FBI CDE

Sprint 5 Recap & Sprint 6 Plan

Feb 16, 2017

18F

MVP PRIORITIES

The focus of the MVP to be delivered in March is the Explorer View, which allows users to view high-level trends (SRS) and incident (NIBRS) data at the national and state levels.

- View trends and incident details by state, crime type, and timeframe.

- View national trends & IBR data by crime type and timeframe.

- View programmatically-generated content & caveats to explain results.

- Download trend and incident data that is presented in the explorer view as a CSV.

- Download bulk NIBRS data and other reports, such as LEOKA and arrest data, as a CSV.

- View UCR participation rates & related census/police data for a given location.

- Access the explorer experience on a mobile device.

HOW WE GET THERE

Sprint 1 (12/7-12/20)	Technical foundation Ready preliminary designs
Sprint 2 (12/21-1/3)	Explore "download experience" Ready core ATO documentation
Sprint 3 (1/4-1/17)	Explorer View foundation (basic UI & navigational structure)
Sprint 4 (1/18-1/31)	Add homepage Explorer View (integrate selected crime data, UI/UX refinements) Complete ATO assessment Establish content to explain results
Sprint 5 (2/1-2/14)	Explorer view (complete major integration work, UI/UX refinements) Enable download of SRS/NIBRS data Add caveats, contextual refinements "Downloads & documentation" View
Sprint 6 (2/15-2/28)	API Documentation Build "About the CDE" Prepare for launch/beta testing

This table outlines how the team plans to build the CDE MVP, by starting with the implementation of core functionality, followed by refinements and additional functionality to round out the visual design and user experience. It shows the broad focal areas for each sprint and sets a trajectory through March.

Enhancements

Refinements

Core functionality
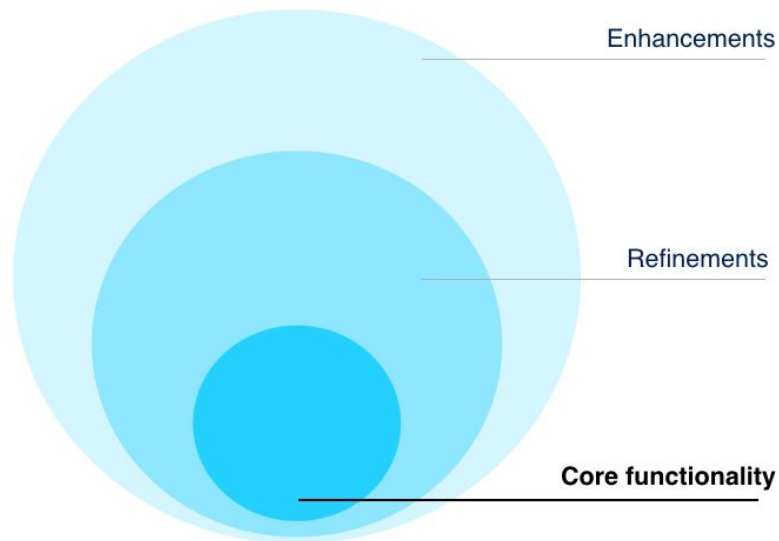
Sprint 5 Recap

- **Continued API integration work, wiring up most offenses to support queries**

- **Enabled the downloading of queried data and bulk IBR data sets as a CSV**

- **Developed content and design for the About page**

- **Refined auto-generated content in the Explorer view to more clearly explain results**

- **Made UI/UX refinements to the explorer view and homepage based on user testing**

CDE ABOUT

CDE description should focus on making data more easily accessible.

Need to include a list of offenses and link to definitions.

Data is provided by states on a voluntary basis and is not estimated in the CDE.

Results will vary from CIUS reports.

Chain of custody for data?

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Crime Data Explorer

Explorer   Downloads & Documentation   About

About the Crime Data Explorer

The Crime Data Explorer makes the nation's crime data accessible to the public by providing dynamic views of the data as well bulk data downloads.

The data featured comes from the Uniform Crime Reporting (UCR) program, which is managed by the Federal Bureau of Investigation. The datasets included are:

- Summary statistics (SRS)
- Incident-based data (NIBRS)
- Law Enforcement Officers Assaulted and Killed data
- Hate Crime

Crime Data

Law enforcement agencies report crime data to the FBI using two different mechanisms: summary statistics and incident-based data reports. The goal is for every law enforcement agency to eventually begin reporting incident-based data reports.

Uniform Crime Reporting Participation

- 16 States
  Incident data only
- 18 States
  Incident and Summary data
- 14 States
  Summary data only

Somewhere describe what the MVP does and doesn't do.

Could emphasize that data is not definitive.

CDE is about providing a "picture of crime"

Clarify source for Hate Crime data.

Provides a window into the data - can only show what we have.

CDE ABOUT

Map is valuable but needs year.

Lots of comments about Alabama. Good or bad?
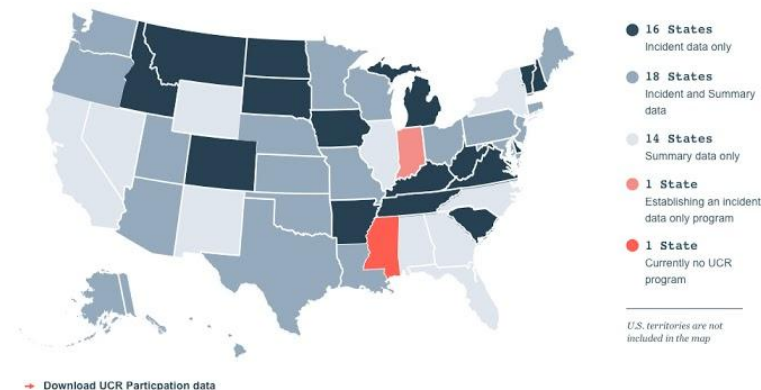
How the data is collected

Define group A and B offenses (LINK?).

NIBRS documentation should link to manual, definitions, and map.

Maybe this sentence about characteristics of the state of the data and data collection.

Do report data, but don't report to UCR.

Crime Data

Law enforcement agencies report crime data to the FBI using two different mechanisms: summary statistics and incident-based data reports. The goal is for every law enforcement agency to eventually begin reporting incident-based data reports.

Uniform Crime Reporting Participation

- **16 States** Incident data only
- **18 States** Incident and Summary data
- **14 States** Summary data only
- **1 State** Establishing an incident data only program
- **1 State** Currently no UCR program

U.S. territories are not included in the map

→ Download UCR Participation data

New UCR

The New UCR will improve the accuracy and timeliness of the crime data collection and delivery process. The national UCR Program plans to have the new system fully operational in 2017.

[View Details]

UCR Archives, Reports, and Publications

An annual publication, containing a compilation of the volume and rate of violent and property crime offenses for the nation and by state (pre-Crime Data Explorer).

[View Details]

NIBRS Documentation

NIBRS data includes all offenses within a single incident and additional aspects about each event, like location, time of day, and whether the incident was cleared.

[View Details]

CDE ABOUT

Cut how we build or make more relevant to users. Could consider - what's next or rough product roadmap, what to expect from an MVP.

Contact us should include links to who to contact for data questions vs. app questions.

How We Build

Work iteratively.

Commodi nulla enim tincidunt praesent felis cum. Metus dolorem donec eu placerat, mauris iaculis quam lobortis pulvinar feugiat, optio tellus ac vitae aliquam. Malesuada diam vestibulum mollis.

Submit Feedback

Design for people.

Commodi nulla enim tincidunt praesent felis cum. Metus dolorem donec eu placerat, mauris iaculis quam lobortis pulvinar feugiat, optio tellus ac vitae aliquam. Malesuada diam vestibulum mollis.

Become a Beta Tester

Work in the open.

Commodi nulla enim tincidunt praesent felis cum. Metus dolorem donec eu placerat, mauris iaculis quam lobortis pulvinar feugiat, optio tellus ac vitae aliquam. Malesuada diam vestibulum mollis.

Go to Repo

Contact Us

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www.cjuis.gov

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@FBI

GitHub

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Criminal Justice Information Services (CJIS) Division

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- **Are consumers able to understand the results of their query? What factors affect their ability to interpret it?**

- **What information is useful when downloading incident-data? Does the UI make sense?**

- **Is information about UCR participation valuable to consumers?**

- **What information do consumers expect to find on the About page? For those already familiar with the CDE, what are their current expectations for the product?**

Who we spoke with...

18F and CJIS team members participated in interviews with a range of prospective users to better understand how they wish to interact with the CDE. Specifically, these tests focused on refining the Crime Data Explorer and designing the About page.

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UCR State Program Manager

Data reporter

Data journalist / advocate

KEY INSIGHTS FROM USABILITY TESTING

- Consumers are enthusiastic about what they see. Maps and visualizations make the data more accessible.

- Our current approach for downloading bulk incident data appears to be working. Savvy users are familiar with working with large data sets in this way.

- Some users have misconceptions about the purpose and goals of the CDE. Specifically, a UCR program manager thought the CDE would show "real-time" data and leverage geo-tagging - neither is planned for the CDE.

- The stability of the app is impacting our ability to test with users. This is because the team has been focused on developing new features as quickly as possible. We need to prioritize some time over the next few sprints for improving stability and performance.

- As the data becomes more readily available through the CDE, we are likely to encounter more data quality issues & obvious differences between what is presented in the CDE & what exists in the CIUS publications.

- **Messaging for the CDE:**
  - The data we show is only as good as what we have. Also, it only consists of reported crimes only and is not definitive.
  - Expect differences between what is in the CDE & what is published in the CIUS reports.
  - Need to explain who participates in the program & how this affects results.
  - There's room to improve how we explain the purpose of UCR and the voluntary nature of the program
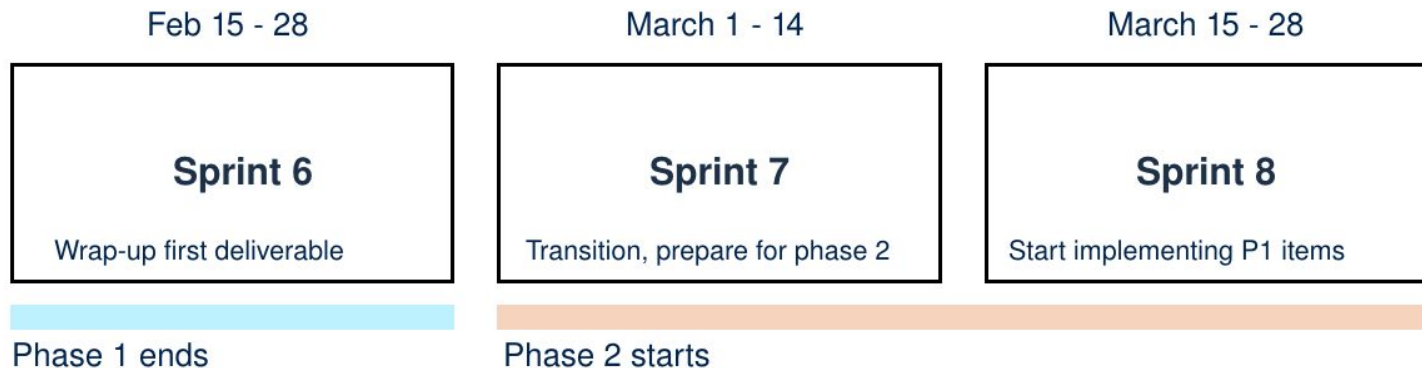
- **Downloads:**
  - For bulk downloads, the incident ID # is an important anchoring point for analysis
  - NIBRS link should include resources: manual, definitions, map
  - Need description about bulk downloads but not necessarily joining by pivot tables
  - Include a data dictionary and common pitfalls interpreting the data

Sprint 6 Plan

FRAMING FOR SPRINT 6

Sprint 6 is about wrapping up core functionality & preparing the CDE for initial beta testing. As the last 2-weeks before the next scope of work starts, Sprint 6 will be followed by a "transitionary sprint" that helps us plan out a strategy for launch and prioritize features for the months ahead. Feature development will start again in Sprint 8.

Feb 15 - 28	March 1 - 14	March 15 - 28
Sprint 6 Wrap-up first deliverable	**Sprint 7** Transition, prepare for phase 2	**Sprint 8** Start implementing P1 items

Phase 1 ends

Phase 2 starts

SPRINT 6 PRIORITIES

- **Complete remaining integration work so all datasets may be queried at the national and state levels.**

- **Address critical issues that may affect future testing:**
  - Improve the ease of selecting an expanded time range (beyond 10 years) for a query
  - Fix an issue where revisiting the homepage without changing locations causes the application to crash
  - Allow API requests to time-out gracefully
  - Ensure that trend chart data presents data accurately based on what is provided by the API

- **Build a basic version of the About Page that provides context for using the CDE.**

- **Allow users to download "other data sets" as a CSV from the Downloads & Documentation view.**

- **Add a "no data" state for scenarios where no is available for a query (such a state with no NIBRS reporting)**

- **Selected enhancements for the Explorer View (time permitting/prioritized)**
  - Implement related links & downloads (i.e., UCR participation data) for state-based queries
  - Add special handling for rape trends
  - Add new designs for incident detail charts

LOOKING AHEAD (PHASE 2 APPROACH)

March	April	May	June	July	August	September

**Test MVP &
Prepare for Launch**

Launch & Evolve the CDE

Transition

**Phase 2
Kickoff**

■ Prioritization workshop for phase 2   ■ Launch target date of May 15   ■ Mid August: end of major development

**Beta
Testing**

Implement P2 & P3 priorities & respond to user feedback

**Support transition
of CDE to FBI/CJIS**

**Implement highest
priority items (P1) prior to launch**

**Develop marketing & communications
strategy for launch**

90-day LATO

Long-term ATO

Design options

National, state, and local crime data

The FBI collects and publishes Uniform Crime Reporting (UCR) data on an annual basis. This project is part of our ongoing efforts to improve the accuracy and timeliness of the nation's crime statistics.

Explore by type of crime and location

| United States ⌄ | Crime Types ⌄ | View Results |

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Crime Data Explorer

Home   Explorer   Downloads & Documentation   About

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