

Washington/Baltimore



HIGH INTENSITY DRUG TRAFFICKING AREA

Serving the District of Columbia, Maryland and Virginia

USING DATA TO ENHANCE DECISION-MAKING

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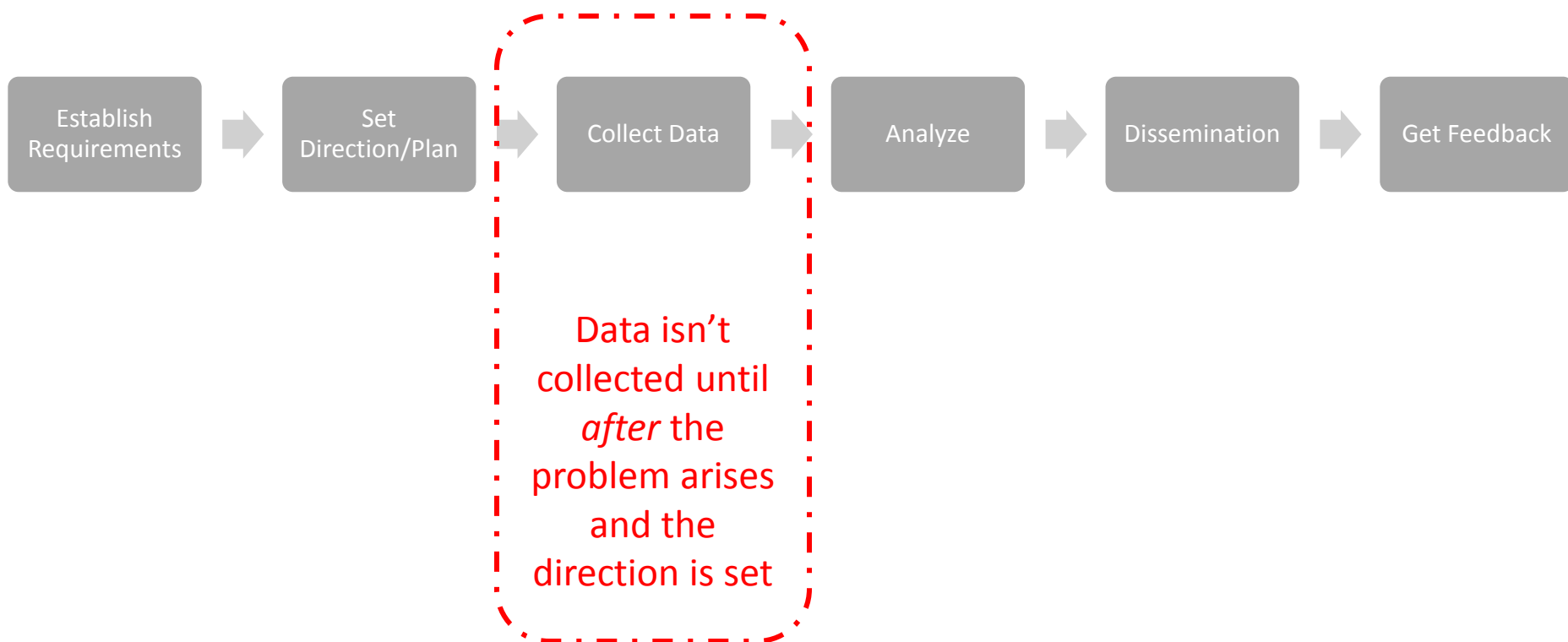
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W/B HIDTA: Big Data Approach

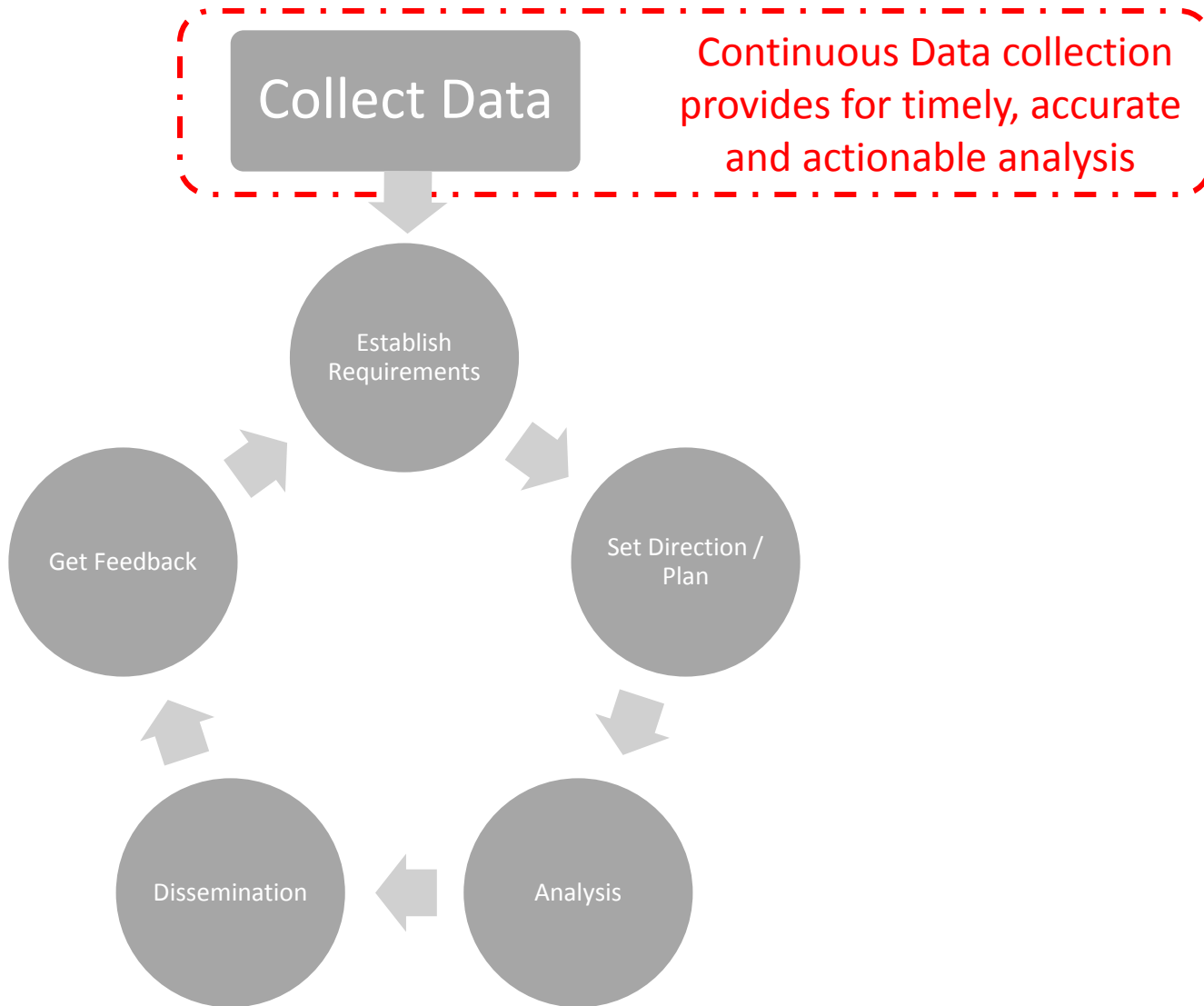
The Problem:

- Decision makers want to know “everything” about a threat or problem the moment it is identified
- They need “actionable” intelligence to assist in making a decision
- They need to be alerted to an issue *before* it has a significant impact on their area of responsibility

Traditional Reactive Intelligence Cycle



Proactive Intelligence Cycle



Proactive Approach: System Requirements

We needed to:

- Quickly collect data from many different sources
- Optimize analyst resources
- Blend internal data with external data sources, including open source data
- Implement an agile system that can quickly adapt to changing requirements, data and business processes

New & Innovative Approach

- Typical focus is solely on tools for “analysis” of data
- W/B HIDTA focused on new tools for the **collection and collation** of data in addition to analysis – while leveraging existing IT systems
- We needed ALL data relevant to our area of responsibility for a given threat

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W/B HIDTA: Projects/Capabilities

Big Data Case Studies

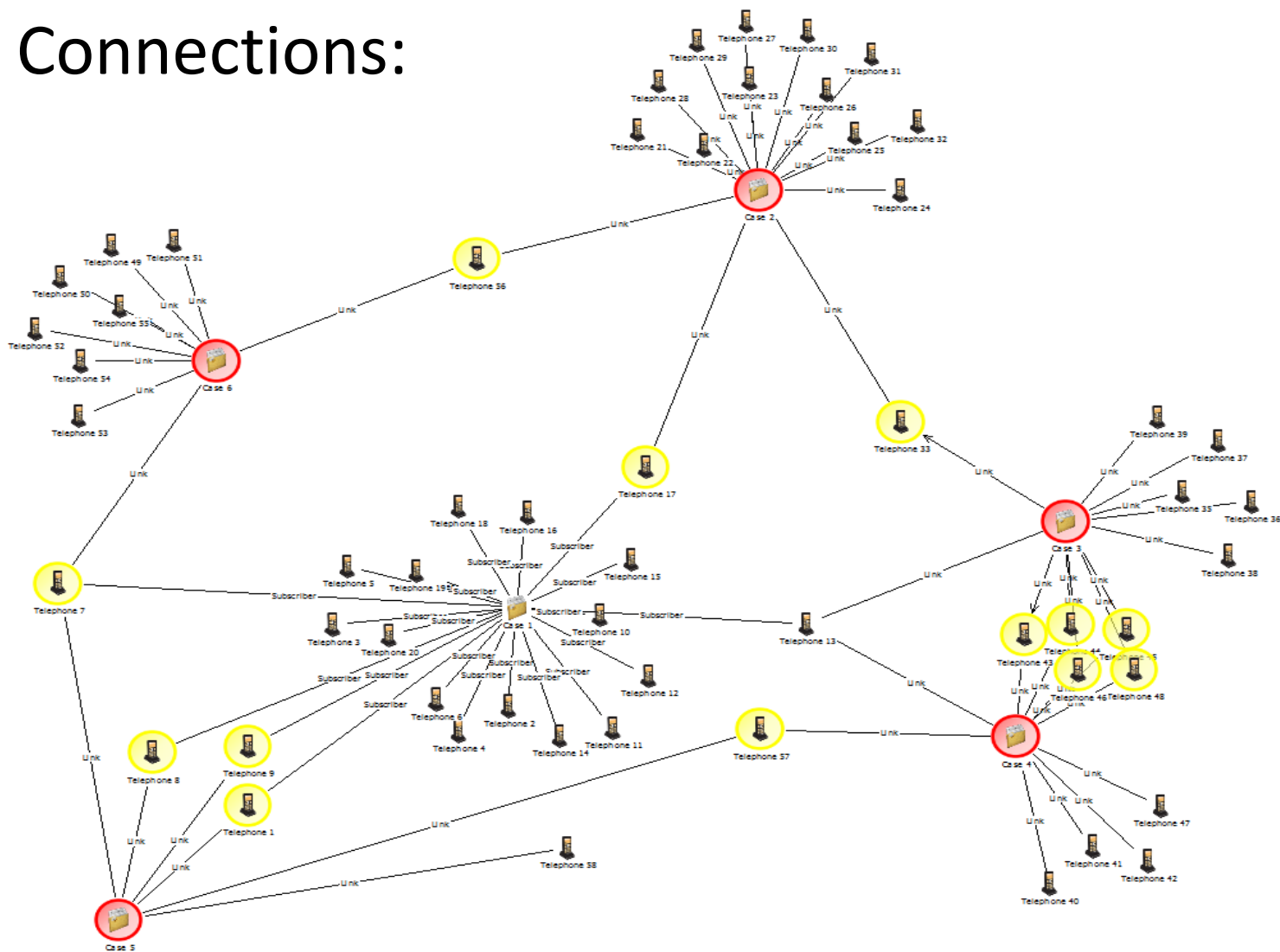
Case Study: Heroin Overdose

Relevant Sources of Data:

- Fatal Overdose Data
- Non-Fatal Overdoes Data
- Communication Data
- Communication Analysis Portal
- Field Debriefs
- Drug Samples
- Case Data
- Parole and Probation
- Arrest Information
- Gang Information
- Treatment Data

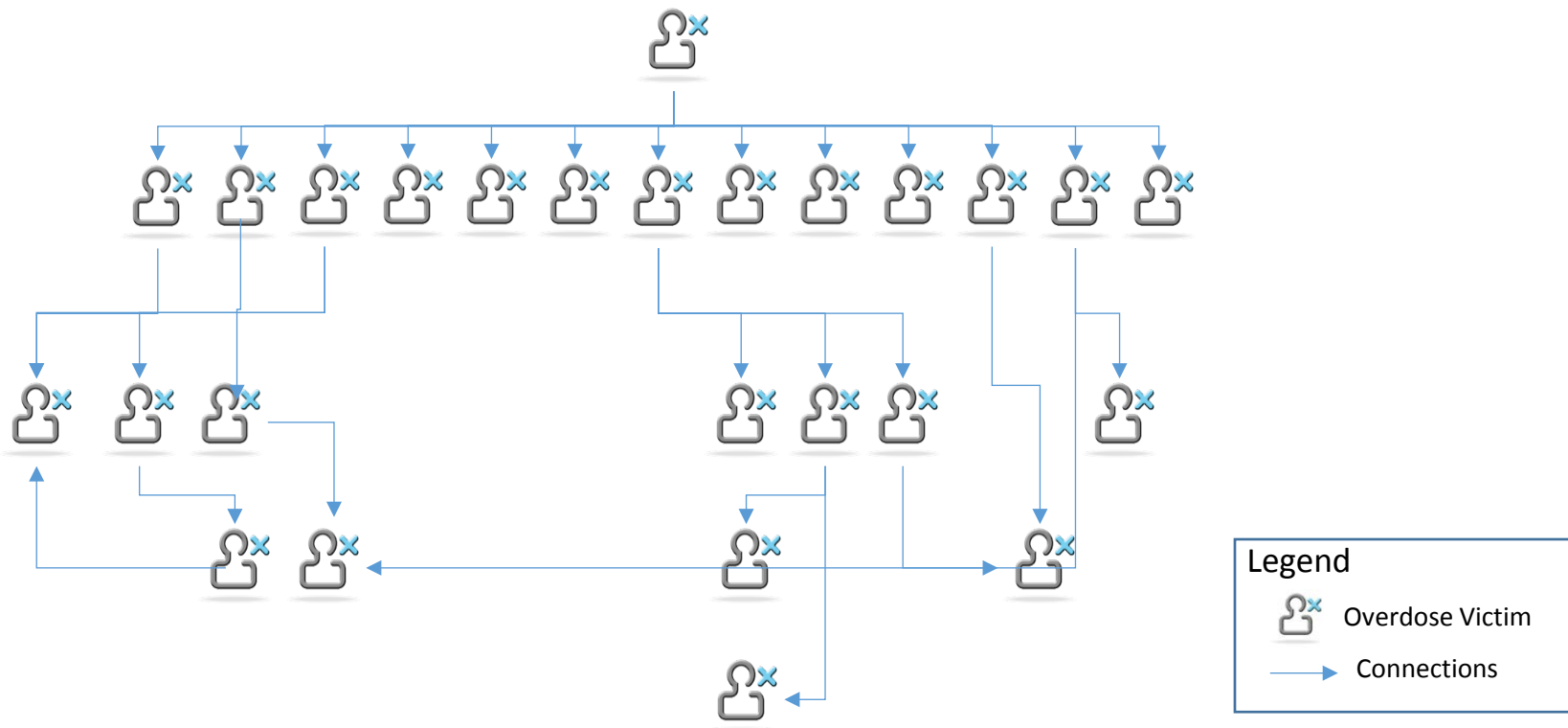
Case Study: Heroin Overdose

Data Connections:



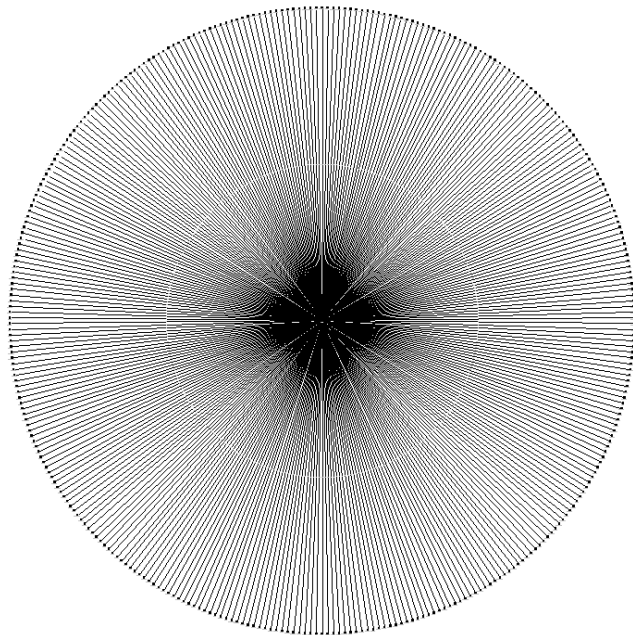
Case Study: Heroin Overdose

Uncovering the Network of Victims through Data:

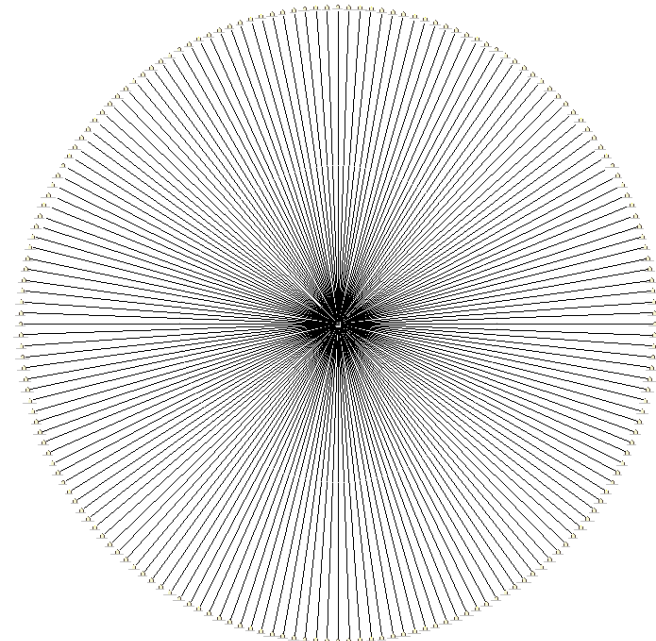


Case Study: Data Collation

When data isn't shared among agencies, you end up with two separate clusters of minimal value:



Agency A's Data

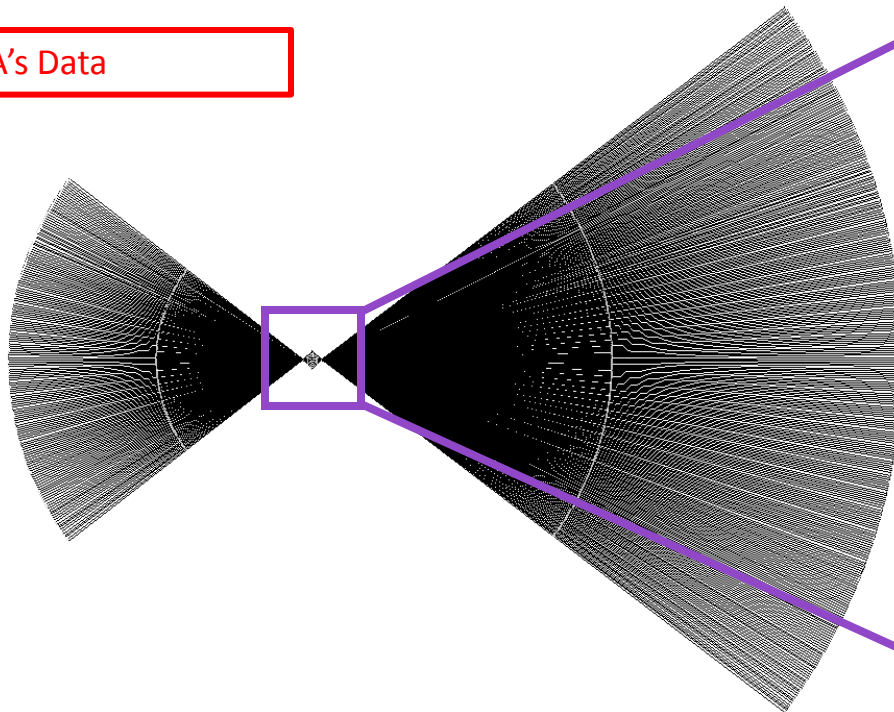


Agency B's Data

Case Study: Data Collation

Sharing of data leads to actionable intelligence:

Agency A's Data

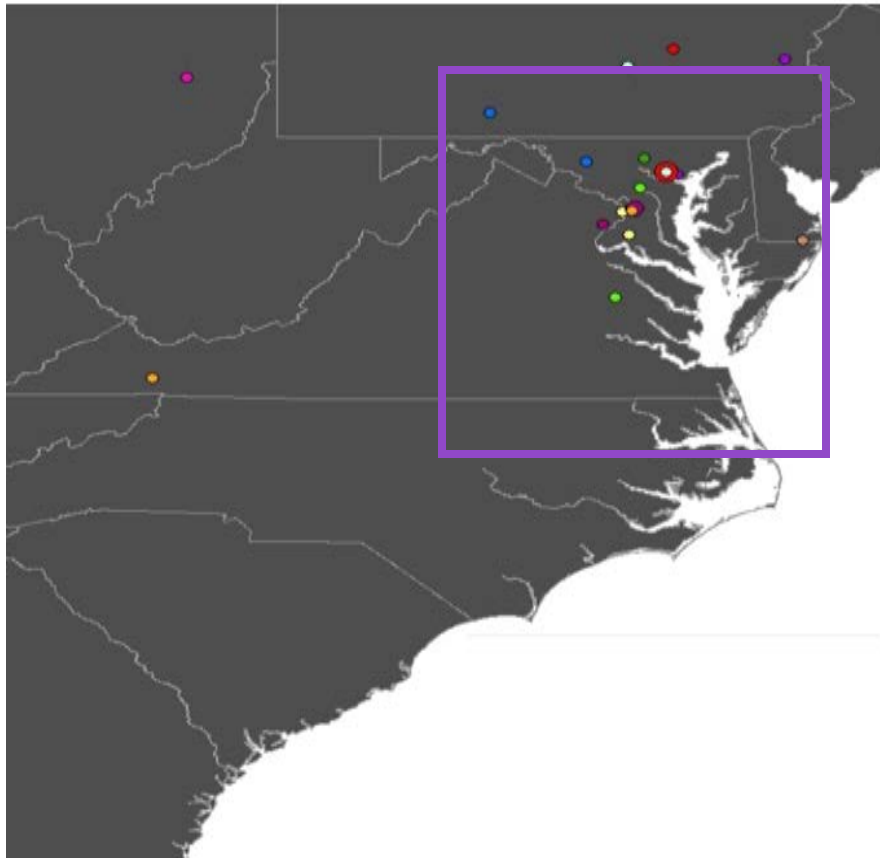


Agency B's Data

Top 20 Targets					
Target	DPP Violent	Homicide	Shooting	Gang Member	Total
1	2	1	3		6
2			5	1	6
3			6		6
4		1	4		5
5		2	2	1	5
6		1	3	1	5
7		5			5
8		1	4		5
9	1		3		4
10		1	3		4
11	1	2	1		4
12	2	1	1		4
13		2	1	1	4
14		2	2		4
15	1		3		4
16			3	1	4
17	1		2	1	4
18		1	3		4
19			3	1	4
20			3	1	4

Case Study: Movement of Crime

A pattern in overdoses victims was identified via data collated from many disparate sources



Color coded dots represent the home location and death location of victims. All deaths are in Maryland.

We were able to utilize this data to identify the overdoses victims were specifically coming to Maryland for their drugs.

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Questions?