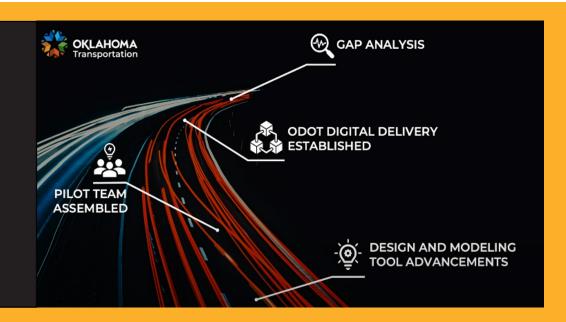
INNOVATION SUCCESS:

Oklahoma Department of Transportation transitions to 3D Design with Digital Delivery





Digital Delivery Program

Field Offices, 21 Technical Groups, Industry Partners

Roadmap to Digital Delivery Readiness

CHALLENGE

The Oklahoma DOT (ODOT) has received increasing requests from industry partners to move away from paper processes and transition to 3D design. The initial gap analysis revealed the department's digital delivery readiness was 25 percent. The agency needed a roadmap to achieve at least 75 percent readiness.



INNOVATION

The agency decided to implement a project delivery approach using digital data to design, construct, inspect, and maintain transportation assets. By adopting new workflows that leverage technology, it shifts from traditional 2D paper products to 3D data-based models, such as Enhanced Digital Plans and Advanced 3D models. This approach enhances efficiency in design, regulatory reviews, and construction processes, offering improved quality and reduced costs.

In 2022, ODOT established a pilot Design Squad in 2022 and completed the gap analysis in 2023. The Digital Delivery Technical Committee comprises ODOT Design, ODOT Construction, ODOT GIS, contractors, consultants, DBE, and county and local government representatives.

State DOT practices
demonstrating various
practices to demonstrate
capability building

ACB Portal







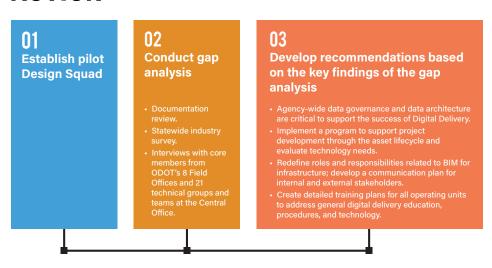
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Key Findings:

- Siloed divisions and concerns around the impact on business groups and stakeholders
- 2D processes are very manual, and technology is not used to the greatest potential

ACTION



RESULT

The strategic plan was developed in March 2024; implementation is currently underway. Following ODOT's current digital delivery roadmap can dramatically increase the department's readiness score from 25/100 points to 72/100 points by 2027.

Links



ODOT Digital Delivery Reports

Glossary Terms





