

EVOLVING THE CDE

DIGITAL ROADMAP

August 16, 2017

EXECUTIVE SUMMARY

On August 8-9, 2017 we held a workshop at Clarksburg, West Virginia to facilitate the transition of the Crime Data Explorer (CDE) to CJIS. A key focus of this effort was to set a trajectory for evolving the CDE beyond an initial offering.

This document reflects what was captured in conversations about the long-term goals for the CDE and offers a high-level roadmap for enabling this vision.

The roadmap describes broad focal areas, or “themes”, for extending the CDE and surfaces key decision points that will affect how CJIS matures the product. This roadmap does not serve as a static or detailed plan, but rather, functions as a communication tool for building internal alignment around what matters and why, and socializing next steps. The roadmap should be revisited frequently and updated as often as possible.

WHAT WE DID: We held a 2-day workshop to align stakeholders around the vision and goals for the CDE.

WHAT WE LEARNED: The CDE will become the primary platform for publishing UCR data and will eventually replace the existing CIUS reports. This has significant implications for how CJIS collects and reports UCR data and how it manages the technical ecosystem needed for supporting the CDE in this role.

WHERE WE’RE GOING: With the goal of becoming the “go-to resource” for UCR data, CJIS identified “adding more data to the CDE” as the first priority, followed closely by adding context & caveats to help with its interpretation. Our target users will continue to be a mix of novice and advanced consumers, but in terms of serving them, CJIS will prioritize access to the data (e.g., downloads, API) over visualizations and will try to minimize costly changes to the user interface.

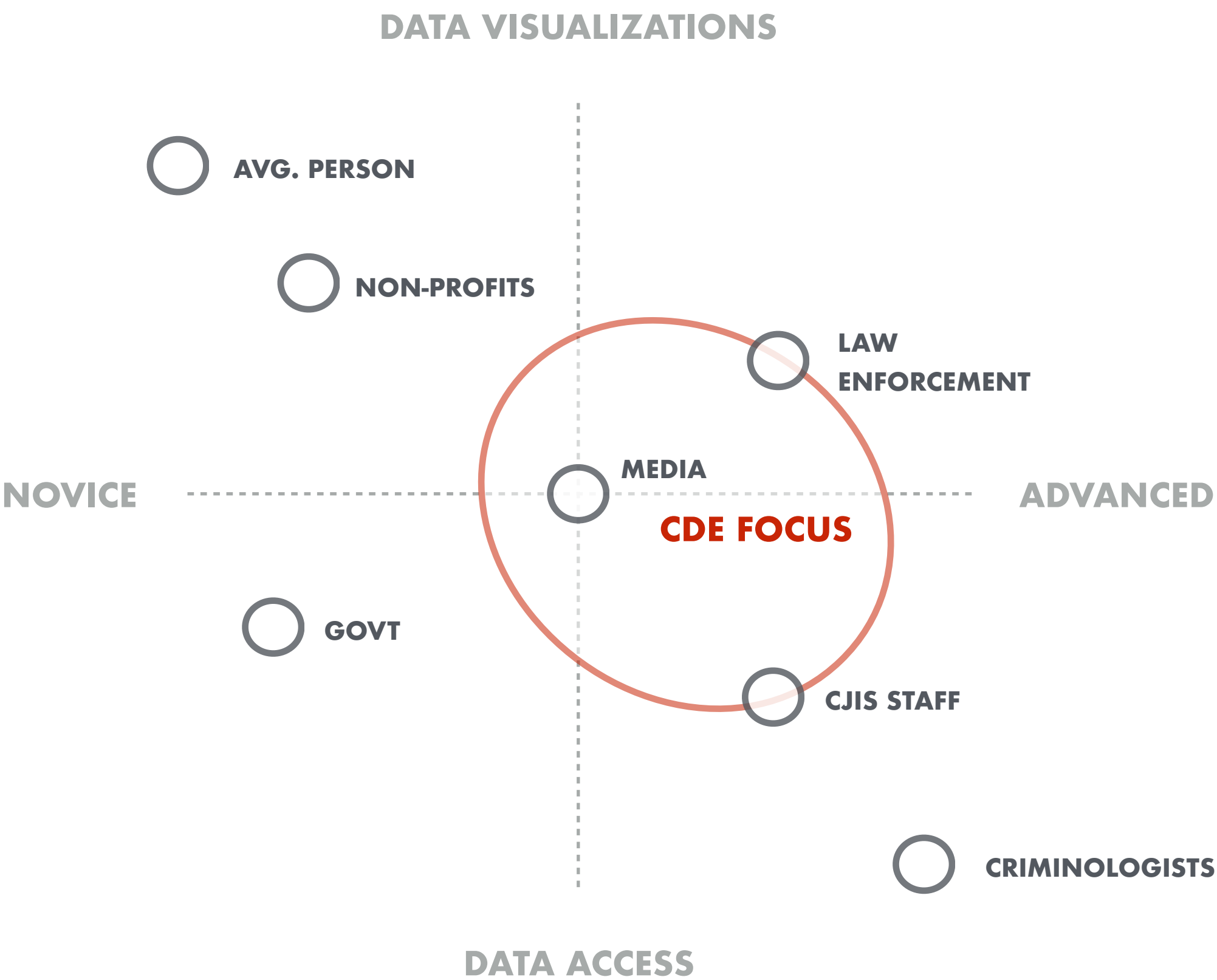
THE CDE IS THE “DIGITAL FRONT DOOR” FOR THE UCR PROGRAM. IT IS THE GO-TO RESOURCE FOR UCR DATA & PROMOTES BROADER PROGRAM MODERNIZATION.

THIS IS WHAT WE ASPIRE THE CDE TO BE. USE THIS STATEMENT TO ALIGN STAKEHOLDERS AND TO GUIDE DECISION MAKING. IT IS YOUR NORTH STAR.

SETTING FOCUS

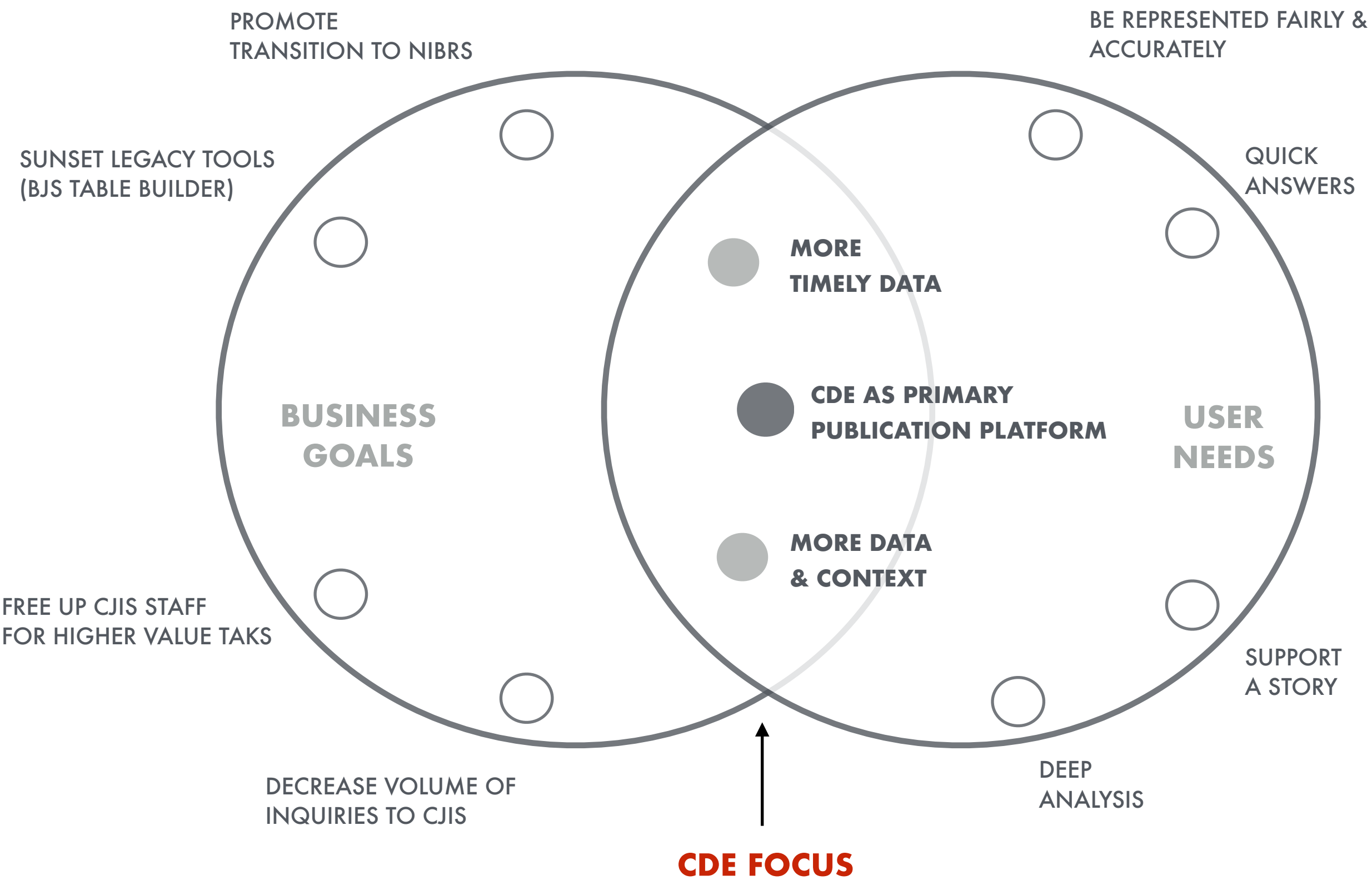
TARGET USERS

HOW USERS DIFFER IN BACKGROUND & PREFERENCES



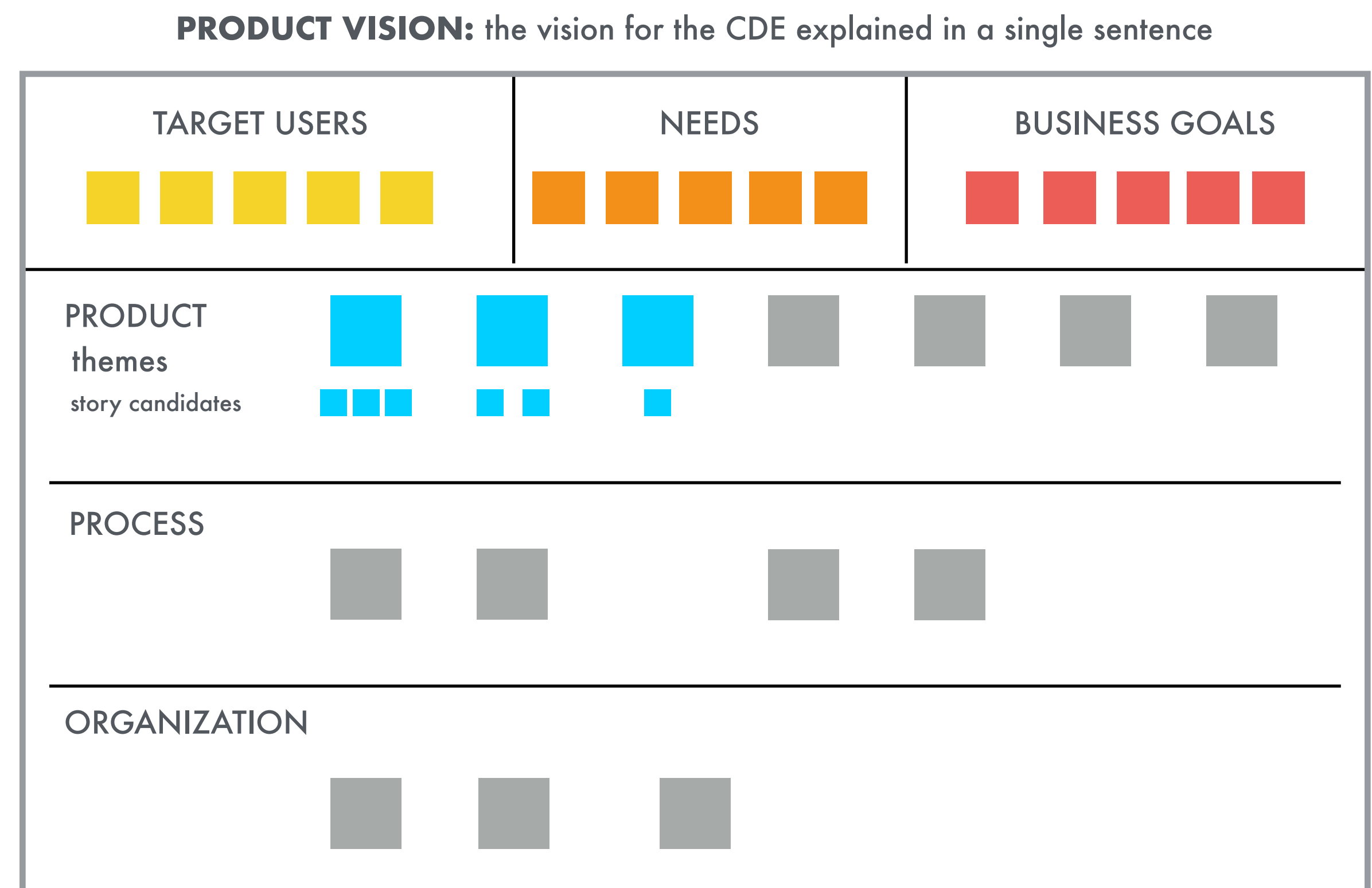
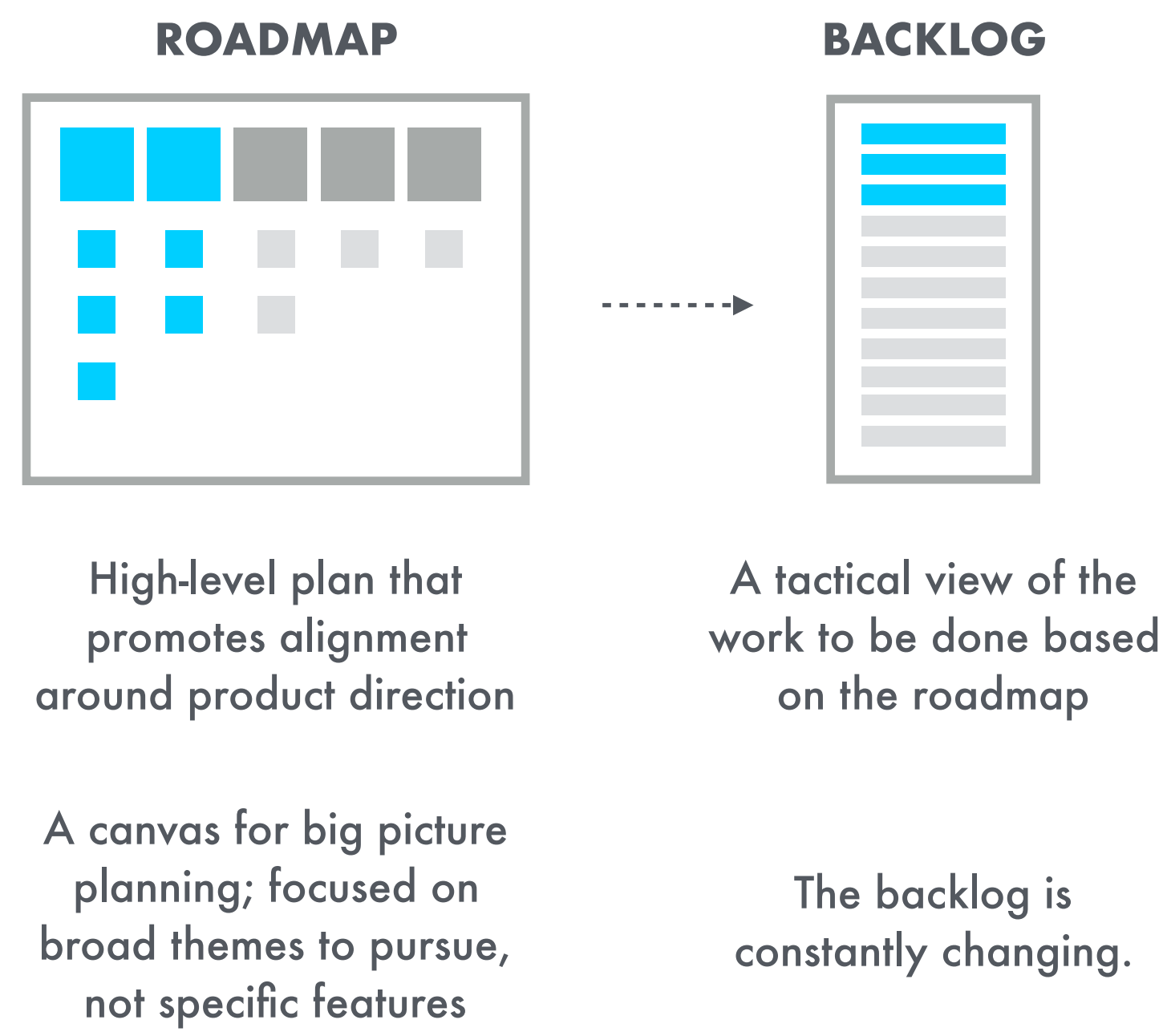
KEY DRIVERS

HOW BUSINESS GOALS & USER NEEDS INTERSECT



ABOUT THIS ROADMAP

A ROADMAP IS A TRAJECTORY, NOT A DETAILED PLAN. IT CONSIDERS THE PEOPLE, PROCESS, AND ORGANIZATIONAL ELEMENTS NEEDED TO GET WHERE WE WANT TO GO.



DIGITAL ROADMAP

PRODUCT VISION: The CDE is the “digital front door”to the UCR program. It is the go-to resource for UCR data and promotes broader program modernization.

PRODUCT THEMES	NOW (2-4 MONTHS)	SOON (3-6 MONTHS)	LATER (6+ MONTHS)
	<div><div></div> MORE DATA</div> <div><div></div> ENABLE A DIGITAL ORGANIZATION</div>	<div><div></div> IMPROVED CONTEXT & CAVEATS</div> <div><div></div> MORE ROBUST ANALYTICAL CAPABILITIES</div>	<div><div></div> IMPROVED GRANULARITY</div> <div><div></div> MORE TIMELY DATA</div>
STORY CANDIDATES	<div><div></div> Add incident endpoint (expand API)</div> <div><div></div> Add dimensions for existing NIBRS offenses</div> <div><div></div> Add new NIBRS offenses to Explorer</div> <div><div></div> Add SHR dataset for download</div>	<div><div></div> Enable dynamic flagging/footnotes for the data</div> <div><div></div> Enable trend-based comparisons between states</div> <div><div></div> Add demographics to complement crime data</div> <div><div></div> Add a BJS-like table builder for custom queries</div>	<div><div></div> Enable new geographic perspectives of the data, such cities, counties, and regions.</div> <div><div></div> Allow users to flag potential issues with the data for correction</div>
PROCESS	<div><div></div> Collect feedback on which datasets to add</div> <div>Consider prioritizing access to the data via</div> <div><div></div> the API & downloads over changes to the interface that require more UI/UX work</div>	<div>Conduct research to determine if a custom query tool similar to the BJS table-builder is needed, or if pre-generated downloads will suffice</div> <div><div></div></div>	<div><div></div> Decide how to represent non-standard reporting areas, like cities, responsibly</div> <div>Explore opportunities for tighter integration</div> <div><div></div> between CDE and New UCR to facilitate more regular updates</div>
ORGANIZATION	<div><div></div> Establish a cross-functional digital team that is fully dedicated to the CDE. Hire UI/UX help</div> <div><div></div> Seek out agile & product owner training</div> <div><div></div> Start building a culture that embraces more widespread use of agile & open source</div>	<div>Work with the publication team to develop a mechanism and process for mapping annotations with specific agencies & years</div> <div><div></div></div>	<div>Consider collecting more GIS information from LEA’s to improve the granularity of the data available.</div> <div><div></div> Explore reforms to the UCR program that improve the volume and quality of the data available to the CDE.</div>

NEXT STEPS

SOCIALIZE THIS ROADMAP INTERNALLY

**CREATE A DIGITAL VERSION SO THAT IT
CAN BE EASILY MAINTAINED AND
CHANGED WITHIN CJIS**

**ASSIGN STAFF TO CREATE USER STORIES
BASED ON THE “NOW” COLUMN AND
MANAGE THE NEW PRODUCT
BACKLOG.**

INPUTS FROM WORKSHOP

**TUESDAY, AUGUST 9:
ALIGNING AROUND THE FUTURE OF THE CDE**

PROJECT RETROSPECTIVE	(9-11AM)
BREAKOUT DISCUSSIONS	(11-12PM)
LUNCH/BREAK	(12-1PM)
DIGITAL ROADMAP EXERCISE	(1-3PM)

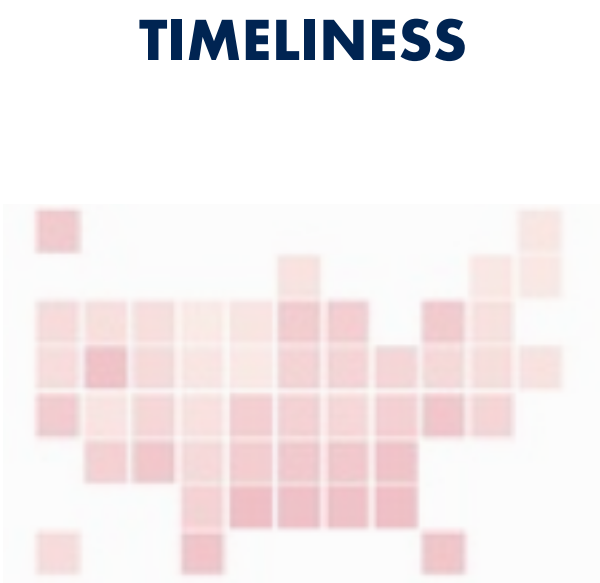
**WEDNESDAY, AUGUST 10:
ENABLING THE TRANSITION**

TECHNICAL DEEP DIVES	(9-11AM)
THE NEW UCR ECOSYSTEM	(11-12PM)

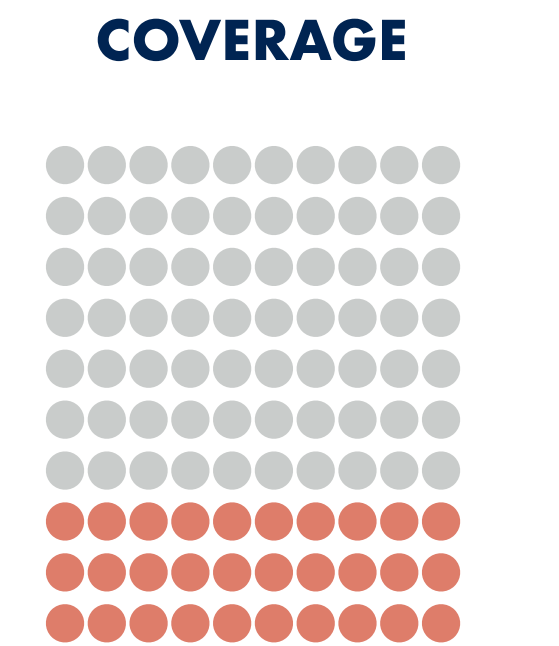
“WE NEED MORE **TRANSPARENCY** IN LAW ENFORCEMENT & BETTER, **MORE INFORMED** CONVERSATIONS ABOUT CRIME.”

-FBI DIR. COMEY, 2015

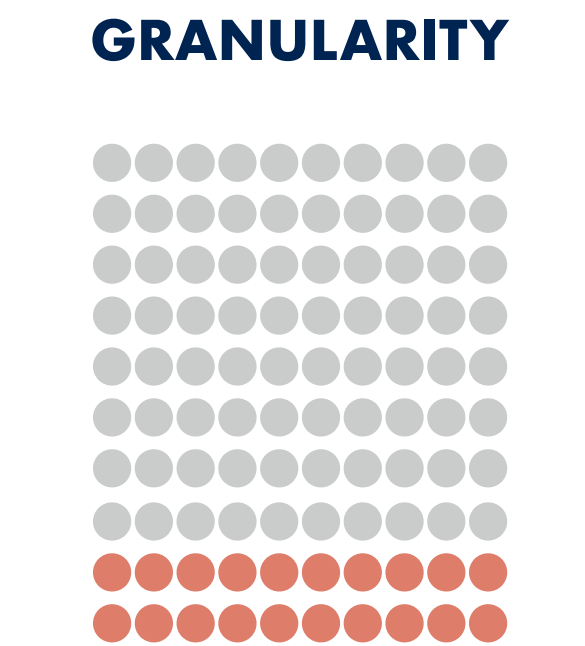
CURRENT STATE OF UCR PROGRAM:



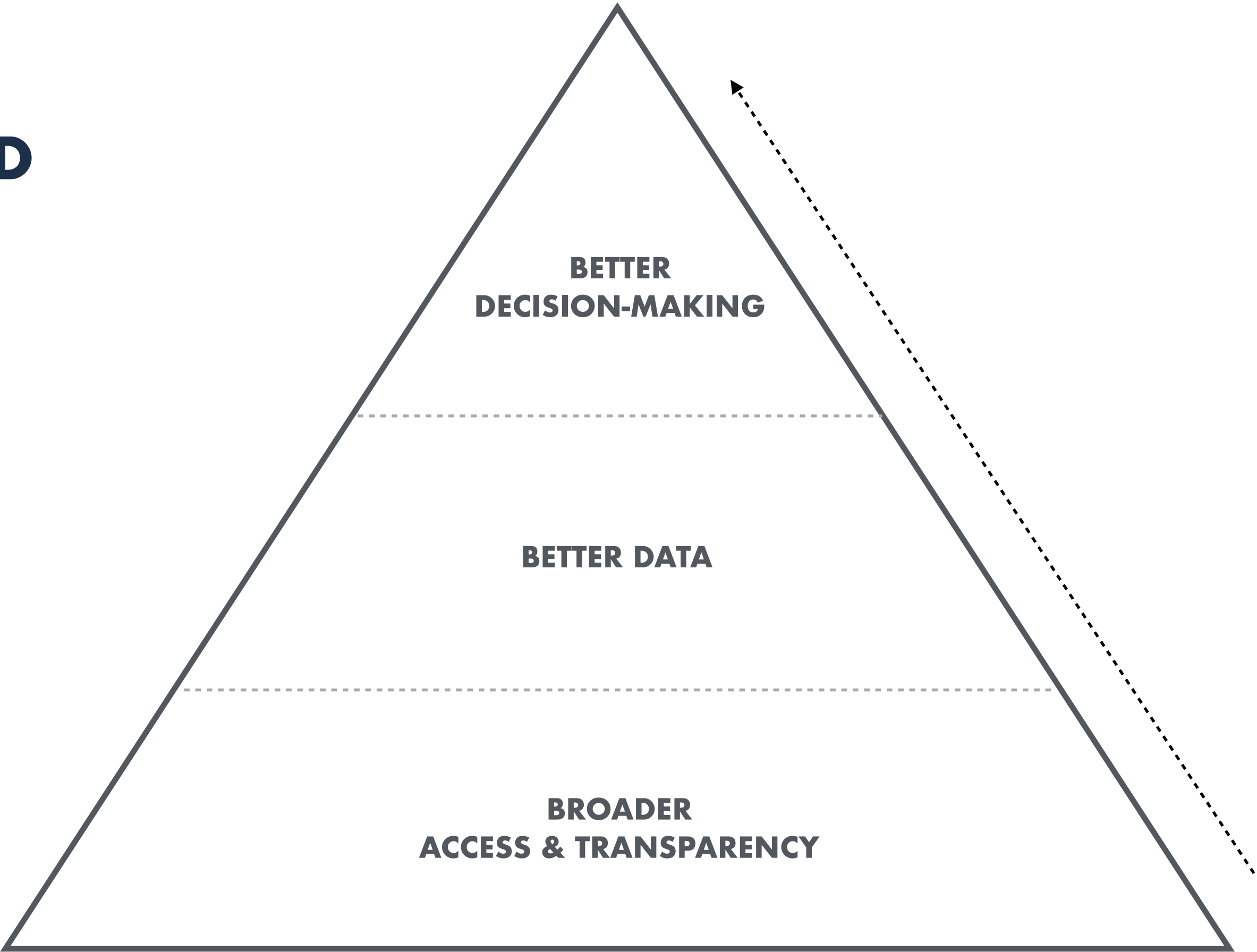
TAKES UP TO 2 YEARS TO PUBLISH THE DATA



ONLY 30% OF POPULATION COVERED BY NIBRS

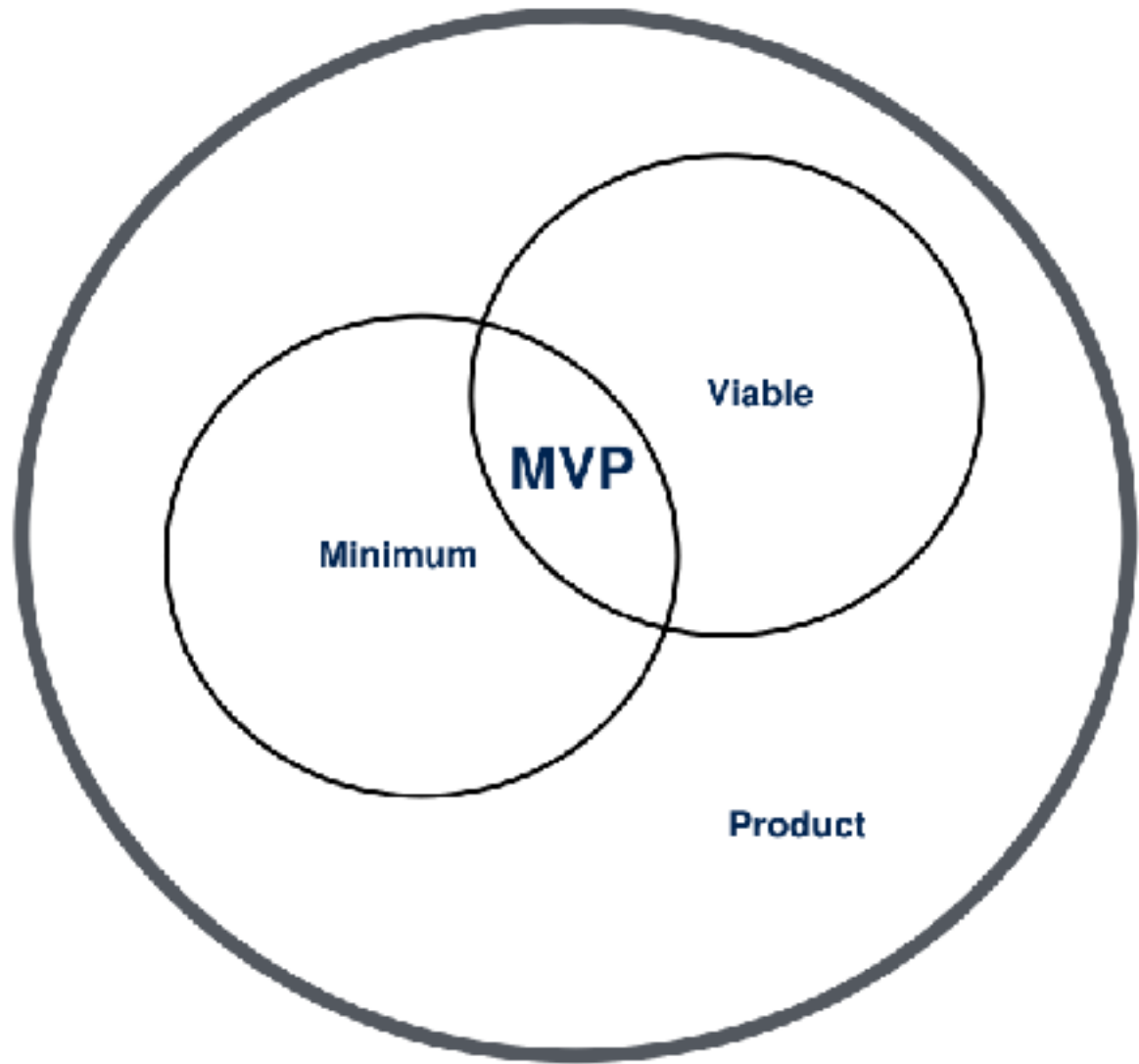


ONLY 20% OF U.S. LARGEST CITIES COVERED BY NIBRS



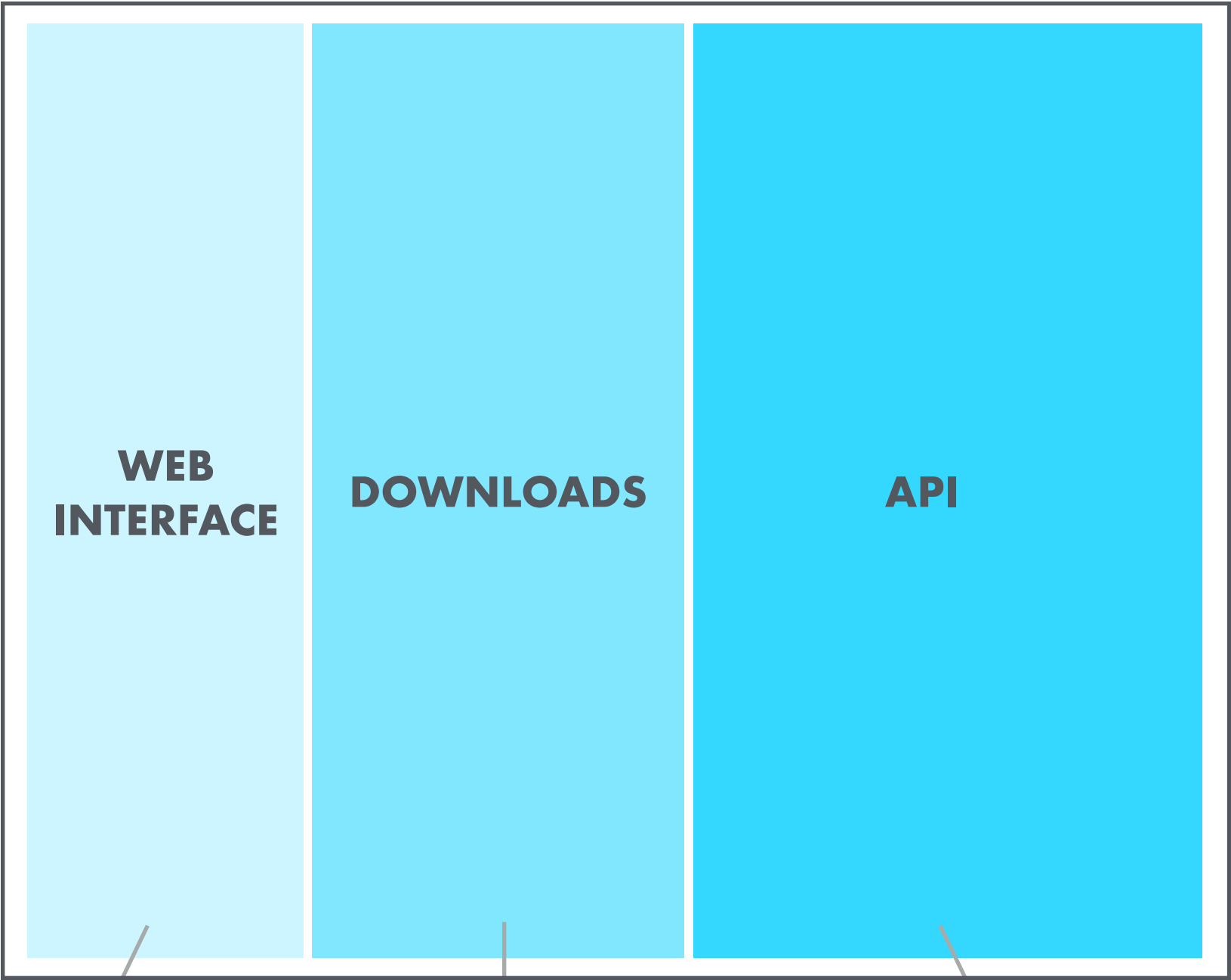
WHAT WE DELIVERED

WE DELIVERED AN INITIAL OFFERING, OR MVP, THAT IMPROVES ACCESS TO UCR DATA FOR LAW ENFORCEMENT & THE GENERAL PUBLIC.



AN MVP IS A START, NOT AN END. IT IS MEANT TO VALIDATE DIRECTION AND INFORM NEXT STEPS.

Providing multiple pathways to the data via the CDE



National, state, local trends. Limited to major SRS & NIBRS offenses.

Major & minor incident data by state & year. Some specialized datasets, like arrests.

Promotes the broadest access to the data, but is aimed at more technical audiences. Lacks capability to query individual incidents.

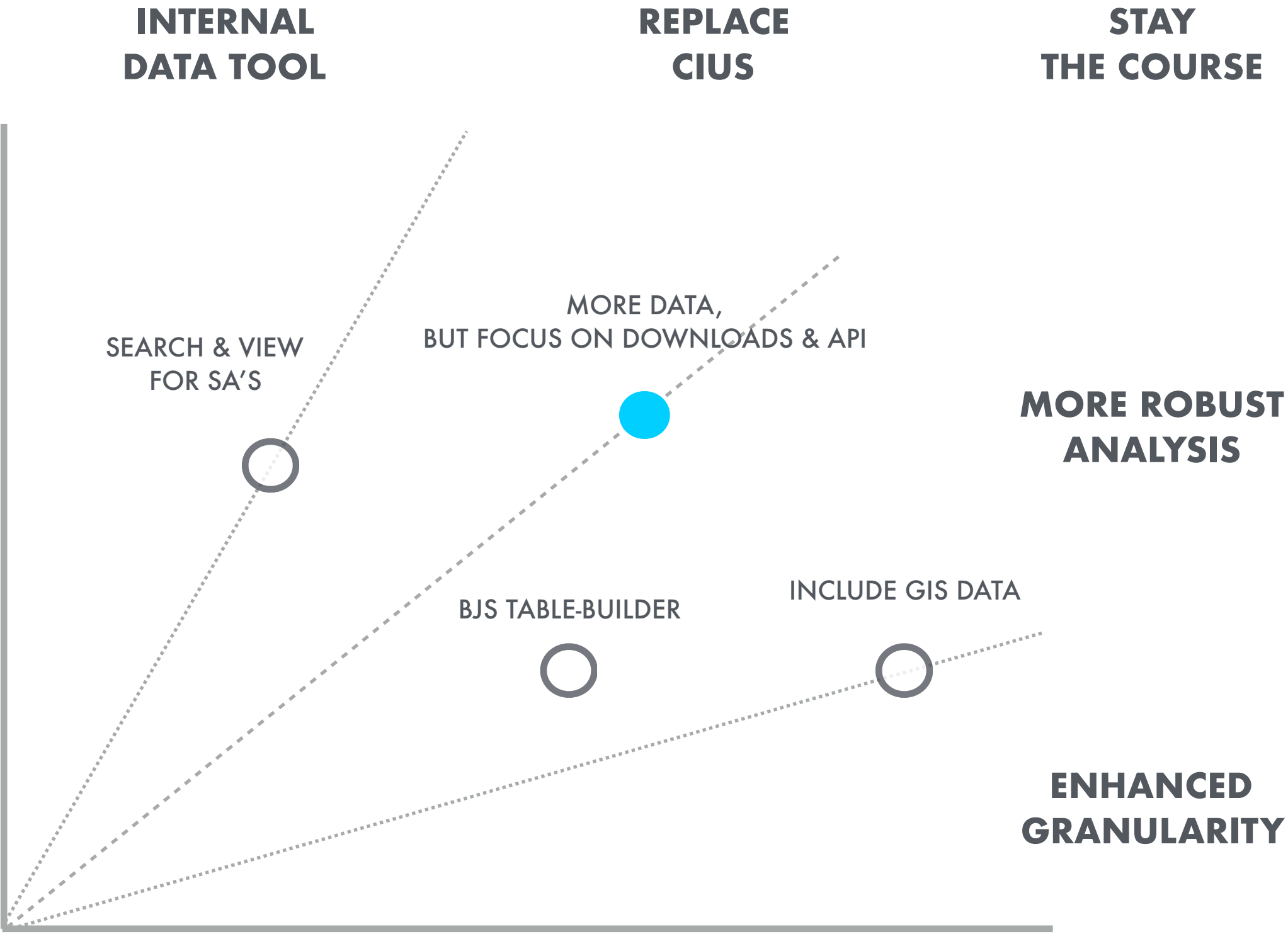
WHERE DO WE GO FROM HERE?

KEY QUESTIONS:

IS THE VISION FOR THE CDE STILL TO IMPROVE ACCESS TO UCR DATA? OR SHOULD IT EVOLVE INTO A MORE SPECIALIZED ROLE?

WHAT HAVE WE LEARNED FROM THE MVP?

SHOULD WE STILL FOCUS ON BOTH LAW ENFORCEMENT & THE GENERAL PUBLIC? WHAT ABOUT INTERNAL USERS & THEIR NEEDS?



All of these things are possible, but not all of them are necessary. What trajectory we set depends on the “why” behind the CDE. What are the 1-2 things the CDE should continue to do well?

MINDSET: PRODUCTS AS CATALYSTS FOR CHANGE

THE CDE MEETS AN IMMEDIATE BUSINESS NEED,
BUT IS **PART OF A LARGER EFFORT TO
MODERNIZE THE UCR PROGRAM.**

AS WE CONSIDER ITS FUTURE WE SHOULD THINK
OF THE CDE AS PART OF AN EMERGING DIGITAL
ECOSYSTEM, AND IN TERMS OF **PEOPLE &
PROCESSES, NOT JUST TECHNOLOGY.**

- New ways of engaging with the public; different types of inquiries
- More transparency around the program, errors & limitations are more visible
- New internal workflows, methods, and responsibilities



- Improves access to data collected by the UCR program
- Provides a foundation for further UCR modernization and new publication strategies
- Improves access to law enforcement & the general public by offering multiple pathways to the data
- Exposes the FBI to new ways of working, influencing future builds and buys, as well as internal policies

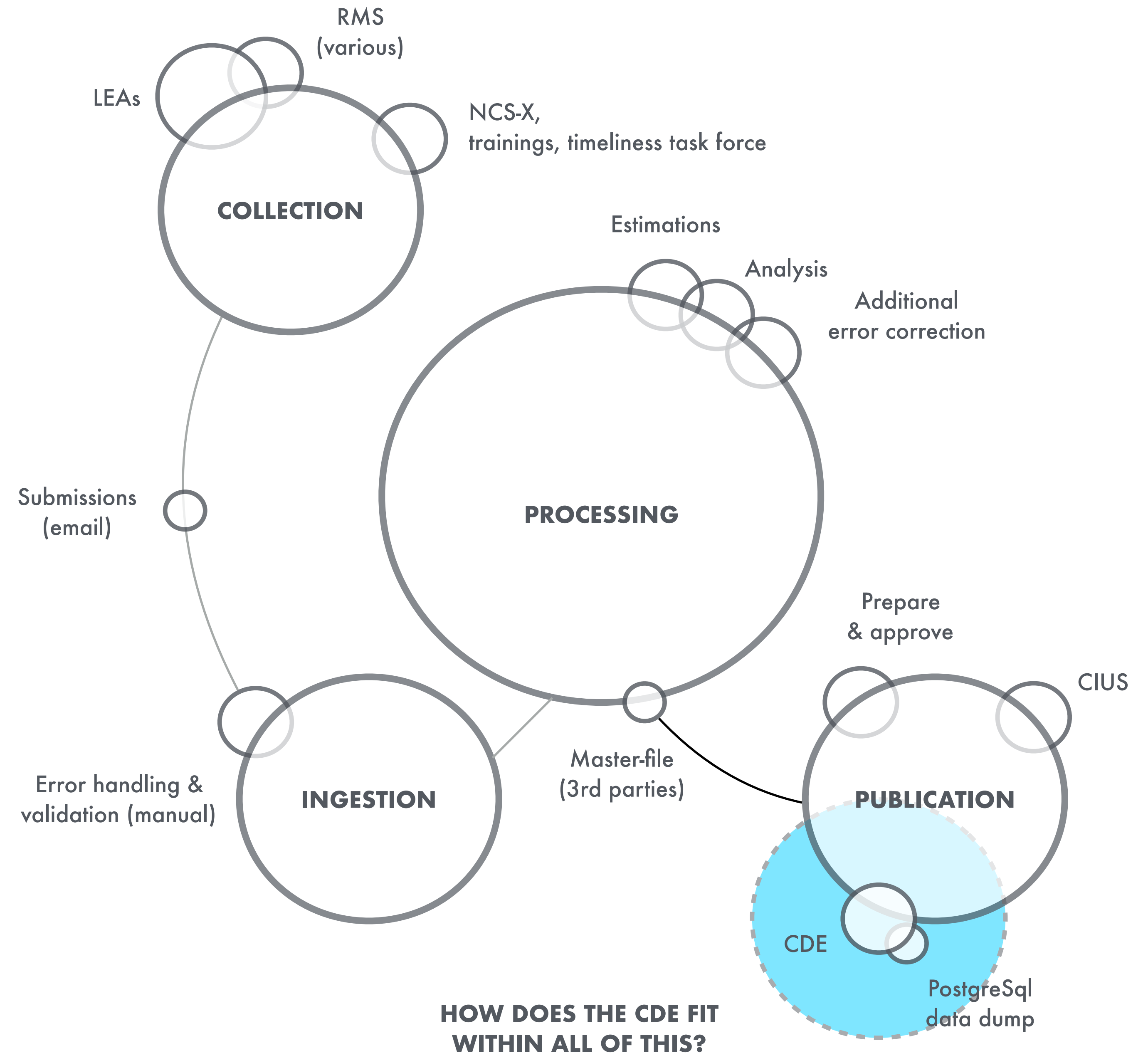
CONTEXT

THE CDE IS A PART OF A LARGER EFFORT TO MODERNIZE THE UCR PROGRAM.

ITS POTENTIAL FOR IMPACT IS DEPENDENT ON THE DATA PROVIDED TO IT BY UPSTREAM SYSTEMS & PROCESSES.

HOW DO WE START THINKING ABOUT ALL OF THIS AS A DIGITAL ECOSYSTEM?

SHOULD WE CONTINUE TO VIEW NEW UCR AS THE CENTER OF THIS ECOSYSTEM, OR SHOULD IT BE BUILT AROUND THE CDE?



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