable for site-specific decision making. Products have not been prepared for and are not suitable for engineering, or surveying purposes. Generally, Products do not represent on-the-ground surveys and rather represent the approximate relative location of boundaries and features.
    - To assist the County in the maintenance of the Products, Users are encouraged to provide the County information concerning errors or discrepancies found in using the Products.
    - It is recommended to read the full disclaimer.

- Map layers
- Map display
- Overview map
- Mouse cursor coordinates
- Scale bar

Basic navigation: See FAQ

- Using the keyboard and mouse: Note: On screen Keyboard (All Programs, accessories, ease of access)

    - Wheel - Zoom in and out
    - Arrow keys - Pan
    - + and – keys - Zoom
    - Hold mouse select button and move mouse around to pan.
    - Double click to zoom in by steps.

Search for Map features… See Video See FAQ

- General search

    - Parcel number "11711001C" Note: Not Case Sensitive
    - Address number "201" Note: Sort the results, multiple tabs retrieved
    - Street name "Stone"
    - Street name with direction "N Stone"
    - Street intersection "Stone Av"
    - Street number, direction and name "201 N Stone"
    - Full street address "201 N Stone Av"
    - Owner "Pima County"

    Note: Also Schools, Parks, Golf Courses, Township-Range-Section

The map layers and legend: See Video See FAQ

- Operational layers
  - Groupings - Development, Schools
    - Layers - Subdivisions, Development Plans, Schools by Class Level and Type
      - Context menus – Right or Left click
        - Layer Symbol
        - Visible Scale
        - Show Map Tips
        - Zoom To Extent
        - Metadata
        - Zoom To Visible Scale
        - Advance Filter – This uses a SQL statement (Schools, Class = Elementary)
  - Show Legend
  - Transparency - Admin Boundaries, Imagery
  - Update frequency:
    - Daily

- BaseMaps:
  - An image type map depicting background reference information such as landforms, roads, landmarks, and political boundaries, onto which other thematic information is overlaid.
  - Basemaps provide important background information and are typically overlaid with other map layers that represent operational information managed by a department and/or agency.
  - Basemap layers – GIS layers used:
    - Selected Unincorp Towns w/Labels: aztowns
    - County Boundaries: azcounty
    - AZ Urban: jurisbnd
    - Railroad Line: railroad
    - Streets: stnetdis
    - Major Wash: wash_maj
    - Modern Cultural Features: modcult
    - Parks: park_rec
    - Preserves: prot_bnd
    - AZ Owner: azowner
    - AZ Indian Res: ind_nat
  - Basemap Labels – Checked by default
  - Gray Canvas Basemap
  - Street Basemap – Checked by default
  - Topography Basemap
  - Imagery Basemap

- BaseMaps transparency adjustment.
- Update frequency
  - Weekly Note: Except imagery

- Filter / Find map layers “Subdivisions” “Streets” “Road” “Sewer”
- Legend – Also can right click layer

Orthophotos and other imagery : See FAQ

- What's an Orthophoto?:
  - Orhophoto is a computer-generated image of an aerial photograph or digital image where displacements have been corrected and has been projected to standard map projection to be spatially accurate.

- What are the different orthophotos?:
  - Latest Orthphoto Imagery is a composite image created from 2014 and 2012 Spring Pictometry, 2011 PAG (Pima Association of Governments Imagery, and 2010 NAIP (National Agriculture Imagery Program) Imagery.(2013 NAIP 1 meter resolution is all of Pima County, 2011 PAG 6 inch resolution is most of eastern Pima County, 2014 and 2012 Spring Pictometry 4 inch resolution includes Tucson and surrounding municipalities including Ajo.) Zoom in 1=300 min.

Map display and units: See Video

- Map display
- Overview map – Can be left open or close
- Mouse cursor units:
  - At the bottom left in the Map Display.
  - User can change Coordinate System display options.
    - Default – State plane feet
    - Web Mercator
    - Lat/Lon (DD) – Decimal Degrees
    - Lat/Lon (DMS) – Degrees Minutes Seconds
    - Lat/Lon (DDM) – Decimal Degrees Minutes

- Scale bar:
  - At the bottom left of the Map Display.

Toolbar tabs:

- Getting Around tab:
  - Navigation Tools:
    - Pan
    - Zoom in
    - Zoom out
    - Initial extent
    - Full extent
    - Previous extent
    - Next extent
  - Location Info: See Video See FAQ
    - Point identify
  - Information & Actions: See FAQ
    - Map Scale
    - Map Bookmarks:
      - Going to a bookmark.
      - Adding a bookmark. Note: Only remains for your profile.
      - Deleting a bookmark.
  - Help:
    - Online Help
    - What's This?
    - Contact Us Note: Use email link to add screen grabs.
    - FAQ
    - Help Videos
    - Metadata
- Maps & Data Sources tab: See Video
  - Map Layers:
    - Show Layers
    - Layer Drawing Order – Example: Schools, Census Blocks Density.
      Note: This can't be saved
  - Map Tips:
    - Enable Map Tips – **HINT: If Map Tips freeze uncheck and recheck**
      - Information
        - Multiple layers can be displayed
      - More Information
      - Oblique Aerial Photos
      - Add To Selected

            - View Additional Details

        - Display for… - Select the layers to show Map Tips for.

    - Query Data:
        - Simple Query – Example: PLSS Section Grid, Streets
            - TRS "E131313"

- Tasks tab:

    - Printing: See FAQ
        - Create a Printable Map
            - Select Layout template
            - Output Format:
                - Pdf, Tiff, Bmp, Gif, Jpeg, Png
            - Resolution
            - Map Scale
            - Grid (None) – This selection is not available at this time.
            - Add Title Above Map
            - Add Notes
            - Save the map or print it – Go over map (Note: Legend size is limited.)

    - Export:
        - Export Map
            - Select Image Format:
                - BMP, JPEG, PNG, TIFF
                - Include Georeference Data – The georeference data consists of a projection file and a world file. The georeference data is used to position your exported map image in the correct location on the existing map.
                - GIS software is required to use it.

    - Results: See FAQ
        - View Results
        - View Selected
            - View History Note: Stored only during current session.
            - View Results in Horizontal view or Vertical View by selecting icon in upper right corner of window.
            - View Selected
            - Refine Results
            - List View
            - Zoom to All
            - Export to CSV (Comma-separated values)Tabular Table
            - Select All
            - Select None

        - Context Box (Right click on result)
            - Refine Results
            - Hide Results From This Layer
            - Show Feature Details
            - Remove from Selected
            - Buffer Feature

    - Drawing Tools: Note: This will add to the Graphics Layer under Drawings
        - Style, Color, Size can be preset
        - Point
        - Freehand
        - Line
        - Polygon
        - Rectangle
        - Arrow
        - Circle
        - Ellipse
        - Triangle
        - Text
            - Advanced Label Options Note: Allows multiple lines of text.
        - Undo / Redo
        - Edit Drawing
        - Erase Drawing
        - Clear All Drawings

- Analysis tab:

    - Identify Tools: Note: Returns results of active layers.
        - Point
        - Freehand
        - Line
        - Polygon
        - Rectangle
        - Display for …. Note: This turns off and on layers being displayed
        - Buffered Identify Note: Adds to a Graphics Layers

    - Measurement Tools: See Video See FAQ
        - Measure Distance Note: There is no snap feature.
        - Measurement Info & Units
        - Measure Area
        - Add as Drawing Note: This will add to the Graphics Layer under Measurements
        - Erase Drawing
        - Clear All

    - Coordinate Tools:
        - Enter Coords Example: LAT/LON (DD) 32.2720, -110.9373
        - Plot Coords
        - Clear Coords
        - Clicked Coordinates
        - Coordinate System
- Custom Tools

    - Oblique Aerial Photos
        - Instructions to view Pictometry
            - Select Date
                - Only Latest Imagery
                - 2005, 2006, 2008, 2010, 2012, 2014
            - Layers Note: Public only sees (Streets and Place Names and US Parcels)
            - Tools Note: County only.
            - Hide annotation
            - Unpin all measurements Note: County only.
            - Export image to PDF
            - Dual Pane Note: County only.
            - Zoom In/Out
            - directional

I want to …:

- Shortcuts to common tools and tasks:

    - Create a printable map
    - Draw on the map
    - Measure distance
    - Share current map – Copies to Clipboard. Current map extent, visible layers and features they will see. Note: Open IE page and paste it. Must have PimaMaps to view.
    - Return to initial map extent
    - Turn map data on/off
    - Show/hide advanced toolbar
    - View results
    - View selected

Right click context menu in map display:

- Center Map Here
- What's here
- Draw a Point
- Add Some Text
- Export a Map Image
- Open Google Street View Here

Save and Open a project: See Video

- What gets saved?:
  - Extent, layers, graphics, …
- What doesn't get saved?
  - Measurements Note: Online help states that you can save measurements. It doesn't work at this time.
  - Layer order
- File extension
  - GeoCortex Viewer for Silverlight Project
    - .gvsp
    - Opens in PimaMaps.
- Open an existing project See Video See FAQ
  - Can be opened in new PimaMaps session.