#### A Peer Discussion and Learning Exchange on Predictive Analytics

Tuesday, March 12, 2019



#### **Carlis Williams**

Regional Administrator – Region IV Administration for Children and Families

**US Department of Health and Human Services** 



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# Christina Becker, JD Health Policy & Program Associate / National Collaborative for Integration of Health & Human Services American Public Human Services Association



#### **American Public Human Services Association**



#### Our Vision

Thriving Communities Built on Human Potential



#### Our Mission

APHSA advances the well-being of all people by influencing modern approaches to sound policy, building the capacity of public agencies to enable healthy families and communities, and connecting leaders to accelerate learning and generate practical solutions together.

WASHINGTON, DC

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#### **Analytics: The National Landscape**



#### Some Examples: How health and human service agencies are currently using data analytics

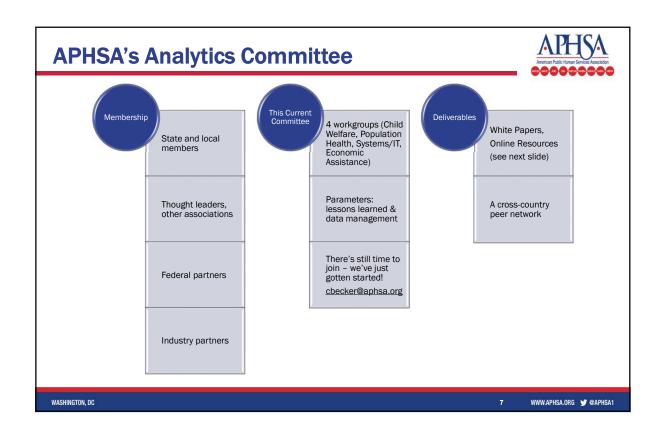
- Track equity of access and resource allocation
- Identifying individuals in one program who may be eligible but are not accessing other supports in another program
- Create dashboards re operations and fraud detection
- Caseload projections for budgeting and resource allocation purposes
- Use analytical data for GIS mapping
- Help transition participants to self-sufficiency
- Do family reunification studies to improve outcomes
- Measure against 24 performance measures (aka "Indicators of Success") to track organizational
- Determine outcomes for contracts and for

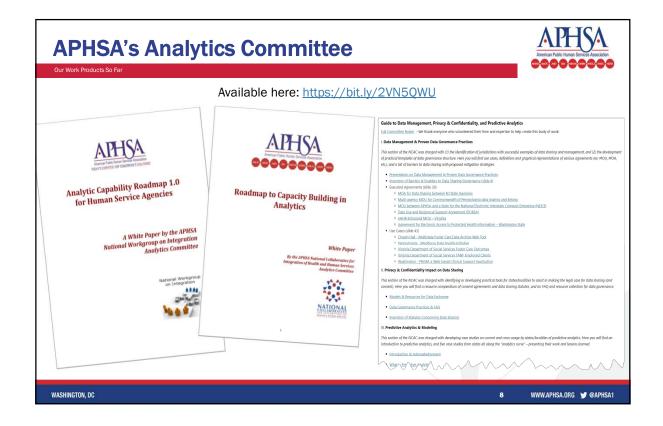
Contract monitoring

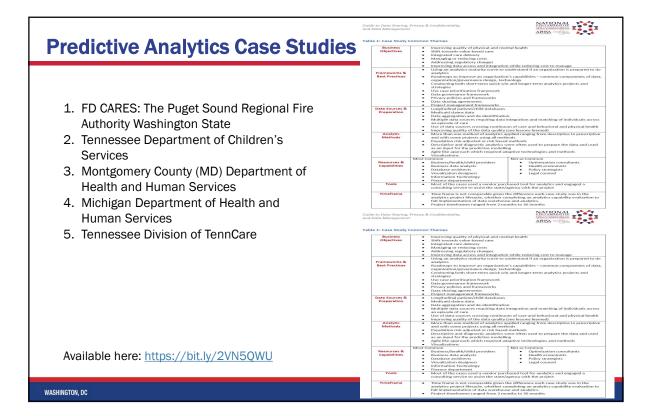
#### What Challenges Remain

- Accessing data outside of your program/agency
- Sharing data
- Data Security and Privacy
- Data governance

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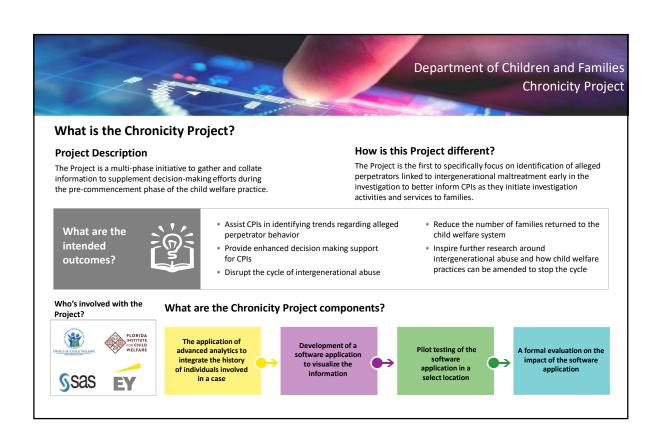
## Richard Gold, JD Consultant on Confidentiality and Data Sharing Project Director IJIS Institute

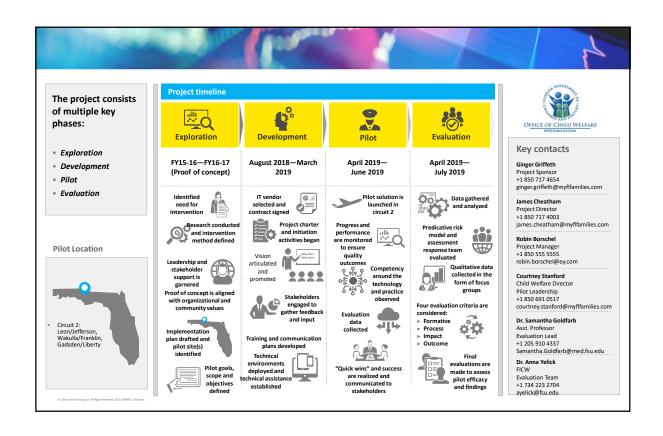
#### **Ginger Griffeth**

Director of Child Welfare Continuous Quality Improvement
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#### Meghan McCann, J.D.

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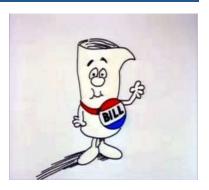
#### PREDICTIVE ANALYTICS IN HUMAN SERVICES

STATE TRENDS



### NATIONAL CONFERENCE OF STATE LEGISLATURES

- Bipartisan, membership organization
  - Each of the 50 states and all territories
    - 7,383 state legislators
    - 30,000+ state legislative staff
- Research, education, technical assistance
- Mission:
  - Improve the quality & effectiveness of state legislatures
  - Promote policy innovation and communication among state legislatures
  - Ensure states have a strong, cohesive voice in the federal system





#### **BIG DATA RESEARCH AT NCSL**

- Why it matters
- Where to find it
- Challenges to harnessing data to inform policy decisions
  - Data silos
  - Capacity (human and technical)
  - Privacy



#### **DATA SHARING EFFORTS**

- Chief Information/Data Officers
- Partnering with outside organizations
- Data-sharing agreements
- Agency/department initiatives



## CHALLENGES AND CONCERNS AROUND PREDICTIVE ANALYTICS



- Capacity
  - Financial, technical, and human
- Data
  - Availability and accuracy
- Impact
  - Inequities and implementation



#### STATE EFFORTS

- California
- Nebraska
- Rhode Island
- Wisconsin





#### **QUESTIONS?**

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## Predictive Analytics in Child Welfare

Reports Available from HHS's Office of the Assistant Secretary for Planning and Evaluation

Laura Radel
Senior Social Science Analyst
Division of Children and Youth Policy



#### What is ASPE?

- Policy Advisor to the Secretary of HHS
- Leads Special Initiatives and Manages Cross-Departmental Activities
- Conducts Policy Research and Evaluation to Inform Policy Making
- The mission of ASPE's Office of Human Services Policy is to provide research based policy solutions that promote the well-being of America's most vulnerable populations



#### **Our Work on Predictive Analytics**

ASPE in 2016 contracted with the MITRE Corporation to explore:

- How predictive analytics is beginning to be used in child welfare
- What successes and challenges early adopters are encountering
- The potential this field has to improve child welfare outcomes
- Ways the federal government could facilitate progress



#### **Products Available**

- An Assessment of Current Efforts, Challenges, and Opportunities
- An Introduction for Administrators and Policy Makers
- Web-based Decision Tool Illustrating Conditions Necessary for Predictive Analytics to Be Useful in Child Welfare
- Considerations in Contracting Vendors for Predictive Analytics

Documents are available at:

https://aspe.hhs.gov/predictiveanalytics-child-welfare

Questions? I can be reached at: laura.radel@hhs.gov or 202-730-3927

#### Robert E. Putt

Executive Director
Office of Health Data and Analytics

Cabinet for Health and Family Services
Commonwealth of Kentucky



#### Office of Health Data and Analytics

Cabinet for Health and Family Services

- Division of Health Benefit Exchange (SBE-FP)
- Division of Health Information Exchange (HIE/HIX)
- Division of Analytics
  - -Chief Analytics Officer, Maik Schutze
- Cabinet Privacy Program
  - -Chief Privacy Officer, Kathleen Hines
- Cabinet Telehealth Program



#### **Division of Analytics**

Office of Health Data and Analytics
(from Executive Order 2018-325: SB-167 to amend KRS 12 020)

- Coordinate data analytic initiatives of departments within the Kentucky Cabinet for Health and Family Services that regulate health care and social services.
- Ensure policy is consistent with the long-term goals across the Commonwealth.
- Identify best practices, conduct Cabinet project and data governance, and perform comprehensive cross-cabinet need assessments.
- GOAL: The consolidation of the oversight of policy and research matters of healthcare and social services allow the Commonwealth to be more readily able to address systemic drivers impacting these program areas for its citizens.

#### **Division of Analytics**

#### Office of Health Data and Analytics

To be an analytics center of excellence for Kentucky's health and human services programs.

- Policy & Procedures
  - Governance of analytic initiatives across Cabinet Medicaid Services, Behavioral Health, Developmental & Intellectual Disabilities, Public Health, Inspector General, Community Based Services, Aging & Independent Living
  - Governance of university research grants UK, UofL, NKU
  - Data use agreements, privacy, regulatory compliance
- Platform
  - Enterprise Analytics Platform procurement and implementation
- People
  - Roles, skillsets, responsibilities
- Partnership
  - UK KIPRC, UK CDAR, UPENN CHIBE, UPENN PSM, NORC@UofC, Education & Workforce Cabinet, Justice & Public Safety Cabinet, Finance & Administration Cabinet, Administrative Office of the Courts



#### **Division of Analytics**

Office of Health Data and Analytics

- Recent/current studies and projects:
  - Medicaid MCO Pharmacy Benefit Manager (PBM)
  - Kentucky Opioid Response Effort (KORE) data summit
  - Medicaid 1115 Waiver SUD Monitoring Plan
  - In Residence OUD Treatment Outcomes (HB-124)
  - Actuary Data for Foster Care Children in new MCOs
  - Predictive analytics for second near-fatal OUD over doses
  - All-payer hospital discharge reporting
  - Hospital survey for Certificate of Need
  - Annual diabetes reporting
  - Medicaid 1115 Waiver Kentucky HEALTH Monitoring Plan
- Past 3 month period 40 new requests to backlog, 32 requests completed.
- Emphasis on scientific team to provide evidence based research and program evaluation starting with child welfare.

