FBI CDE
Status Update & Demo

Feb 2, 2017

18F

Agenda
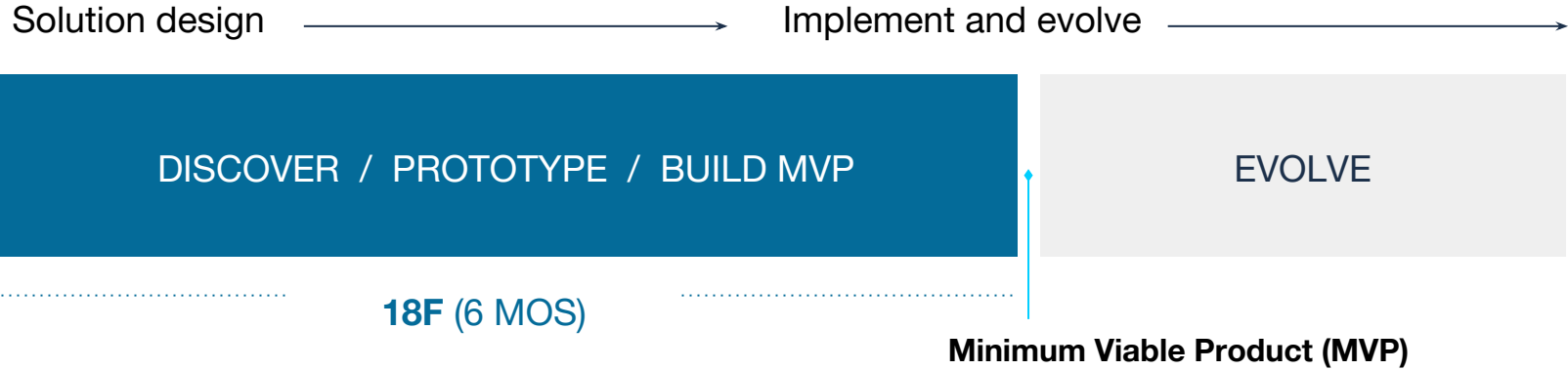
- Context
- Design
- Current progress
- Roadmap
- Questions

Background and goals

"**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

- Deliver a first iteration of the CDE (MVP) that provides access to SRS, NIBRS, and LEOKA data and which can be tested with the public and evolved

- Learn more about user & stakeholder needs

- Demonstrate the value of the UCR program

- Set the stage for broader UCR modernization efforts

PROJECT OVERVIEW

Solution design ⟶

Implement and evolve ⟶

DISCOVER / PROTOTYPE / BUILD MVP	EVOLVE

18F (6 MOS)

Minimum Viable Product (MVP)
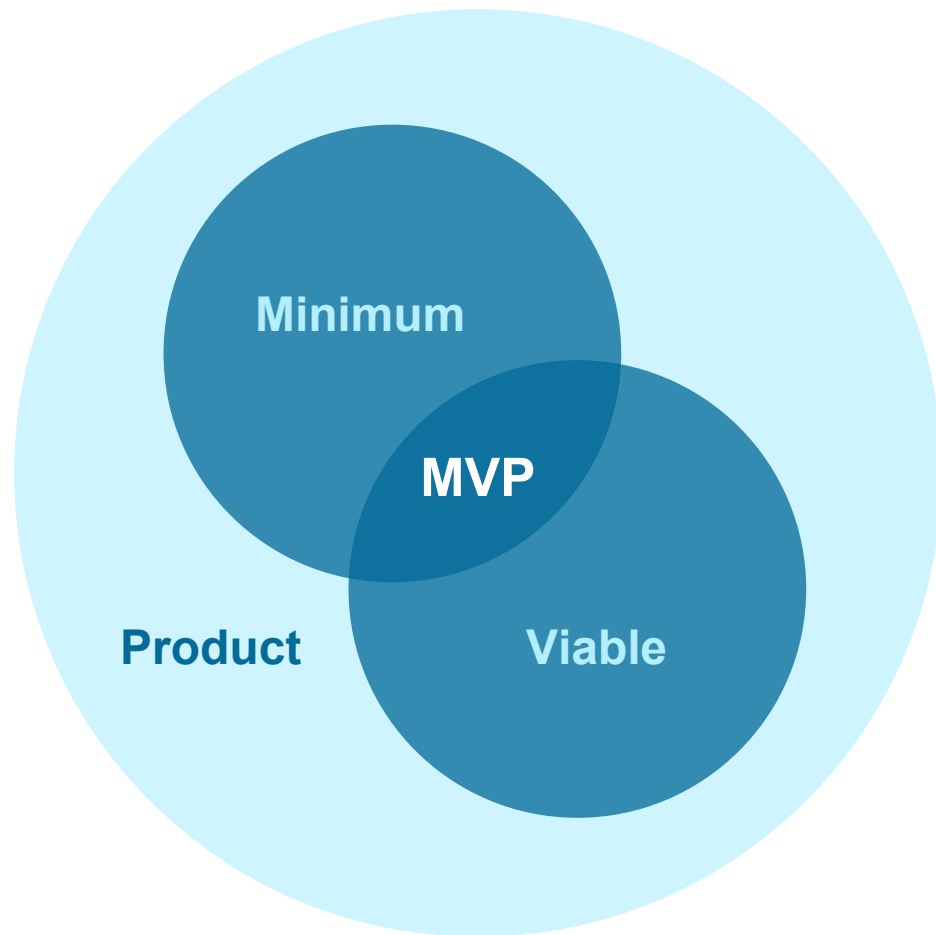
Phase 1: Learn and Start
What do people care about?
What is technically possible?
What will need to change?
How do we establish a vision for the future?
Where do we start?

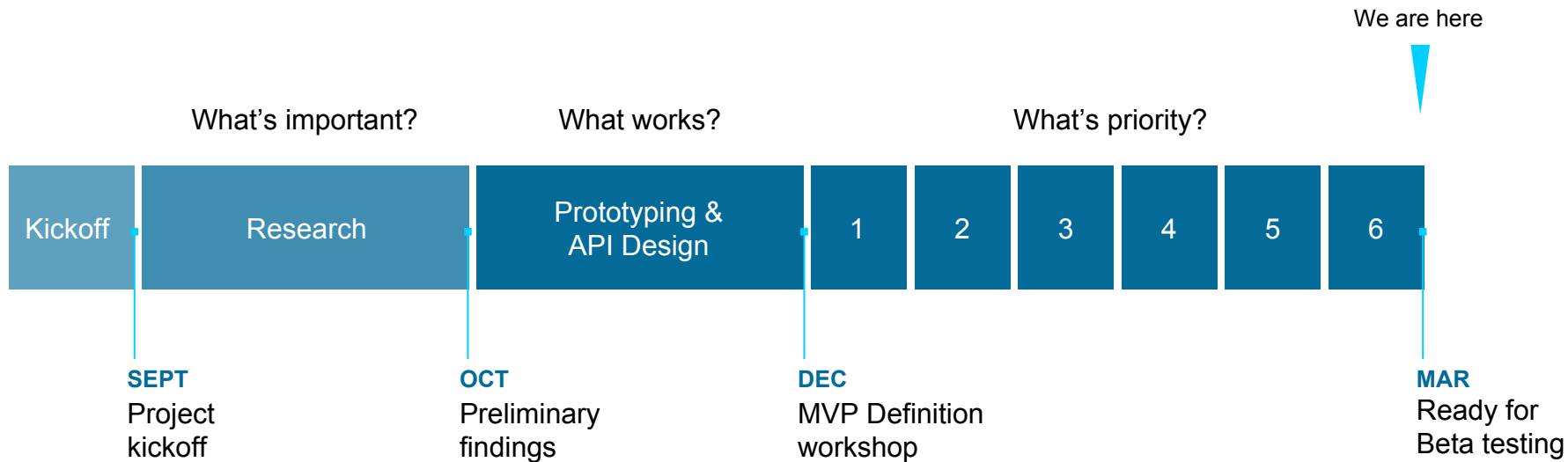**PHASE 2 and 3: Evolve and Maintain**
Adapt and extend based on product roadmap & ongoing user/stakeholder feedback

THE MVP SHOULD:

1. **Design for core experiences**

2. **Acknowledge and work within our constraints**

3. **Focus on the highest value problems**

4. **Deliver as part of a broader strategy**

TIMELINE & APPROACH

We are here

What's important?   What works?   What's priority?

| Kickoff | Research | Prototyping & API Design | 1 | 2 | 3 | 4 | 5 | 6 |

SEPT
Project
kickoff

OCT
Preliminary
findings

DEC
MVP Definition
workshop

MAR
Ready for
Beta testing

OUR PARTNERS

Samuel Berhanu, Unit Chief, Product Owner

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Howard Snyder, Deputy Director, Bureau of Justice Statistics

Jim Dufford, Xcelerate Solutions

Greg Donewar, Xcelerate Solutions

Jonathan Cox, Unit Chief, Office of Public Affairs

ACTIVITIES & DELIVERABLES

Crime Data Explorer
Discovery Workshop

September 6-8, 2018

Kickoff /
Discovery workshop

FBI CDE
Discovery Workshop
Synthesis & Playback

September 13, 2018

Synthesis and
playback deck

Crime Data Explorer
Status Report
(10/14)

Weekly status meetings and
reports with core team

Consumer, staff, and
stakeholder research

Technical research and API
development

FBI CDE
Preliminary Findings &
Solution Hypothesis

October 27, 2018

Preliminary findings and
MVP definition decks

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.
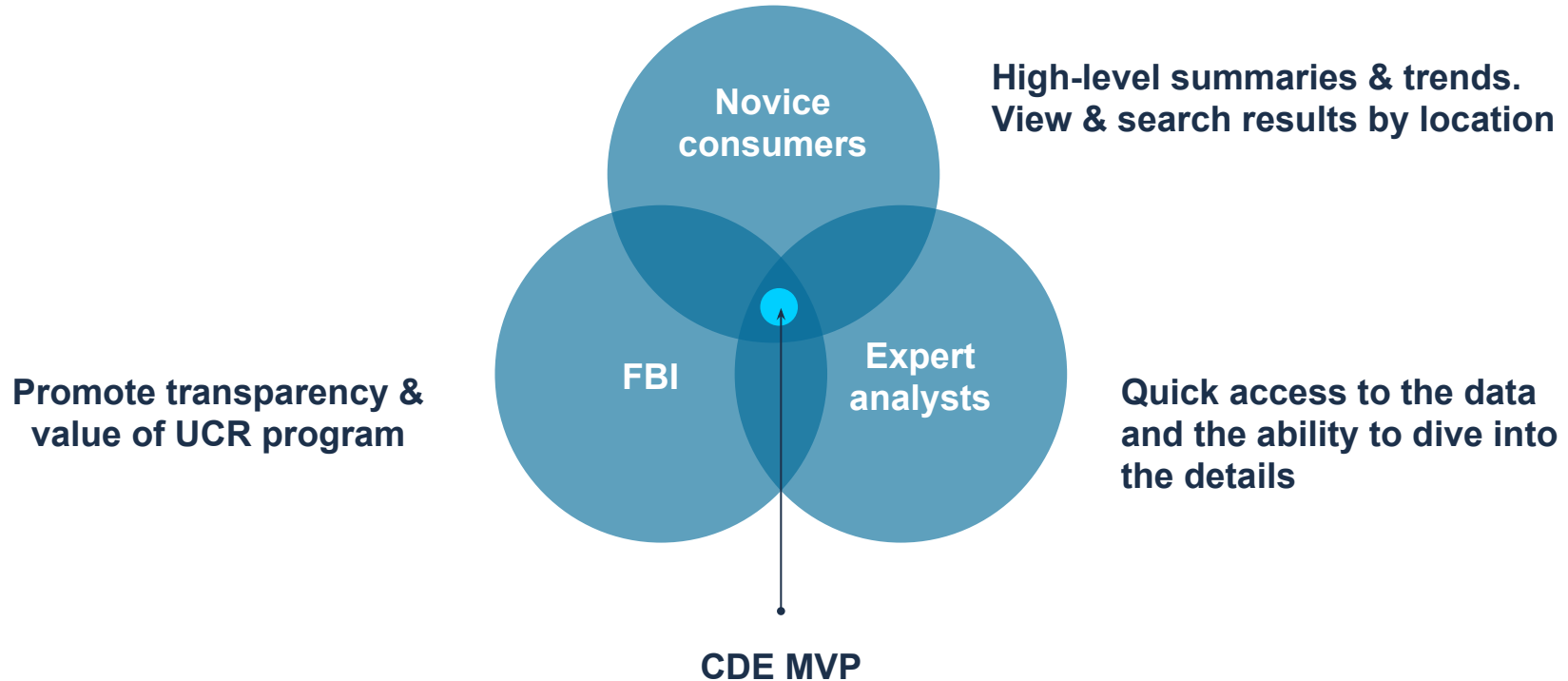
WHO?

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

SPECTRUM OF NEEDS

Novice consumers

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

FBI

Expert analysts

Promote transparency & value of UCR program

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

CDE MVP

"I see this as the highlights — you're showing me the big picture."

CRIMINAL JUSTICE ADVOCATE

"This is what people have been waiting for."

STATE UCR PROGRAM MANAGER

"You're showing us things we would like to do in our work, but isn't possible today."

CJIS SA

"We want as much data as possible and we'll dig into it." DATA REPORTER

Design

SCOPE OF THE MVP

MVP	SRS DATA	NIBRS DATA	ADDITIONAL DATA
EXPLORER VIEW	Search, view, and compare **major summary crimes** by location (state/nation) and time period. Rates are presented as trend charts. Corresponding downloads are available	Selected incident attributes associated with **major summary crimes** are viewed as bar charts, histograms, and donut charts. Corresponding downloads are available.	Selected aspects of hate crime and LEOKA data will be included as a table and may be downloaded as a CSV.
DOWNLOADS	Bulk downloads of summary data are planned and will be made available through the "downloads and documentation" part of the site.	Bulk downloads of NIBRS offenses are planned and will be made available through the "downloads and documentation" part of the site.	Additional major offenses that are not available through the explorer, along with selected minor offenses will be made available through bulk downloads.
API	All data provided to 18F by the FBI's UCR program is accessible through the Crime Data Explorer API.	All data provided to 18F by the FBI's UCR program is accessible through the Crime Data Explorer API.	All data provided to 18F by the FBI's UCR program is accessible through the Crime Data Explorer API.

HIGH-LEVEL PRODUCT ROADMAP

NOW (MVP)	NEXT (FOR 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.	Assist in the migration of content from the existing UCR website to the CDE & explore opportunities for tighter integration between the CDE and new UCR.
View programmatically-generated content that provides context for results.	Expand capabilities to search for and download pre-prepared data sets. Consider the value of a custom report builder.	Facilitate the transfer of ownership of the CDE from 18F to the FBI/CJIS.
Download data as a CSV.	UI/UX refinements & API optimizations.	Explore opportunities to include additional datasets that were not a focus of the MVP.
For advanced users, query and build applications around the full dataset provided to the CDE.	Create a tool that allows users to provide feedback about the CDE & file reports about data quality issues.	Explore ways to elevate the role of NIBRS data in the CDE, as the volume of IBR improves

Appendix

TECHNICAL APPROACH

INPUTS
BACK END
FRONT END
USERS

NEW UCR
(Oracle)

CDE DATABASE
(PostgreSQL)

CDE RESTFUL
API

READ ONLY

CDE WEB APP

API DOCS

FUTURE
APPS
Internally
or externally
developed