



## INTEGRATED PROJECT DELIVERY (IPD)

a CULTURE where we PROMISE  
what we are GOING TO DO and  
DELIVER what we PROMISE.

— NCDOT's Project Delivery Vision

### FEBRUARY 2020 NEWSLETTER

## Interactive Project Delivery Network guidance coming

In [November's newsletter](#) we rolled out the draft [Project Delivery Network \(PDN\) Diagram](#), a graphical representation of the major activities in the four stages of project delivery:

- Project Initiation
- Alignment Defined (30%)
- Plan-in-Hand (60%)
- Plans, Specifications & Estimates (90%)

To enhance the PDN Diagram, we are developing an interactive PDN guidance document that will further detail the tasks, deliverables and responsibilities within each major activity. The interactive document will be divided into the same four stages as the PDN Diagram. Each stage will include a narrative for each major activity, outlining:

- Overview of the activity, including why the activity is required (e.g. it is a state or federal regulation or a best practice)
- Responsibility Chart identifying the deliverables, recommended tasks and responsible party for each task
- References and links to available resources
- Deliverables list

This tool will provide a road map for Department staff, our consultant partners and external stakeholders working on NCDOT projects. The PDN will provide consistency and transparency throughout the project development process, enabling project teams to improve the reliability of delivering projects and, subsequently, to deliver an efficient program.

The development of the PDN documentation is a significant effort involving many internal and external folks. The PDN Diagram and guidance document will be implemented this spring and expected to be used on all projects that do not require alternative delivery.

## Project Sheets for CTPs

As part of the IPD effort, the NCDOT Transportation Planning Division (TPD) is working with Metropolitan Planning Organizations (MPOs) and Rural Planning Organizations (RPOs) to develop Project Sheets as a valuable new way of documenting Problem Statements and other key information in Comprehensive Transportation Plans (CTPs). Project planning information that previously was located in multiple places is now captured in a single document, making it easier to navigate and use.

Project Sheets gather CTP project proposal information including:

- Project purpose, identified need, and proposal characteristics

- Estimated facility traffic volume and capacity data in the base and future years
- Project history, CTP goal analysis, potential impacts, and other relevant project information
- Proposed facility typical section options
- Multimodal facilities for Complete Streets consideration
- Exceptions and approval form for the Complete Streets review team

The CTP for a study area provides concepts, current information and context for proposed projects, including Complete Streets consideration. Project Sheets are generated, in part, automatically from a statewide CTP geodatabase, with some project information already filled in. They will be included in all new CTPs.

Project Sheets will be included in the Project Initiation packet, along with the Project Scoping report for Project Managers to utilize when a project transitions from the Project Initiation stage to the Alignment Defined (30%) stage. They will inform the multimodal project refinement and project development processes, including prioritization, programming, NEPA studies and alternatives analysis during Project Initiation (Stage 1) and Alignment Defined (30%: Stage 2) activities, as integrated into the NCDOT Project Delivery Network.

A draft Project Sheet sample can be reviewed [here](#). Please send comments or suggestions to Julie Bogle ([jebogle@ncdot.gov](mailto:jebogle@ncdot.gov)).

## ATLAS is evolving with IPD

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**New functionality:** ATLAS Release 1.7.3 was deployed in December. The search tool now enables the user to draw a study area, and the Screening Report includes a Hydrography Sub-Report.

[ATLAS](#) is a GIS-based regional modeling resource used to connect and share current and historic data across multiple disciplines, for project screening and project management. See the “About” section in any of the ATLAS apps for the full list of enhancements recently added, or follow [this link](#) to see release notes and tip sheets.

**Updates to reflect IPD changes:** The ATLAS Workbench now is the place to upload all final project documents and GIS deliverables. As IPD combines existing and new business processes, the ATLAS Workbench will reflect those changes. Recent ATLAS updates capture the new Local Government Agencies (LGA) Coordination process, updated the Hydraulics deliverables list to reflect current policies, and addressed Bike, Ped and Transit work related to Complete Streets.

Additional changes are underway to reflect enhancements to the Project Scoping and Merger Screening processes. Stay tuned for more updates in the coming months.

**Training:** ATLAS training is available to agencies, consultants, and DOT staff periodically throughout the year and as requested. The next training sessions are scheduled for the week of February 10. Travel to attend should be properly approved by the employee's organization. To reserve your spot or to request training, contact [atlas@ncdot.gov](mailto:atlas@ncdot.gov).

## OpenRoads Designer (ORD) implementation manager

NCDOT has appointed Jeffrey M. Garland, PE, PMP ([jmgarland@ncdot.gov](mailto:jmgarland@ncdot.gov)), to manage the ORD Implementation Initiative to migrate to Bentley's OpenRoads Designer (ORD) CADD software. ORD will replace the versions of MicroStation currently used by the Department and our Private Engineering Firm partners to design and prepare plans for our transportation projects.

ORD is a comprehensive, multi-disciplinary, three-dimensional (3D) modeling application that advances the delivery of transportation projects from conceptual design through construction. Its 3D modeling capabilities have the potential to greatly benefit project design, construction and inspection.

A draft implementation plan was circulated in July to Units and Divisions that will be affected by the transition to ORD. We are refining the implementation plan based on feedback from the Units and Divisions, and we have been actively working with Bentley over the past year. The initial ORD migration date was March 2019; however, based on development work by the Department and Bentley over the past year, as well as recent coordination efforts with Bentley, the target date for implementing ORD is now December 31, 2020.

Specific training and implementation plan details and timetables will be available this spring. CADD Services has developed a MicroStation Connect Basic training course that should be available to NCDOT staff in February. Once the MicroStation Connect Basic training is completed, NCDOT users will begin piloting and testing the ORD software.

## Share your IPD insights

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What does Integrated Project Delivery mean for you and for NCDOT -- and why are we doing this?

We'd like to hear from project managers, technical unit specialists and others who are finding value in the overall IPD process – or in any of the new tools and processes that have been rolled out on the [IPD site](#) in the past year, such as:

- [Project Initiation](#) training
- The [Professional Engineering Firm Management Guide](#)
- The [Contract Type Decision Tool](#)
- New scope-of-services language for [Post-Design Construction Services](#)

Your insights will help us develop a planned video on what IPD is all about. To share your perspective, please contact Bruce Siceloff (919-707-2674, [wbsiceloff@ncdot.gov](mailto:wbsiceloff@ncdot.gov)) in NCDOT Communications.

## Coming up

### February 12

- *ATLAS training, Century Center, Raleigh*

### February 13

- *ATLAS training, Century Center, Raleigh*

February 14

- *ATLAS training, Century Center, Raleigh*

August 24-25

- *NCDOT Preconstruction Workshop, NCSU McKimmon Center, Raleigh*

### **New tools available now**

Tools available on the [Project Management Connect](#) page.

- *Contract Type Decision Tool [Webinar Video](#) and [Matrix Document](#)*

Contact IPD Team

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- Send comments and questions

## **Integrated Project Delivery**

**[bit.ly/NCDOT-IPD](https://bit.ly/NCDOT-IPD)**

Resources for streamlining the process – from concept through construction