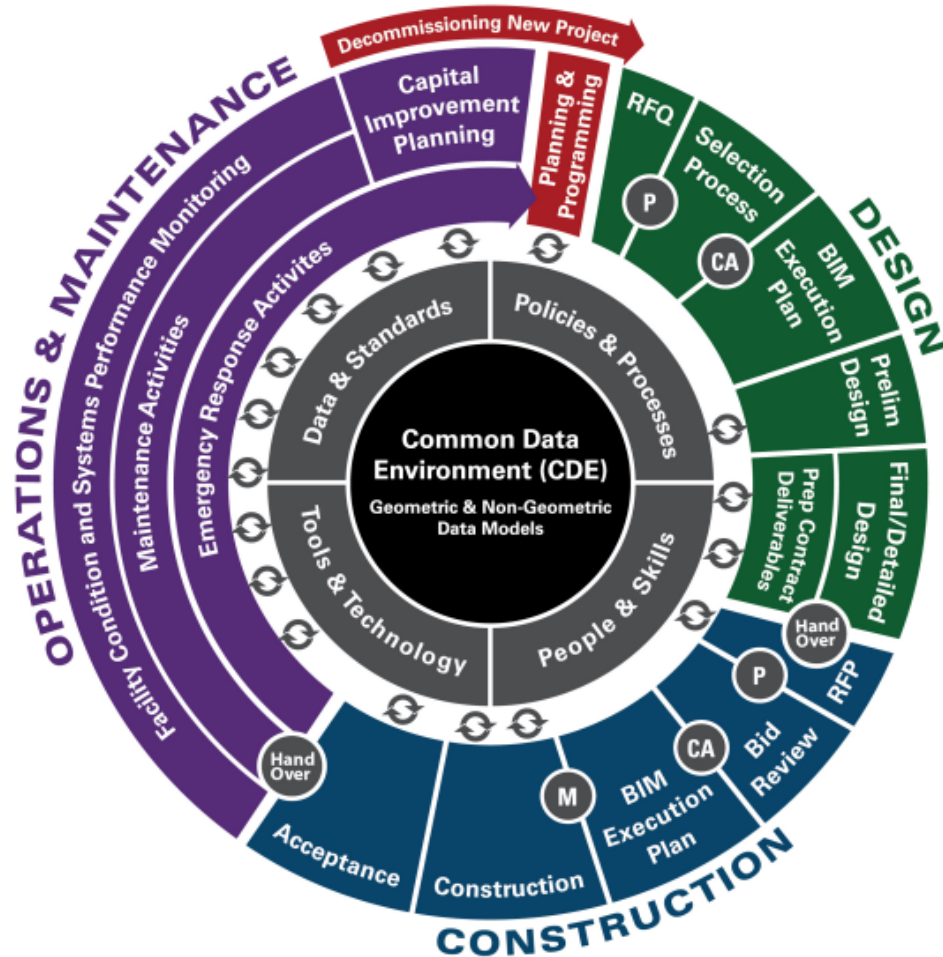




INDOT
**DIGITAL
DELIVERY**

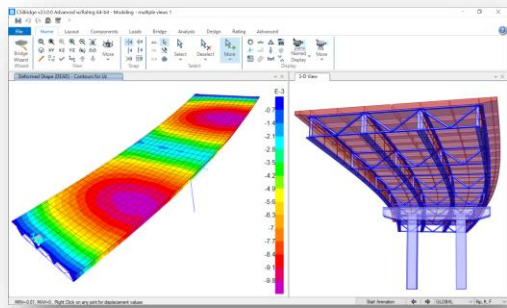
Louis Feagans, P.E.
Deputy Commissioner
Capital Program
Management

Data Lifecycle Management

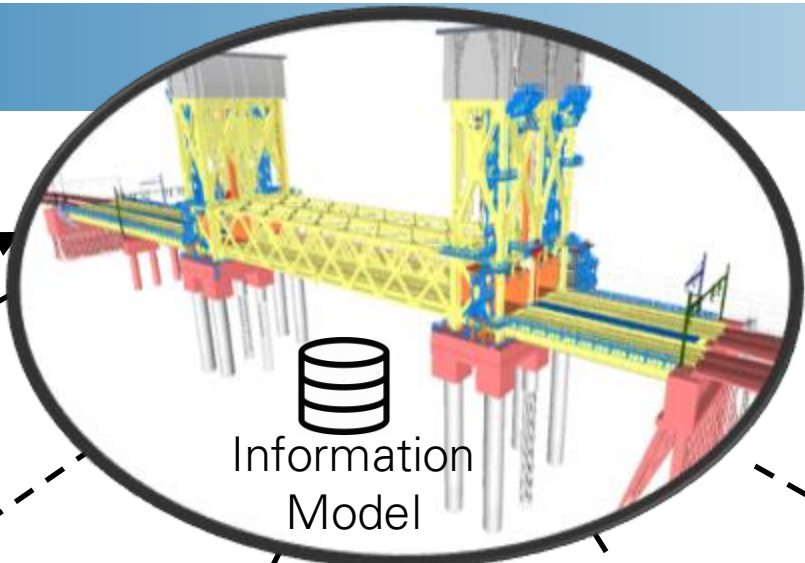


- Modernize CAD Workspaces
- Data Inventory Development
- Future-State Data Dictionary
- Lifecycle Management Strategies

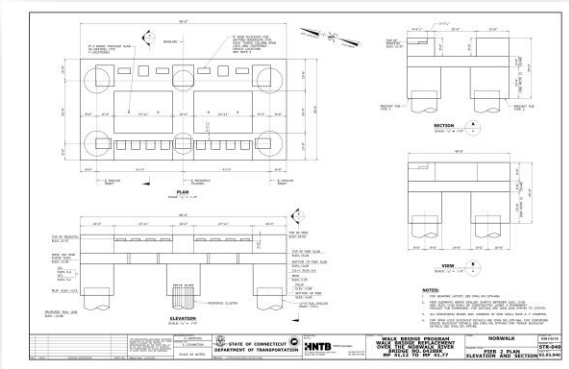
WHAT DIGITAL DELIVERY IS



Analysis



Visualization



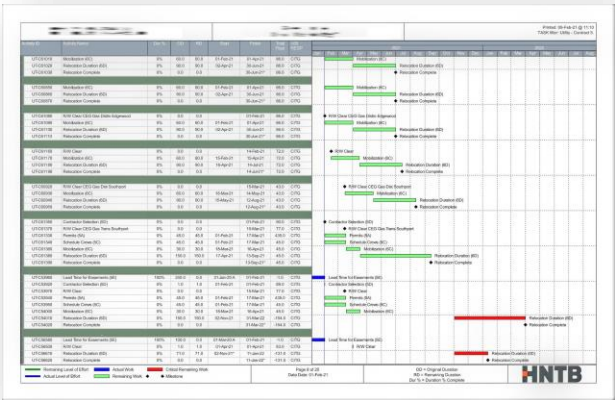
Traditional 2D Plans

PRISM #: 10-1595 PROJECT NAME: The Yakima River Project

This template is meant only as a guide to assist agencies in developing budgets for the evaluation process. The agency will be responsible for entering final budget in PRISM.

	A	B	C	D	E	F	G	H
	Unit	Unit	In-Kind	Cost	Match	Match	Match	Total
	Number	Cost	Match	Funds	Funds	Funds	Funds	Costs
		(e.g., \$/hr)		(e.g., \$/hr)				(e.g., \$/hr)
CONSTRUCTION COSTS: specific costs directly related to the execution and construction/implementation of the project, including permits (detailed description on back)								
Heavy Building Facility(3 years use/5000sq ft)	1.00	\$6,000.00	\$15,000					\$18,000
Purchase of signs	4.00	\$375.00	\$0					\$1,500
GIS Services	1.00	\$3,000.00	\$3,000					\$3,000
Truck	1.00	\$3,000.00	\$3,000					\$3,000
Flat Clear (brush, debris, mowing etc)	3.00	\$150.00	\$0					\$450
Insurance	2.00	\$337.50	\$0					\$675
Gas	100.00	\$2.50	\$0					\$250
Transportation	4.00	\$75.00	\$0					\$300
GPS Units	2.00	\$350.00	\$0					\$700
Permitting/Environmental Review	1.00	\$0.00	\$3,000					\$3,000
Biological Techniques (for 3 years)	3.00	\$20,000.00	\$0					\$60,000
SUBTOTAL								\$118,702.5
LAB AND ADMINISTRATIVE COSTS: direct costs (including staff time, that support construction/implementation of the project) (detailed description on back)								
Supervision	1.00	\$0.00	\$0.00					\$0.00
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
SUBTOTAL								\$0.00
STATE & LOCAL SALES TAX								\$0.00
PRISM BUDGET TOTAL								\$118,702.5
MATCH NOT INCLUDED IN PRISM BUDGET: Any match over 15% not included in the PRISM Budget for master bookkeeping and reimbursement								
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
	0.00	\$0.00	\$0					\$0
SUBTOTAL								\$0.00
TOTAL PROJECT BUDGET								\$118,702.5

Quantities / Cost Estimate



Construction Sequencing



GIS

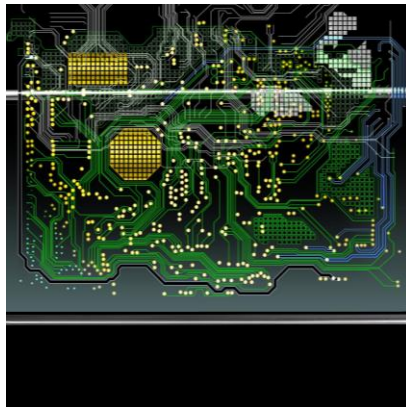
Digital Construction and As-Builts



Digital Construction Implementation



Inspection and Quality Control

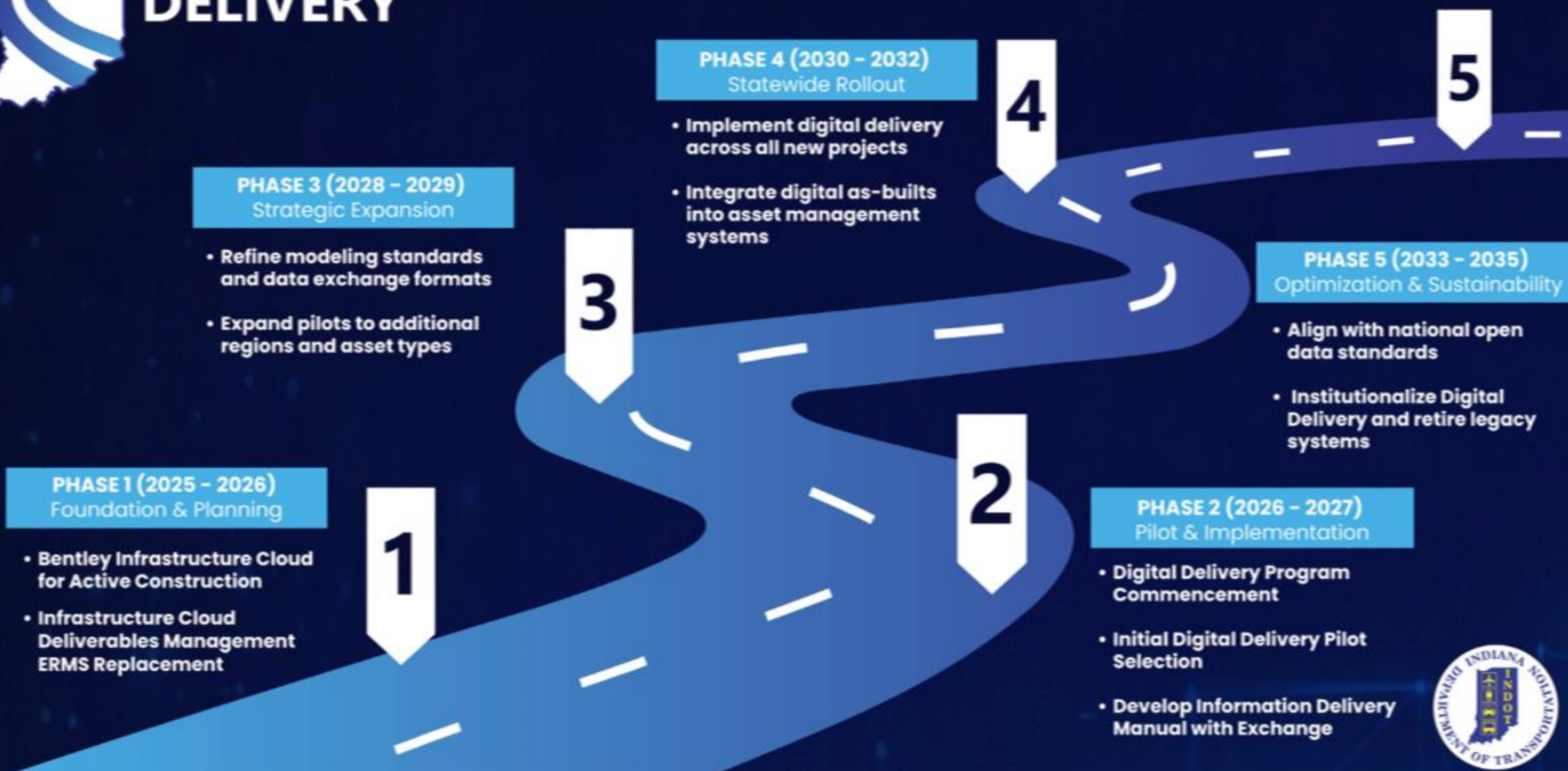


Integration with Asset Management



INDOT DIGITAL DELIVERY

10 YEAR STRATEGIC ROADMAP

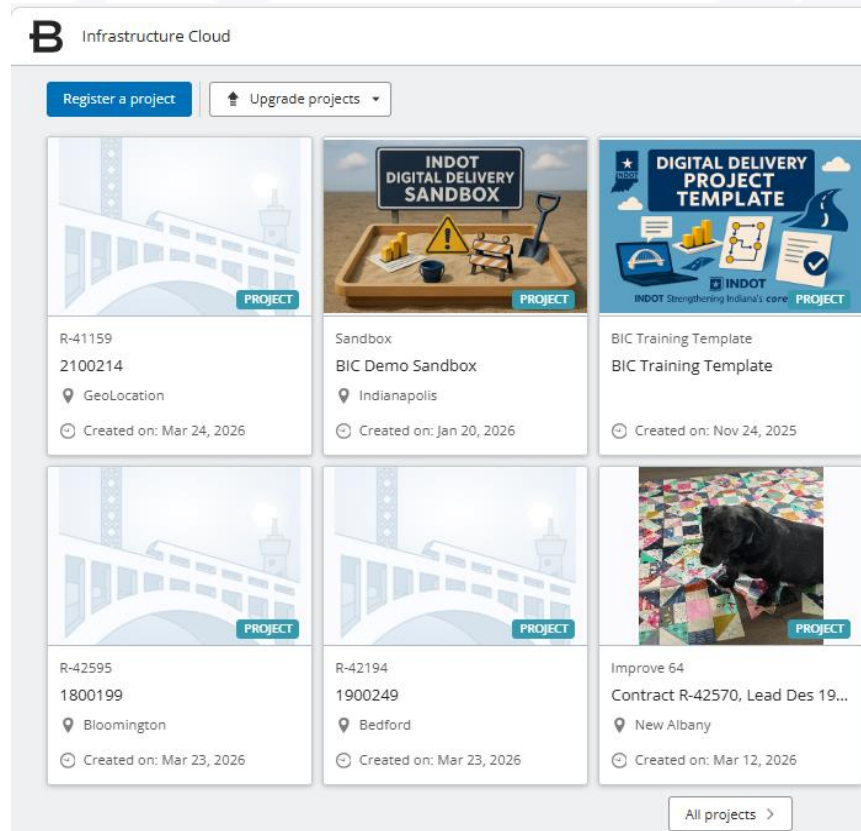


Where we are today – RP 1.5

Developing the technological tools and systems to manage Digital Delivery:

Early Pilots:

Infrastructure Cloud



SR 32



Infrastructure Cloud - Project Collaboration

Infrastructure Cloud | Sandbox BIC Demo Sandbox | PROJECT

Search in this project

Project View

INDOT DIGITAL DELIVERY SANDBOX

Sandbox BIC Demo Sandbox Indianapolis

Indianapolis, Wednesday May 27

73°F 77° 69°

Cloudy Wind: 4 mph, SE Humidity: 87%

THU 83° 54° FRI 79° 59° SAT 80° 55° SUN 79° 56°

My recent activity

- Submittal Issue #SUB-00024 Pavement Detail May 11, 2026 Viewed
- Transmittal Issue #TRA-00024 Pavement Detail May 11, 2026 Viewed

My work

- My work My role Approvals
- ID: TRA-00023 access drive Assigned to: Jonathan Paauwe Status: Fixed
- ID: SUB-00024 Pavement Detail Assigned to: Jonathan Paauwe Due: May 11, 2026 - 16 days Overd - Status: Unresol...
- ID: TRA-00024 Pavement Detail Assigned to: Jonathan Paauwe Due: May 11, 2026 - 16 days Overd - Status: Unresol...

View all

Create

- Change Order Request
- Daily Log
- Document Review
- Issue
- Notice of Changed Condition
- Observation
- Progress Meeting Agenda
- RFI

iModels

465/865

Completed with issues - View report

Summary

	My work	All work
7 All open items	0 Open Clash	0 Open Daily Log
0 New: 0	0 Open Observation	0 Open Document Review
0 Overdue: 2	0 Open RFI	0 Open Task
0 Close deadline: 0	0	4 Open Submittals
0 Upcoming: 0	0	0

- Web based tool kit
- INDOT ProjectWise file storage integration
- True Digital workflows
- Role based permissions
- Transparency throughout the project team

Initial Roll Out

Design and Development

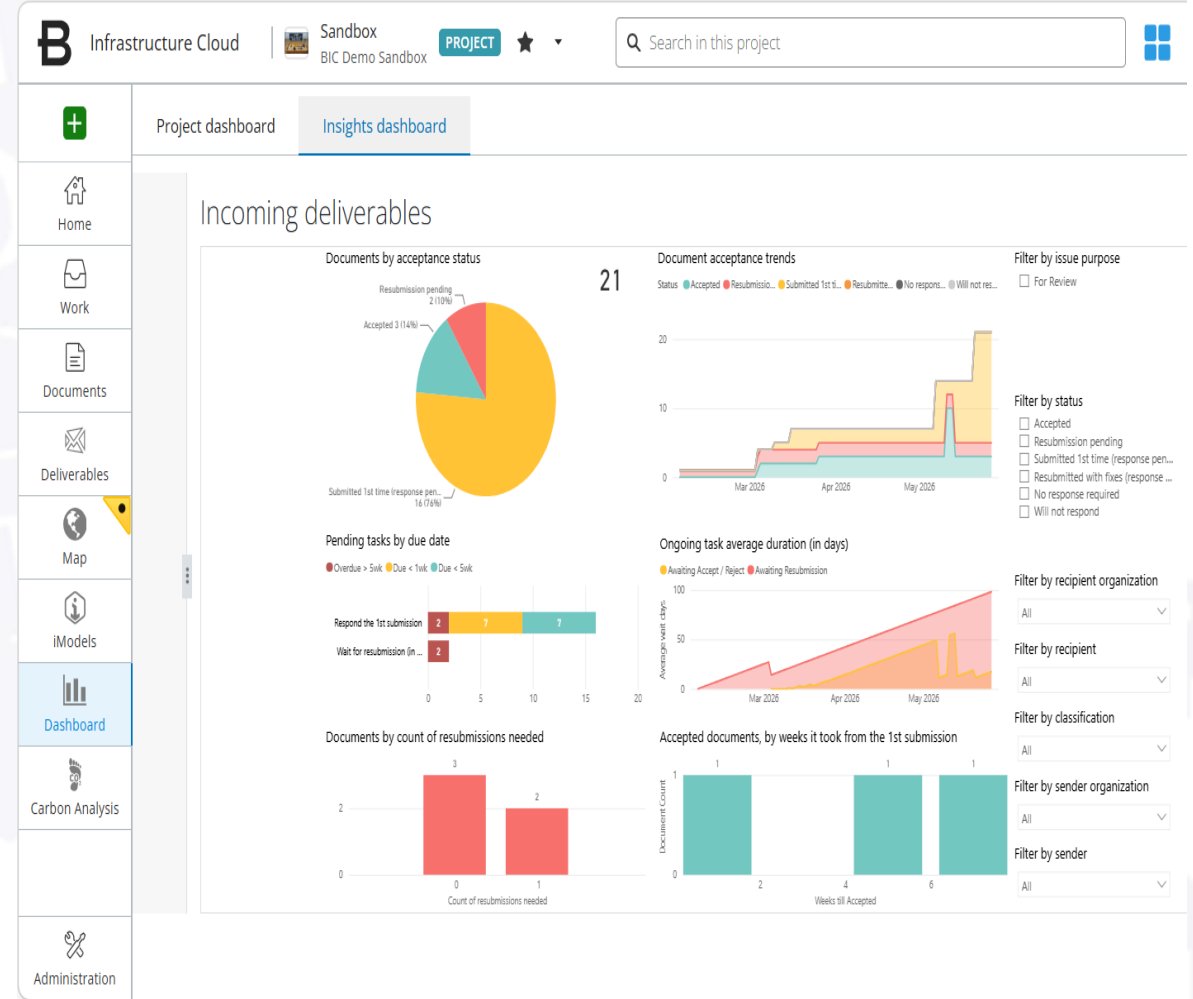
- Stage Submittal review process through Infrastructure Cloud instead of ERMS
 - Speed
 - Transparency
 - Collaboration

Construction

- Change Orders
- Notice of Change Conditions
- Work Orders
- Storm Water Inspection Form

Ease of use

Customizable Dashboards



Early Pilots – SR 32

The screenshot displays the Infrastructure Cloud web application interface. At the top, the header includes the 'Infrastructure Cloud' logo, a project identifier '2058... SR 32...' with 'EXTERNAL' and 'PROJECT' tags, a search bar, and user profile icons. Below the header, a navigation bar shows a back arrow and a dropdown menu set to 'SR 32 PDB'. The main workspace is divided into three sections: a left sidebar, a central map, and a right sidebar. The left sidebar, titled 'Civil Reports', contains a tree view with 'Geometry Reports' (Horizontal Alignment, Vertical Alignment) and 'Quantity Reports' (Along Alignment, By Area), along with links to 'Horizontal Alignment Review Report' and 'Vertical Alignment Review Report'. The central map shows an aerial view of a road corridor with overlaid engineering data, including a blue-shaded area and red alignment lines. The right sidebar, titled 'Map Layers', shows the 'Base' layer set to 'Bing Maps: Aerial Im...' and an 'Overlay' section with an 'Add Layer' button. Below the map, a 'Forms' panel is visible, showing a table with columns: Task, Display Name, Subject, State, Status, Created By, Assigned To, and Priority. The table currently displays 'No results found'. The bottom status bar includes a 'Messages' icon, a 'Define point to pan from' tool, a 'Display Optimizations' toggle (checked), and a 'Presentation' mode icon.

Infrastructure Cloud | 2058... SR 32... EXTERNAL PROJECT ☆ Search in this project

SR 32 PDB

Pan View does not have tool settings.

Civil Reports

- Geometry Reports
 - Horizontal Alignment
 - Vertical Alignment
- Quantity Reports
 - Along Alignment
 - By Area

Horizontal Alignment Review Report

Vertical Alignment Review Report

Forms

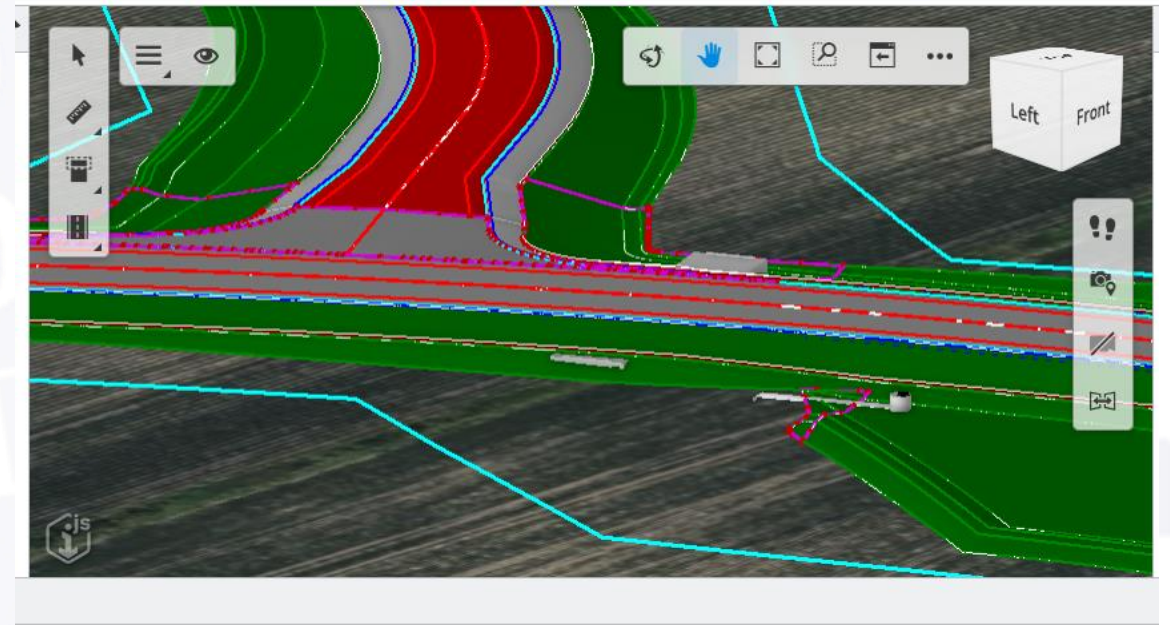
Forms (0)

Task	Display Name	Subject	State	Status	Created By	Assigned To	Pri
No results found							

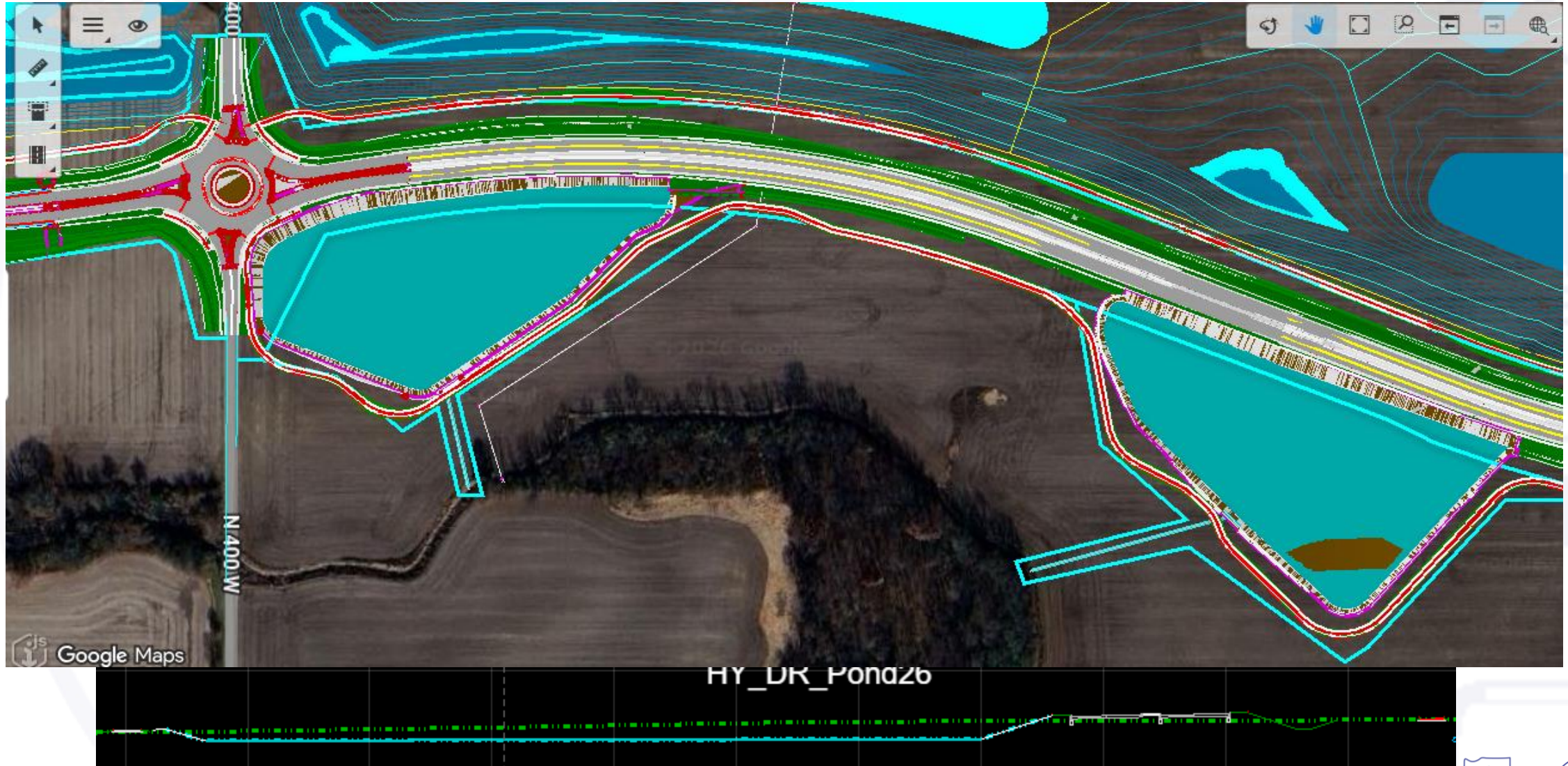
Messages Define point to pan from Display Optimizations Presentation

Designer to Contractor Lessons Learned

- Contractors love models
- Visualizations help everyone
- Something for the spaces in between
- Less Risk for all parties = savings



Data Drives Progress



What's Next?

- Assess INDOT's current condition
 - Data – what do we have and what do we need
 - Systems – are they fit for task
- Develop Structured Data requirements
 - CAD
 - GIS
 - Excel, CSV, etc....
- More Pilots
 - Partners welcome.....
- Start Scaling



Stay Up-to-Date at [INDOT: Digital Delivery](https://www.in.gov/indot/digital-delivery)

IN 90V

An official website of the Indiana State Government

Accessibility Settings

Language Translation

Governor Mike Braun

MENU



Indiana Department of Transportation

Search INDOT

Digital Delivery

[INDOT](#) > [Digital Delivery](#)

Digital delivery in transportation refers to a **model-based project delivery method** that replaces traditional 2D paper plans with **3D-engineered models and structured data** as the primary source of truth throughout the project lifecycle. Instead of static PDFs, contractors, designers, and inspectors work from integrated digital models that include geometry, attributes, and linked documentation. This approach enables:

- Improved design quality and visualization (e.g., seeing road and bridge designs together in 3D).
- Better collaboration and communication across design, construction, and asset management.
- Reduced change orders and RFIs, lowering project costs and delays.
- Enhanced asset management through digital as-builts and lifecycle data integration.
- Data-driven decision-making and automation for quantity takeoffs, cost estimation, and GIS integration.



What's New?

Infrastructure Cloud



INDOT
DIGITAL
DELIVERY

10 YEAR STRATEGIC ROADMAP

PHASE 3 (2026 - 2029)
Strategic Expansion

3

- Refine modeling standards and data exchange formats
- Expand pilots to additional regions and asset types

PHASE 4 (2030 - 2032)
Statewide Rollout

4

- Implement digital delivery across all new projects
- Integrate digital as-builts into asset management systems

PHASE 5 (2033 - 2035)
Optimization & Sustainability

5

- Align with national open data standards
- Institutionalize Digital

Thank You!

Questions?

