Federated Data, Cluster Mapping, and Social Network Analysis: Indiana Data Partnership and the Opioid Crisis

Wednesday, 26 August 2020 11:00 (30 minutes)

In 2018, the Polis Center at Indiana University-Purdue University Indianapolis joined with two other Indiana University centers in a partnership with the State of Indiana's Management Performance Hub to link a wide array of governmental and non-profit data to address problems confronting the state. The Indiana Data Partnership (IDP) aims to establish an improved technology platform for multi-party external data sharing and matching and using cluster network analysis, social network analysis, and other advanced analytic methods to tackle these key social challenges. The intent of network analysis is to understand a community by mapping the relationships that connect them as a network, and then to pinpoint key individuals/groups with the network and/or associations amongst the individuals.

The IDP is piloting work to identify how, by using existing data among the partners, network analysis can be introduced as a tool to help policy makers and the implementers of policy understand the ties that bind organizations. Two distinct issues for Indiana are being tackled by the IDP: the opioid crisis and the alignment of workforce and education. A primary goal is to improve collaboration among service providers and to understand where key network nodes exist that can enhance the efficacy of the proposed actions.

The presentation will outline the development of the partnership, the governance structure, requirements for the integrated data platform, and the resulting system schema. It will use the opioid test case to illustrate the work being done by IDP and discuss how the partnership will expand to include other data providers and analysts statewide to bring added value to Indiana's efforts to address its social problems more effectively.

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