

AGENDA ITEM FOR ADMINISTRATIVE MEETING () Discussion only
(XX) Action

FROM (DEPT/ DIVISION): Board of Commissioners

SUBJECT: County Road Digitization Mapping Pilot Project Contract

<p>After consultation with 4 different transportation firms (Kittleston, A&P, AECOM and DKS) along with input from ODOT, DKS is recommended as the prime vendor for the Umatilla County Road Map digitization pilot project. The approval of the contract with DKS is before the Board for approval.</p>	<p>Requested Action: Adopt Order No. BCC2022-045</p>
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ATTACHMENTS: Proposed Order

Date: (06.29.2022) Submitted By: Dan Dorran

*****For Internal Use Only*****

Checkoffs:

- () Dept. Heard (copy)
- () Human Resources (copy)
- () Fiscal
- () Legal (copy)
- () (Other - List:)

To be notified of Meeting:

Needed at Meeting:

Scheduled for meeting on: July 6, 2022

Action taken:

Follow-up:

Umatilla County Asset Management & Real-Time Transportation Situational Awareness System (UCAMSAS)

Umatilla County is embarking on a first of its kind, transportation Asset Management and Situational Awareness System (UCAMSAS—including real-time transportation and traffic information to more effectively deploy resources and manage the county’s roadway system. Using data available through real-time systems such as ODOT’s TripCheck system (see Figure 1) the county will provide Public Works management and dispatch resources with real-time roadway conditions. This real-time data can be combined with Asset Management information such as that available through the Association of Oregon Counties (AOC)’s Integrated Road Information System (IRIS) (see Figure 2 & Figure 3).

Figure 1 also illustrates the **challenges** that Umatilla County hopes to overcome from existing systems and data sources. While the ODOT roadways and more significant, highly utilized regional arterials may have data available from sources like Google and ODOT, the vast majority of the County roads do not have this real-time information available. Umatilla County also desires more immediate access to asset inventory data combined through a single user interface system to this real-time roadway and bridge utilization data, to make informed infrastructure investment decisions. Collectively the system will also provide valuable real-time information to local businesses, particularly those operating larger vehicles including freight and agricultural trucking operations. Many roadway facilities are limited by either weight or turning restrictions that have significant impact on users abilities for timely routes.



Figure 1: ODOT TripCheck in Umatilla County region

In addition to real-time operations and use of the regional roadways, Umatilla County wants to make more data driven, informed decisions about roadway, bridge, culvert and asset management investment decisions. Our more rural communities deal with a different set of issues than our more densely populated counties. Making decisions around grading and applying oil to gravel roads take up a much larger portion of Umatilla’s budgeting and operational decisions, and the distances that infrastructure is sent to is significant, yet the industry lacks the decision support tools for these agencies. The Umatilla County Asset Management and Situational Awareness System (UCAMSAS) will not only support the county’s operational needs, it will form a replicable solution for this market that has the same needs but is not getting the same attention from the private sector.

Umatilla County’s intention to use their existing investment in the IRIS system (see Fig 3 and 4) as a source for asset management data, demonstrates the agency’s desire to continue to being good stewards of taxpayer dollars, while leveraging investments already made with statewide partners.

	Road	Milepost	Active	Sign Id	Placement	MUTCD	County Sign	Legend
▶	001 - STANTON PA...	12.7305	☑	4688034.694	R - Righthand Side ...	W1-8-12 - Chevron ...		Chevr
▶	001 - STANTON PA...	12.653	☑	4687593.024	R - Righthand Side ...	W1-8-12 - Chevron ...		Chevr
▼	001 - STANTON PA...	15.6737	☑	4694273.921	R - Righthand Side ...	W1-2R-18 - Right C...		Right

	Date	Time	Cause	Action	Condition	Reflectivity Condi...	Asset Number
✕	02/08/2022	3:02 PM	Shot - Sign Shot With G	E - Re-Install Post & Sig	1 - Very Good		
✕	09/25/2012	11:14 AM	S - Inspected		2 - Good		

	Date	Time	Cause	Action	Condition	Reflectivity Condi...	Asset Number
✕	09/27/2012	8:39 AM		S - Inspected	2 - Good		

Figure 2: AOC IRIS Asset Management System- Signs



ASSET MANAGEMENT

IRIS10 delivers a full-featured asset management system, which integrates with the IRIS10 accounting system. Combined users can create powerful asset management workflows to suit your needs.



Equipment Management

The IRIS Equipment Management System (EMS) provides the ability to track and report on maintenance, utilization, cost of operation, and depreciation on equipment.

- Equipment inventory
- Maintenance scheduling
- Cost tracking of equipment use and repair



Road Information

The IRIS Road Information System provides the ability to inventory and track over 50 road features including:

- Road names and locations
- Culverts
- Signs
- Road surface types
- Bridges



Inventory Management

Better track the cost, value, and requirements of your inventory.

- Inventory quantities, cost, use, and receiving
- Bridge and Facility Assets
- Activities, Projects, and Employee information
- Service Requests

Figure 3: IRIS Asset Management Capabilities

THE BOARD OF COMMISSIONERS OF UMATILLA COUNTY

STATE OF OREGON

In the Matter of Authorizing)
Contract for Services and) Order No. BCC2022-045
Materials from DKS Associates)
by Alternative Contracting)
for Professional Services)

WHEREAS the county is seeking professional services to assist in a road digitization mapping project for Umatilla County;

WHEREAS under Umatilla County Code of Ordinances Section 36.06(B), an alternative to procurement by competitive bids is the purchase of goods or services where there is only one seller or product of the quality available, software, for personal services contracts (including engineering services), and services when price has been established under a previous competitive bid requirements contract;

WHEREAS the Oregon Department of Transportation issued a request for proposals for transportation and land use planning, and a contract for transportation system planning and public transportation planning was entered into with DKS Associates;

WHEREAS a proposal has been received from DKS Associates for an asset management and real-time transportation situational awareness system, to provide real time transportation and traffic information to more effectively deploy resources and manage the county's road system.

NOW THEREFORE, the Board of Commissioners orders that:

1. Due to the nature of services being provided and utilization of state contract, the procurement for the transportation planning services is exempt from the competitive bidding process under the Umatilla County Code of Ordinances.

2. Umatilla County is authorized to enter into a contract with DKS Associates for the professional services necessary for the road digitization mapping project.

DATED this 6th day of July, 2022.

UMATILLA COUNTY BOARD OF COMMISSIONERS

John M. Shafer, Chair

Daniel N. Dorran, Commissioner

George L. Murdock, Commissioner

ATTEST:
OFFICE OF COUNTY RECORDS

Records Officer