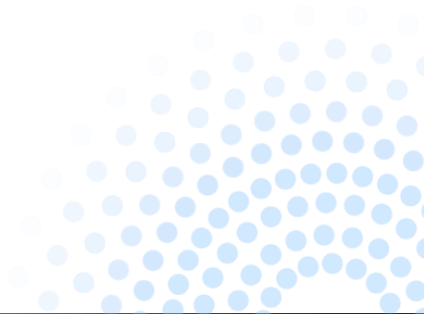


# EXPLORING A DATA DRIVEN APPROACH TO CHILD WELFARE



## **New Hanover County / SAS Partnership**

- More accurate case-level risk assessments
- Improved response prioritization
- Shorter response times when it matters



## **From July, 2016 through June 2017**

- 4,334 children were subjects of maltreatment reports
- 883 children were subjects of maltreatment investigations
- 3,451 children were subjects of alternative response measures

[http://fosteringcourtimprovement.org/nc/County/New\\_Hanover/](http://fosteringcourtimprovement.org/nc/County/New_Hanover/)

## **What does the analytic solution offer?**

- Better identification of individuals through entity resolution
- Interactive historical views surrounding past cases and individuals
- Risk assessment to provide guidance on repeat offenders

## **How is the analytic solution leveraged?**

- New case screening / intake
- Ongoing case management
- Automated alerting when case dynamics change

# ALERTING POTENTIAL THREAT IDENTIFICATION

## Alerting methodology developed to notify Case Workers of potential threats

- Alerts generated nightly
- Automated e-mails sent to Case Workers with links to the user interface

## SAS Generates Two Classes of Alerts

- JMS Alerts
  - Two basic concepts
    - Individuals recently arrested
    - Individuals recently released
  - Alert scores determined by individuals' past arrest charges
- Emergency Call Alerts
  - Uses CAD call data to identify individuals potentially at risk
    - Matches CAD call locations to individuals' addresses through geospatial search
  - Alerts are generated when individuals are identified near high-risk call types

# JMS ALERTING EXAMPLE

## ALERT DETAIL VIEW

The screenshot shows the SAS Visual Investigator interface for an alert. The browser address bar shows the URL: `nhcvi-prod.nhcvi.ondemand.sas.com/SASVisualInvestigator/index.html#/document/alerts/Alert_48174915`. The application title is "SAS Visual Investigator - Alert".

The main content area is divided into several sections:

- Alert Details:** A table showing alert metadata.

Alert id	Score	Alert status
Alert_48174915	804	ACTIVE
Alert type	Alert trigger text	Status date/time
JMS Release Alert	SAS Generated JMS Alert	2017-09-11T17:11:26.504Z
Disposition comment		
- JMS Scenario Triggers:** A section with a score of 804. It contains a text block: "... was released on June 29, 2017 and is listed as a Parent, Perpetrator, Caretaker, or Guardian on at least one CPS Incident related to Open FIA Case Number(s): 7167, 53306."
- Alerted Individual Details:** A section for "Person (1)" with a table of fields: Name, SSN, Date of Birth, Address, City. The content is redacted.
- Perpetrator Chronicity Risk Score:** A donut chart showing a score of 122. A table lists risk factors:

Risk Factor Description	Points
Report History Risk	54
Demographic Risk	32
Time-Related Risk	30
Report Source Risk	6
Incarceration Risk	N/A
- Physical Address Location:** A map showing a location pin on a grey background.

### Key Aspects of this Example

1. Single view for individuals' histories with respect to CPS Incidents and Placements
2. Immediate access to Perpetrator Chronicity Risk Score at various touch points
3. Easily accessible list of related entities for deeper dive
4. Individuals with incarceration history that are new to CPS can be identified

- Questions???