

The Science of Good Policy

Integrated Data Systems Pathways to Informed Decision-Making

Milbank Memorial Fund Reforming States Group Regional Meetings - Fall 2016



Dan Vizzini | Center for Evidence-based Policy

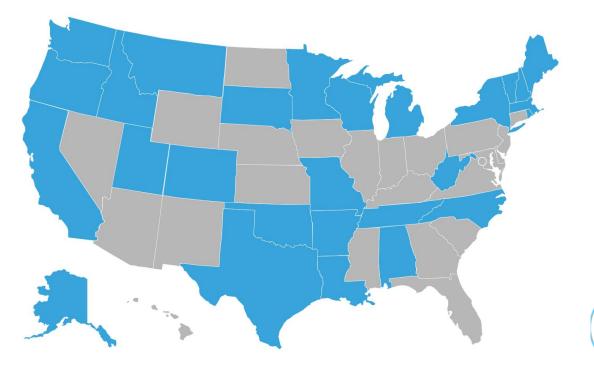


Center for Evidence-based Policy

- Based at Oregon Health & Science University
- Established in 2003
- Address policy challenges by applying evidence and improving collaboration
- Convene research collaboratives to drive effective policy and program reforms with proven returns on investment











Integrated Datasets

Oregon Data Sources Integrated from 2001 forward

Birth Record Child Welfare Human Services Programs Self Sufficiency Payments **Addiction Treatment**

Education

Juvenile Justice and Corrections

Home Visiting Programs





Integrated Datasets

Denominator

- All children born since 2001, matched to their parents
- Enables predictive modeling

Geographic Specificity

Data coded at the census-block level

Longitudinal

Tracing paths through the system over time

Agency Cost Structures

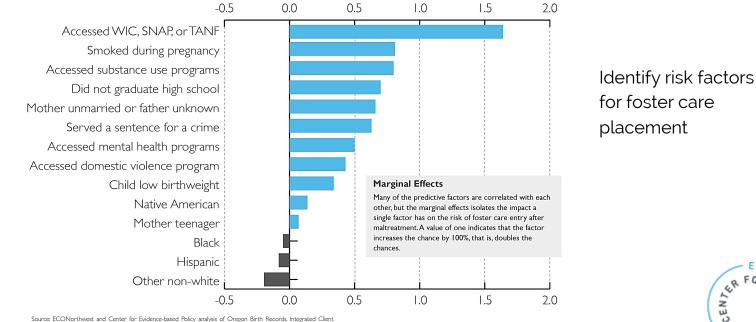
Supports modeling of cost avoidance scenarios





Marginal Effect on Risk of Maltreatment and Foster Care

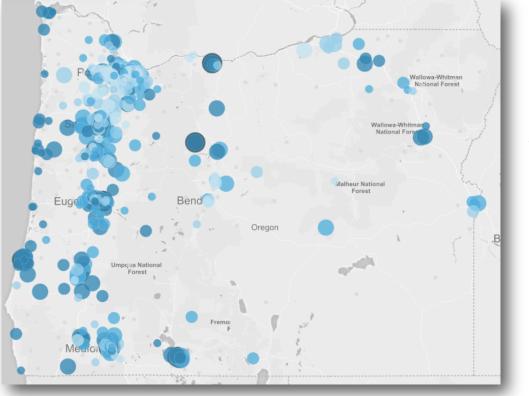
Characteristics of the mother at time of child's birth



10100

Source: ECONorthwest and Center for Evidence-based Policy analysis of Oregon Birth Records, Integrated Clie Services records, and Child Welfare records.

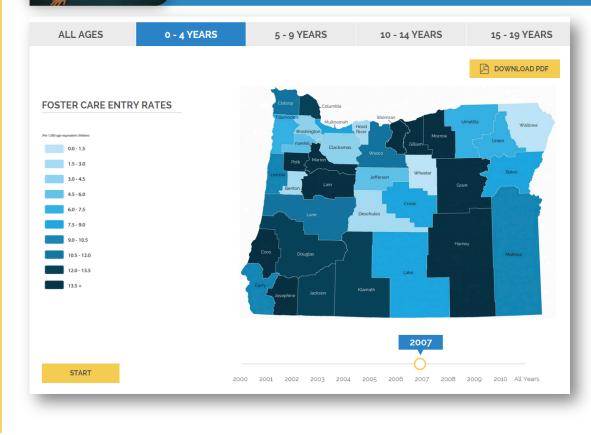




Visualize hotspots



Why Integrated Data?



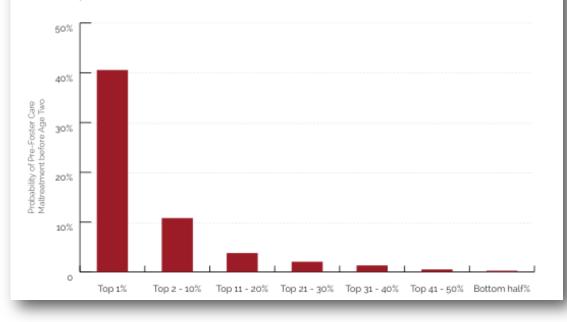
Map changes over time, place, and subgroups





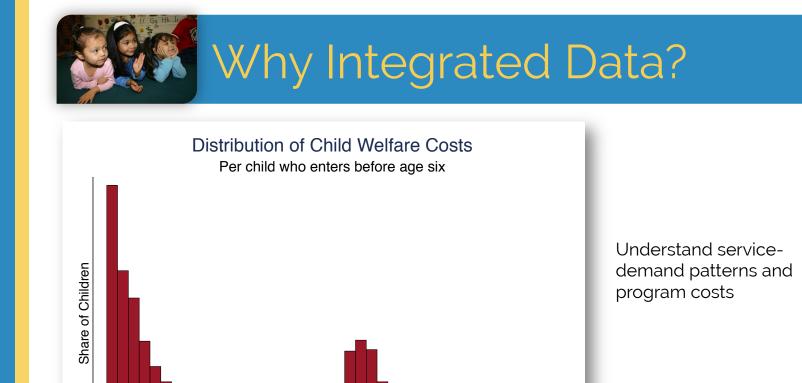
Oregon Children Born at Risk

Probability of Maltreatment and Foster Care



Target interventions for the most at-risk children





\$200,000

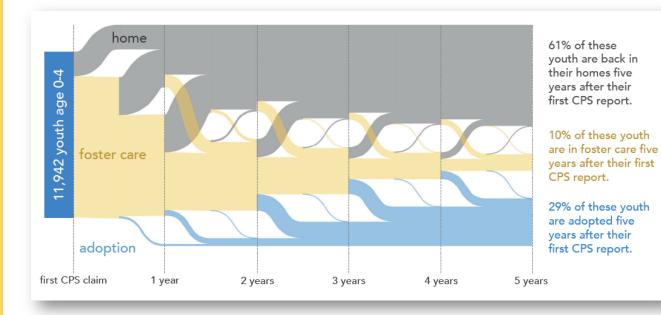
USD Dollars

\$100,000

\$300,000



Why Integrated Data?



Trace paths through the system

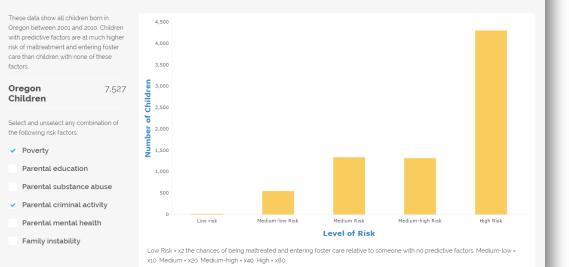




Why Integrated Data?

OREGON CHILDREN AT RISK

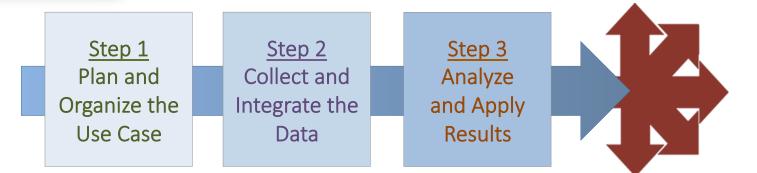
etween 2001 and 2010, almost half a million children were born in Oregon. Over & of these children entered the foster care system before age four. Many of these hildren were at foreseeable risk. P4P research and modeling has identified key varacteristics of children and their families that predict the likelihood of childhood use and neglect. Children without these characteristics are at much lower risk.



Expand access to actionable information for public, private and community decision-makers

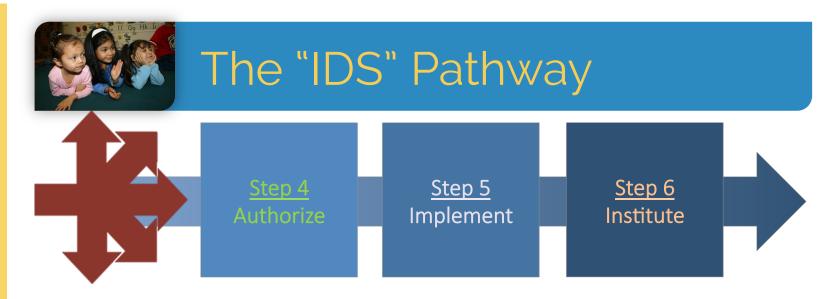


The "Use Case" Pathway



- 1.1. Identify a real-world research or policy question
- 1.2. Engage partners to collect, integrate, and analyze data
 - 2.1. Identify data required to answer the research or policy question
 - 2.2. Match identifiers across datasets
 - 3.1. Analyze integrated data to answer research questions
 - 3.2. Capture learning to build a business case for a full IDS





4. Secure executive authorization for a project charter and governance structure
5.1. Identify datasets and acquire data use agreements from data partners
5.2. Build data collection, processing, and integration infrastructure
5.3. Incorporate analysis, modeling, and decision-support capabilities
6. Institutionalize IDS as a tool for planning and policy-making





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oregonp4p.org

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