

Capital Project Delivery System (CPDS-FAST)

State of Arizona – Department of
Transportation

Project Investment Justification (PIJ)

Date of ITAC: June 18, 2025

Project # DT24006



Agency Vision

To safely connect people and empower our economy

Agency Mission

We provide highway infrastructure and transportation services



Team Introduction

Roles Present at ITAC

- Steve West – ADOT Chief Information Officer
- Robert Cooney – ADOT Project Manager

Project Introduction

Stated Operational/Business Issue

- Security risks due to aging platform of current system (FAST)
- System does not easily allow for enhancements
- System functionality is obsolete and unable to support current and future business processes
- Limited pool of ADOT employees with knowledge to maintain – Single point of failure
- Applying technology update/fixes causes components to stop working and outages

Benefit to the State Agency and Constituents

- Reduced business and technical risk
- Increase efficiency in the delivery of ADOT's transportation program
- Modern and flexible technology platform to address changes in Federal Highway Administration's (FHWA) or state programs
- Improved communication and electronic collaboration with internal and external customers
- Improved contract management with a potential to reduce construction contract change orders
- Opportunity to redirect resource time towards current and future efficiencies

Proposed Solution

Overview of Proposed Solution

ADOT is proposing to replace FAST and several related ancillary systems with a next-generation Capital Project Delivery System (CPDS) based on a Cloud-based Software as a Service (SaaS) solution.

CPDS will support ADOT's capital project delivery lifecycle from the preparation of specifications, through project letting and contract award, management of the construction phase of work and the construction contract(s), tracking of the testing of materials used on construction projects and management of the construction hand-over process. CPDS will be deployed in three releases as follows:

- Release 1 – Preconstruction Management
- Release 2 – Construction Management
- Release 3 – Materials Testing

Proposed Solution

Due Diligence and Method of Procurement

- ADOT completed an assessment of the FAST system, released an RFI, and evaluated options during FY 2023.
- Requirements were gathered in FY 2025 and built into an RFP.
- RFP was published in February 2025 and proposals were received and evaluated.
- CPDS has been awarded to Deloitte Consulting, LLP pending ITAC approval.
- For IV&V the requirement, PCG has been chosen as the vendor after completing a Task Order with ADOA-ASET.

Technology

- Aurigo Masterworks Software as a Service (SaaS) solution will be implemented.
- Development of application program interfaces (APIs) and/or batch interfaces with various ADOT and State systems including AZ360.

Project Responsibilities

Identify Proposed Solutions Responsibilities

Agency

1. Vendor management
2. Communication plan
3. Change management
4. Data governance
5. Requirements confirmation
6. End user training
7. Level 1 end user support

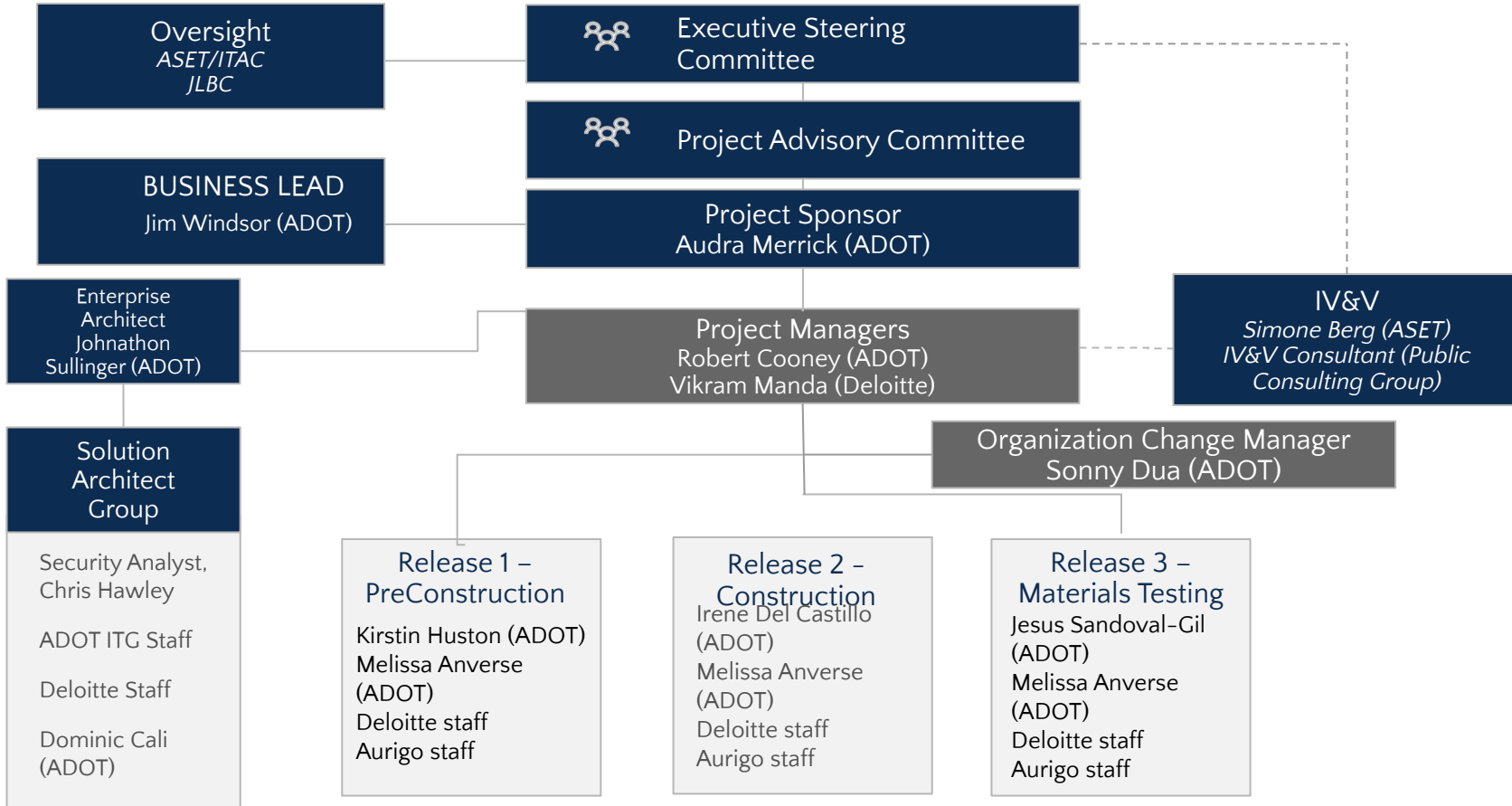
Shared

1. Project management
2. System integration testing
3. User acceptance testing
4. System interfaces
5. Data migration

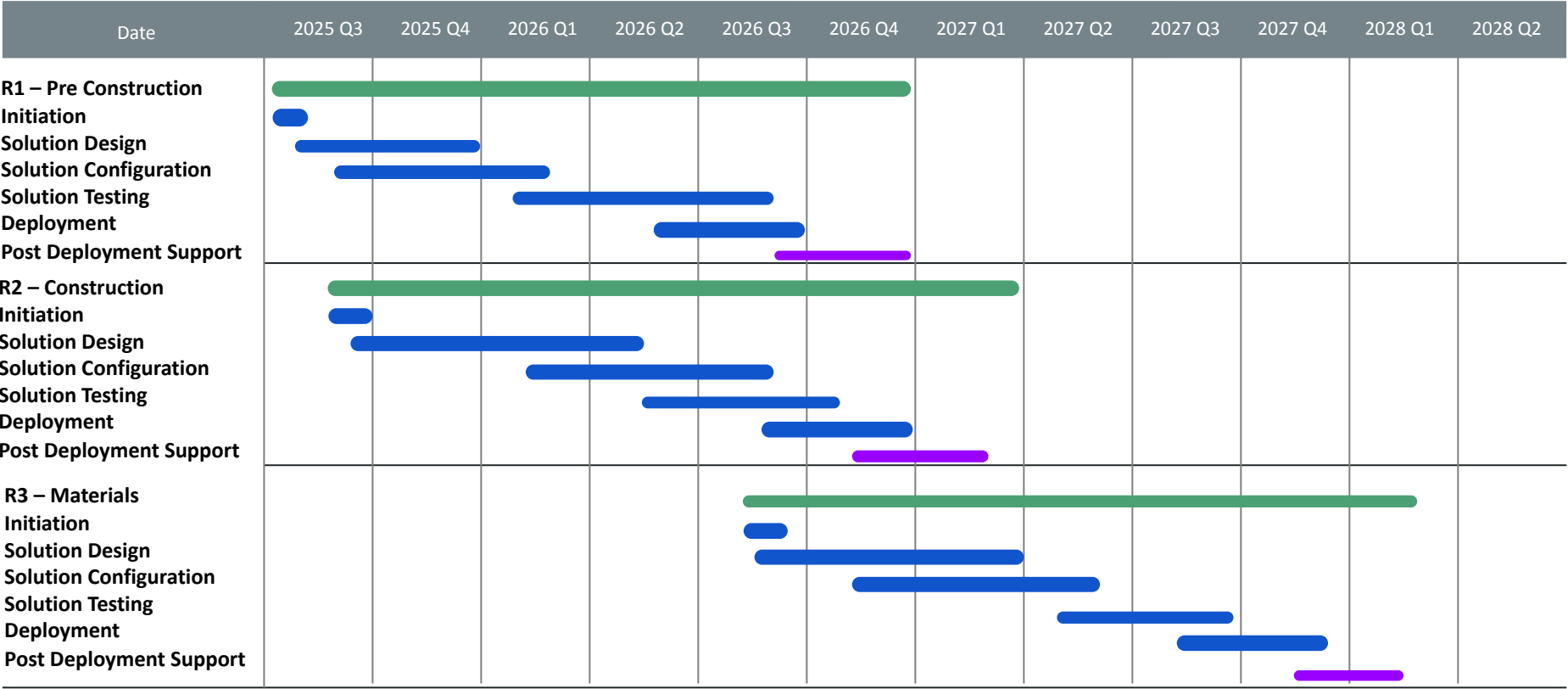
Vendor/Contractor

1. Business process mapping
2. Configuration specifications
3. System configuration
4. Test case creation
5. Test remediation
6. Training content
7. Train-the-trainer
8. Level 2 and 3 end user support
9. System technical support

Program Structure



Proposed Project Timeline



Project Costs

Project Costs by Category	FY25	FY26	FY27	FY28	FY29	Total
Professional & Outside Services (Contractors)	\$80,424.69	\$4,367,793.80	\$3,065,029.47	\$1,836,215.41		\$9,349,463.37
Independent Verification & Validation (IV&V)		\$215,000.00	\$220,000.00	\$165,000.00		\$600,000.00
Hardware						
Subscriptions/ Licensing	\$540,000.00	\$900,000.00	\$941,100.00	\$941,100.00		\$3,322,200.00
Communications						
Facilities						
License & Maintenance Fees					\$969,300.00	\$969,300.00
Total Development	\$620,424.69	\$5,482,793.80	\$4,226,129.47	\$2,942,315.41		\$13,271,663.37
Total Operational					\$969,300.00	\$969,300.00

What Success Looks Like

Success Criteria

1. Decrease in approval time for contractor prequalification applications, resulting in improved service to the construction industry and an increase in the number of firms eligible to potentially bid on a construction project.
2. Reduction, due to improved collaboration capabilities in CPDS, in the number of disputes between ADOT and construction contractors which are escalated to the ADOT district level for review. This improvement in collaboration between ADOT and construction contractors should result in improved adherence to project schedules.
3. Reduction in the staff time required to record and verify the assets built or refurbished during a construction project and store this information in the asset registry for use during maintenance.

Measures of Success

1. Within one year of the implementation of CPDS Release 1, the number of days required for ADOT approval of prequalification applications will decrease by 30% from 86 days to 60 days.
2. Within one year of the implementation of CPDS Release 2, the number of disputes escalated to the district level will be reduced by 33% from an average of 12 per year to an average of 8 per year.
3. Within one year of the implementation of CPDS Release 2 and the new MMS solution, the number of ADOT staff hours required to onboard the assets from a completed construction project into the asset registry will be reduced by 75% from an average of 80 hours currently to 20 hours.

Q & A Session

Recommended Conditions

ADOA-ASET Conditions

1. Should development costs exceed the approved estimates by 10% or more, or should there be significant changes to the proposed technology scope of work or implementation schedule, the Agency must amend the PIJ to reflect the changes and submit it to ADOA-ASET, and ITAC if required, for review and approval prior to further expenditure of funds.
2. Monthly reporting on the project status is due to ADOA-ASET no later than the 15th of the month following the start of the project. Failure to comply with timely project status reporting will affect the overall project health. The first status report for this project is due on August 15, 2025.
3. The agency shall follow the IV&V process from the initiation of the project and provide quarterly Independent Verification & Validation (IV&V) report, via email communication, to ADOA-ASET 90 days following the start of the project. IV&V vendor to submit separate IV&V reports for each individual project every quarter.

ITAC Voting Options

What ITAC May Consider In Review Whether:

- a. The proposed solution addresses the stated problem or situation;
- b. The budget unit is competent to carry out the project successfully;
- c. Sufficient sponsorship and support by budget unit leadership exists;
- d. Cost estimates provided are accurate;
- e. The proposed project aligns with the budget unit's Strategic IT Plan; and
- f. The proposed solution complies with statewide IT standards.

ITAC Motions:

- a. Move to Approve with Conditions As Presented
- b. Move to Approve with Conditions
 - i. Committee May Modify or
 - ii. Add Conditions
- c. Move To Deny

Relevant Statutes and Rules