

# **FBI CDE**

## **Sprint 3 Review & Sprint 4 Plan**

Jan 23, 2017

## Who we spoke with...

We conducted interviews with a range of prospective users to better understand how they wish to interact with the CDE.

Specifically, these tests focused on exploring design directions for the CDE homepage and refining approaches for the navigation and display of state-based crime data.



**CJIS Statistical assistant**

**Data reporters**

**Policy advocate**

**Data visualization engineer**

**State UCR program manager**

## KEY LEARNING OBJECTIVES:

- **What do users expect to learn from the homepage?**
- **Does the current design direction allow for easy navigation & interpretation of state-based crime data?**
- **How do users interpret the user of different data elements on the same page? (*SRS for trends, NIBRS for “incident details”*)**



## Homepage: Key learnings

People expect to see high-level trends from the homepage, not just a map for navigation.

Current crime hierarchy/list is confusing and needs refinement.

Users want to choose a crime and a location from the homepage.

Users felt like there was a missing “go” button.

Highlighting the API is important for users that may bypass the “explorer experience” and head straight for the data.



## Explorer View: Key learnings

Users responded positively to the basic navigational structure & design direction

The “overview” and census data sections need revision so they can provide better context for the rest of the page.

The use of multiple timeframes for the navigation and display of data is confusing.

Users weren't clear on the difference between the trend & incident details charts.

Participants that are familiar with the UCR program were concerned that they “mixed summary & IBR data”

### Incidents Details, 2014



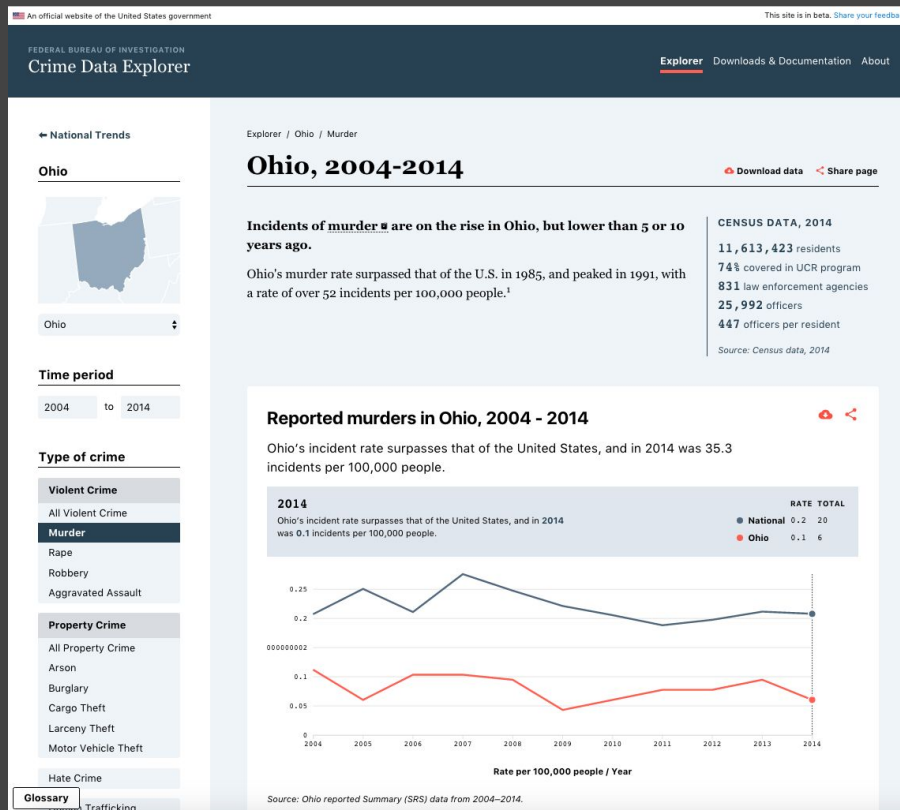
# EXPLORER DESIGN FEEDBACK: Navigation & Trend Charts

Map of state seems harder to decipher. Missing type ahead for location.

Confusion around time period. How do consumers know what data is available? What is a minimum time period? Is 1 year a better option?

Type of crime seems intuitive to consumers. Examine the duplication of "Violent crime" and "All Violent Crime".

Missing links to additional data sets available.



It's important for viewers to understand what agencies' data makes up the data they see.

Consumers confused by the overview sentence. Want participation to be elevated and potentially a list of agencies reporting.

Some census data is confusing. Consider integrating it into overview.

Overview provides opportunity to set the stage for NIBRS and SRS data being displayed.

Multiple downloads are confusing.

Total is hard to find and useful for reporters.

Only 1 person noticed the source for the data.

# EXPLORER DESIGN FEEDBACK: Navigation & Incident Detail Charts

Viewers would like to choose year and potentially attribute to view.

Need to provide better context around NIBRS data.

Viewers felt bar graph design wasn't appropriate for age.

Sorting % by total made more sense than alphabetically.

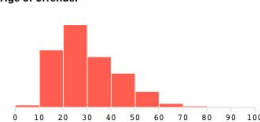
Viewers expect to be able to view table of data. Alternatively we can provide a link to download NIBRS tables closer to the display.

Law Enforcement  
Officers Killed and  
Assaulted (LEOKA)

## Incident details, 2014

### Offender demographics

#### Age of offender



In 2014, there were 29 incidents involving victims aged 90-99.

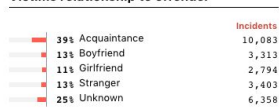
#### Race of offender



#### Sex of offender

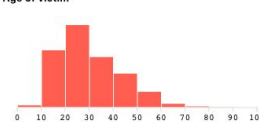


### Victims relationship to offender



### Victim demographics

#### Age of victim



In 2014, there were 29 incidents involving victims aged 90-99.

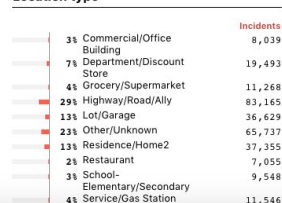
#### Race of victim



#### Sex of victim



### Location type



Viewers understood the interaction of rollover state and sentence below.

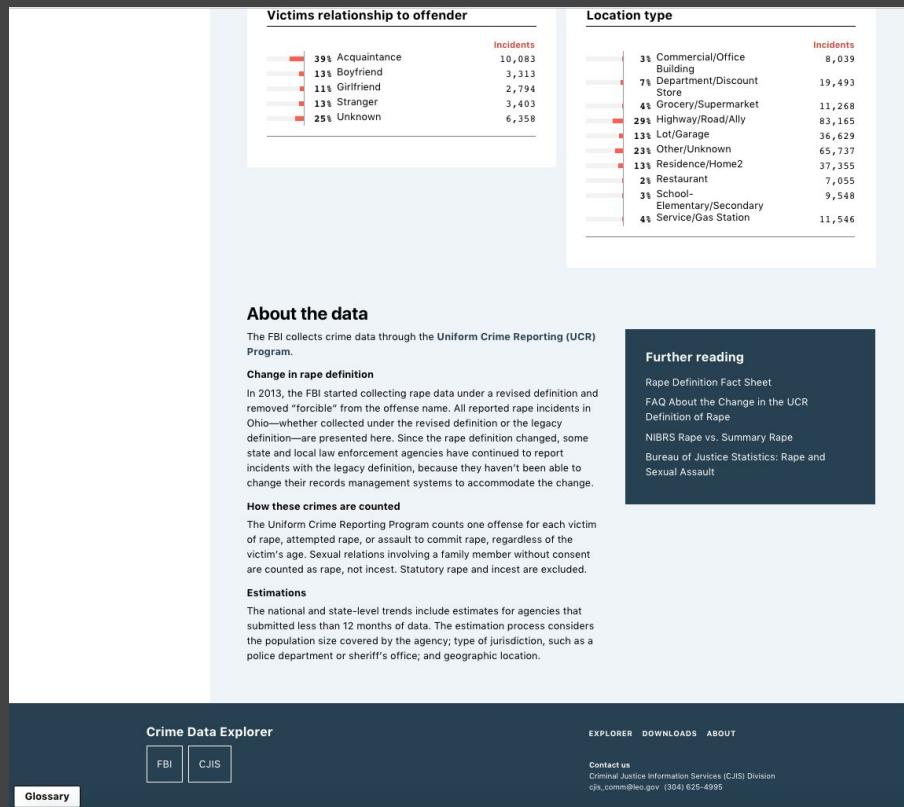
Sortable incidents was not discoverable.

Glossary

# EXPLORER DESIGN FEEDBACK: Context

Viewers responded positively to the “Further reading” section.

About the data is useful but needs to be explored more.





## TO DESIGN: TABLE VIEWS FOR SELECTED DATA TYPES

The CDE will provide **access** to available UCR data, but not all information will be presented in the same way due to the limitations of the data and the scope of the MVP.

For example, while the CDE will enable the exploration of major offenses at the national and state levels using charts and graphs, other data types, such as hate crime, will be presented as a table due to the lack of data available to generate a reliable trend. Other types of data, such as minor offenses and more granular geographical perspectives, will be accessible through data downloads and the use of the API.

How we can best provide access to these different data types will be an overarching theme for the remainder of the project.

Download

Bias Motivation

2015

Duis tempus tellus et sem commodo iaculis efficitur at orci. Nunc sed augue sed est bibendum lobortis. Pellentesque interdum efficitur lectus, at condimentum purus.

Show or hide columns

BIAS MOTIVATION	Incidents	Offenses	Victims	Known Offenders
TOTAL	5,850	6,885	7,173	5,493
Single-Bias Incidents	5,818	6,837	7,121	5,475
RACE / ETHNICITY / ANCESTRY	3,310	4,029	4,216	3,196
Anti-White	5,818	6,837	7,121	5,475
Anti-Black or African American	5,818	6,837	7,121	5,475
Anti-Asian	5,818	6,837	7,121	5,475
Anti-Native American Indian or Alaska Native	5,818	6,837	7,121	5,475
Anti-Anti-Multiple Races, Group	5,818	6,837	7,121	5,475
Anti-Native Hawaiian or Other Pacific Islander	5,818	6,837	7,121	5,475
Anti-Anti-Multiple Races, Group	5,818	6,837	7,121	5,475
Anti-Arab	5,818	6,837	7,121	5,475
Anti-Hispanic or Latino	5,818	6,837	7,121	5,475
Anti-Other Race / Ethnicity / Ancestry	5,818	6,837	7,121	5,475
RELIGION	1,244	1,354	1,402	809
Anti-Jewish	5,818	6,837	7,121	5,475

Source: Ohio reported [Summary \(SRS\) data](#) from 2004–2014.

# Looking Ahead (Sprint 4 & Beyond)

## FOCAL AREAS FOR SPRINT 4:

- **Refine designs based on user feedback**
- **Iterate on homepage & explorer views** - *enable the display of national trends, simplify use of timeframes in the navigation & presentation of data, more clearly explain the difference between trend & incident-based charts, allow for the downloading of selected data as a CSV.*
- **Enable the display of programmatically-generated content & begin adding caveats based on last week's workshop**
- **Continue integrating backend services with the design to support the dynamic display of data.**

## GETTING TO AN MVP

In December, 2016 18F presented its findings from the discovery phase of the project and outlined a vision for the CDE MVP, with the expectation being that the product would continue to evolve after an initial release based on ongoing user and stakeholder feedback. ***This vision calls for a flexible solution that allows law enforcement and the general public to explore SRS & NIBRS data at the national and state levels, while provide access to additional details through downloads and an API service.***

The team's current focus is on implementing the features and functionality needed for this first release in March, 2017. While our research has uncovered many opportunities for the CDE, our immediate focus is on delivering a "quick win" that meets core user and business needs and sets the stage for shaping an end to end system.



<b>Sprint 1</b> (12/7-12/20)	-Put technical foundation in place -Ready preliminary designs
<b>Sprint 2</b> (12/21-1/3)	-Explore data download experience -Prepare core ATO documentation
<b>Sprint 3</b> (1/4-1/17)	-Build UI framework and navigational structure for the Explorer View
<b>Sprint 4</b> (1/18-1/31)	-Build Homepage -Refine Explorer View -Develop context and caveats for results
<b>Sprint 5</b> (2/1-2/14)	-Complete major integration work -Add "about the data" section -Enable data downloads -API documentation
<b>Sprint 6</b> (2/15-2/28)	-Minor enhancements -Prepare for launch

## HIGH-LEVEL PRODUCT ROADMAP

NOW (MVP)	SOON (POST LAUNCH)	FUTURE
View summary trends and incident data for major offenses at the national and state levels.	Expand the “explorer view” to include more granular geographical perspectives, such as counties. Consider adding new offenses.	Assist in the migration of content from the existing UCR website to the CDE.
View programmatically-generated content that provides context for results.	Explore opportunities for tighter integration of the CDE & new UCR to facilitate more frequent data updates.	Explore opportunities to include additional datasets that were not a focus of the MVP.
Download and share results.	Expand capabilities to search for and download pre-prepared data sets. Consider the value of a custom report builder.	Explore ways to elevate the role of NIBRS data in the CDE, as the volume of IBR improves
Access additional details and data through select downloads and the API.	Create a tool that allows users to provide feedback about the CDE & file reports about data quality issues.	Explore the value and key characteristics of a potential content management system (CMS).