

# Data Analytics Pilots: Progress Report and Future Planning

Data Analytics Advisory Committee

---

September 19, 2023



# **Data Analytics Pilots background**

- Judicial Council Innovations Grant to Orange Superior Court to build a data warehouse to combine data from various case management systems into a central repository for data analysis
- 2019-20 Budget Change Proposal for Data Analytics: five pilots

# Judicial Branch Data Collection Roadmap



AD HOC, MANUAL  
OPERATIONAL DATA  
REPORTING TO  
FULFILL SPECIFIC  
REQUIREMENTS



AUTOMATED,  
OPERATIONAL DATA  
TO MANAGE LOCAL  
OPERATIONS



AUTOMATED  
BRANCHWIDE DATA  
REPORTING WITH  
ANNUAL QUALITY  
VALIDATION



AUTOMATED  
BRANCHWIDE DATA  
REPORTING WITH  
MORE FREQUENT  
VALIDATION

# Pilot Courts

Santa Barbara

Stanislaus

Tulare

Yuba

First and Third District Courts of Appeal

# Pilot types

Trial court operational

Appellate court operational

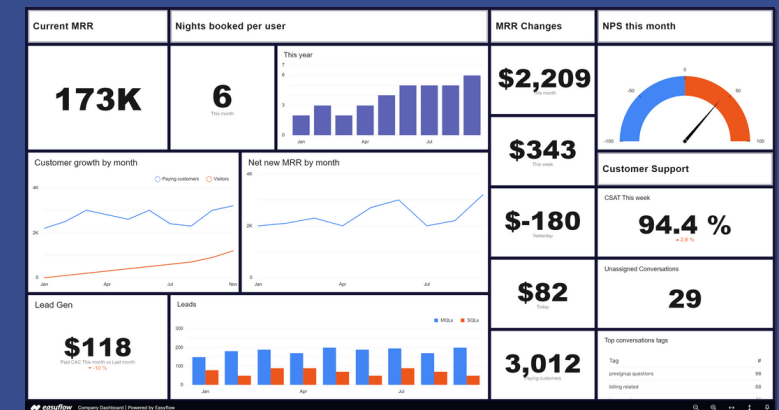
Jury

JBSIS



# What is a dashboard?

- At-a-glance view of key performance metrics
- Not a report
- Represents a specific moment in time
- Indicator of potential trends

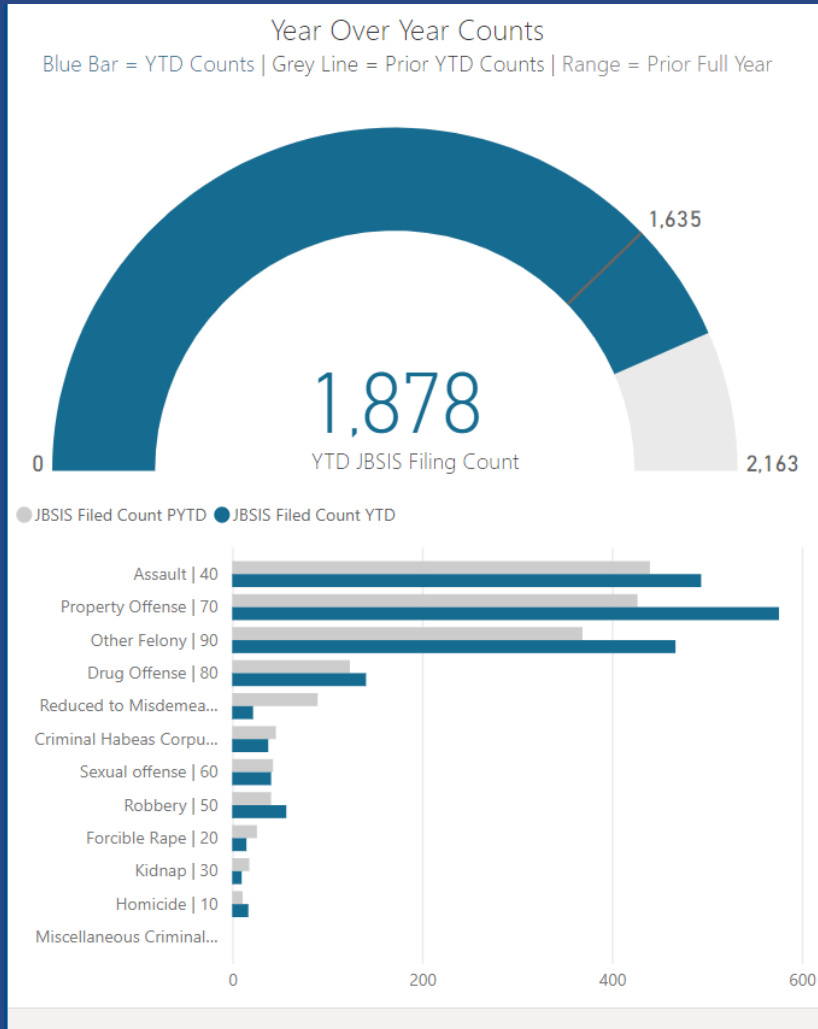


# Use Case #1: Trial Court Operational Dashboards

Use data for instrumentation to manage daily operations and for planning

Bring analytics to courts with limited technical resources

# Trial Court Operational Dashboard: Year Over Year Counts



- Counts compared to previous year-to-date
- More contemporary information than currently available



# Use Case #2: Appellate Operational Dashboards

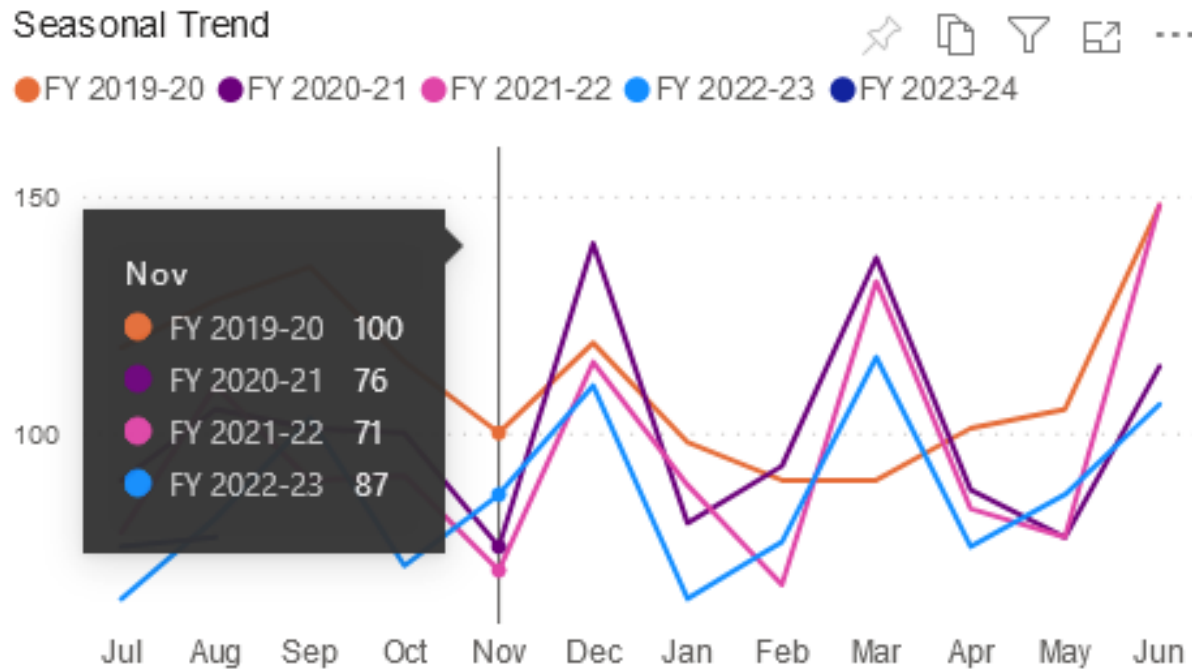


Ability to create standardized and ad hoc reports that can be shared across all Appellate Courts.



Improved ability to track and manage case activity and prepare statistical reports.

# Appellate Operations Dashboards: Opinions Filed



- Shows seasonal variation and allows for planning
- Display multiple years of reports in a single panel

# Use Case #3: Jury and Case Data

Use data to serve the public more effectively by:

- accurately determining the number of jurors needed given case characteristics and past performance
- reducing number of jurors summonsed but not called

# Use Case #4 JBSIS Data Submission Matrix

- Modernizes data submission process
- Allows for better data validation

# JBSIS Data Submission Matrix

## JBSIS Filings

Select a report to the right

## Felonies 07c

JBSIS Report

Felonies 07c

Fiscal Month

Jan

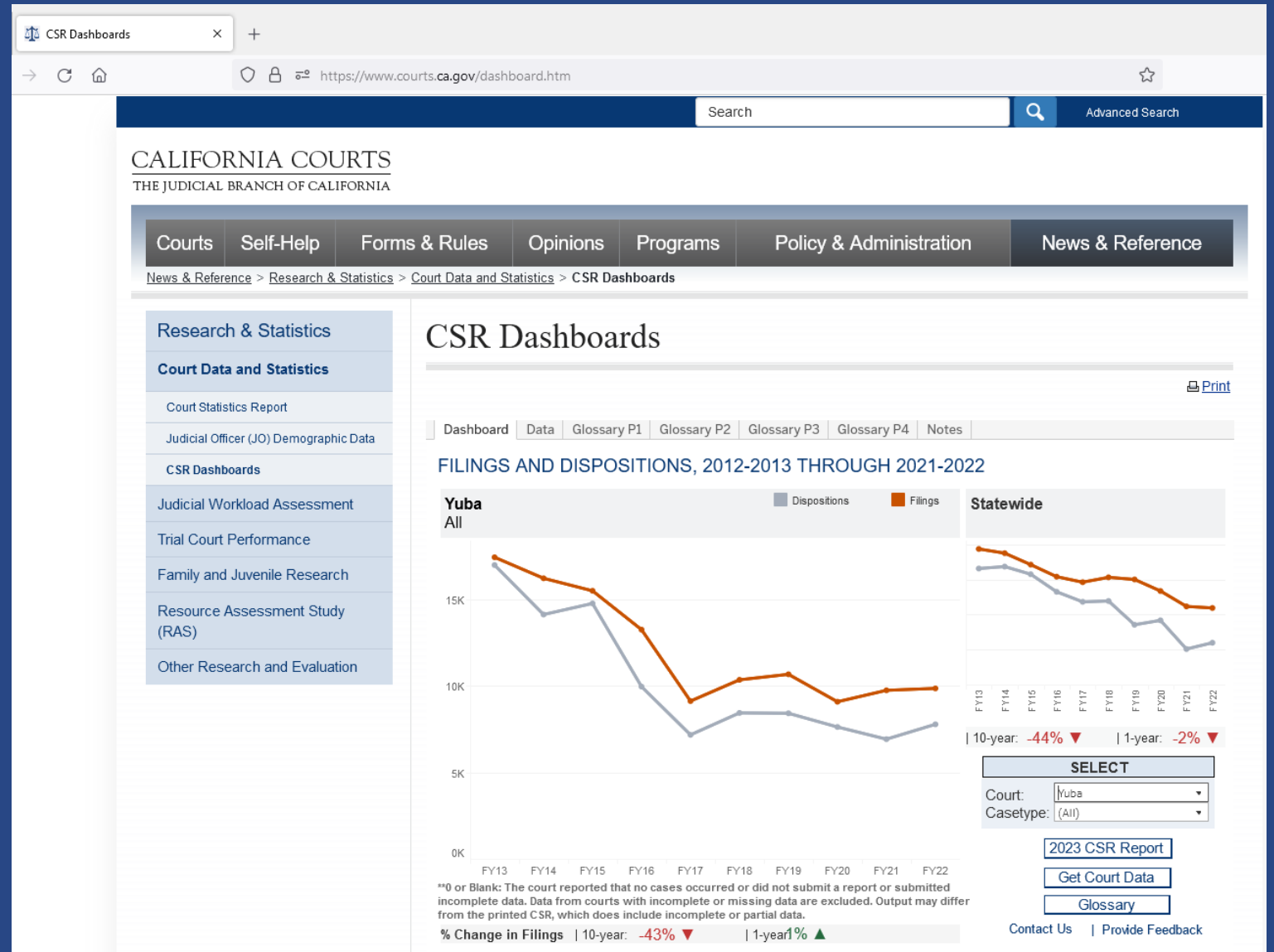
Fiscal Year

FY 2022-23



| JBSIS Row   | 10 Homicide | 20 Forcible Rape | 30 Kidnap  | 40 Assault   | 50 Robbery | 60 Sexual offense | 70 Property Offense | 80 Drug Offense | 90 Other Felony | 100 Mi... | 110 Red... | 120 Crimin... | Total         |
|---|-------------|------------------|------------|--------------|------------|-------------------|---------------------|-----------------|-----------------|-----------|------------|---------------|---------------|
| 07C   50 Inventory  |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   100 Beginning pending   | 40          | 98               | 29         | 749          | 91         | 119               | 875                 | 369             | 654             | 15        | 49         | 2,306         | 5,394         |
| 07C   200 Filings (total rows 300-700)                                  |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   300 Complaint (+)   | 3           | 1                | 1          | 54           | 6          | 9                 | 53                  | 17              | 59              |           | 2          |               | 205           |
| 07C   400 Indictment (+)  |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   600 Transfer-in (+)   |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   700 Petition (+)  |             |                  |            |              |            |                   |                     |                 |                 |           |            | 5             | 5             |
| 07C   800 Reopened (+)  |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   900 Restored to court's control (+)                               |             |                  |            | 2            |            | 1                 | 13                  | 1               | 6               | 2         | 4          |               | 29            |
| 07C   950 Existing case entered in CMS (+)                              |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1000 Removed from court's control (-)                             |             |                  |            |              |            |                   | 6                   |                 | 1               | 1         | 3          |               | 11            |
| 07C   1100 Total dispositions (-)                                       |             | 2                | 1          | 33           | 6          | 4                 | 48                  | 13              | 35              | 4         | 41         | 9             | 196           |
| 07C   1200 End pending (=)  | 43          | 97               | 29         | 772          | 91         | 125               | 887                 | 374             | 683             | 12        | 11         | 2,302         | 5,426         |
| 07C   1300 Dispositions (total rows 1310; 1400; 2000; 2500; 3000-3100)  |             | 2                | 1          | 33           | 6          | 4                 | 48                  | 13              | 35              | 4         | 41         | 9             | 196           |
| 07C   1310 Before preliminary hearing (total rows 1315-1332; 1350-1355) |             |                  |            | 17           | 5          | 2                 | 37                  | 6               | 23              |           | 28         |               | 118           |
| 07C   1311 Dismissal/Transfer   |             |                  |            | 7            |            | 1                 | 13                  | 1               | 4               |           | 1          |               | 27            |
| 07C   1312 Transfer   |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1315 Change of venue  |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1320 Intracounty transfer   |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1325 Consolidated   |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1330 Reduced to/processed as misdemeanor                          |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1332 Dismissals (total rows 1335-1345)                            |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1335 Dismissal after diversion                                    |             |                  |            | 1            |            |                   |                     |                 |                 |           |            |               | 1             |
| 07C   1340 Dismissal after drug court                                   |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1345 Other dismissal  |             |                  |            | 6            |            | 1                 | 13                  | 1               | 4               |           | 1          |               | 26            |
| 07C   1349 Conviction   |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1350 Bail forfeiture  |             |                  |            |              |            |                   |                     |                 |                 |           |            |               |               |
| 07C   1355 Sentenced-Plea of guilty/nolo contendere                     |             |                  |            | 10           | 5          | 1                 | 24                  | 5               | 19              |           | 27         |               | 91            |
| 07C   1400 After preliminary hearing (total rows 1405-1435; 1450-1455)  |             | 2                | 1          | 16           | 1          | 2                 | 11                  | 7               | 12              |           | 13         |               | 65            |
| <b>Total</b>  | <b>171</b>  | <b>349</b>       | <b>143</b> | <b>3,071</b> | <b>429</b> | <b>401</b>        | <b>3,308</b>        | <b>1,263</b>    | <b>2,553</b>    | <b>50</b> | <b>660</b> | <b>4,643</b>  | <b>17,041</b> |

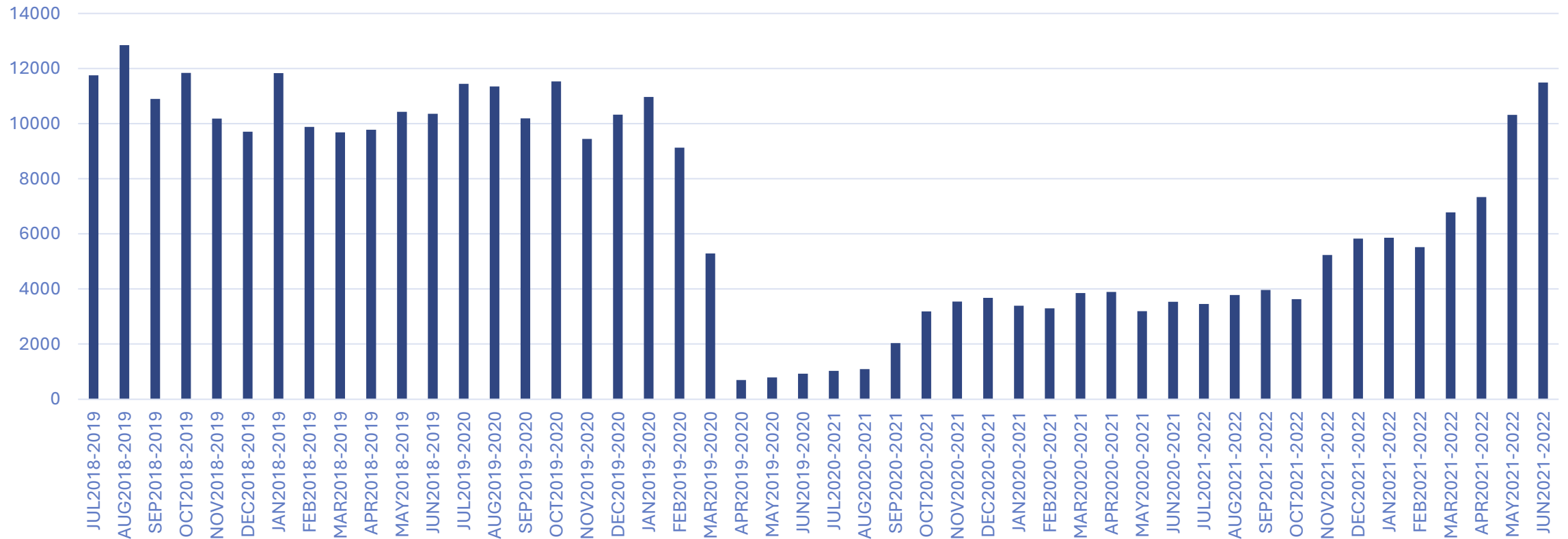
# CSR dashboard





# Unlawful detainer data

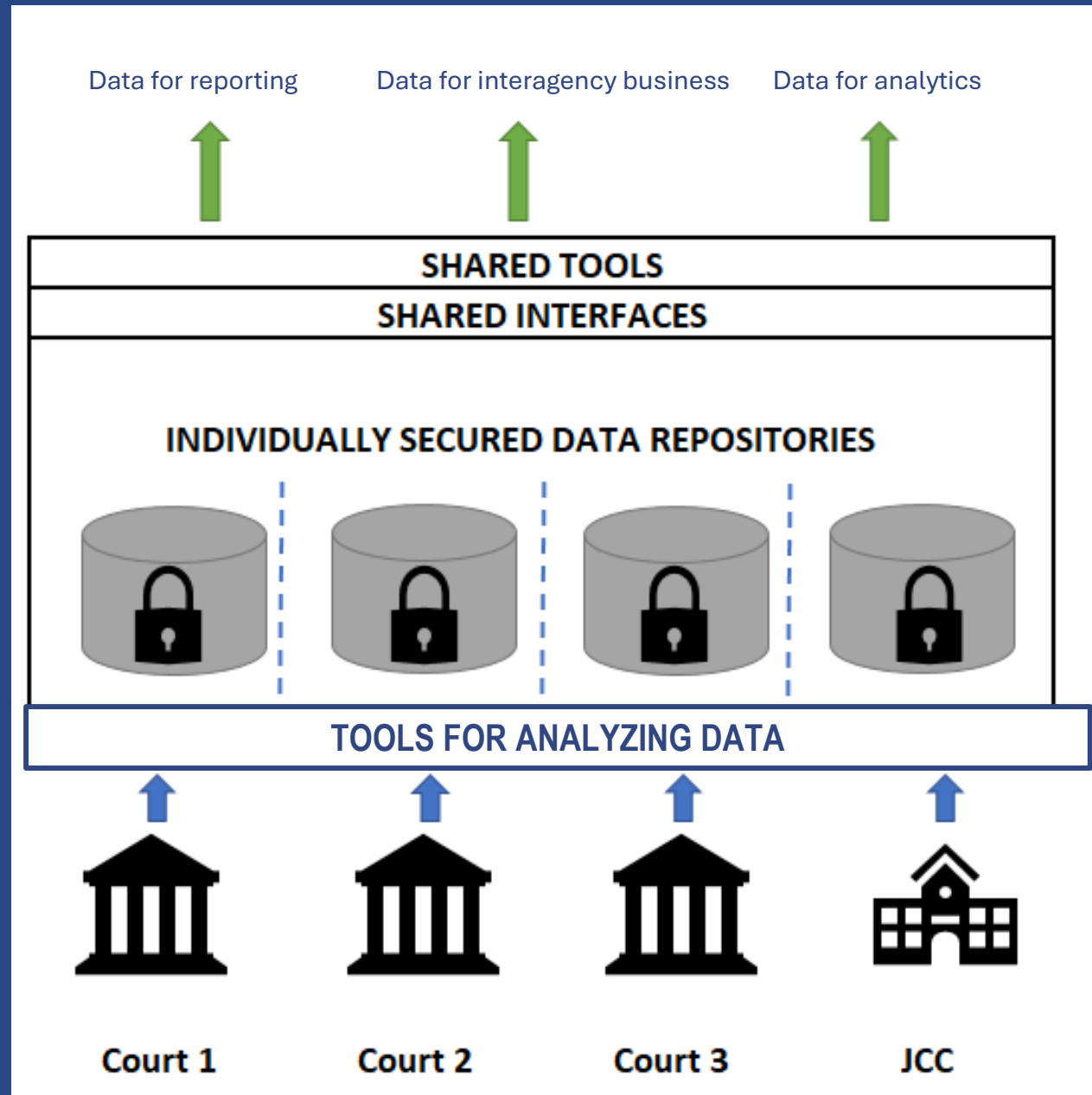
**Monthly UD filings**  
July 2018 through June 2022  
(58 courts reporting)



# Pilot steps completed

- Design a technical platform
- Establish connection between courts and new platform
- Court mapping case management data to a common data dictionary
- Test and validate data submission process

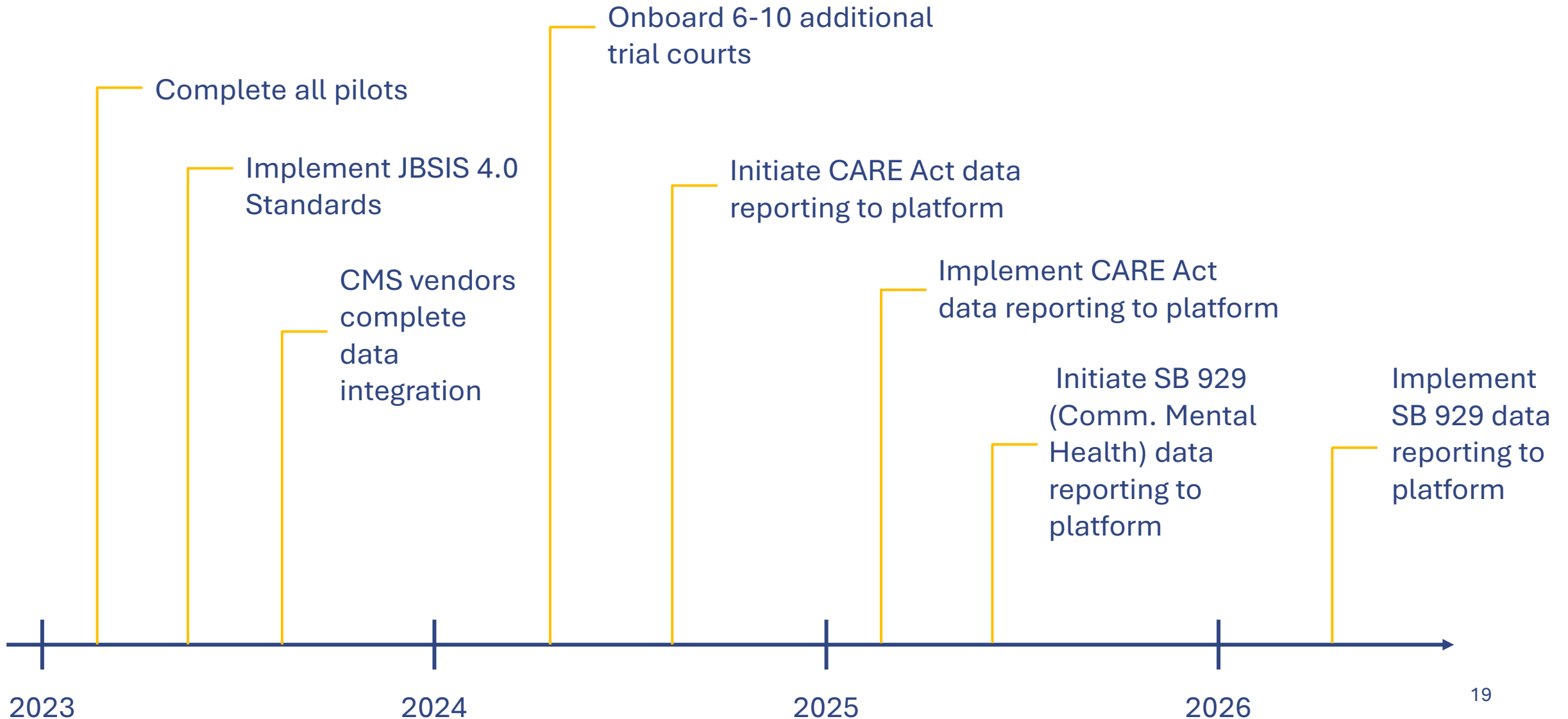
# Technical Architecture



# Pilot evaluation candidate criteria

- Do the pilot projects offer value to courts?
- Does the technical solution meet the pilot requirements?
- Will the platform provide better access to public data?
- Can the pilot outcomes be replicated across all courts?

# Data Analytics/Data Integration Roadmap



# Future work requires additional funding for branchwide deployment

- Onboarding additional courts to pilot platform
- Data warehouse to include JBSIS 4.0 Standards
- Additional data sources and reporting requirements
- Increase data validation cycles
- Move beyond foundational data reporting



# 2023 Data Summit

The background image shows a large conference room with a high ceiling and recessed lighting. Several people are seated at long tables covered with dark cloths, facing a stage area. A man in a patterned shirt is standing at the front, presenting to a large screen. An American flag is visible on the stage. The overall atmosphere is professional and collaborative.

200 participants

40+ courts

Court leaders, analysts,  
judicial officers



**Thank you**  
**Questions?**