

MOTION NO. M2017-99

**Data Access and Reporting Services for the next generation ORCA**

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:
Operations and Administration Committee	07/06/2017	Final Action	Brian McCartan, Executive Director, Finance and Information Technology <b>Jason Weiss, CIO</b>

**PROPOSED ACTION**

Authorizes the chief executive officer to execute a contract with Estrada Consulting, Inc. to provide data and reporting professional services to support the next generation ORCA program in the amount of \$3,827,799, with a 20% contingency of \$765,560, for a total authorized contract amount not to exceed \$4,593,359, contingent upon approval of the ORCA Joint Board. The Sound Transit share will be approximately \$1,235,614, including contingency.

**KEY FEATURES SUMMARY**

- The next generation ORCA program is the regional effort initiated in 2015 to replace the existing ORCA system with an updated fare collection system.
- This action is critical in establishing the data storage repository and reporting platform for the next generation ORCA system, called Data Access and Reporting (DARe). In addition, it is fundamental to the transition between the legacy ORCA and next generation ORCA as a repository of ORCA data.
- DARe will be implemented over two phases:
  - Phase 1 will be implemented in Q2 2018 and will focus on creating a regionally controlled copy of key legacy ORCA data, making it available to the next generation ORCA back office.
  - Phase 2 will be implemented concurrently with the next generation ORCA back office in 2020 and will focus on blending the next generation ORCA data and the legacy ORCA data, and providing a next generation reporting system.
- The Estrada Consulting, Inc. (ECI) base contract is effective through December 31, 2021 and may be extended for eight additional one-year terms for the operations and maintenance of the DARe system.
- The requested amount covers the base term and optional extension terms.
- As part of the ORCA Interlocal Cooperation Agreement (ORCA ILA), the ORCA Joint Board must confirm the vendor selected on behalf of the ORCA partner agencies. This confirmation is scheduled for the July 10, 2017, ORCA Joint Board meeting.

**BACKGROUND**

In 2003, Sound Transit entered into an Interlocal Cooperation Agreement (ORCA ILA) for the design, implementation, operation, and maintenance of the Regional Fare Coordination System with King County Metro, Community Transit, Everett Transit, Kitsap Transit, Pierce Transit, and Washington State Ferries. Under the ORCA ILA, regional costs are shared among the agencies. Since 2009, Sound Transit's share of the regional ORCA expenses has been approved by the Board through adoption of the annual budgets.

As the legacy ORCA system approaches its end of life, there is an increasing need for a next generation ORCA system to build on the success of the first whilst providing a more flexible platform for incorporating new features and changes over time, including an improved user

experience and new payment options. The Planning Phase is complete, and procurement is underway for the next generation ORCA fare payment system. Sound Transit is the regional administrative agency under the current ORCA program and has therefore assumed the role as the procurement and contracting agency supporting the regional next generation ORCA project.

DARe is a fundamental component of the next generation ORCA system. The first DARe objective will be to understand the legacy ORCA data so that the next generation ORCA team can better plan for the migration from the legacy system into a new system. Additionally, taking more ownership of the data allows for better interim use of the legacy ORCA data for ORCA reporting purposes.

Building an effective system will require a data and reporting platform to host this data, reporting tools, and a consultant to provide a lead role in the creation of this solution. This action is to execute a contract with ECI for the identified consulting services.

The next generation ORCA Regional Program Team (RPT) will work closely with ECI, a data warehouse, reporting, and business intelligence consultant and agency stakeholders to:

- Identify and select a data storage platform for storing the ORCA database.
- Identify and select reporting platform being the reporting server, desktop and web tools that reporting subject matter experts will use throughout the region for ORCA data.
- Design and implement databases to import and process legacy ORCA data in Phase 1 and next generation ORCA data in Phase 2.
- Implement reports on the new data repository.
- Provide analysis and engineering efforts to migrate from the legacy ORCA data model to the next generation ORCA data model with new reports.

Anticipated future related actions:

- Contract to procure a Digital Storage Platform (DSP) – the cloud storage and database for DARe.  
~\$3,700,000
- Contract to procure Report Platform (RPP) – the reporting tools and server for DARe.  
~\$600,000
- Data Landing Zone – temporary storage to house the Vix data during the transition period.  
~\$200,000

## PROCUREMENT INFORMATION

Sound Transit is the regional administrative agency under the current ORCA program and has therefore assumed the role as the procurement and contracting agency supporting the regional next generation ORCA project. Prior to issuing the solicitation for these services, Sound Transit considered the project scope, the determining factors for contract award, and the need for proposal discussions and revisions, and determined that a Request for Proposals procurement method was the most advantageous.

Sound Transit advertised Request for Proposals No. RTA/RP 0005-17 in April 2017. Five firms submitted a proposal, and the proposals were evaluated based on the advertised evaluation criteria. The two highest ranked firms were selected to enter into negotiations. Revised proposals were evaluated, and ECI was identified as the highest ranked firm.

Sound Transit determined that ECI's negotiated proposal best meets the evaluation criteria and offers the best value, and this contract award is in the best interest of the next generation ORCA Program.

## FISCAL INFORMATION

This action is within the program's authorized project allocation to date of \$16,103,430. Within the research and technology phase, \$8,000,000 has been allocated to fund the development of a new ORCA system. This contract and related expenses will be used for that development. The proposed action would commit \$4,593,359 to this budget line item and leave a remaining budget balance of \$8,845,583.

Sound Transit will be reimbursed by the partner agencies for their share of this proposed action; our share is \$1,235,614.

### Fare Administration

(in thousands)

<b>Estrada Consulting, Inc.</b>	<b>Board Approvals to Date</b>	<b>Current Approved Contract Status</b>	<b>Proposed Action</b>	<b>Proposed Total for Board Approval</b>
Contract Amounts	-		3,828	3,828
Contingency Amount			766	766
<b>Total Contract</b>	-	-	<b>4,593</b>	<b>4,593</b>
Percent Contingency	0%	0%	20%	20%

<b>Fare Administration</b>	<b>2017 TIP</b>	<b>Board Approvals</b>	<b>This Action</b>	<b>Board Approved Plus Action</b>	<b>Uncommitted / (Shortfall)</b>
Agency Administration	115				115
Preliminary Engineering	1,646	1,524		1,524	123
Research+Technology	14,342	903	4,593	5,497	8,846
<b>Total Current Budget</b>	<b>16,103</b>	<b>2,427</b>	<b>4,593</b>	<b>7,020</b>	<b>9,083</b>

Board Approvals = Committed To-Date + Contingency as of May 31, 2017 and includes pending Board actions.

For detailed project information, see page 64 in the Adopted 2017 Transit Improvement Plan.

## SMALL BUSINESS/DBE PARTICIPATION AND APPRENTICESHIP UTILIZATION

### Participation by Small Businesses and Disadvantaged Business Enterprises (DBEs)

Sound Transit promotes and encourages small business participation, which also includes Disadvantaged Business Enterprises (DBEs). Small Business and DBE goals are based upon an examination of subcontracting opportunities contained in the work of this contract and the number of Small Businesses/DBEs available to perform such subcontracting work.

Sound Transit determined that there were few Small Business and DBE subcontracting opportunities based upon the work described in this contract, so Small Business/DBE goals were not established.

## PUBLIC INVOLVEMENT

Not applicable to this action.

## TIME CONSTRAINTS

A one-month delay could impact project timelines with respect to the whole next generation ORCA program.

## PRIOR BOARD/COMMITTEE ACTIONS

Motion No. M2016-08: Authorized the chief executive officer to execute a contract through December 31, 2021, with five additional one-year options with Four Nines Technologies, Inc. for Second Generation Regional Fare Collections System Consulting Services in the amount of \$8,366,489, with a 20% contingency of \$1,673,298 for a total authorized contract amount not to exceed \$10,039,787.

## ENVIRONMENTAL REVIEW

KH 6/23/17

## LEGAL REVIEW

AJP 6/30/17

## **MOTION NO. M2017-99**

A motion of the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract with Estrada Consulting, Inc. to provide data and reporting professional services to support the next generation ORCA program in the amount of \$3,827,799, with a 20% contingency of \$765,560, for a total authorized contract amount not to exceed \$4,593,359, contingent upon approval of the ORCA Joint Board. The Sound Transit share will be approximately \$1,235,614, including contingency.

### **BACKGROUND:**

In 2003, Sound Transit entered into an Interlocal Cooperation Agreement (ORCA ILA) for the design, implementation, operation, and maintenance of the Regional Fare Coordination System with King County Metro, Community Transit, Everett Transit, Kitsap Transit, Pierce Transit, and Washington State Ferries. Under the ORCA ILA, regional costs are shared among the agencies. Since 2009, Sound Transit's share of the regional ORCA expenses has been approved by the Board through adoption of the annual budgets.

The next generation ORCA program is the regional effort initiated in 2015 to replace the existing ORCA system with an updated fare collection system.

As the legacy ORCA system approaches its end of life, there is an increasing need for a next generation ORCA system to build on the success of the first whilst providing a more flexible platform for incorporating new features and changes over time, including an improved user experience and new payment options. The Planning Phase is complete, and procurement is underway for the next generation ORCA fare payment system. Sound Transit is the regional administrative agency under the current ORCA program and has therefore assumed the role as the procurement and contracting agency supporting the regional next generation ORCA project.

Data Access and Reporting (DARe) is a fundamental component of the next generation ORCA system. The first DARe objective will be to understand the legacy ORCA data so that the next generation ORCA team can better plan for the migration from the legacy system into a new system. Additionally, taking more ownership of the data allows for better interim use of the legacy ORCA data for ORCA reporting purposes.

Building an effective system will require a data and reporting platform to host this data, reporting tools, and a consultant to provide a lead role in the creation of this solution. This action is to execute a contract with Estrada Consulting, Inc. (ECI) for the identified consulting services.

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Anticipated future related actions:

- Contract to procure a Digital Storage Platform (DSP) – the cloud storage and database for DARE.  
~\$3,700,000
- Contract to procure Report Platform (RPP) – the reporting tools and server for DARE.  
~\$600,000
- Data Landing Zone – temporary storage to house the Vix data during the transition period.  
~\$200,000

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Sound Transit determined that ECI's negotiated proposal best meets the evaluation criteria and offers the best value, and this contract award is in the best interest of the next generation ORCA Program.

The Estrada Consulting, Inc. (ECI) base contract is effective through December 31, 2021 and may be extended for eight additional one-year terms for the operations and maintenance of the DARE system. The requested amount covers the base term and optional extension terms.

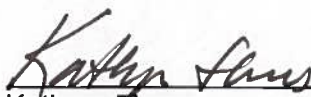
**MOTION:**

It is hereby moved by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract with Estrada Consulting, Inc. to provide data and reporting professional services to support the next generation ORCA program in the amount of \$3,827,799, with a 20% contingency of \$765,560, for a total authorized contract amount not to exceed \$4,593,359, contingent upon approval of the ORCA Joint Board. The Sound Transit share will be approximately \$1,235,614, including contingency.

APPROVED by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on July 6, 2017.

  
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Paul Roberts  
Operations and Administration Committee Chair

ATTEST:

  
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Kathryn Flores  
Board Administrator