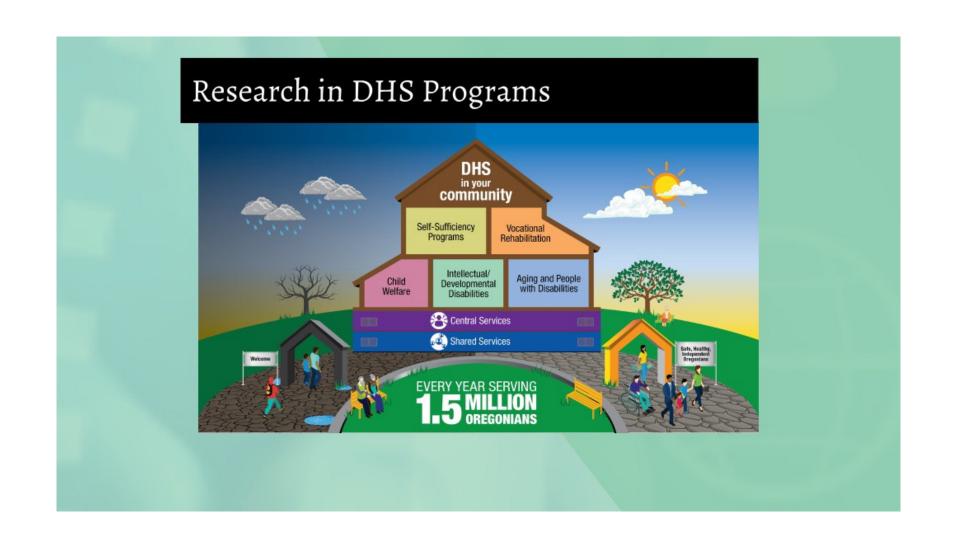




#### Research Portfolio - At a Glance











# Community

#### Self Sufficiency Research Agenda

Program Effectiveness and Service Matching

Social Determinants Associated with Poverty

**Community Engagement** 

Vo Reh





### **Screening Tool**

- Oregon is unique in using a tool for identifying safety risks in screening calls coming into the hotline
- Oregon's system responds to 40% of the lowest risk allegations and 60% of the highest risk allegations creating little variability in assignment
- These data indicate that our current practice underestimates high risk allegations and overestimates low risk allegations

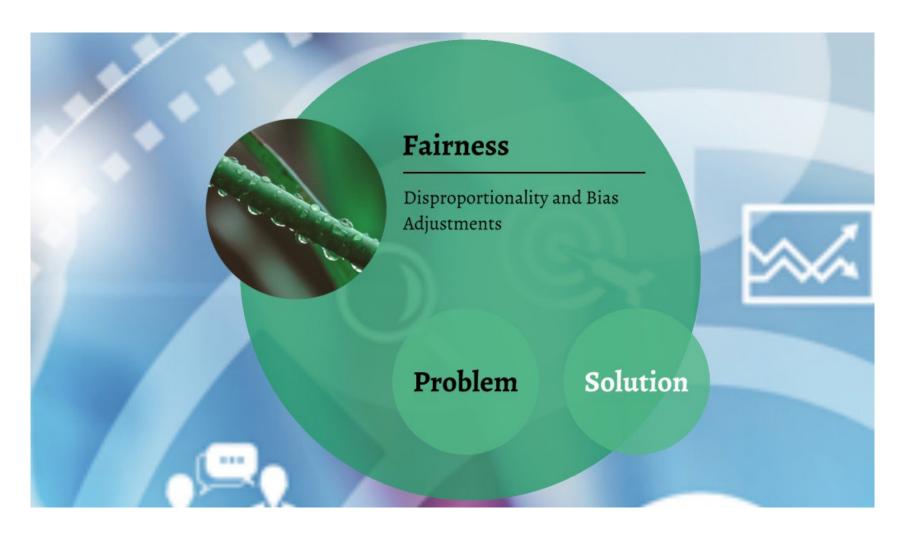


## **Screening Tool**



% New P	lacement	(in 2yrs)
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	Score	# in Level	% in Level	% Actually Assigned	of those Assigned	of those closed	Overall	Relative Risk
-High	4	4,329	3%	67%	62%	40%	55%	+8 x
	3	30,310	21%	55%	20%	11%	16%	+2 x
	2	88,043	61%	47%	4%	2%	3%	-2 x
Low-	1	21,650	15%	34%	1%	0.4%	0.6%	-12 x
	Overall	144,332	100%	47%	10%	4%	7%	



#### Problem

The cumulative effects of bias in multiple systems creates disproportionality in social service systems.

Decision-makers use historical data containing bias to make decisions.

Concerns have been voiced in using this existing data in predictive analytics, generating risk/safety estimates, thereby perpetuating disproportionality.

Oregon's current work includes a fairness correction procedure to reduce the race- and ethnicity-based disproportionality in misidentified risk.

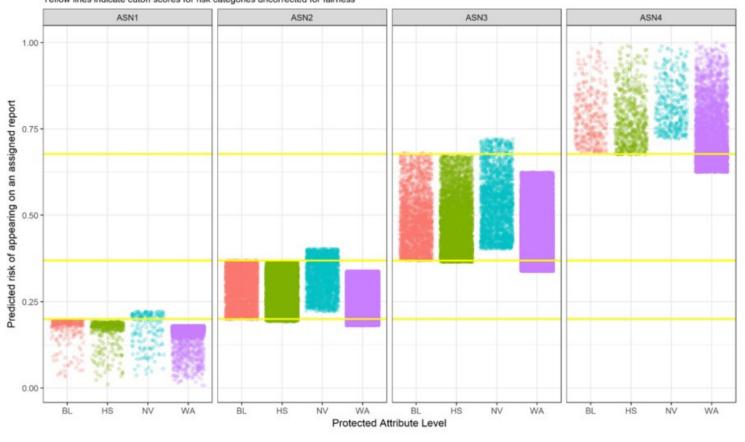


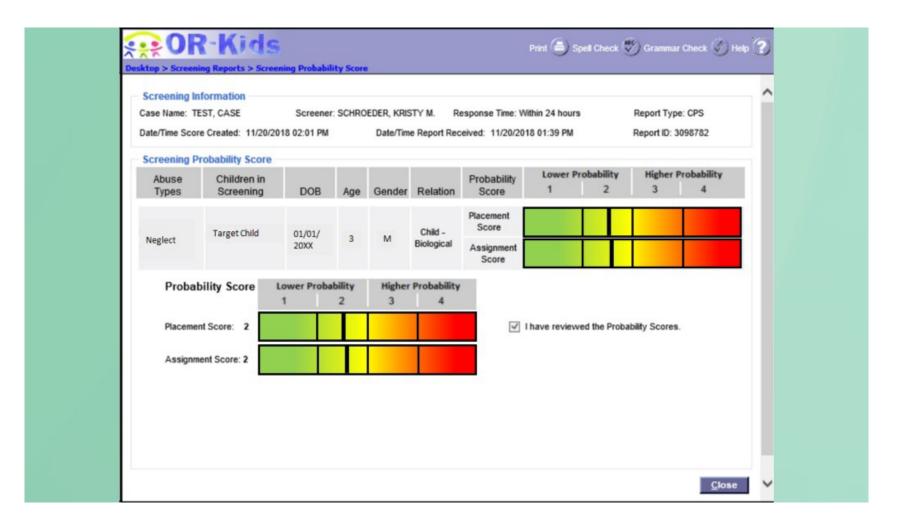
## **Error Rate Balance**

- Minimize bias when using administrative data to estimate risk/safety
- Balancing false positive rates with false negative rates
- Fairness estimates will be applied to all risk/ safety equations along the child welfare continuum as well as other risk modeling tools in DHS
- Each minority group will have their own research agenda that reflects where disproportionality increases along their child welfare continuum

Effects of fairness adjustments: risk of future assigned report, if closed

Yellow lines indicate cutoff scores for risk categories uncorrected for fairness



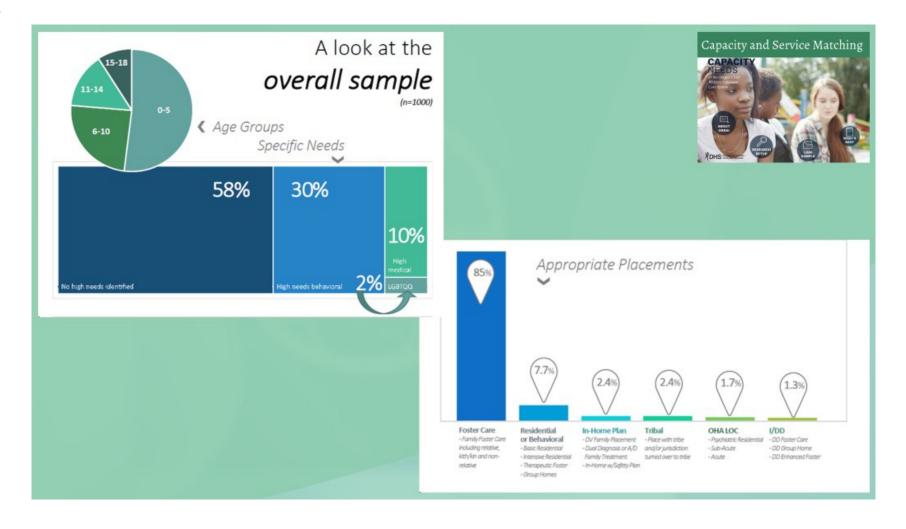


## Capacity

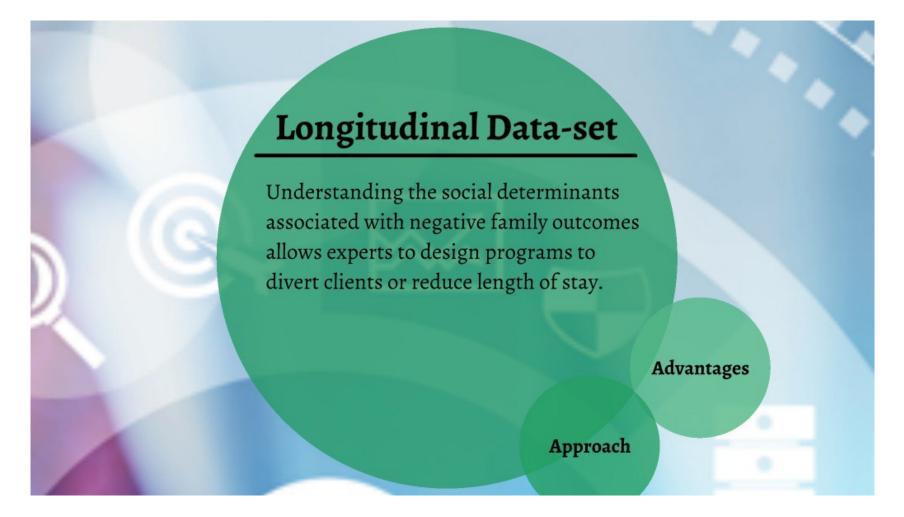
• Identifies the ideal system size to appropriately serve the current population based upon child physical, mental, and behavioral health needs

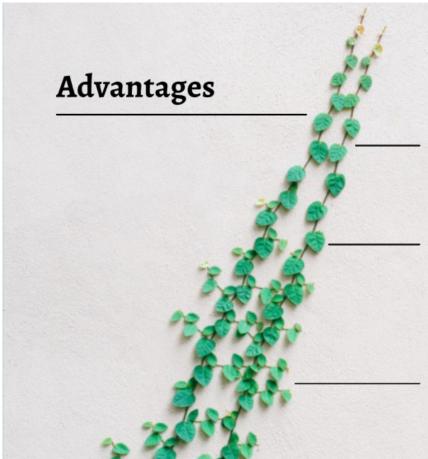


- Preliminary results indicate an increase in family foster care specifically in the following areas:
  - High-needs behavior supports
  - · Rapid access to mental health and crisis support
  - Children with developmental disabilities
- Preliminary results indicate a potential decrease in the need for behavioral residential placement if behavior and crisis services were readily available in family foster care







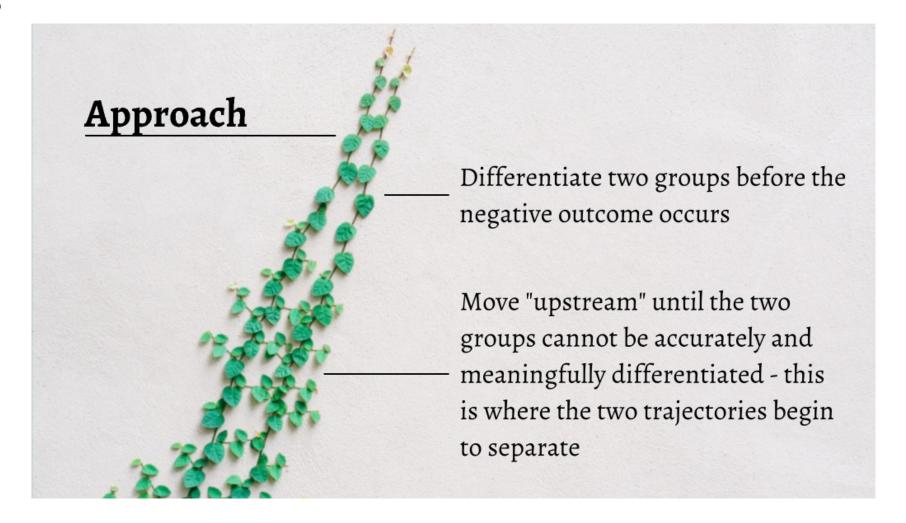


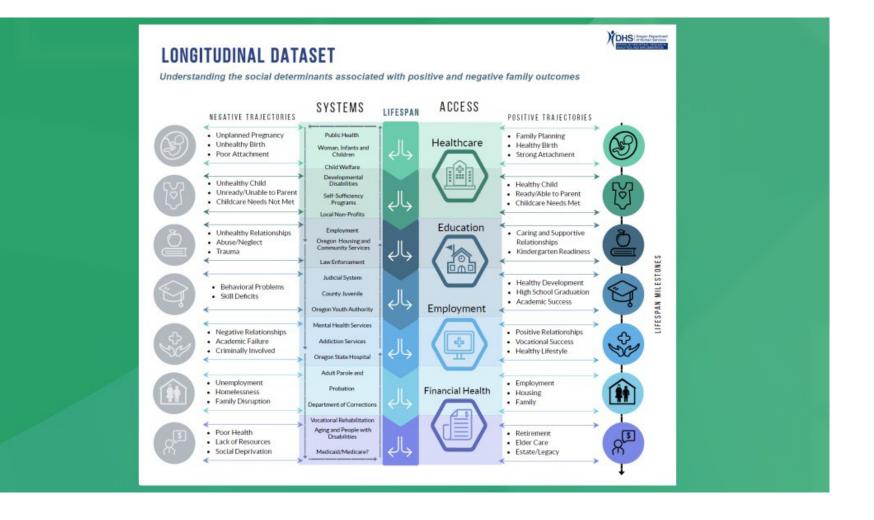
Outcomes result from many lifespan events and a person's movement toward and outcome can generally be predicted before the outcome occurs

Identifying where the negative trajectory diverts from the positive trajectory also recognizes when services should be offered

Social service, education, and criminal justice data are available to identify factors associated with both positive and negative child/family outcomes.

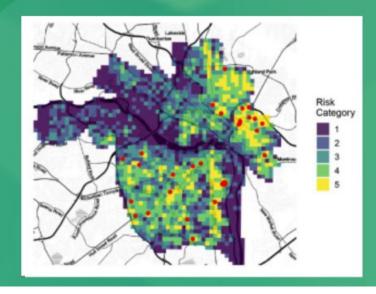
Designing services, quantifying their effectiveness, and assuring service matching algorithms are used should make the service delivery system more efficient and effective





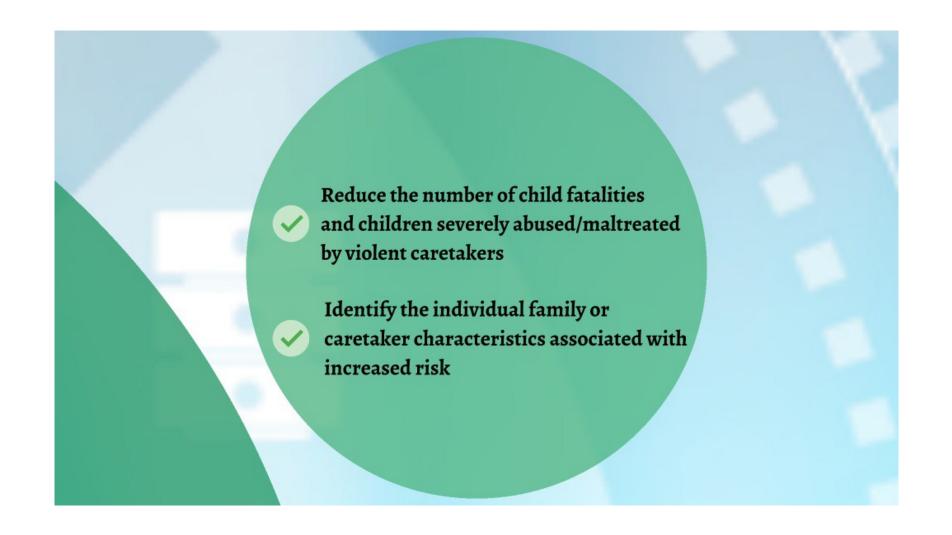
## **Geospatial Mapping**

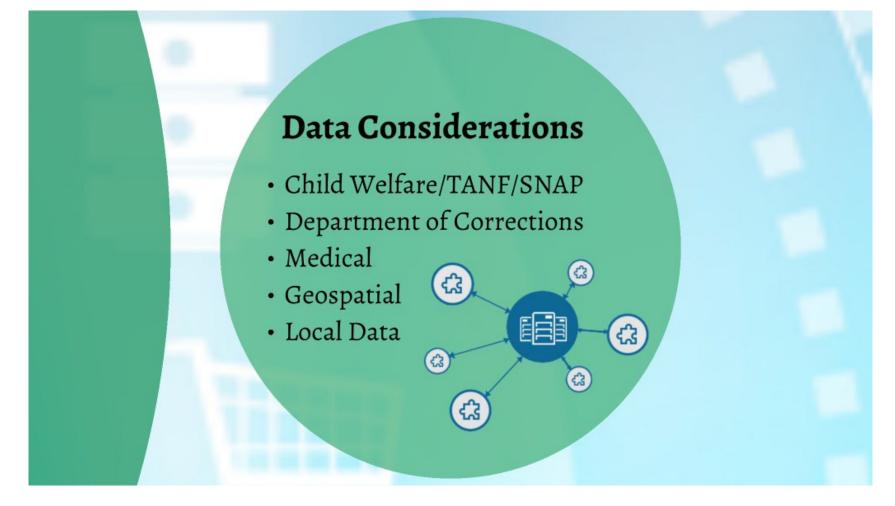
Identifying location of service need to support prevention efforts



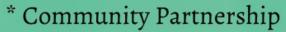


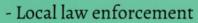






### **Implementation**





- Nonprofit organizations
- Adult Parole and Probation
- Child Welfare
- Service Providers





#### Research Implementation

Implementation works through collaboration and consensus-building to inform, plan, implement, and evaluate research for all program areas. It is a sequential process which includes a collaborative workgroup model, training development, pilots, statewide training, follow up and technical assistance.

Research Implementation

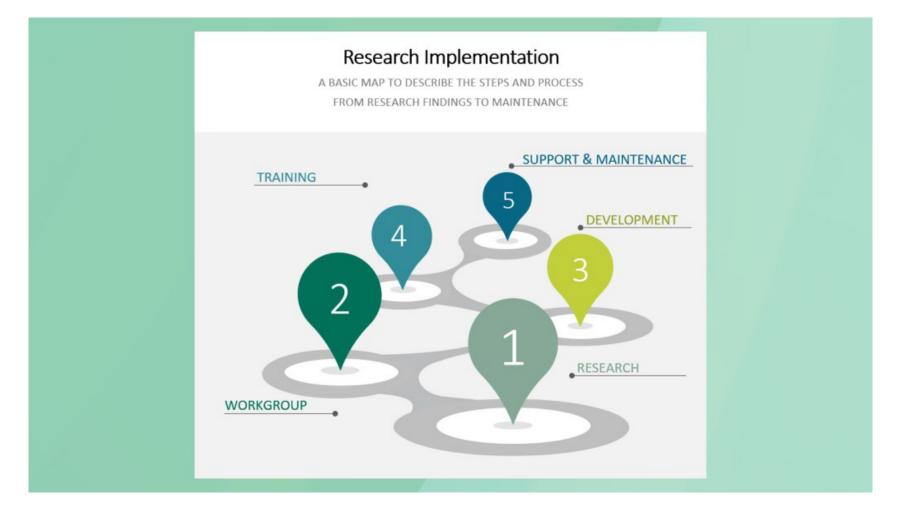
Journey to Implementation

RiSE



The goal of the ORRAI Research Implementation team is to ensure that DHS data, research, and analytics:

- Strengthen decision-making and outcome and metric tracking;
- Inform policies, procedures and operational models;
- Are conducted collaboratively through partnerships with DHS leadership, staff from all levels, experts, and other key stakeholders;
- Are well-communicated throughout the DHS community;
- Are well-implemented through training and technical assistance to staff;
- Are supported and sustainable through evaluation and designated resources when applicable.

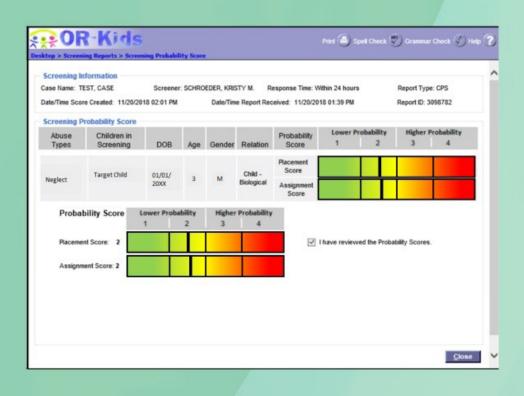


Target child (age 3)Mother (age 37)Father (39) 12-30-2017

Caller is concerned of Physical Abuse: Head injuries by Father to Target Child. Evening of 12/25, Father dropped Target Child on his head, Target Child looked stunned and as if he had stopped breathing. He did some basic awareness questions with Target Child, "Can you see me and can you walk and talk." Mother asked him what your plan is. Father plan is to put him to bed. Target Child seems fine, eyes are not dilated. Father and Target Child were playing. Father was sitting with his legs crossed with his back to the sofa, Target Child would stand on Father's lap and be "blasted off" up and over Father and usually landed softly on the sofa. After 10-15 times, Target Child hit the sofa wrong and this injury happened. Father stated, "he only gets hurt when he is with me." Target Child stated, "him and daddy were playing and daddy dropped him on his head and he really, really hurt, he felt like he couldn't get his breath." He didn't cry because it hurt too much. Mother called urgent care in the morning because Target Child's neck hurt and "does not feel like himself." Target Child got in for an appointment and x-rays were taken. Doctor stated that he has a strained neck: on the upper right side of his neck there are abnormalities. Whole skull was in the ex-ray, only got 2 of 3 images. Mother took Target Child to the chiropractor that he has been seeing since he was born and the chiropractor added "concussion" to the diagnosis because they stated with that pain and the way he was dropped near the ear, there is not a way that there is not a concussion. Target Child states that his back hurts on right lower side, above hip bone and below ribs. Target Child also reports "pressure on neck." Mother gave Target Child ibuprofen "as needed" for that. She gave two doses of seven milligrams. Caller states that "Target Child has been behaving in ways that is consistent with a concussion: super moody, super tired and no appetite. "There are concerns of alcohol with Father, he used to "self-medicate" with alcohol. Target Child states that "daddy has whiskey on his desk" but it is unknown why he knows this, he could have just read the label on the bottle. Target Child reads and writes and is learning French for "fun", he does algebra for fun, Target Child is cognitively at 8 or 9 years old. Target Child is either at home with his mother or with Maternal grandparents who live 10 houses down the street.

HISTORY for Mother CAS for Physical Abuse: No Indicators/Injuries Observed by Father to Target Child 4/15/15 CAS allegation Target Child, age 1, returned from a visit with his father, with a small abrasion on his forehead. Father reported that Target Child had tripped and fallen. As the child is a resident of Washington State, the matter will be assigned to Washington State DSHS for field assessment









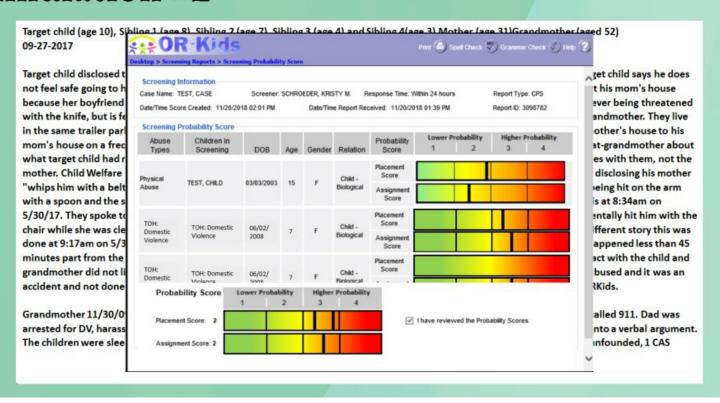
#### Simulation #2

Target child (age 10), Sibling 1 (age 8), Sibling 2 (age 7), Sibling 3 (age 4) and Sibling 4(age 3).Mother (age 31)Grandmother (aged 52) 09-27-2017

Target child disclosed there are "unsafe things" that are happening at his mother's house, that involve her new boyfriend. Target child says he does not feel safe going to his mom's house because boyfriend is there. Target child disclosed that he doesn't feel safe when he is at his mom's house because her boyfriend lives there. He said mom's boyfriend has a pocket knife that he throws at the wall. Target child denied ever being threatened with the knife, but is fearful of mom's boyfriend. Caller advised target child does not live with his mother, but lives with his grandmother. They live in the same trailer park as the mother, but several spaces over from the mother. Target child comes and goes from his grandmother's house to his mom's house on a frequent basis. Also living in the home with target child is his great-grandmother. Caller spoke with the great-grandmother about what target child had reported. It is unknown what steps the grandmother and great-grandmother will take, as target child lives with them, not the mother. Child Welfare History Mother 7/7/17 - pending assessment. This report involves 9 year old target child. Target child is disclosing his mother "whips him with a belt for discipline." Child is currently living outside of the home with his grandmother. Child also reported being hit on the arm with a spoon and the spoon broke 5/30/17 - Staffed with Supervisor. Police Department Officer and Detective went out on this at 8:34am on 5/30/17. They spoke to all parties involved and the child stated to police he was playing under the table and his mother accidentally hit him with the chair while she was cleaning. The grandmother after the police had left took the child to a neighbor and told the neighbor a different story this was done at 9:17am on 5/30/17, who then called in to report the incident to DHS. The reporter did not identify themselves. This happened less than 45 minutes part from the time the police arrived until the second report came in to screening. The police had already made contact with the child and grandmother did not like the answer she was given so she went a told a different source. Due to the child stating he was not abused and it was an accident and not done on purpose this assessment is being closed with no allegation of abuse or neglect. Police report is in ORKids.

Grandmother 11/30/09 - Closed at screening - RP reported that dad was drinking heavily, pushed mom to the floor and aunt called 911. Dad was arrested for DV, harassment and is currently being deported. 7/3/09 - UNFOUNDED for domestic violence. Mom and dad got into a verbal argument. The children were sleeping in their bedroom. Mother has no information in Ecourts Grandmother was not located in Ecourts unfounded, 1 CAS

#### Simulation #2



#### Simulation #2

