

FBI CDE

Sprint 13 Recap & Sprint 14 Plan

June 9, 2017

AGENDA

- **Sprint 13 recap**
- **Sprint 14 plan**
- **Questions & action items**

Sprint 13 recap

DELIVERING THE AGENCY PERSPECTIVE

This sprint we delivered the “agency perspective”, which allows users to **view local crime data within the context of state and national trends. We also improved the data made available for download via the CDE.**

View our latest release here:

<https://crime-data-explorer-demo.fr.cloud.gov/>

View our release notes here:

[API release notes](#)

[Front end release notes \(v2.6.1\)](#)

SPRINT HIGHLIGHTS

- **Search and view agency data by keyword, ORI, and county.**
- **Download revised human trafficking & cargo theft datasets**
- ****Download bulk incident data by state and year***
- **Revised the formatting of police employee & LEOKA datasets**
- **Updated footer with FBI/CDE logos and related links**
- **Multiple bug fixes, design & content changes.**

*The process for generating these files is ongoing. We expect to complete it early next week, but in the meanwhile, I've included a sample with this report.

**For a full list of changes this sprint, please see the "release notes" on the previous slide.

What we heard

Key insights

Recurring themes...

Overall, CDE delivers a user-friendly experience.

Users want timely data and to make comparisons and benchmark with CDE data.

The public is interested in crime data that is relevant to them—"my neighborhood", "last 3 months", and "safer neighborhoods".

CDE is not a replacement for local crime data for law enforcement or the public but they are interested in using CDE data to benchmark.

The CDE clearly communicates the voluntary nature of the UCR program and the FBI's role.

Insights aligned with learning objectives

Users are able to **find what they are looking for** using agency search.

Users understand the **difference in data displayed in the state and agency view** and know how they would compute rates out of the CDE.

Users of crime data are influenced by and looking for **"hot button" issues** of the day—ethnicity is critical as is immigrant status, gun violence, and drug offenses.

Users familiar with NIBRS expect that **more crime types will be available eventually** (CDE MVP can and should be evolved over time).

Broader considerations

Program officials hope that improved accessibility and visualization of data will encourage broader participation in the UCR program.

More visibility into the demographics of crime will lead to better research, debate, and policies.

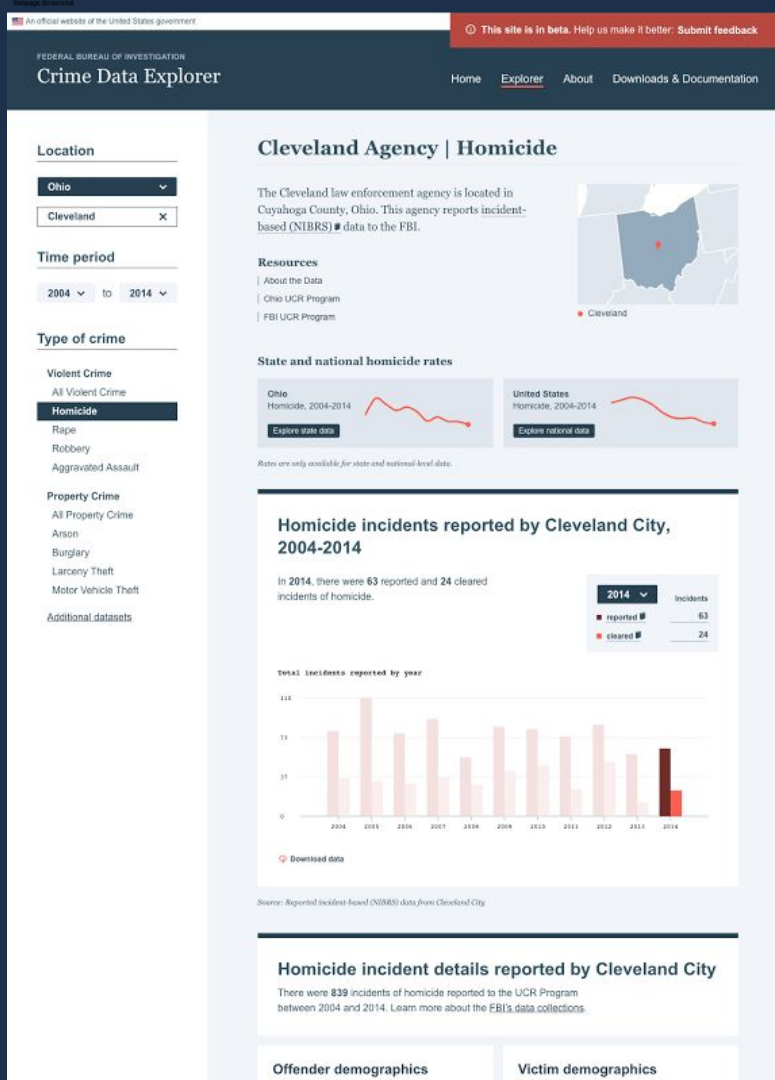
An open source application and API will broaden the reach and impact of UCR data and reflect positively on the FBI.

Experts advise designing and building for maintainability in terms of data updates & changes to the platform.

Agency view

Content: Provide alternate sentence for SRS agencies. Refer to offenses, not incidents.

When no data is available, edit alert to refer to offenses when applicable.



Remove map pin until we have time to implement it in the center of the agency's primary county.

Users appreciated the cleared vs. reported but it added to confusion about meaning. Clarify definitions.

Navigation

Agency search box isn't immediately discoverable or usable. Explore ways to make it more usable.

Location

Ohio ▼

Search for an agency ▼

Time period

2004 ▼ to 2014 ▼

Type of crime

Violent Crime

All Violent Crime

Homicide

Rape

Robbery

Aggravated Assault

Property Crime

All Property Crime

Arson

Burglary

Larceny Theft

Motor Vehicle Theft

Additional datasets

Location

Ohio ▼

Search for an agency ▼

Results

ADAMS

Winchester

West Union

Seaman

Peebles

Manchester

Adams County

ALLEN

Marion Township

~~Deer Township, Allen County~~

All Violent Crime

Homicide

Rape

Robbery

Aggravated Assault

Property Crime

All Property Crime

Arson

Burglary

Larceny Theft

Motor Vehicle Theft

Additional datasets

Need a "No results" found state for search.

Consider a new term for "unspecified" counties.

CJIS to decide if we should display federal agencies.

Improve usability by closing dropdown when clicking out of box.

Check data integrity: Validate that agencies are mapped to the correct county from the database.

Homepage

 An official website of the United States government

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Crime Data Explorer

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National, state, and local crime data

The FBI collects and publishes Uniform Crime Reporting (UCR) data on an annual basis.

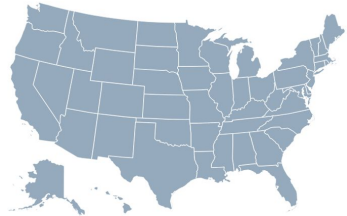
Over 18,000 law enforcement agencies across the country voluntarily participate in the program by submitting data through a state UCR program or directly to the FBI. This open data project is part of our ongoing efforts to improve the accuracy and timeliness of the nation's crime statistics.

Explore by location and type of crime

Location

All Violent Crime

View results



Data downloads

Hate Crime

See totals by state, year, and bias motivation for hate crimes across the country from 1991–2014.

Assaults on Law Enforcement Officers

See totals for officers who were killed or assaulted in the line of duty from 1974–2014.

Police Employee Data

See how many full-time sworn and civilian law enforcement employees have served in your state from 1960–2014.

See all downloads

Crime data API

Use our data in your project

We recently released the FBI's first crime data [application programming interface \(API\)](#) so you can use this data in your own research and investigations.

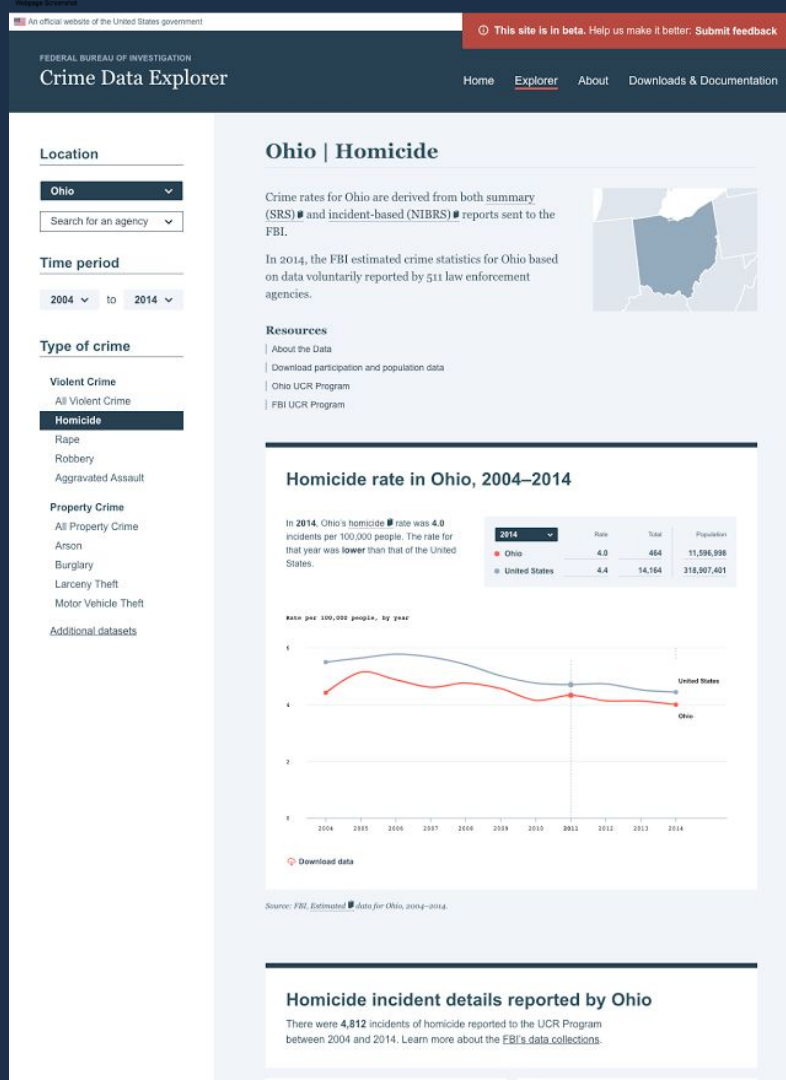
See API documentation

Content: Address accessible vs. open data. Make it clear that agency data is searchable through states. Highlight that NIBRS and SRS data are available and the years available.

Explore a NIBRS vs. SRS label in the state map.

Users wondered if there were more data downloads. Consider which datasets should be highlighted.

State view



Content: Number of agencies is confusing with estimated data explanation.

Glossary link for estimated data missing.

Add label on map of the state name.

Consider placement of the line labels when implemented revised rape line.

Validate that crime type is necessary in page title.

State view

Homicide incident details reported by Ohio

There were 4,812 incidents of homicide reported to the UCR Program between 2004 and 2014. Learn more about the FBI's data collections.

Offender demographics

Sex of offender

INCIDENTS

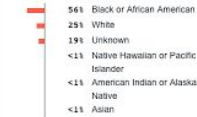


Age of offender

INCIDENTS



Race of offender



There were 4,812 reported offenders.

Download data

View by

Victim demographics

Sex of victim

INCIDENTS

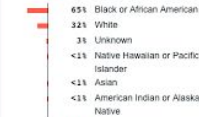


Age of victim

INCIDENTS



Race of victim



There were 5,134 reported victims.

Download data

View by

Victim's relationship to the offender



There were 4,494 reported relationships.

Location type



There were 4,080 reported locations.

Sex of the offender chart should always stay in the same order. Currently it is being sorted by total.

Incidents label is not correct. Consider removing it and verify that the numbers are coming from the correct tables.

Users want to download chart data in one action.

Age of offender should refer to offenses not incidents.

Consider making the % / # toggle universal.

Do not display NIBRS dimensions if there is no data to display above.

Agency view

Homicide incident details reported by Cleveland City

There were 839 incidents of homicide reported to the UCR Program between 2004 and 2014. Learn more about the FBI's data collections.

Offender demographics

Sex of offender

Female	93
Male	702
Unknown	44
Total	839

Age of offender

0-9	0
10-19	167
20-29	281
30-39	122
40-49	63
50-59	42
60-69	11
70-79	6
80-89	0
90-99	0
Total	692

Race of offender

Asian	0
Native Hawaiian or Pacific Islander	1
Black or African American	641
American Indian or Alaska Native	1
Unknown	78
White	118
Total	839

Download data

Victim demographics

Sex of victim

Female	213
Male	763
Unknown	12
Total	988

Age of victim

0-9	36
10-19	111
20-29	330
30-39	200
40-49	124
50-59	98
60-69	27
70-79	13
80-89	7
90-99	0
Total	945

Race of victim

Asian	0
Native Hawaiian or Pacific Islander	6
Black or African American	747
American Indian or Alaska Native	2
Unknown	40
White	193
Total	988

Download data

Victim's relationship to the offender

Relationship Unknown	478
Acquaintance	74
Boyfriend/Girlfriend	44
Otherwise Known	44
Child	22
Stranger	17
Spouse	14
Other Family Member	13
Friend	9
Neighbor	7
Parent	5
Sibling	3
Offender	2
Homosexual Relationship	2
Stepparent	2
In-law	1
Ex-Spouse	1
Grandchild	1
Stepchild	1
Employee	0
Grandparent	0
Child of Boyfriend or Girlfriend	0
Employer	0
Subpoener	0

Location type

Residence/Home	313
Highway/Alley/Street/Sidewalk	281
Unknown	89
Parking Garage/Lot	53
Convenience Store	10
Bar/Nightclub	9
Field/Woods	7
Restaurant	5
Drug Store/Doctor's Office/Hospital	4
Gas Station	4
Air/Bus/Train Terminal	2
Commercial/Office Building	2
Grocery Store	2
Hotel/Motel	1
Park/Playground	1
Government/Public Building	1
Department/Discount Store	0
Dock/Warehouse/Shipping Terminal	0
ATM Separate from Bank	0
Farm Facility	0
Auto Dealership	0
Gambling Facility/Casino/Race Track	0
Bank	0
Abandoned/Condemned Structure	0
Campground	0

Do not display NIBRS dimensions if their is no data to display above.

Display ethnicity data when available.

Consider implementing a + More button on long lists.

Downloads & Documentation

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Downloads & Documentation

See [incident-based \(NIBRS\)](#) data by offense, location, victim and offender demographics, and arrestee. For more information, please see the [README](#) and [NIBRS data diagram](#).

Location

Year

Download

Bulk downloads

DATASET	DESCRIPTION	TYPE OF DATA
Hate Crime	See totals by state, year, and bias motivation for hate crimes across the country from 1991–2014.	Summary (SRS) available Download data
Assaults on Law Enforcement Officers	See totals for officers who were killed or assaulted in the line of duty from 1974–2014.	Summary (SRS) available Download data
Police Employee Data	See how many full-time sworn and civilian law enforcement employees have served in your state from 1960–2014.	Summary (SRS) available Download data
Uniform Crime Reporting Program Participation Data	See how many law enforcement agencies have reported crime data to the FBI by state and year from 1960–2014.	Summary (SRS) available Download data
Cargo Theft	See totals by state, year, property type, and property value for cargo thefts from 2013–2014.	Summary (SRS) available Download data
Human Trafficking	See totals by state and offense for commercial sex acts and involuntary servitude from 2013–2014.	Summary (SRS) available Download data

Documentation

Content: Rewrite intro text. Make NIBRS text more inclusive and less specific.

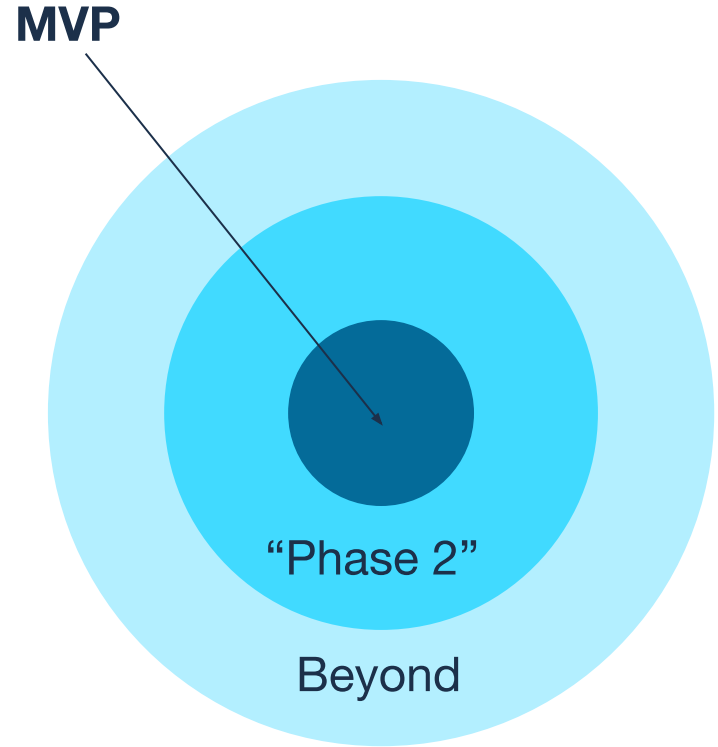
Remove or hide blank years in the Police Employee data because users think the file is empty.

Display resources as they are treated on the About page.

Context

THE MVP IS A START NOT AN END

Deliver a first iteration of the CDE (an MVP) that allows **law enforcement and the general public to view and interact with uniform crime data.**



WHAT WE ARE AIMING FOR

The CDE enables law enforcement and the general public to explore crime data at the national, state, and agency levels. It offers multiple pathways to the data by visualizing high-level trends and incident data, while providing more granular perspectives through downloads and an open API.

As a first iteration, the CDE MVP is limited to a single data transfer from New UCR and is meant to serve as a catalyst for further modernization.

Key features & capabilities:

- View SRS & NIBRS data for major offenses by location (national, state, agency) and time range.
- Download UCR participation data for states and the nation.
- View programmatically-generated content that helps explain results.
- View definitions and related links to provide context around the UCR program and its methodologies.
- Download trend and summarized incident data displayed within the Explorer View as a CSV.
- Download bulk incident data by state and year as a CSV.
- Download hate crime, assaults on law enforcement, police employee data, cargo theft, human trafficking, and arrest data as a CSV.
- Leverage an open API to enable custom views and conduct robust analysis.
- Access the Explorer on a mobile device.

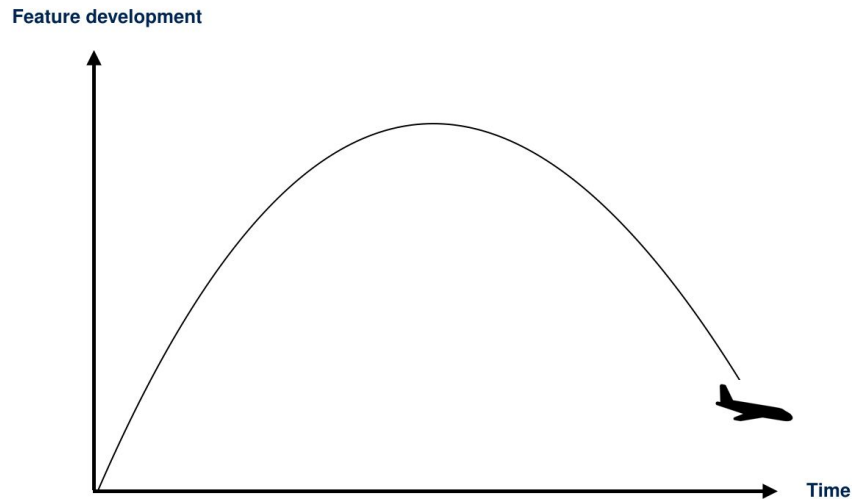
MINDSET FOR MOVING FORWARD

We have limited time remaining - we won't get to everything.

This is by design, the best products evolve iteratively.

When evaluating priorities, ask *what is the cost of not doing this now?*

At this stage prioritize security, quality, and performance over new features.

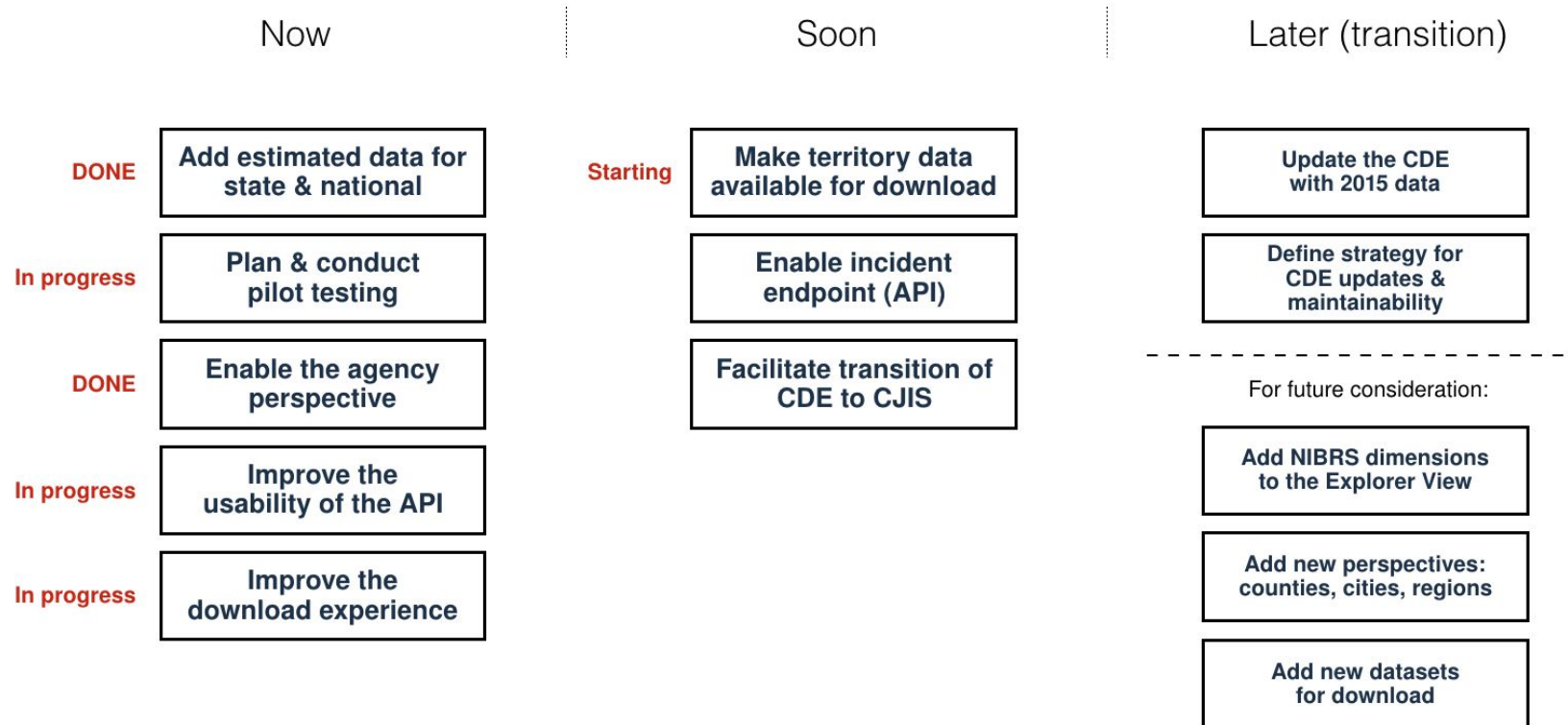


Sprint 14 plan

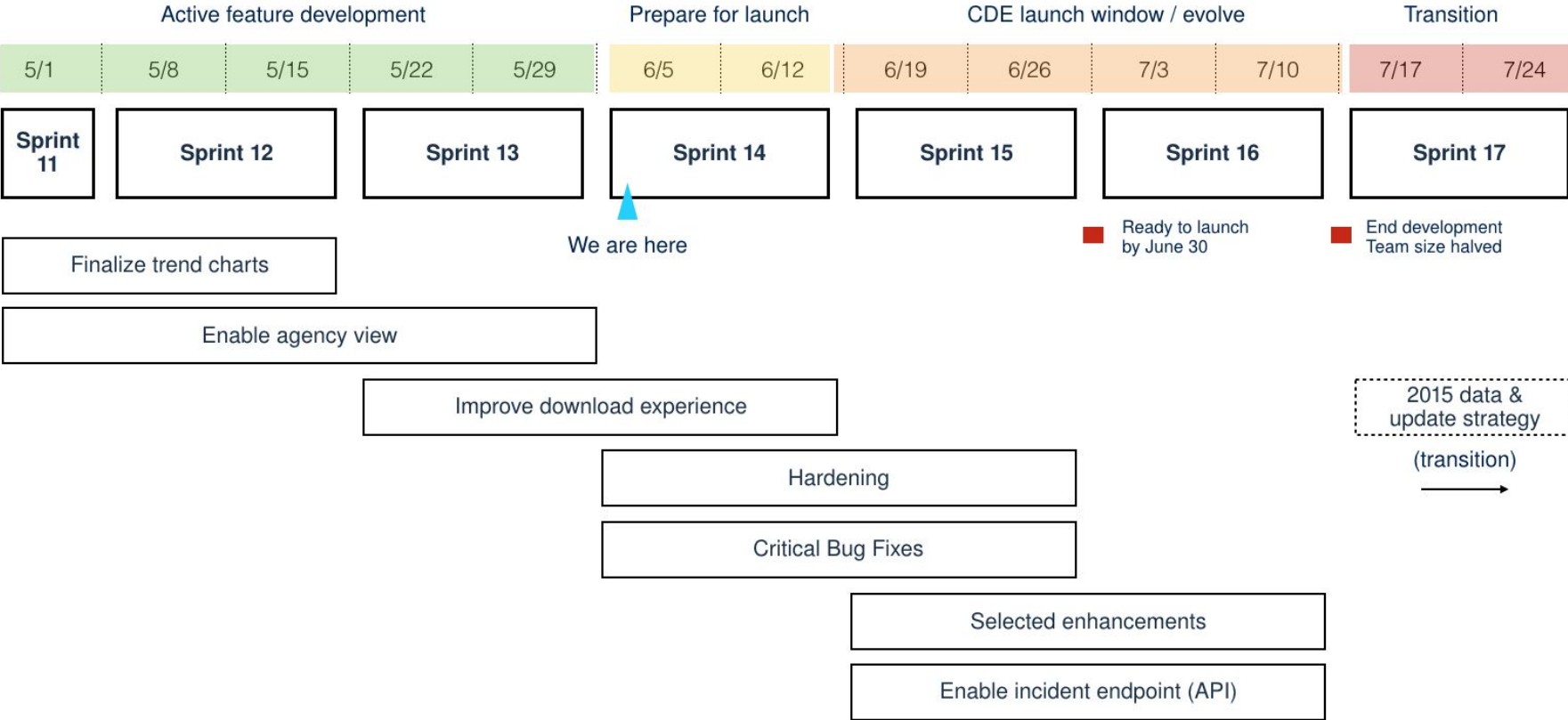
GOALS FOR SPRINT 14

- **Prepare the CDE for launch by improving the quality, performance, and scalability of the application. This includes reducing design and technical debt and requires a shift in focus from “adding features” to “preparing for launch.”**
- **Broaden the type of data made available by adding arrest, national estimates, and U.S. territory datasets for download.**
- **Assess the feasibility of a 2015 update to the data and its potential impact on the launch timeline.**
- **Conduct necessary design, content, accessibility, and security reviews and prioritize findings/action items accordingly.**
- **Add minor enhancements, such as a 404 page, and adjust the presentation of state & agency incident data based on recent feedback.**

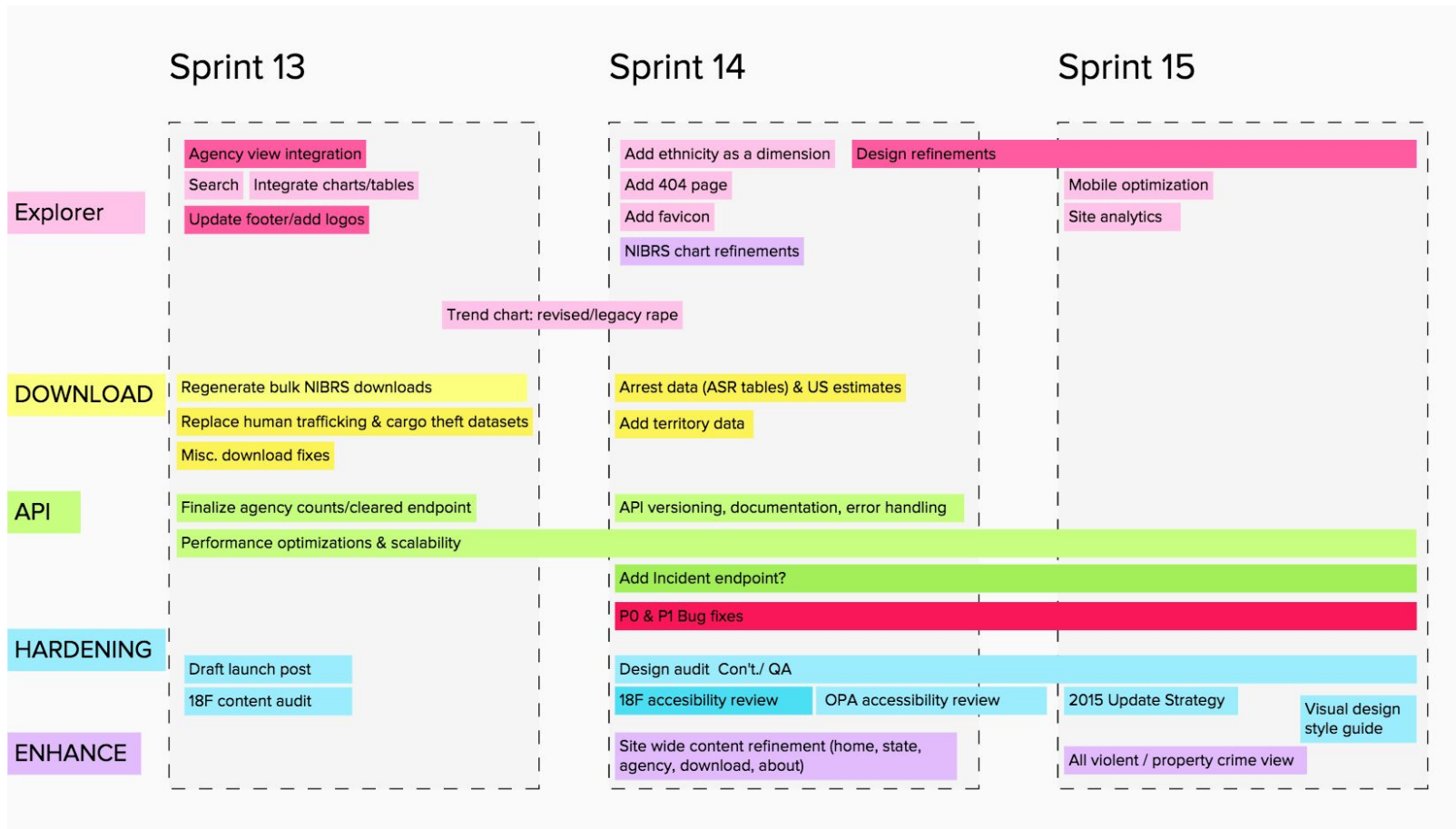
CDE PRODUCT ROADMAP



REMAINING PROJECT TIMELINE



THE NEXT 4 WEEKS....



Questions & Action Items

WRAP-UP

- **What are the next steps following the security/open source call? Do we know the potential impact on the ATO or launch timeline?**
- **Are we in agreement on our approach for making arrest & territory data available as a download?**
- **Should we be showing federal agencies, like local FBI branches, in the Explorer?**
- **Need to schedule necessary compliance reviews (OPA, security, etc.)**
- **Need to figure out a way to transfer files, a proposed approach is <https://github.com/18F/voyage>.**
- **Let's resume pilot testing; can we remove the password or modal?**
- **Can you help us validate the new agency data and with QA in general?**