FBI CDE
Sprint 10 Recap & Sprint 11 Plan

April 27, 2017

18F

- **Sprint 10 recap**

- **Sprint 11 plan**

- **Action items**

Sprint 10 recap

18F has been tasked with improving the granularity of the CDE. This sprint we focused on defining the experience for an agency view while accounting for data limitations below the state level.

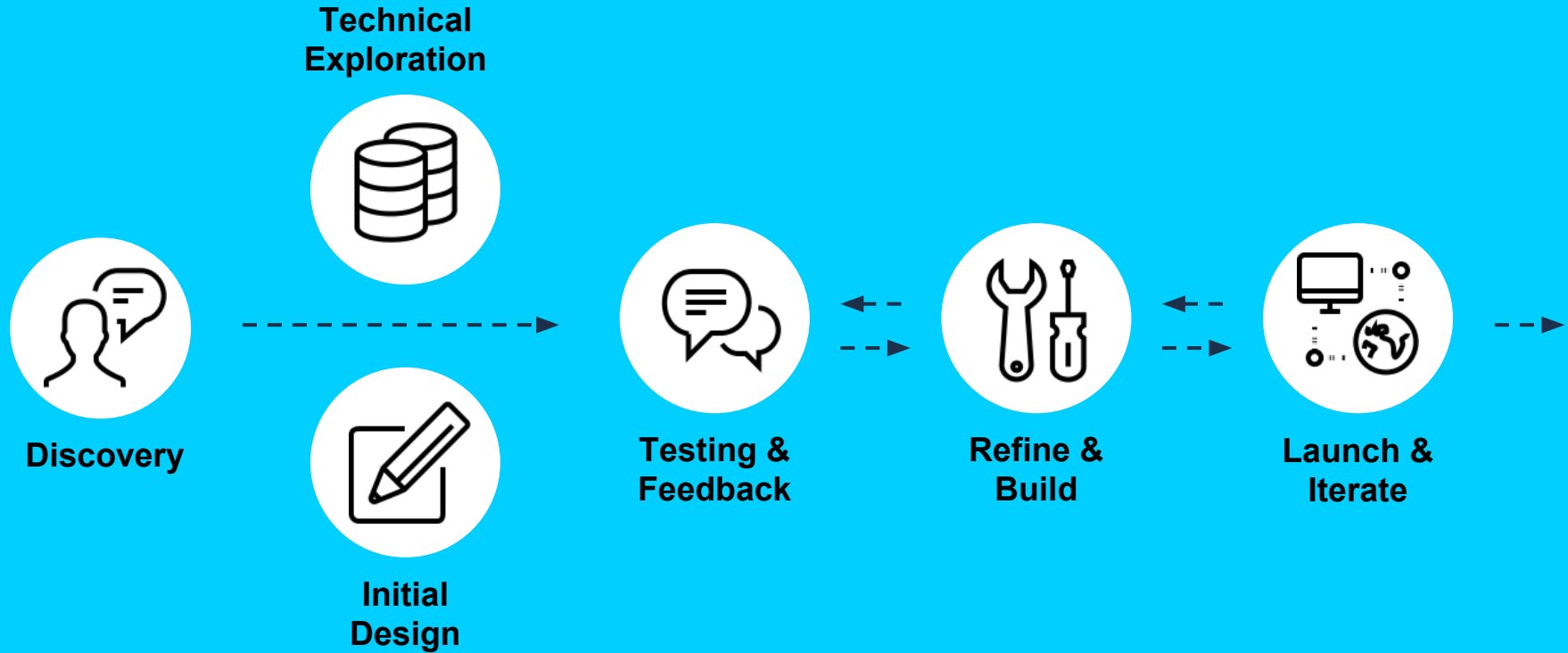**Prototype links:**
Agency search

View our latest progress here:
https://crime-data-explorer-demo.fr.cloud.gov/

View our release notes here:

API release notes (v2017-04-26)
Front end release notes (v2.0.0)

SOFTWARE DESIGN & DEVELOPMENT

Technical Exploration

Discovery

Initial Design

Testing & Feedback

Refine & Build

Launch & Iterate

Key Activities

- Conducted **5 research sessions** with potential consumers of the CDE to refine search and data visualization for the data agency perspective.

- **Built a prototype** to better understand law enforcement's expectations when searching for an agency in the explorer.

- Continued developing the **technical foundation** for an agency-based perspective.

- Submitted all required documentation for the FBI's ATO process.

- Implemented selected enhancements & bug fixes.

Who we Spoke with...

To refine the design of an agency perspective in the Crime data explorer, 18F and members of the CJIS team conducted 5, 1 hour qualitative interviews with members of the law enforcement and UCR community.

We gathered feedback, synthesized learnings into insights, and developed a list of ideas to explore and fixes to make prior to development.

5

Law enforcement

State UCR reps

Key Insights

- The law enforcement personnel we spoke with reacted positively to the agency perspective.

- Although, law enforcement generally have access to more timely and detailed data they saw this as potentially useful for the chiefs, reporters and academics, legislators, smaller agencies without resources to visualize and analyze data, and the public.

- Although there will be variation between state and local data and UCR data, as long as it can be explained, it is expected and understood.

- "Everything we do is a snapshot of the day and the time of when we pull the numbers. We recognize that there will be movement there."

- People who are familiar with NIBRS reporting know it can be confusing and appreciate our straight forward approach for the public.

- The CDE and an agency level perspective will hopefully reduce the number of basic requests to CJIS and law enforcement staff.

- It is unclear what is being returned by an agency-level search and needs refinement.

- NIBRS reporting agency are concerned when viewing the CDE that the NIBRS data they collect isn't being leveraged by the CDE because the only see SRS crimes.

- There is confusion around the UCR transition to NIBRS and how SRS fits in.

Agency search navigation

GOAL

Provide easy access to agency level data for law enforcement, state UCR representatives, and the public from the explorer view of the Crime data explorer.

IDEAS

Explain what is returned by search and why.

Make search results more noticeable.

Explore agency types as dropdowns.

Consider adding ability to search by population size.

Location

New Jersey

Search by agency name, city, county, or type of law enforcement agency.

Search

Time Period

Summary data available from 1980–2014.

2005 to 2014

Type of Crime

Violent Crime

Homicide
Rape
Robbery
Aggravated Assault

Property Crime
Arson

Location

New Jersey

Your search returned 77 agencies. Select one or refine your results.

Search +Bergen

Agency name / ORI number

Agency type

City name

County name

Bergen

Clear Search

Violent Crime

Homicide
Rape
Robbery
Aggravated Assault

Property Crime
Arson

Location

New Jersey

Your search returned 77 agencies. Select one or refine your results.

Search +Bergen

Bergen
Allendale
Alpine
Bergenfield
Bogota
Carlstadt
Cliffside Park
Closter
Cresskill
Demarest

Violent Crime

Homicide
Rape
Robbery
Aggravated Assault

Property Crime
Arson

Location

New Jersey

Search by agency name, city, co type of law enforcement agency.

Bergen

Time Period

Summary data available from 19

2005 to 201

Type of Crime

Violent Crime

Homicide
Rape
Robbery
Aggravated Assault

Property Crime

Agency Level Explorer View

GOAL

Provide access to agency level data in the Crime data explorer in a similar manner to the state and national perspectives.

IDEAS

Explain differences in data between state and national perspectives in the CDE and in state publications.

Show time range totals in the bar chart.

Refine covered by content and data considerations.

Make download button more noticeable and provide more accurate explanation of what consumer will receive in download.

Explain rate in glossary.

Show additional NIBRS attributes for crimes.

FEDERAL BUREAU OF INVESTIGATION
Crime Data Explorer

Home   Explorer   Downloads & Documentation   About

Location

Alabama

Hoover Police Department

Time Period

2004   to   2014

Type of Crime

Violent Crime
Homicide
Rape
Robbery
Aggravated Assault

Property Crime
Arson
Burglary
Cargo Theft
Larceny Theft
Motor Vehicle Theft

Hate Crime

Additional datasets

Hoover Police Deptartment, Homicide

The Hoover Police Department is located in a rural # part of Alabama. This law enforcement agency reports incident-based (NIBRS) data# to the FBI.

Occasionally an agency reports data to the FBI for other law enforcement agencies. Data reported for additional agencies is included in the totals on this page.

UCR Resources

Hoover Police Employee data
Alabama UCR program

State and national crime rates

Alabama Homicide
2004-2014   3.4
Explore state data   per 100,000 people

U.S. Homicide
2004-2014   3.0
Explore national data   per 100,000 people

Murder and non-negligent homicide reported by Hoover Police Department, 2004-2014

In 2008, the number of reported # homicides in Hoover increased over the previous year from 0 to 2.

2008

Incidents
Reported   2
Cleared   2

Total incidents reported by year

2004 2005 2006 2007 2008 2010 2011 2012 2013 2014

Download data

Source: Reported incident-based (NIBRS) data from Hoover Police Department, 2004-2014

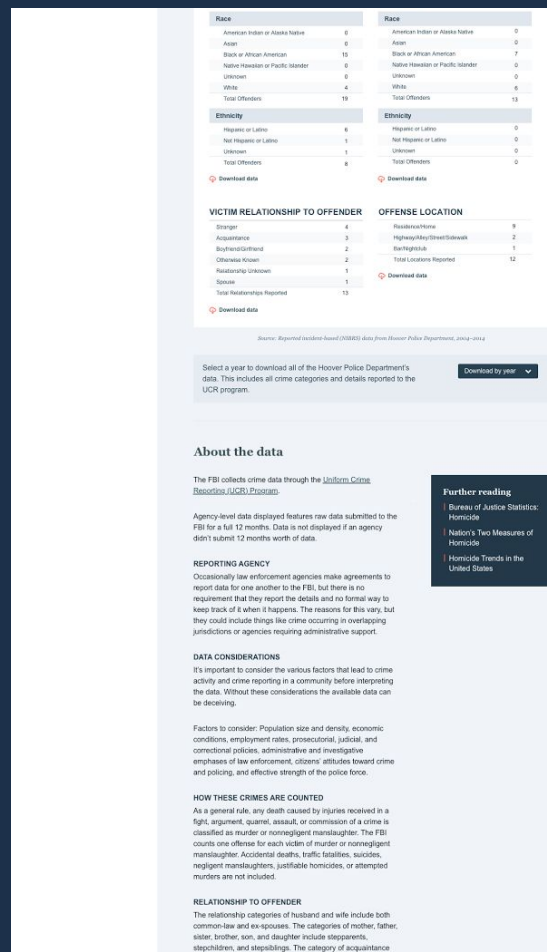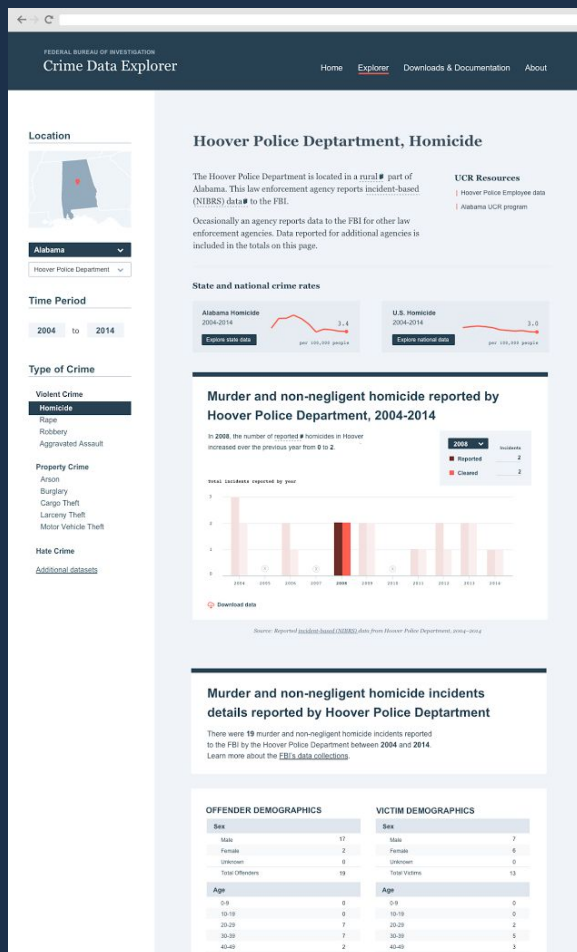### Murder and non-negligent homicide incidents details reported by Hoover Police Deptartment

There were 19 murder and non-negligent homicide incidents reported to the FBI by the Hoover Police Department between 2004 and 2014. Learn more about the FBI's data collections.

OFFENDER DEMOGRAPHICS

Sex
Male   17
Female   0
Unknown   0
Total Offenders   19

Age
0-9   0
10-19   0
20-29   7
30-39   3
40-49   2

VICTIM DEMOGRAPHICS

Sex
Male   7
Female   6
Unknown   0
Total Victims   13

Age
0-9   0
10-19   1
20-29   5
30-39   2
40-49   3

Race
American Indian or Alaska Native   0
Asian   0
Black or African American   15
Native Hawaiian or Pacific Islander 0
Unknown   0
White   4
Total Offenders   19

Race
American Indian or Alaska Native   0
Asian   7
Black or African American   4
Native Hawaiian or Pacific Islander 0
Unknown   0
White   6
Total Offenders   13

Ethnicity
Hispanic or Latino   6
Not Hispanic or Latino   0
Unknown   0
Total Offenders   0

Ethnicity
Hispanic or Latino   0
Not Hispanic or Latino   0
Unknown   0
Total Offenders   0

Download data   Download data

VICTIM RELATIONSHIP TO OFFENDER

Stranger   4
Acquaintance   3
Boyfriend/Girlfriend   2
Otherwise Known   2
Relationship Unknown   1
Spouse   1
Total Relationships Reported 13

Download data

OFFENSE LOCATION

Residence/Home   8
Highway/Alley/Street/Sidewalk 4
Bar/Nightclub   0
Total Locations Reported   12

Download data

Source: Reported incident-based (NIBRS) data from Hoover Police Department, 2004-2014

Select a year to download all of the Hoover Police Department's data. This includes all crime categories and details reported to the UCR program.

Download by year

About the data

The FBI collects crime data through the Uniform Crime Reporting (UCR) Program.

Agency-level data displayed features raw data submitted to the FBI for a full 12 months. Data is not displayed if an agency didn't submit 12 months worth of data.

Further reading

Bureau of Justice Statistics: Homicide
Nation's Two Measures of Homicide
Homicide Trends in the United States

REPORTING AGENCY
Occasionally law enforcement agencies make agreements to report data for one another to the FBI, but there is no requirement that they report the details and no formal way to keep track of it when it happens. The reasons for this vary, but they could include things like crime occurring in overlapping jurisdictions or agencies requiring administrative support.

DATA CONSIDERATIONS
It's important to consider the various factors that lead to crime activity and crime reporting in a community before interpreting the data. Without these considerations the available data can be deceiving.

Factors to consider: Population size and density, economic conditions, employment rates, prosecutorial, judicial, and correctional policies, administrative and investigative emphases of law enforcement, citizens' attitudes toward crime and policing, and effective strength of the police force.

HOW THESE CRIMES ARE COUNTED
As a general rule, any death caused by injuries received in a fight, argument, quarrel, assault, or commission of a crime is classified as murder or nonnegligent manslaughter. The FBI counts one offense for each victim of murder or nonnegligent manslaughter. Accidental deaths, traffic fatalities, suicides, negligent manslaughters, justifiable homicides, or attempted murders are not included.

RELATIONSHIP TO OFFENDER
The relationship categories of husband and wife include both common-law and ex-spouses. The categories of mother, father, sister, brother, son, and daughter include stepparents, stepchildren, and stepsiblings. The category of acquaintance
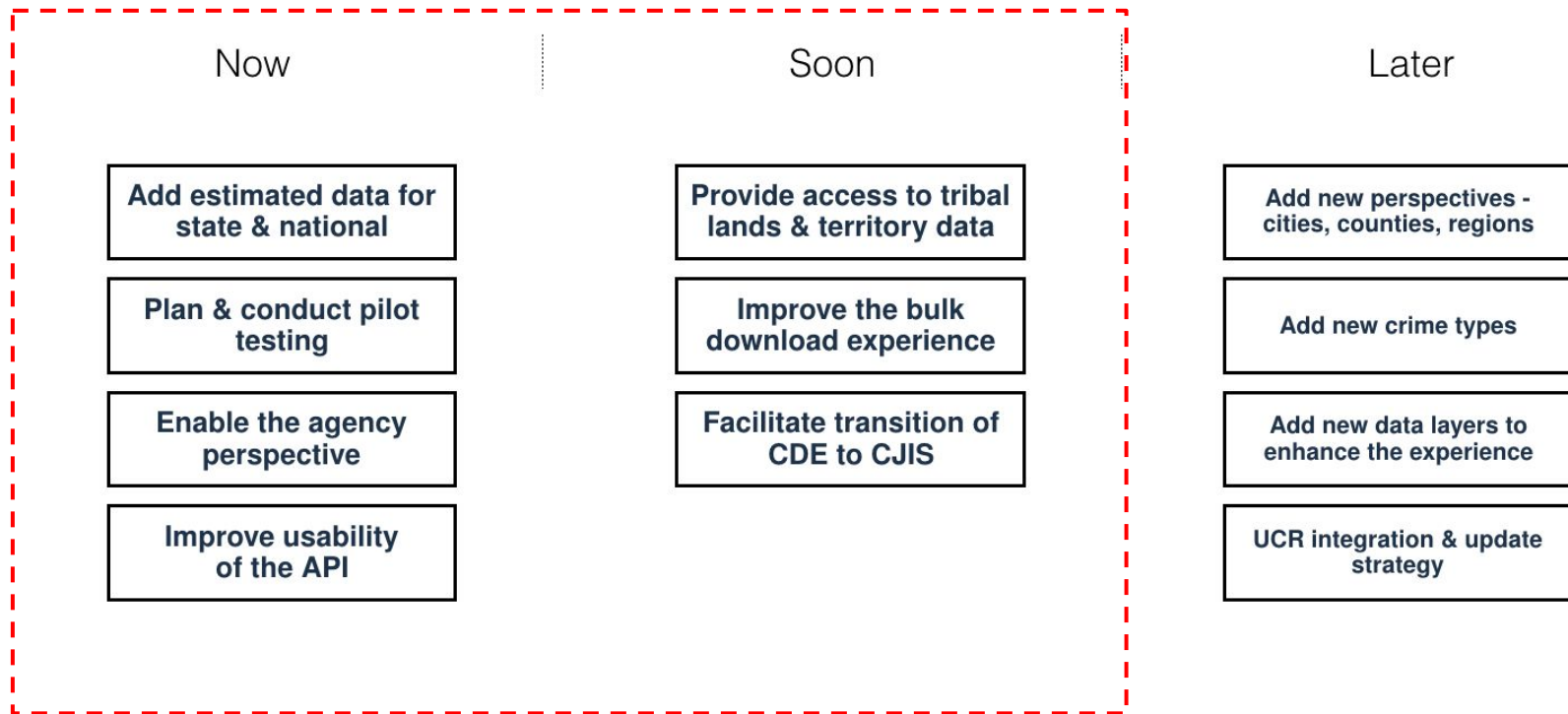
Key considerations

- How will CJIS message the CDE to the UCR program and law enforcement?

- How will CJIS respond to an increase in complex inquiries about UCR data post launch?

- Who will champion the CDE post launch/18F and explain product decisions to both internal stakeholders, law enforcement, and the general public?

- What are NIBRS report cards and can we see an example?

Sprint 11 plan
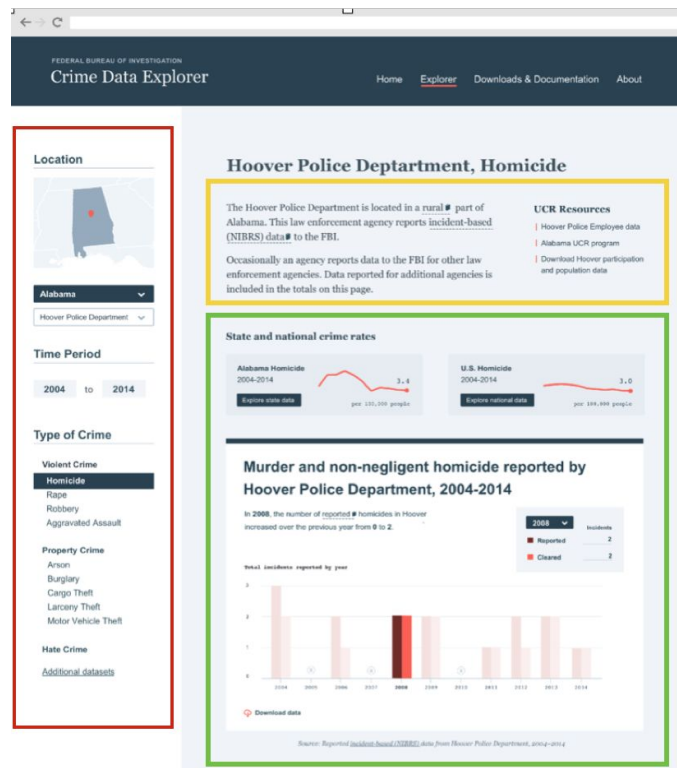
CDE PRODUCT ROADMAP

Our current focus for launch

Now	Soon	Later
Add estimated data for state & national	Provide access to tribal lands & territory data	Add new perspectives - cities, counties, regions
Plan & conduct pilot testing	Improve the bulk download experience	Add new crime types
Enable the agency perspective	Facilitate transition of CDE to CJIS	Add new data layers to enhance the experience
Improve usability of the API		UCR integration & update strategy

https://github.com/18F/crime-data-api/projects/13

- **Build the key components of the agency view (bar charts, tables, sparklines) & and start API integration**

- **Advance our understanding of how the agency perspective will be perceived by both law enforcement and the general public**

- **Coordinate with CJIS to begin pilot testing**

- **Allow users to request API keys & establish rate limiting to improve performance (proxy through api.data.gov)**

https://waffle.io/18F/crime-data-explorer

COMPONENTS OF THE AGENCY VIEW

Adding the "agency view" to the CDE web interface is a significant use of project time and resources. It involves preparing the data for use, research and design to understand how users want to interact with it, and iterative refinements to ensure that it is presented in the right way.

The key takeaway here is that choosing to visualize data, rather than making it available via the API and downloads, has a cost & should be balanced against the goals of the CDE.

We plan to build the view in pieces, starting with the components in green. The yellow and red pieces require more exploration and will evolve over subsequent sprints.
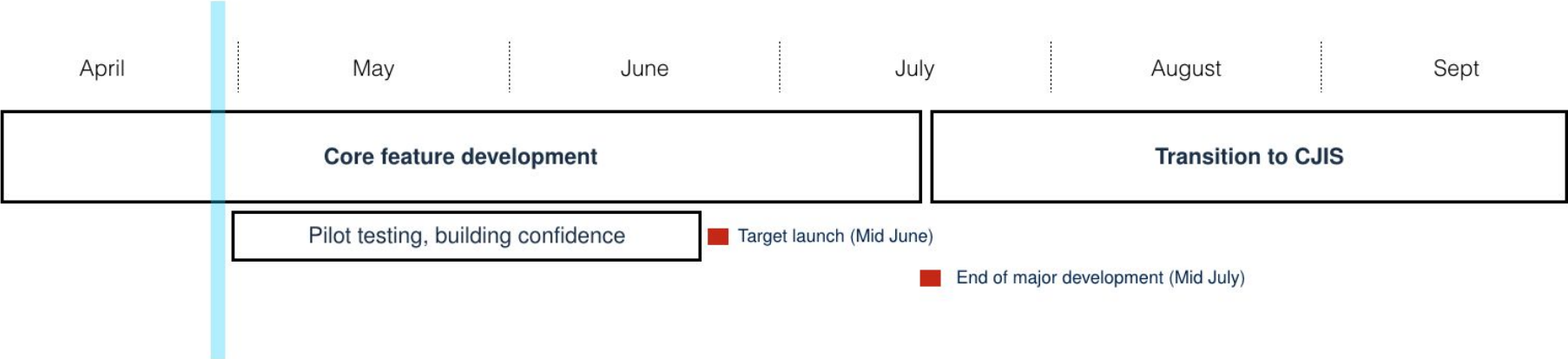
Open issues

ACTION ITEMS

- Larry & Amber to work with Lori & Krisi to better understand applicable PRA requirements and advance pilot design - with the goal being to start testing with internal (CJIS) users next week.

- Larry & Amber to schedule stakeholder interviews to inform direction for the CDE.

- Larry & Jacob to work with Cynthia to establish a plan for validating aspects of 18F's implementation in order to build confidence in how data is presented by the CDE.

- Mike to manage the ongoing ATO process as a dependency to launch and keep 18F informed of additional input or steps that may be necessary.

Appendix

LOOKING AHEAD

April	May	June	July	August	Sept

Core feature development

Transition to CJIS

Pilot testing, building confidence

■ Target launch (Mid June)

■ End of major development (Mid July)