

Approval of Contract Modification with Cambridge Systematics, Inc., for Enhanced Predictive Analytics Services

Planning & Capital Programs Committee
January 11, 2022

Jing Xu

Interim Assistant Vice President
Service Planning and Development



Today's Consideration

- Approval of a resolution authorizing the President & Chief Executive Officer or her designee to execute a contract modification for the Big Data Predictive Analytic Services with Cambridge Systematics, Inc., [Contract No. C-2054904-01] to increase the contract value by \$110,000, to incorporate prescriptive run times based on dynamic time band analysis and additional web application security measures, for a new total authorized amount not to exceed \$1,007,865

Background

- On January 12, 2021, DART Board of Directors awarded a three-year contract for Big Data Predictive Analytic Services [Contract No. C-2054904-01] to Cambridge Systematics, Inc. for big data predictive analytic services in an amount not to exceed \$897,865

Project Timeline

- Project Kickoff: [February 2021](#)
- Requirements, Configuration, Development: [February – May 2021](#)
- Soft Launch (Demo): [May 2021](#)
- Go Live (CS API and reports): [June 2021](#)
- Go Live (DART integration launched for GoPass): [July 2021](#)
- Hosting, Monitoring, Maintenance, and Support: [Ongoing](#)

Real-time Vehicle
Monitoring

Vehicle Location
Playback

On-time
Performance

Run Time Analysis,
Comparison,
Prescription

Speed Map

Live Map View

Proposed Contract Modification

- Enhanced prescriptive run times based on dynamic time bands to support schedule development which provides a better opportunity to improve on-time performance
- Additional web application security measures, including ensuring only authenticated DART users can access the reporting and analytics modules and dashboard
- Those enhancements will incur an additional cost of \$110,000, for a new total authorized amount not to exceed \$1,007,865, well within reserved project budget of \$3 million

Recommendation

- Approval of a resolution authorizing the President & Chief Executive Officer or her designee to execute a contract modification for the Big Data Predictive Analytic Services with Cambridge Systematics, Inc., [Contract No. C-2054904-01] to increase the contract value by \$110,000, to incorporate prescriptive run times based on dynamic time band analysis and additional web application security measures, for a new total authorized amount not to exceed \$1,007,865



DART.org