



Research & Evaluation

Big Data Pilot Project

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Noun

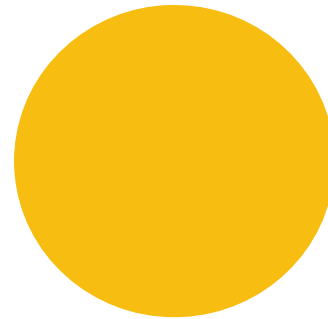
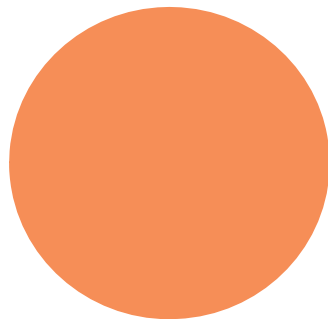
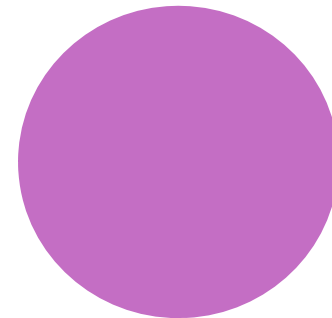
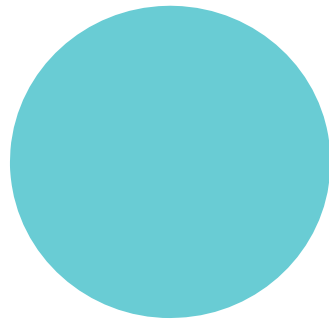
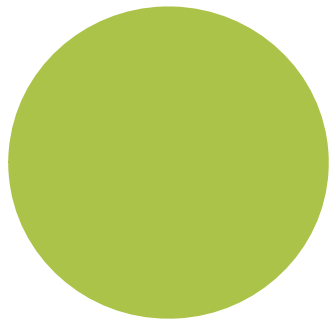
Computing

Extremely large data sets that are multiply sourced and variably structured, which may be analyzed computationally to reveal patterns, trends, and associations, especially relating to human behavior and interactions.



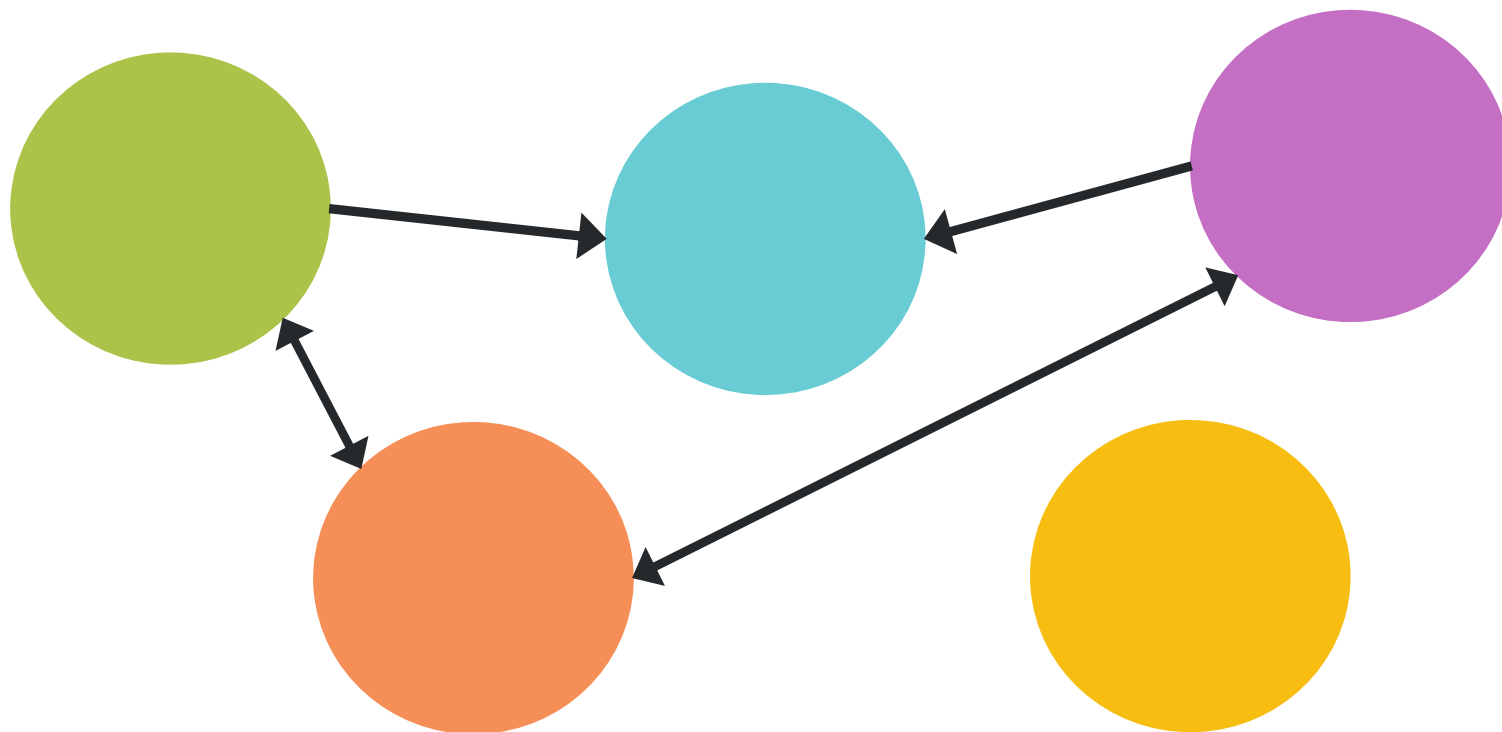
Child and Family Serving Agencies: Service System Silos

No Data Sharing



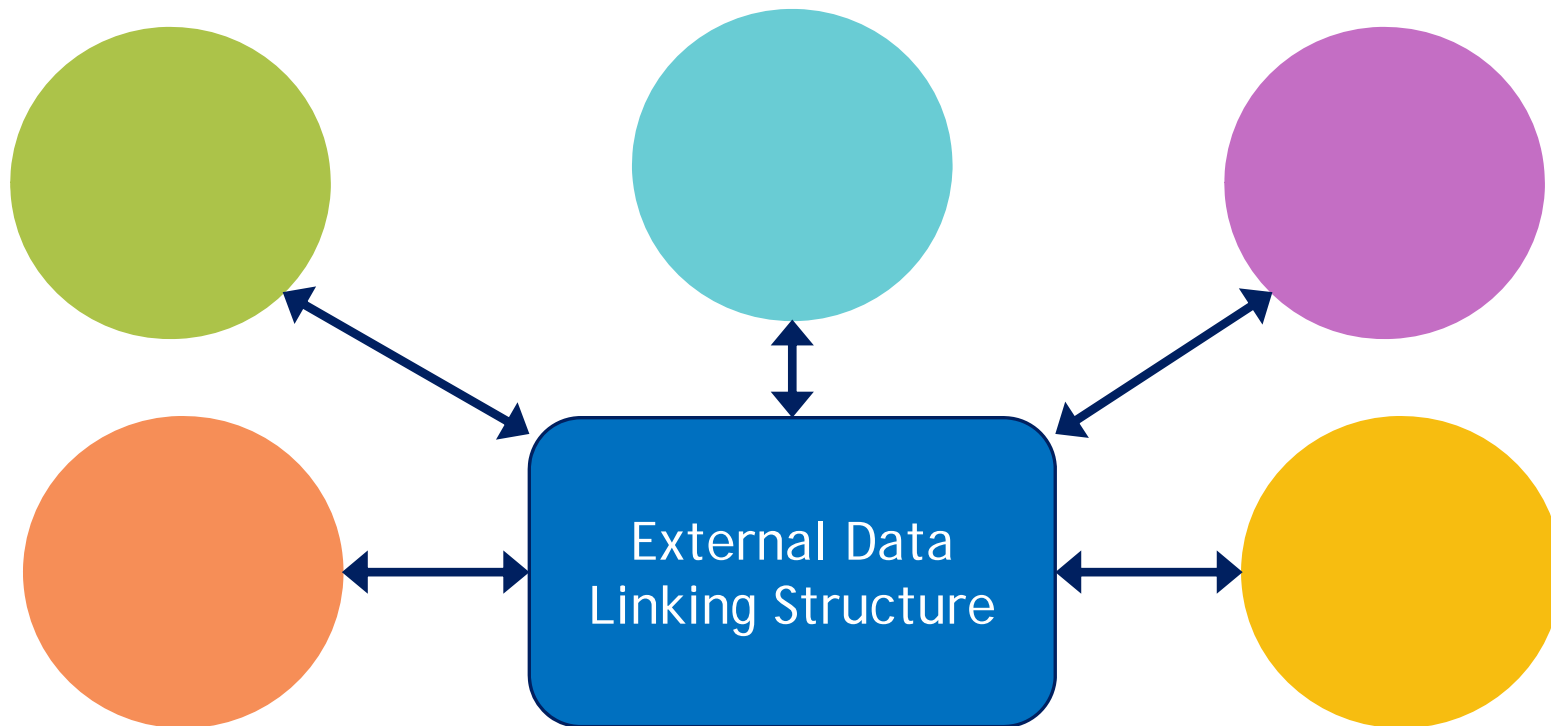
Child and Family Serving Agencies: Service System Silos

Limited Data Sharing



Child and Family Serving Agencies: Service System Silos

Integrated Silos



Big Data Pilot Project

- Joint funding: F5SMC, Bella Vista Foundation, and the Packard Foundation
- Implemented by the John W. Gardner Center at Stanford University
- Focusing on low-income families with expectant parents and/or children ages 0-3
- Geographically targeted to Redwood City and East Palo Alto

So, why is this exciting?

In the Short Term we can...

- Gain a holistic understanding of the ways in which these families access, or struggle to access, available resources
- Identify common service-receipt patterns or barriers to services; work with agencies to enhance and streamline service delivery based on the data

So, why is this exciting?

Over the Longer Term we can...

- Link the 0-3 data to Big Lift data, allowing us to examine which patterns of service receipt lead to better preschool outcomes
- Follow these children into elementary school to examine how the child's environment and experiences since birth impact outcomes at 3rd grade and beyond

Challenges

- Agencies are often hesitant to share client data for a variety of reasons:
 - ✓ Legal questions about HIPAA, FERPA, CAPTA, etc.
 - ✓ Concerns about privacy and data security
 - ✓ Promises made to clients regarding data sharing practices, even when such practices are allowed under relevant laws and regulations
- Resource constraints: It takes staff time (and therefore money) to prepare, extract, and exchange large and complex datasets

Current Status

- Gardner Center staff have done two rounds of interviews with potential data-sharing partners, learning about the services they provide, the data they hold, the research questions they would be interested in exploring, and their willingness to participate
- F5SMC and Gardner are developing a Data Use Agreement to support the project



Questions?