FBI CDE

Preparing for launch

March 14-15, 2017

18F

Next 60 days

BIG PICTURE

What's the highest value to address in the next 2 months?

What do we need to validate?

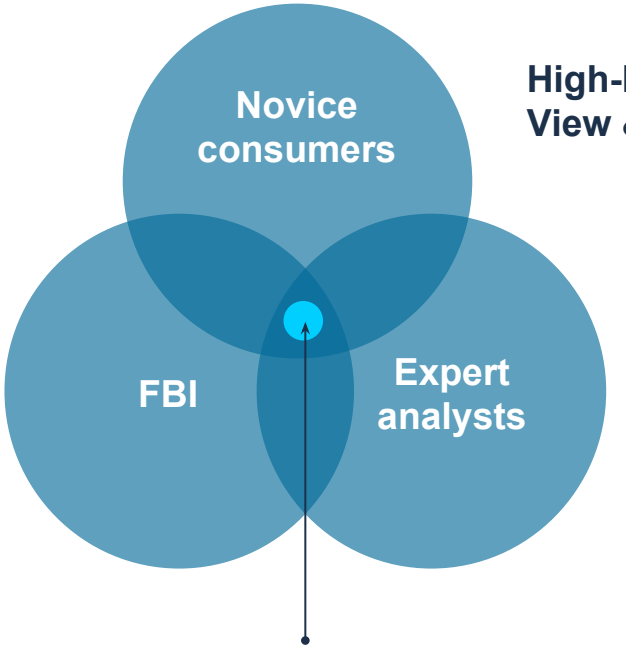
How do we get there together?

BACKGROUND

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.

"We need more transparency in law enforcement. We also need better, more informed conversations about crime. To get there, we are improving the way this nation collects, analyzes, and uses crime statistics" – DIRECTOR COMEY, 2015

SPECTRUM OF NEEDS



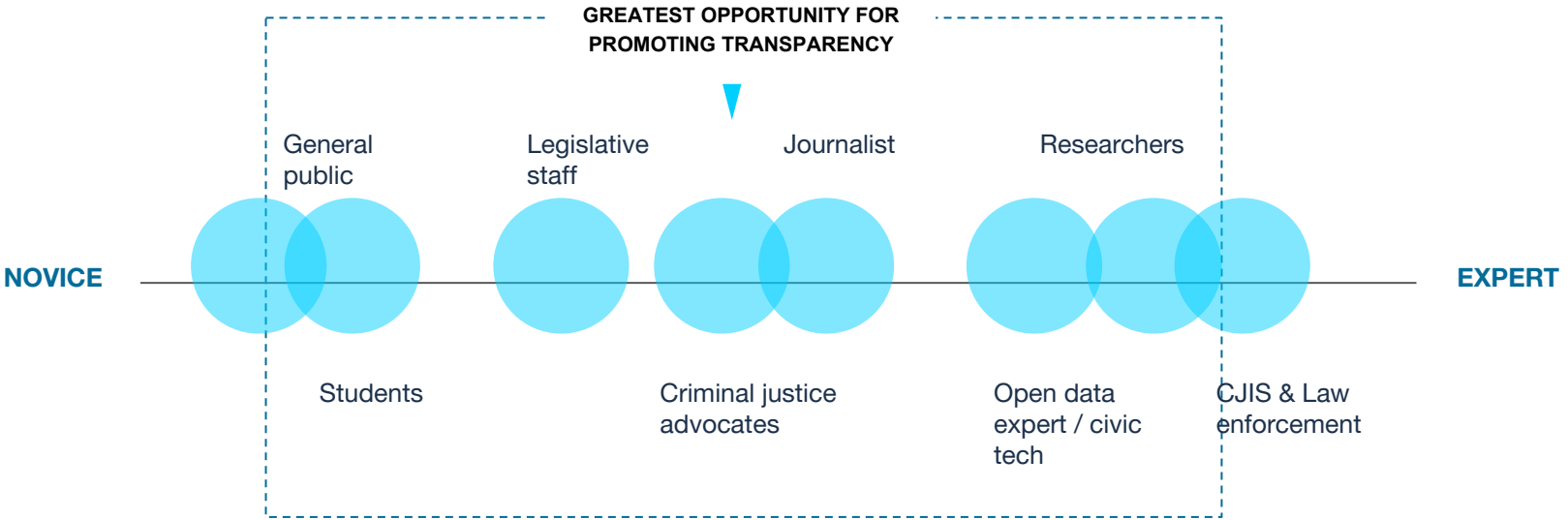
High-level summaries & trends.
View & search results by location

Promote transparency & value of UCR program

Quick access to the data with the ability to dive into the details

WHO WE ARE SOLVING FOR

Challenge: Develop a tool that is robust enough for analysts and experts, but yet accessible to anyone.



WHAT WE DELIVERED

The MVP enables users to explore high-level crime trends and incident data by time and location, while providing access to more granular perspectives through downloads and an open API.

You can view our progress at: https://crime-data-explorer-demo.fr.cloud.gov/

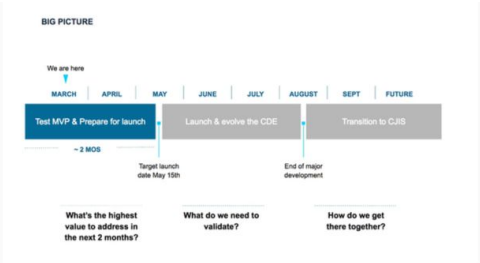
Key features & capabilities:

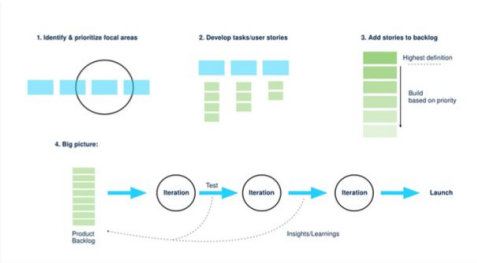
- View summary trends and NIBRS data by crime type, timeframe, and location. The “explorer view” is currently limited to state and national perspectives.
- View related UCR participation and police/census data for a given location.
- View programmatically-generated content & caveats that help explain results.
- Download trend and incident data displayed in the explorer view as a CSV.
- Download bulk incident data by state and year as a CSV.
- Download available hate crime, LEOKA, cargo theft, and human trafficking as a CSV.
- Leverage an open API that allows users to derive insights from available UCR data.
- Access the explorer experience on a mobile device.

DEMO, Q&A

AGENDA FOR TODAY

. Background (10 MINS)
2. Review opportunity areas (10 MINS)
3. Any that aren't a priority for this sprint? (5 MINS)
4. Group exercise - value & feasibility (12 MINS, 3 per topic)
5. Discussion (15 MINS, 4-5 per topic)
6. Prioritization (7 MINS)



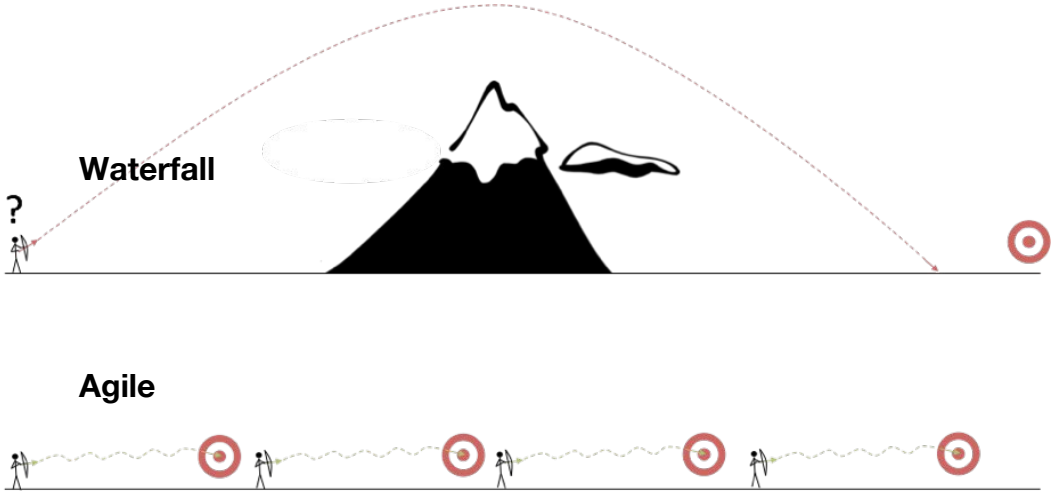


DEPRIORITIZED FOR THIS SPRINT

	3 PARTICIPATION	1 LOCATION GRANULARITY	2 API USABILITY	4 DOWNLOAD EXPERIENCE	ADDITIONAL DATASETS	NON-STATE UCR PARTICIPANTS
Description	Make participation data visible and accessible in the Explorer.	Allow users to view county-data from the explorer	Improve the documentation & accessibility of the API to faciliate pilot testing	Implement detail page design for the downloads section to provide additional information and meta data for downloadable datasets.	Explore opportunities for adding new datasets to the Explorer view, such as hate crime and LEOKA data.	Make data from non-state UCR participants, like tribal areas, accessible via the CDE.
Why is this important? (Assumptions)	Participation plays an important part in helping users interpret the data in the CDE.	Users want to be able to easily access local data from the explorer view. Trend data provides users with sufficient detail about their local area. FBI wants to allow people to view details down to the city level. People don't always understand where a city is.	Users accessing the API should have a smooth, well designed and implemented experience that promotes greater transparency. The explorer UI will only contain a subset of the UCR data, but the API will provide flexible access so that users have flexible access to the rest of the dataset.	Consumers of downloadable data find it useful to learn information about a dataset - such as when it was last updated and what it consists of before diving into the details.	There may be interest in seeing other datasets visualized.	Consumers expect to find all participating location in the CDE.

Appendix

WHY WORK THIS WAY



Agile is a methodology for dealing with uncertainty. It acknowledges that we don't always know what will work until we try and that humans are notoriously bad at estimating how long something will take.

But we can still set goals & targets. It's just that by working iteratively, agile allows us to learn faster and course correct so we can deliver the ***highest value solution*** within the timeline and budget available.

LESSON FROM NASA

Don’t build a “Space Pen” when all you need is a pencil.

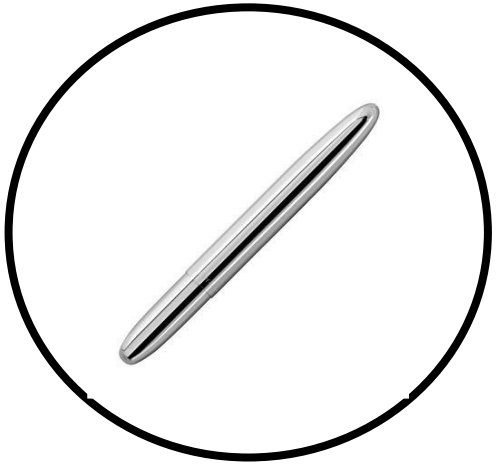
During the 1960s NASA realized that normal pens would not function in space. They decided they needed one that could meet exacting requirements - such as being able to write upside down, in extreme temperatures, and in zero gravity.

Eventually, and after $1M in development costs, a pen was developed that could meet these requirements - but did NASA really need a “space pen” when a simpler option could have also worked?

PROBLEM SPACE (START HERE)

“We need a writing instrument that works in space”

SOLUTION SPACE (NOT HERE)



“We need a space pen that works in exact conditions”

FOCUS FOR MVP

WHAT?

The first iteration of the CDE is aimed at orienting and guiding users through the data—it's not a dedicated tool for analysis.

WHO?

Aim for consumers with influence over the public's perception of crime, but make it approachable and accessible for everyone.

HOW?

Provide multiple pathways to the data—visualization of high-level trends, CSV downloads of SRS and NIBRS, and an open API. *

** The MVP will be limited to a single data transfer from new UCR*

HOW WE GOT THERE:
BOTTOM-UP APPROACH

A lean approach to product design helps teams articulate & test key hypotheses and build on the learnings to deliver the best solution within the budget & timeline available.