PROJECT BACKGROUND:

Our client was using a legacy Microsoft Access based application to track funding commitments.   The commitments process is integral to managing & retaining funding and is hyper-critical to their business. Failure to address the old, unsupportable platform leaves our client open to failures in the critical process and jeopardizes the receipt and flow of funds across the enterprise. Our client also wished to add additional functionality that would provide tracking of funding through the entire process from submittal of requests through approval and required monthly reporting. Additionally, all data was curated manually from several external systems and imported into the database which was time consuming and prone to errors.

OUR SOLUTION:

Vertisystem worked with the client to replace the existing MS-Access application and expand the application functionality to include more commitment types, provide greater ability to track and report on commitments and automate integration of data from multiple sources providing a single-source of information for all of the organizations funding commitments.

Using an Agile/Scrum based approach, Vertisystem worked in a highly collaborative way to develop requirements & design for the new system and to usher those designs through development, testing & deployment iterations. Our team consisted of the following roles:

- Scrum Master
- UI/UX Designers
- Front-End Developers
- Backend Developers
- QA/Testers
- DevOps Engineers

The new application is a web-based application deployed in the cloud and based upon the following technologies:

- ReactJS; HTML; CSS; Angular
- JAVA 11; Spring Boot; Python; SQL; API-Driven; Sonar Qube
- PostgreSQL; Oracle; MYSQL
- Source Clear / OAuth/ SAML/Discovery Page
- Git; Jira; Agile
- Google Cloud Platform; AWS; Azure
- Big Query; CloudSQL
- Google StackDriver/Kubernetes; Docker
- Google Compute Engine (GCE); Google Cloud Storage (GCS); Google AppEngine (GAE)
- AWS EC2 S3; MSFT Azure; Google Fire Base

BUSINESS RESULTS:

Using the new application, our client is able to fully manage, review and report on all of their commitments across the entire enterprise through a single point of access. Where reporting previously required access and manual data collection across multiple systems & sources the new application provides tremendous insights into data including many new dashboards and reporting capabilities at the stroke of a mouse. Integration of all data sources is automated either via nightly batch jobs or via API's where data is needed in real time.

Our client is able to better manage their commitments, total dollar value, distribution and tracking of funds across multiple organizations. The new application allows our client to manage distribution & monitoring of spend, provides much improved confidence in accuracy of data and reporting and significantly reduced previously manual processes. Better insight to and confidence of data drives better faster decision making and forecasting of future funding needs.