Approaching UI for Mapping

Tyler Technologies UX Collaboration, August 2017

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Our Approach to Maps

"Citizen-Facing" (View-Only) Map

Purpose: Map focused on the presentation of data rather than its manipulation. May be a view-only map interface.

Tyler Products: Atlas

"Back-Office" Map

Purpose: Editable and searchable map focused on allowing user to access & manipulate data. Can exist as a standalone product or as an additional "panel" or feature in an existing program.

Tyler Products: TIM, EAM (Work Orders/Asset Registry), Energov, UB

Shared Styles

Principles for both mapping UI's

Navigational Tools

"Hamburger Menu"

List View

Detail Panel

Search Bar*

Basemaps*

Layers/Legend*

*With variations

Navigational Tools

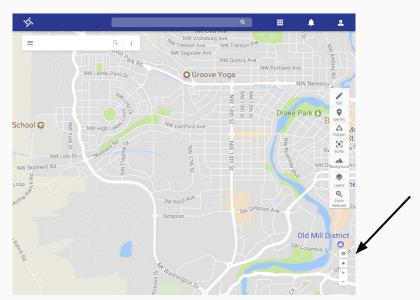
Functions

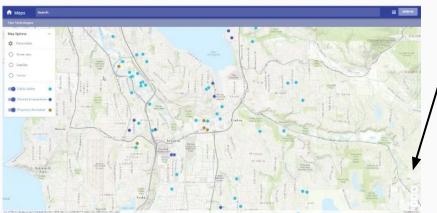
- Zoom in
- Zoom out
- Optional: Zoom "full"
- Optional: "Current Location"

Screen Location: Bottom Right

(will require Munis to change location, Energov to remove from their toolbar, general styling)







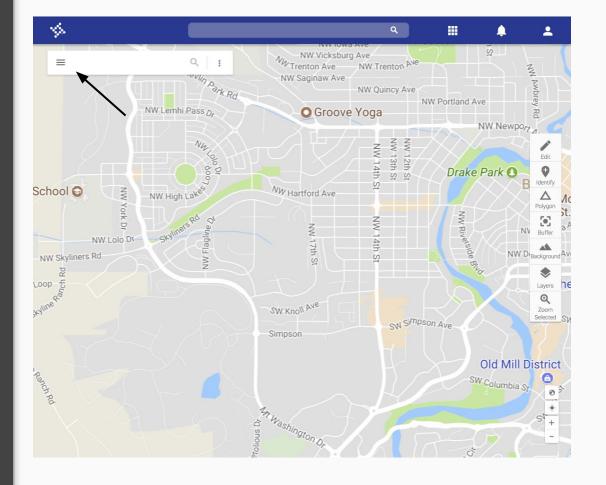
Hamburger Menu

Screen Location: Upper Left (Located in Search bar for Back-office applications, optional for Atlas)

Functions

- Settings
- Customize
- Basemaps (Availability)
- Print
- Export

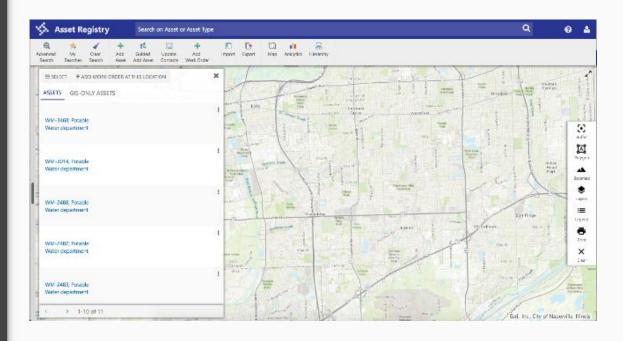
(will require Munis to add, Energov to change layer location and reallocate, general styling)



List View

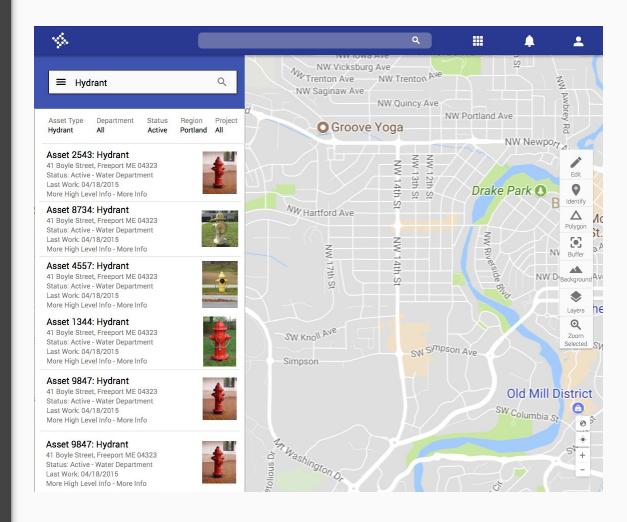
Atlas doesn't have this currently

Munis looks like this currently

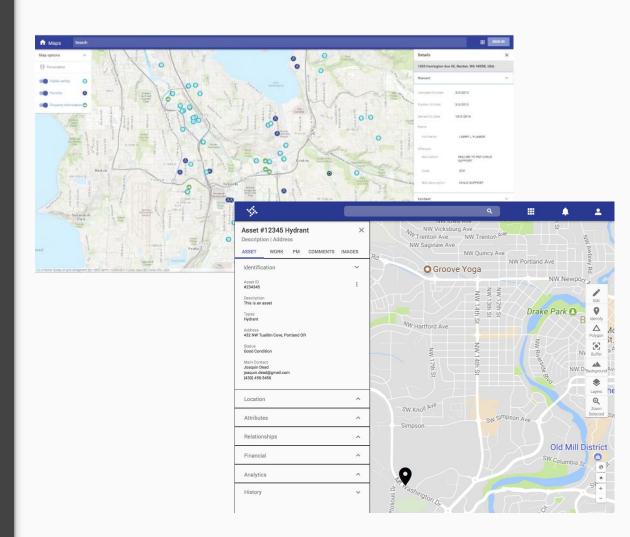


List View

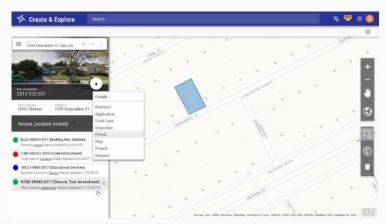
Future Vision for all products

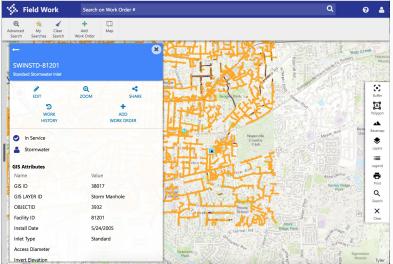


Current Style with Atlas

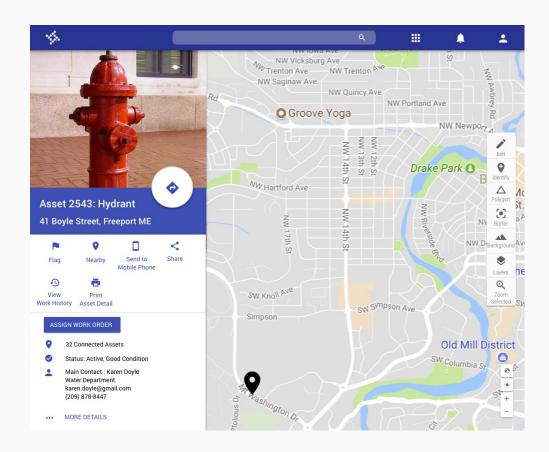


Current MUNIS/Energov

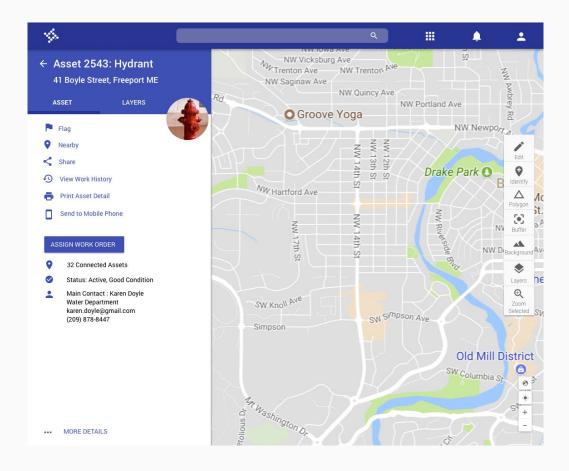




Future Vision



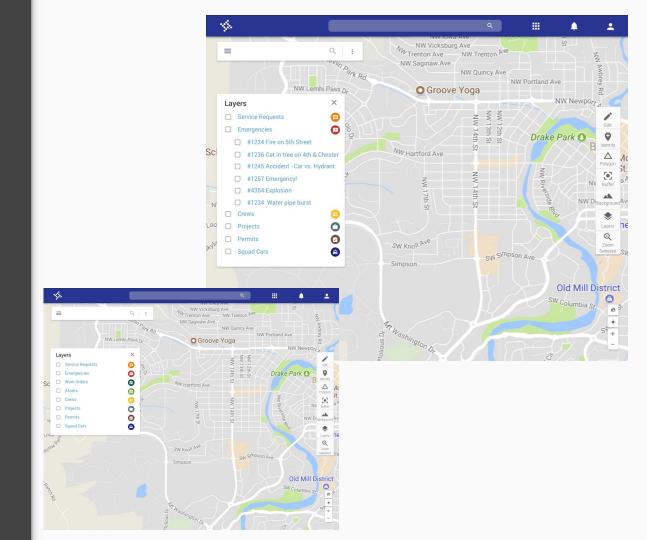
Future Vision



Layers/Legend

Screen Location:

- Option 1: Separate dialog
- Option 2: Same as detail panel?



Layers/Legend

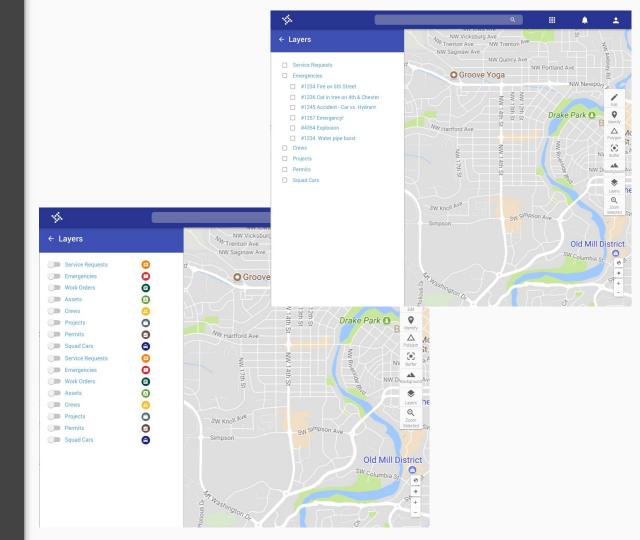
Screen Location:

- Option 1: Separate dialog
- Option 2: Same as detail panel?

Remove icons/colors on layers (at least for back office maps)

Toggles vs. checkboxes

Incorporate layers in legend, but dynamically



Basemaps

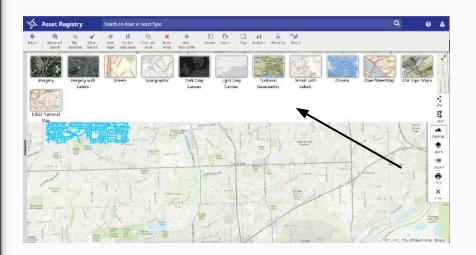
Optional

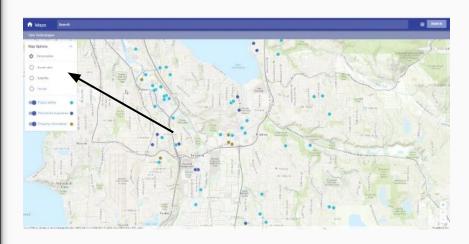
Basic

- Satellite
- Street
- Terrain

Others on a case by case basis

Design: Google Forms Example



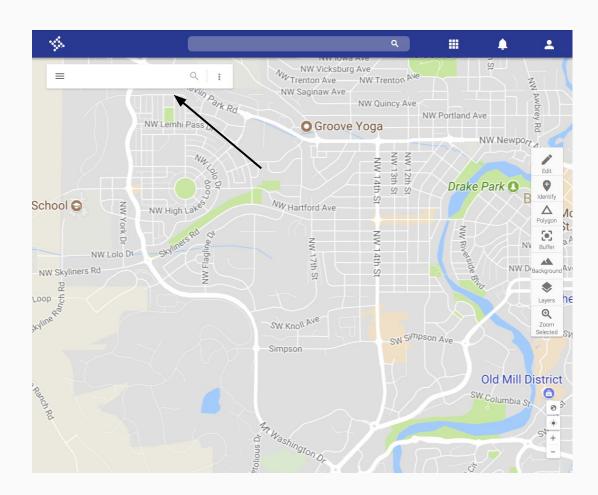


Search Bar

Optional

Styling

- Hamburger menu left
- Search icon right
- Actions vertical ellipse right



Toolbar

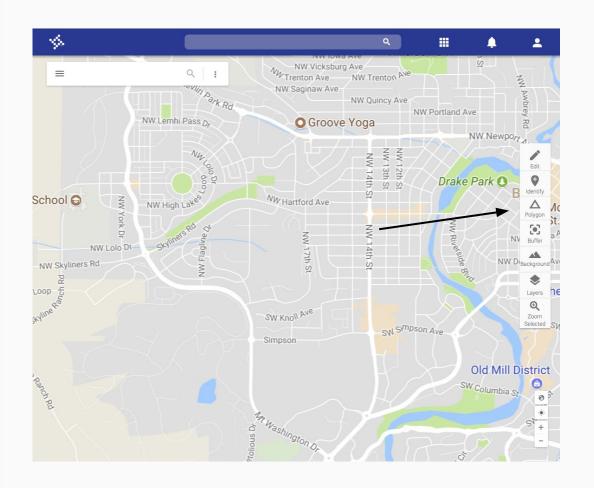
Optional

Basic Tools

- Identify (auto)
- Selection (Options: Polygon, Buffer, Freehand...)
- Layers
- Basemaps

Others on a case by case basis (Heatmap, Markup, Clear search/selection/manipulation)

Future: Adobe Example



Discussion Topics

- Generic tool options for back office maps?
- Responsive design and the use of side panels rather than dialog boxes?
- Other main functionality that we need to create styles for?
- General map interactions?
- Map types panel, standalone, embedded
- Symbology for the map lack of Material icons
- Can we create a cross-Tyler GIS/mapping confluence?
- What am I missing?

Resources

http://www.designingmapinterfaces.com/

Cross-Tyler GIS Confluence?

Kaila's Invision Mockups