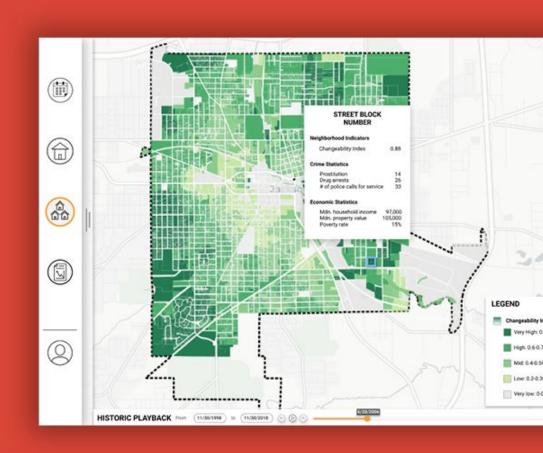
### DYNAMO METRICS

Redesigning an urban data repository platform

**UX RESEARCH & DESIGN** 



#### **THE PROJECT**

#### infoLab

formerly Design Clinic Semester-long consulting project

#### **Cross-functional**

3 \* UX designers 2 \* data scientists

#### **Local impact**

Public-private partnership between the client and city government

## How can Dynamo Metrics' data power optimize Jackson City code enforcement officers' daily inspection workflow?

#### THE PROCESS

#### Research

**Background research** 

**Heuristics evaluation** 

**Competitive analysis** 

**Contextual inquiry** 

#### Synthesis Ideate

**Personas & Scenarios** 

**Affinity diagram** 

**Workflow analysis** 

**Brainstorming** 

#### **Prototype**

**Individual design** 

**Critic & refine** 

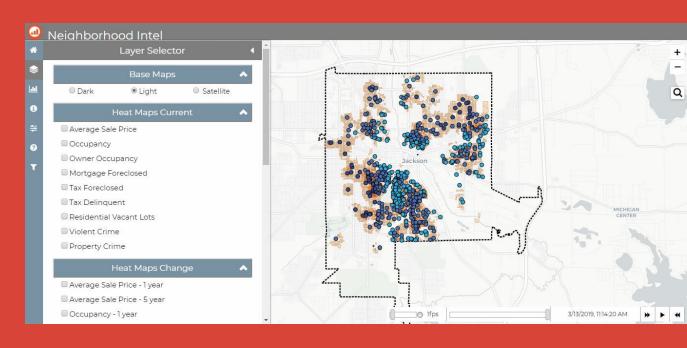
**BACKGROUND RESEARCH** 

# Getting started with the consulting project

Code enforcement responsibilities Client's past projects **Current** platform design

**HEURISTIC EVALUATION** 

What do not work well on the current platform?



Users need to rely on memory

Lack of legend panel on map

**Excessive elements** 

42 checkboxes

No system status

Playback bar and layer order

**COMPARATIVE ANALYSIS** 

# What do others have that could be learned?













#### **Special metrics**

Summative or predictive data

#### Officer

Need to identify blights efficiently and access data

#### **Administrator**

Need to access property data and support officers

#### **SYNTHESIS**

#### What do the users say?







#### Head

Need effective enforcement and make actual impact

#### Officer

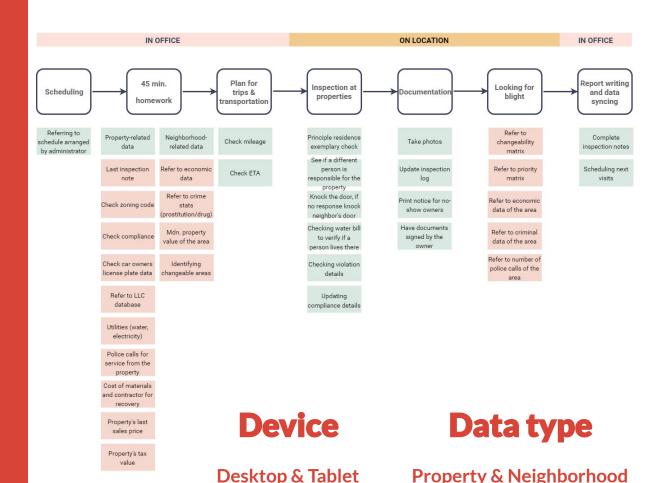
Need to identify blights efficiently and access data

#### **Administrator**

Need to access property data and support officers

#### **WORKFLOW ANALYSIS**

# A typical workday at the code enforcement team



## Low-fidelity prototype

#### Changes

- Add save location feature
- Move layer adding panel to the right
- Redesign the playbackbar

#### Adding Layers and Filtering

















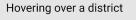


Locating a District











### **Summary on hover**

Show prioritization metric in a summative window when hovering over an area.

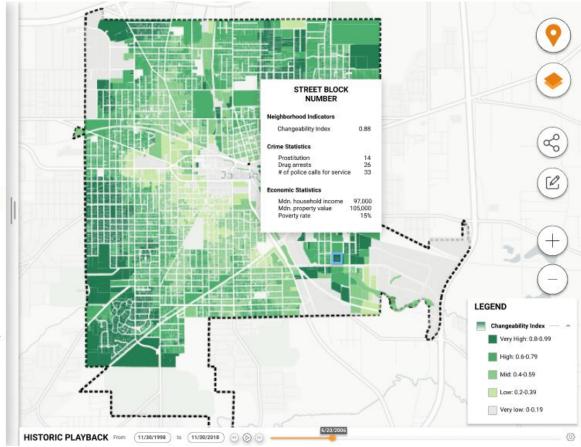












### Locate and save

Quickly locate an area and pin to save for future reference.

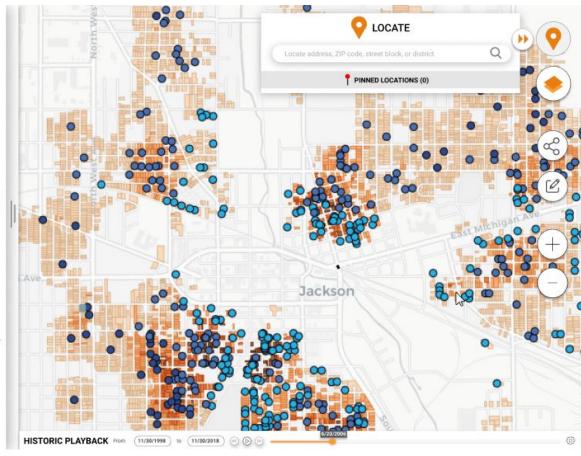






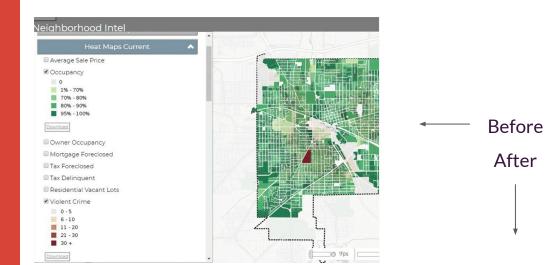


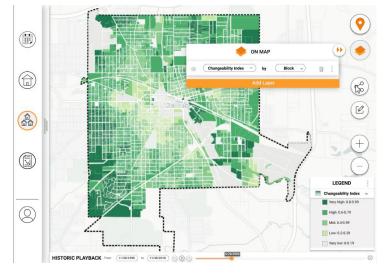




## New layer adding experience

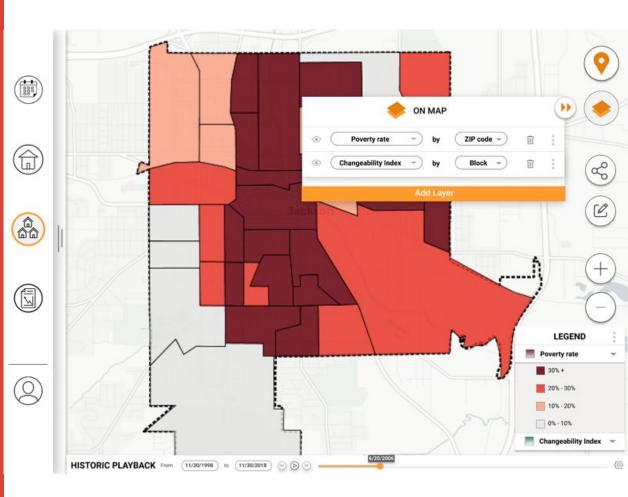
Keeping only needed data types and break down layer adding process to reduce visual distractions.





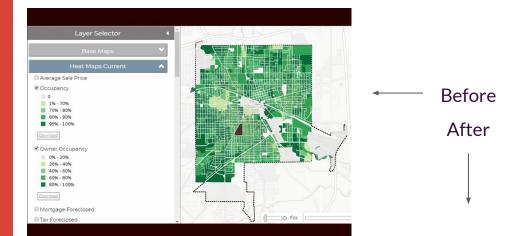
## Managing data layers made easy

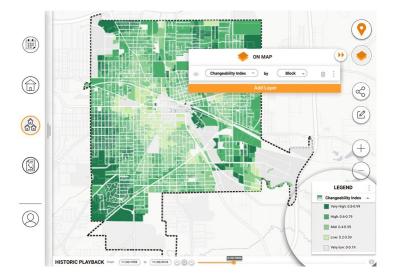
Clear overview of data types on map, with drag and drop feature to configure layer settings.



## Added legend panel

Add draggable legend panel for quick data interpretation.





#### Playback bar

Include starting and ending, as well as currently displaying points in time for quick trend tracking.



#### THE OUTCOME

The client is adding new summative data to their repository and changing design elements suggested by US.

I am also invited by the client to continue with the UX work.