

SAS – JUVENILE JUSTICE ANALYTICS

KAY MEYER AND WILL JONES



JUVENILE JUSTICE

- More than 60,000 juvenile offenders are held in residential placement throughout the US
- More than 65% youth in the juvenile justice system have a diagnosable mental health disorder
- Juvenile recidivism measurements vary from state to state in definition and approach

The primary goal is to achieve positive outcomes for youths in Arkansas

DATA MANAGEMENT AND ANALYTICS

1 Data Management and Integration

WHAT DO WE KNOW ABOUT YOUTHS?

1. Develop a comprehensive understanding of a youth
2. Provide access to accurate, reliable, timely information

2

3

CJLEADS CRIMINAL HISTORY OVERVIEW

Offender info for: JOHN JULIAN PORTER

JOHN JULIAN PORTER AWC OFA SOR GNG CHP

SSN: XXX-XX-1111 FBI ID: 122233JB1 SID: NC9988776A Age: 34 DOC ID: 0327401 DL: NC-16400000

Lookup Report Watch Merge

Summary Images Timeline Court Records Outstanding Jail Prison DV ComCorr SOR Gangs Marks

JOHN JULIAN PORTER AWC OFA SOR GNG CHP Most Recent Update: 03/01/2011

Address (03/01/2011): 801 N OAK STREET, DURHAM, NC 27707

Birth Date: 01/01/1976 FBI ID: 122233JB1

Age: 34 SID: NC9988776A

Race: WHITE SSN: XXX-XX-1111

Gender: MALE DL: NC-16400000

Height: 5'7" DOC ID: 0327401

Weight: 219

Eyes: BROWN SRN ID: 3456781

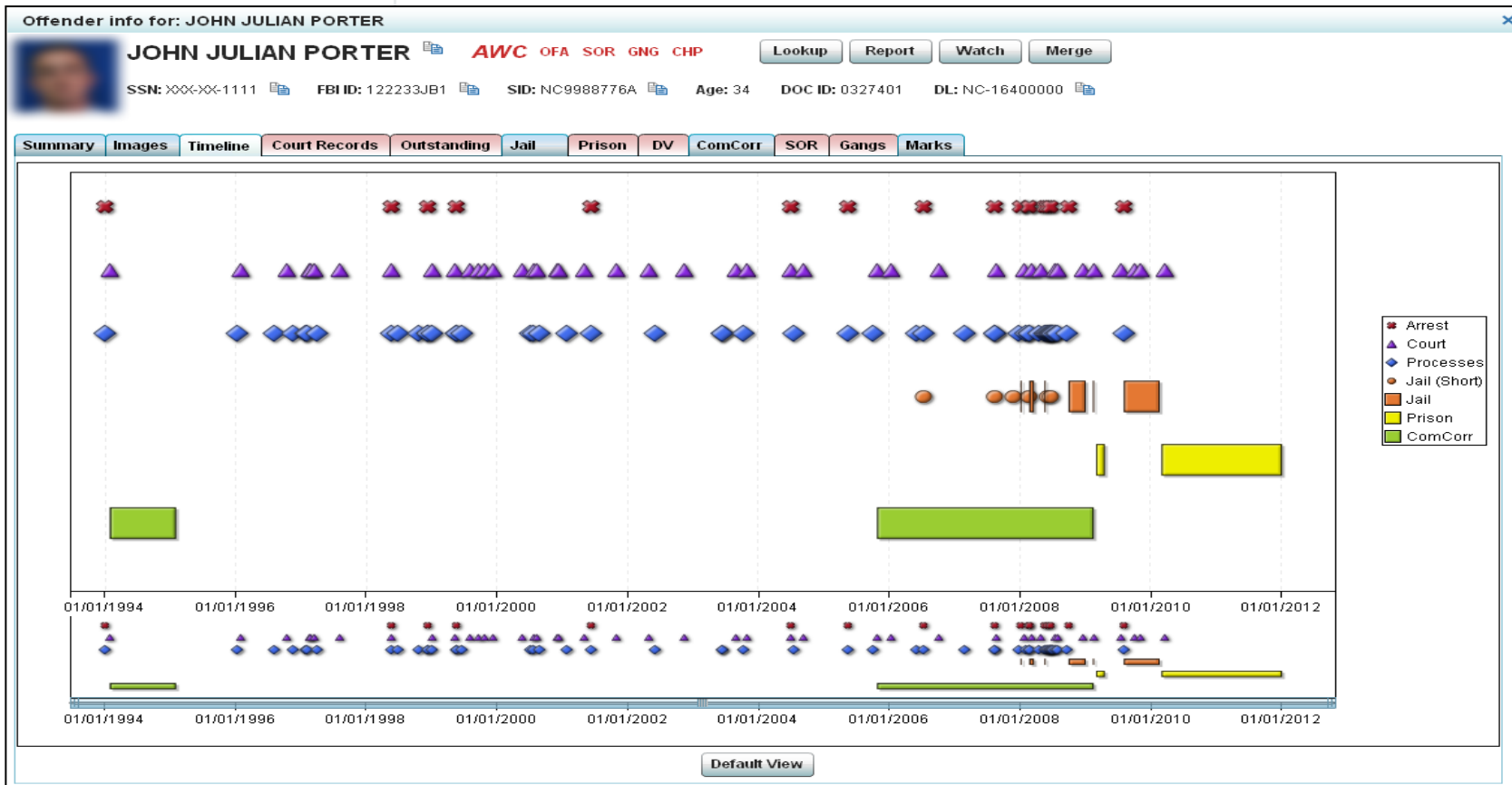
Hair: BLACK Occupation:

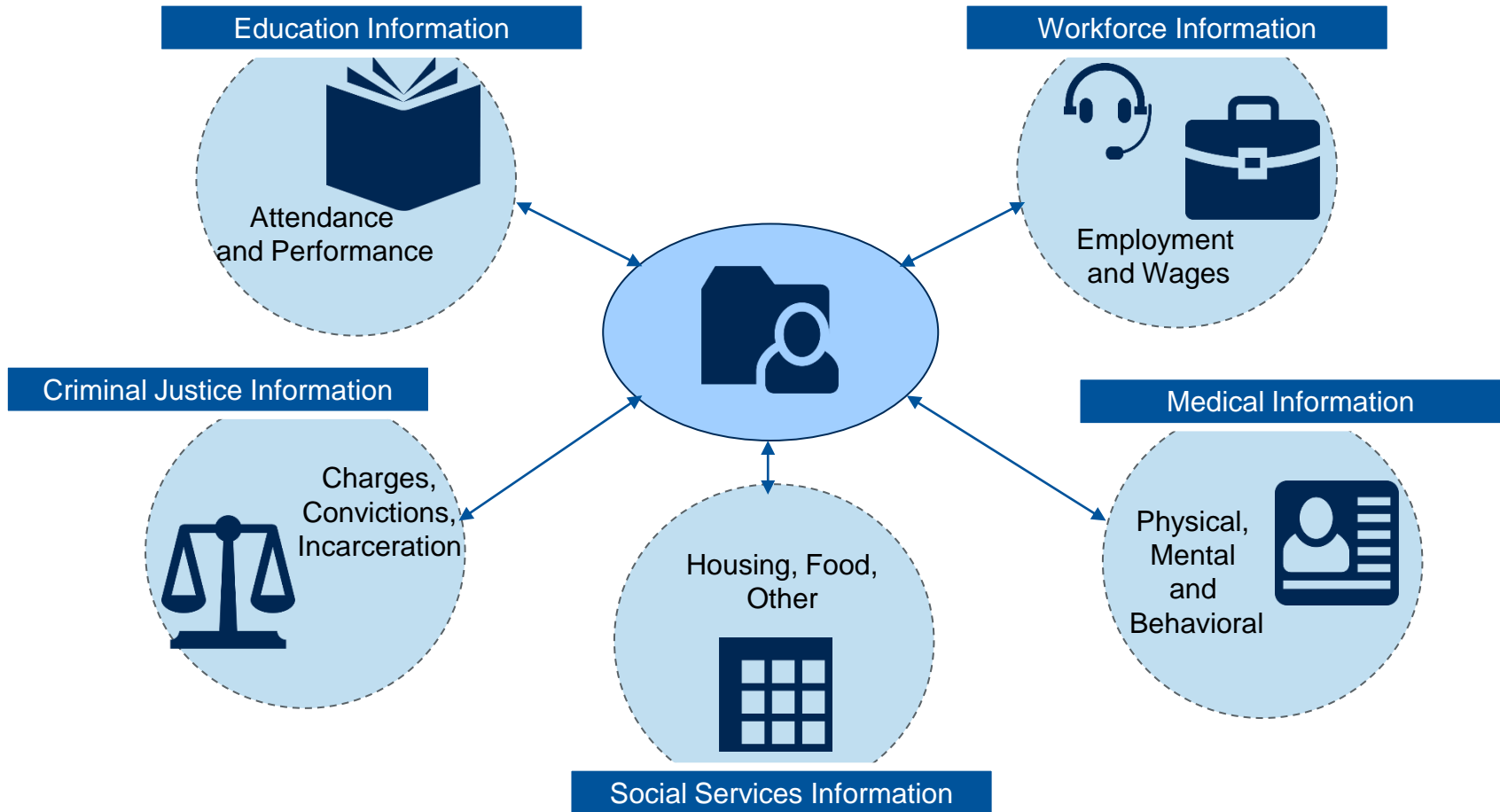
DOC 03/30/2009 →

[More...](#)

<p>Outstanding Processes</p> <p>Unserv'd Processes - 0</p> <p>Felony - 0</p> <p>Misdemeanor - 0</p> <p>Infraction - 0</p> <p>Traffic - 2</p>	<p>NC Court Records</p> <p>Pending - 2</p> <p>Disposed - 64</p>	<p>Jail</p> <p>Current - No</p> <p>Previous - Yes</p> <p>Escaped - No</p>
<p>Prison</p> <p>Current - Yes</p> <p>Previous - Yes</p> <p>Escaped - No</p>	<p>Community Corrections</p> <p>Current - No</p> <p>Previous - Yes</p> <p>Absconded - No</p>	<p>Sex Offender Registry</p> <p>Pending Registration - No</p> <p>Active Registration - Yes</p> <p>Prior Registration - Yes</p> <p>Registration Type - AGGRAVATED OFFENDER</p> <p>Registration Contact Agency - Wake</p>
<p>Marks / Scars</p> <p>Yes</p>	<p>Gang Affiliations</p> <p>Yes</p>	<p>Domestic Violence</p> <p>Case(s) - 3</p>

CJLEADS CRIMINAL HISTORY TIMELINE





Drop controls here to create a section prompt

Client Profile Report

[Lookup/add key relationships](#)

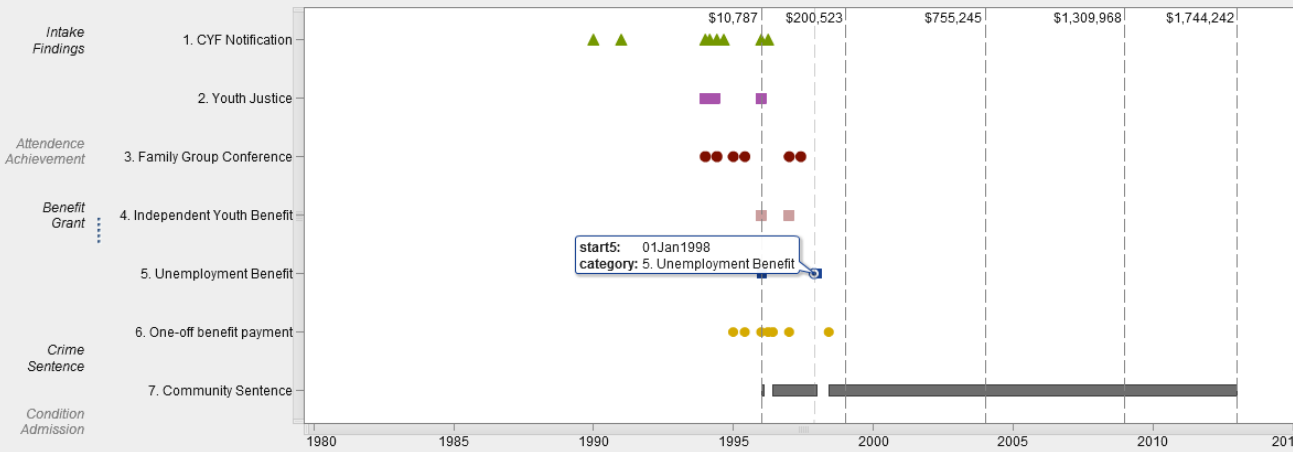
[Interactive risk assessment](#)

[Propensity / forward projections](#)

Client ID	Given Names	Surname	Address 1	Address 2
123	Bob		89 The Terrace	Wellington

Service Centre	Street	City	Region
Anglesea Tower	Cnr Collingwo...	Hamilton City	Waikato
Cambridge	69 Duke St	Cambridge	Waikato

Accumulating Total



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2 Data Analytics

HOW DO WE GAIN INSIGHT?

1. Develop risk and need assessment models
2. Develop analytics to match needs to services
3. Develop predictive models to drive positive outcomes

3

SAS RISK AND NEED ASSESSMENT ANALYTICS

Data Mining Solution

Help

Cases

Participant Profile

Hot List



Filter

Filter Panel



Cases

Filters

▼ Companion Case

All (20)

(null) (18)

00001 (2)

▶ Child Name

▶ Age

▶ Address

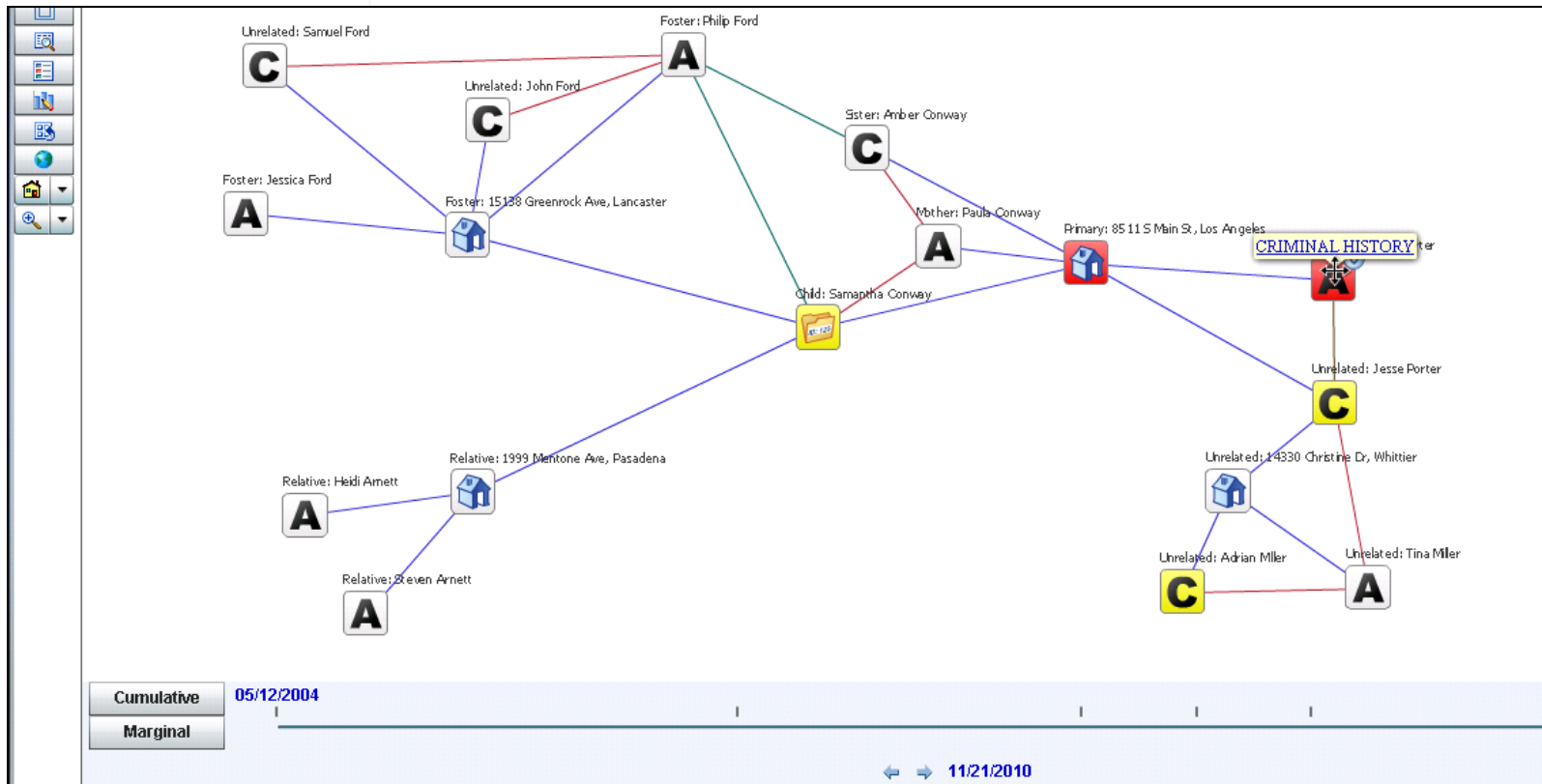
▶ Previous CPS Visits

▶ 30-day Risk

▶ 180-day Risk

<input type="checkbox"/>	Child Name	Age	Address	Previous CPS Visits	Total Score	Risk Level	30-day Risk	180-day Risk	Policy Override
<input checked="" type="checkbox"/>	Samantha Conway	6	8511 S Main St, Los Angeles	2	23	Very High	Very High	Very High	
<input type="checkbox"/>	Dominic Outten	8	11212 Zamora Ave, Los Angeles	0	21	Very High	Very High	Very High	
<input type="checkbox"/>	Cassi Burton	11	7033 Kittyhawk, Westchester	1	20	Very High	High	High	
<input type="checkbox"/>	Raymond Saiz	7	1712 S Hamilton Blvd, Pomona	2	20	Very High	Very High	Very High	3
<input type="checkbox"/>	Sophia Manzo	9	10441 Bisby St, El Monte	0	20	Very High	Very High	Very High	
<input type="checkbox"/>	Saraya Smith	3	4200 Avalon Blvd, Los Angeles	0	19	Very High	Very High	Very High	
<input type="checkbox"/>	Brandon Taylor	2	1467 Siesta Ave, La Puente	0	19	Very High	Very High	Very High	
<input type="checkbox"/>	Lania Finley	7	239 S Magaret Ave, Los Angeles	2	19	Very High	Very High	Very High	
<input type="checkbox"/>	Mashyia Colvin	11	19207 Cliveden Ave, Carson	0	19	Very High	Very High	Very High	2
<input type="checkbox"/>	Hailey Morse	9	14120 Roscoe Blvd, Panorama City	3	19	Very High	Very High	Very High	
<input type="checkbox"/>	David Hicks	9	6238 Idyllwild Cor, Rialto	2	19	Very High	Very High	Very High	
<input type="checkbox"/>	Breana Gomez	0	19366 Greyhall St, Rowland Hts	0	16	High	High	High	
<input type="checkbox"/>	Janyah Hall	2	11536 Gorman Ave, Los Angeles	0	16	High	High	High	
<input type="checkbox"/>	Leah Payton	7	623 W Cedar St, Ontario	0	16	High	High	High	
<input type="checkbox"/>	Jessica Rojas	1	1908 E Cienega Ave, Covina	1	15	High	Very High	Very High	
<input type="checkbox"/>	Melanie Phillips	8	1166 W Grant St, Wilmington	0	13	High	High	High	
<input type="checkbox"/>	Craig Mitchell	6	21024 Stagg St, Canoga Park	0	13	High	High	Moderate	
<input type="checkbox"/>	Ivan Acosta	2	9160 Telfair Ave, Sun Valley	0	13	High	High	High	
<input type="checkbox"/>	Jamar Randolph	1	45121 N Date, Lancaster	0	11	High	High	High	
<input type="checkbox"/>	Juan Escamilla	1	18209 Sierra Hwy, Canyon Country	0	11	High	Very High	Very High	

SAS RISK AND NEED ASSESSMENT ANALYTICS



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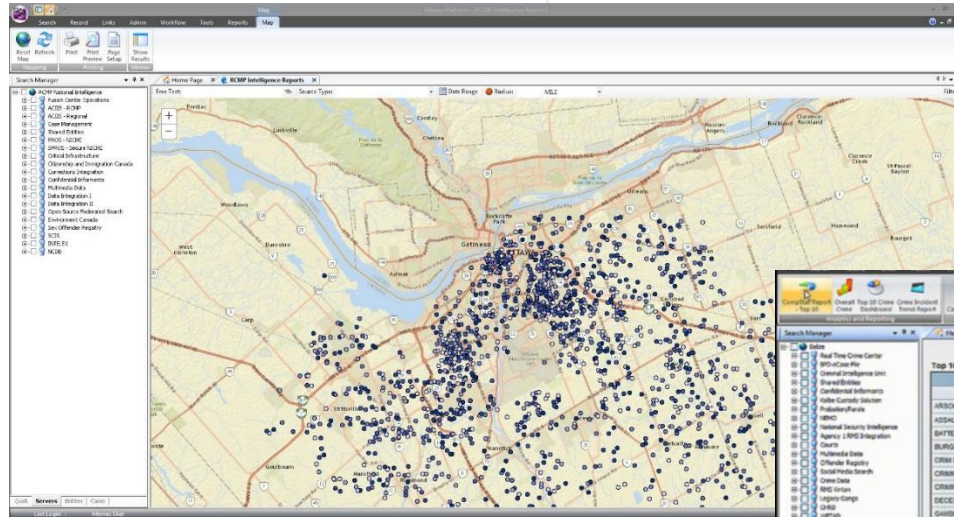
1. Develop risk and need assessment models
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3 Reporting and Insight

HOW DO WE IMPACT OUTCOMES?

1. Allow data to drive policy and process
2. Recognize trends and patterns and proactively take action
3. Increase transparency and accountability

SAS DATA VISUALIZATION AND REPORTING



DATA AND ANALYTICS CAN SUPPORT

- Access to timely, comprehensive information
- Proactive risk and need assessments
- Insight in the effectiveness of intervention, diversion and treatment programs
- Data-driven policy decisions
- Improved outcomes and reduced costs



**THE
POWER
TO KNOW.**