



TJJD Statement of Work

Exhibit 1

Incorporated by reference as an Exhibit to the Memorandum of Understanding between the Texas Juvenile Justice Department (TJJD), and Rice University, a non-profit organization, with its principal offices at 6100 Main Street, MS-531, Houston, Texas 77005, (Rice) on behalf of The Texas Policy Lab (TPL), executed 5/13/2019.

Abstract: Within TJJD data systems, there is a deficiency of real-time summary reporting and visualized trends or other findings. Further complicating this deficiency, there is no automated reporting mechanism that pulls data from multiple systems; each must be accessed individually. This status quo regularly causes delays in the acquisition and validation of agency data, which in turn inhibits decision-making.

Texas Policy Lab will be working with agency staff to develop a business intelligence solution that provides descriptive, interpretive, and predictive analytics to senior staff.

Purpose: This project will enable timelier and better-informed agency planning and decision-making.

Scope:

TJJD and Texas Policy Lab will collaborate in the development of a business intelligence solution that:

- 1.) Provides interactive, accessible descriptive data of agency processes.
- 2.) Automates interpretive processes that highlight positive and negative trends in this data.
- 3.) Predicts future trends in these processes and possibly generates recommended actions.
- 4.) Designs and creates reports or visual dashboard displays of generated analytics.
- 5.) Consolidates data across systems as necessary to perform the above tasks.

While this type of intelligence is needed agency-wide, this solution will be initially limited to executive needs in order keep the scope of the project manageable.



Requirements/Tasks:

- Identify most pressing intelligence needs
- Determine implementation feasibility given TJJJ data status quo
- Translate intelligence needs into dashboard metrics
- Iteratively develop descriptive/interpretive displays of identified metrics with end-user input
- Build and refine predictive models for critical metrics

Project Period:

Some descriptive and interpretive components can be delivered by the end of 2019, with predictive models up and running in 2020.

Time estimates are currently vague, as amount of time needed will ultimately depend on many currently unknown factors: the scope of executive intelligence needs, the difficulty of accessing and connecting underlying datasets, the quality of available data, and other system and process limitations.

Location(s) of Project:

Project will take place mostly at TJJJ Central Office or Rice University. An occasional facility visit may be necessary to investigate data entry processes or otherwise validate agency data.

Special Requirements:

Deliverables:

Dashboards

Back-end data consolidation as needed (SQL)

Predictive models

Documentation needed to maintain models and dashboard (Identification and Definition of data elements, model specifications, recommended audit processes, etc.)

Statement of Data Security: Is attached hereto and hereby incorporated by reference.



Signatures:

Texas Juvenile Justice Department

By: _____



Date: _____

6/11/19

Camille Cain, Executive Director

Rice University Texas Policy Lab:

By: _____



Date: _____

5/23/2019

Ekim Cem Muyan, Executive Director