Last updated 11/21/16

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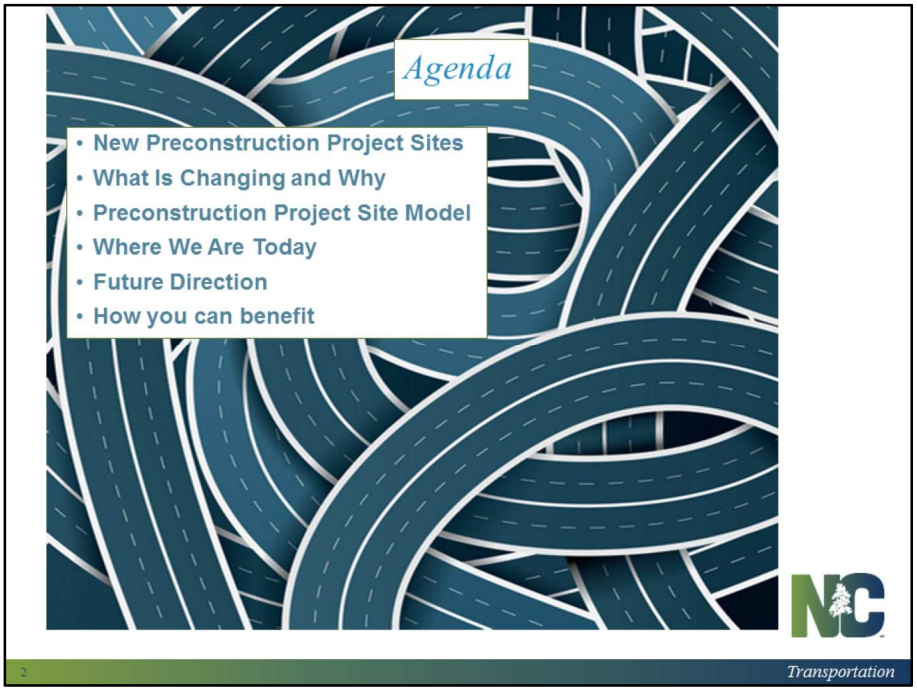

Agenda
• New Preconstruction Project Sites
• What Is Changing and Why
• Preconstruction Project Site Model
• Where We Are Today
• Future Direction
• How you can benefit
2
Transportation

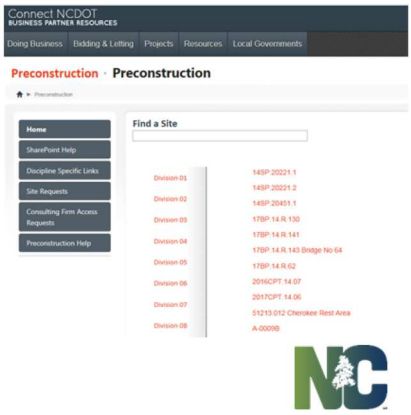
Announcing: NCDOT Preconstruction Project Sites

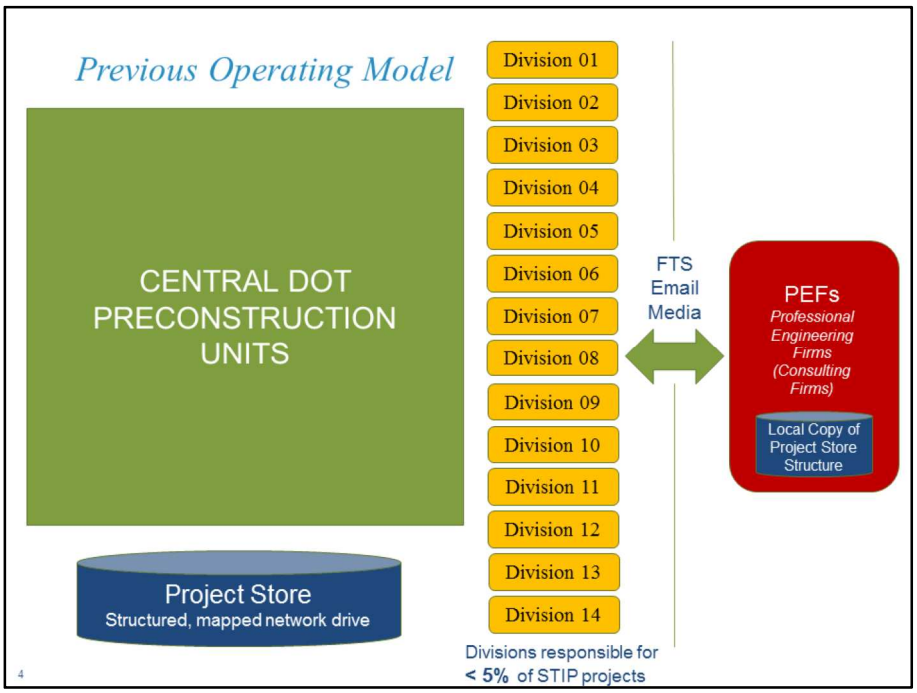
To facilitate project delivery through enhanced collaboration between NCDOT and its partners, online Preconstruction Project Sites are being established for every transportation project.

Each Preconstruction Project Site will allow:

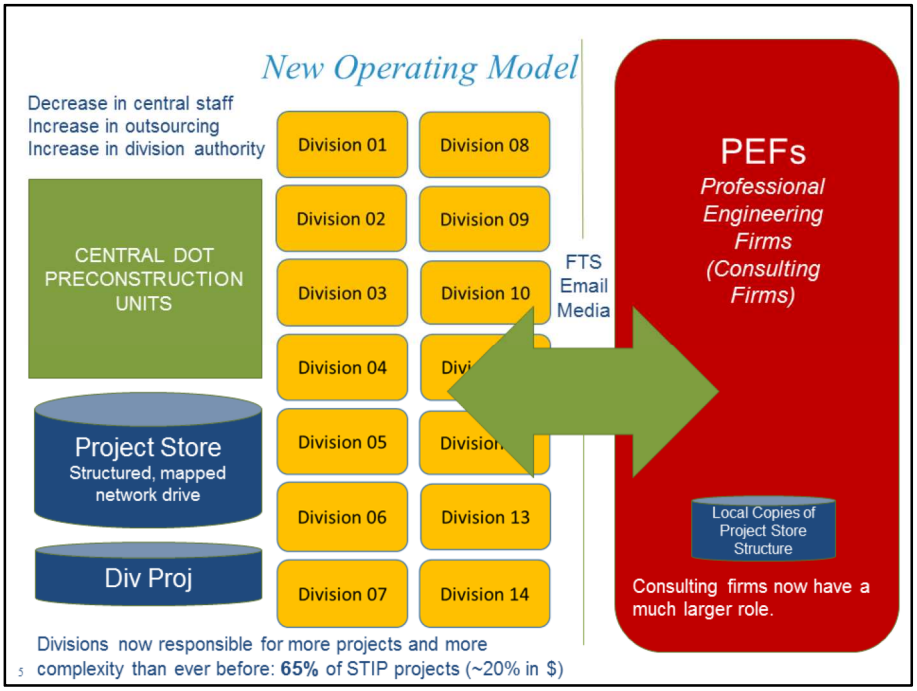
- Registered users (internal and external) to submit, review, and modify project files based on their roles;
- A consistent way to organize project files statewide;
- Rapid and comprehensive searching of all project files;
- Transfer of large files;
- Versioning of project documents; and
- Access to project files from mobile devices.

The initial rollout includes support for the planning portions of the project; support for additional disciplines & project phases will follow.





Previously, almost all STIP projects were managed centrally and all the preconstruction content was stored in a complex mapped network drive called Project Store.. Divisions managed small local projects, seldom exceeding 20 plan sheets. They tended to store all their project content for the small projects just in few folders on a share drive, not in a formal structure. PEFs exchanged files with DOT through FTS, email or physical media. Central DOT disciplines would store the files in Project Store.



DivProj was created as a copy of Project Store structure but with access tailored for the divisions. With increase in scope & responsibility, many more files had to be exchanged through the inefficient processes of FTS, email & physical media. Improvement is needed to facilitate project delivery.

Goals to Support Project Delivery

Accessibility goals:

- Appropriate access by all involved user groups: DOT users (central and division), Consultants (PEFs), and External partners
- Access from mobile devices

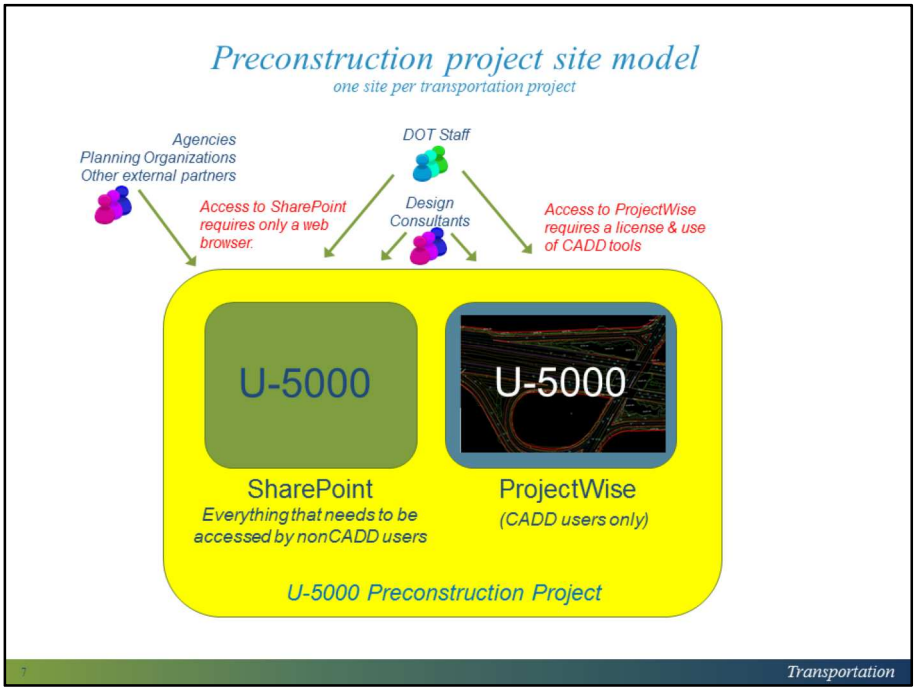
Functionality goals:

- Easy & intuitive to use, fits business processes & terminology
- Handles large files
- Tools tailored for CADD design
- Automation & standardization
- Everyone works with same reference copy
- Versioning
- Backup & recovery, retention management

General Content Management goals:

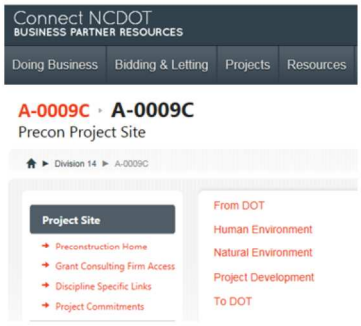
- Organized online storage and useful tools
- Ability to navigate to content by discipline
- Ability to search for content & quickly locate deliverables

Biggest impact: Ability for consultants to access and store files directly



Ultimately, each project will have two sides – the SharePoint side and the ProjectWise (CADD) side. The SharePoint side is much farther along and that's what we are mainly talking about today.

First Step: SharePoint



Sept 2016: Initial rollout on SharePoint

- > 1000 sites created so far, one per project
- Each site is built from a common **template**

Initial rollout **Benefits:**

- Consulting firms can *contribute* to some libraries based on assigned role and *read* the rest
- DOT & Consultants can store, share and exchange files in a persistent place:
  - Files are not deleted *unlike with FTS*
  - Multiple groups can access same set of files
  - Initial set of disciplines can be completely moved to SharePoint instead of using Project Store
  - Store ETRACS deliverables here & provide link
- Quick Reference files, FAQ, useful links

Initial rollout **Limitations**:

- Other disciplines must share and exchange files or sets of files in the **From DOT** and **To DOT** libraries
- No CADD support yet

Next Steps on SharePoint

By January 2017:

Added Tuesday 11/8

- **Precon Announcements** *on Preconstruction Home page, to inform users of new features*
- **Project Development Collaboration** library
  collaborate with resource agencies & planning organizations (MPOs, RPOs) on environmental documents etc.
- **DOT Restricted** library
  Restricted cultural resources, protected species, plans by others (visible to DOT only)
  NOTE: Info that should not be shared with a broad audience, such as Man day estimates, engineering ests., consultant feedback – should not be put in these sites
- **Project Contacts** list
  Keep track of who is working on the project & their contact info
- **New User Survey**

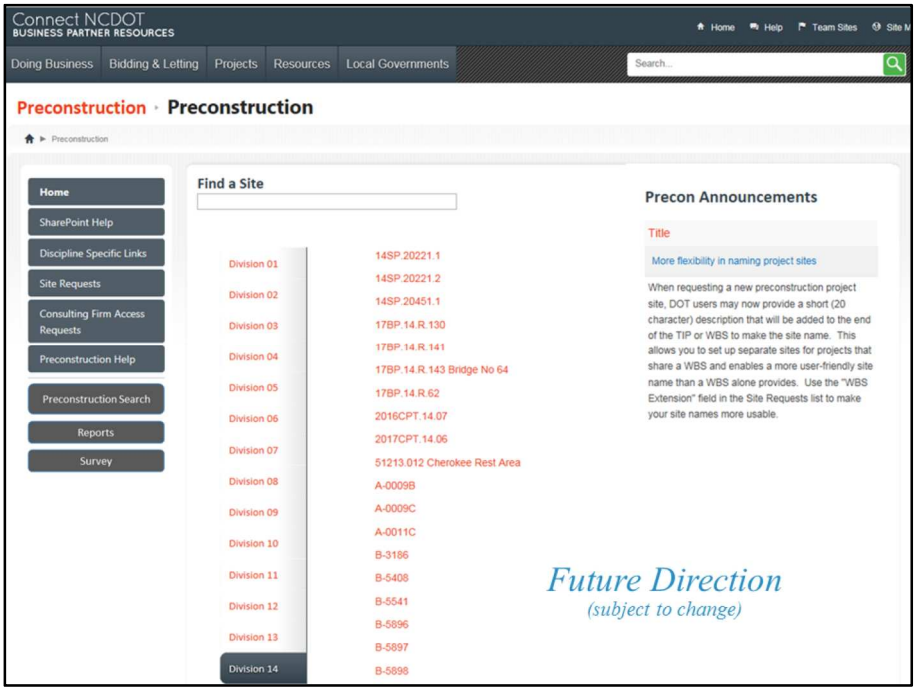
Incrementally roll out improvements:

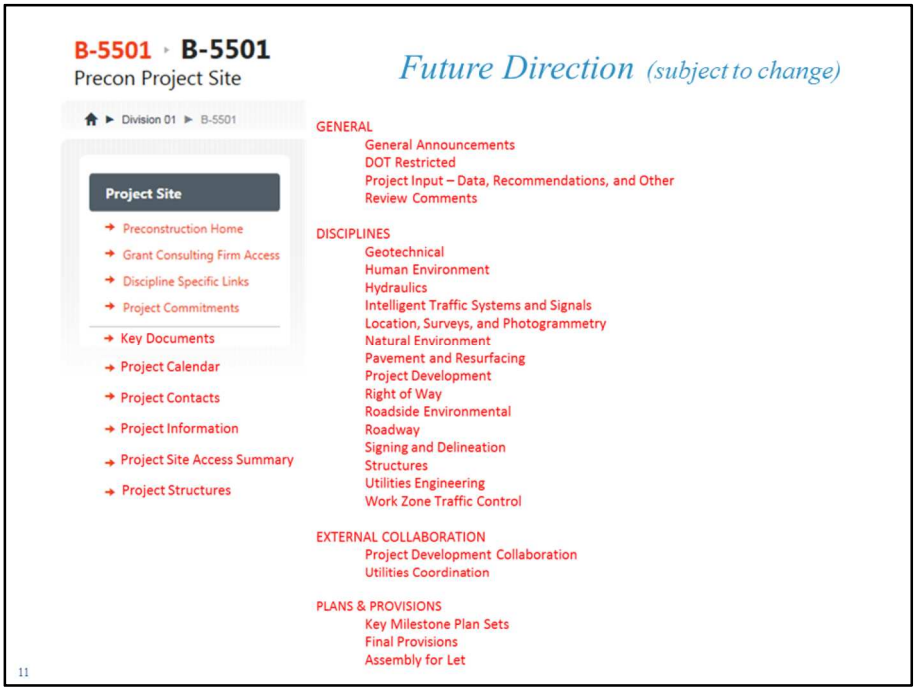
- **More document libraries**
- **More useful tools**
- **Updates to Help information**

Prioritize & enhance model based on User Group Feedback:

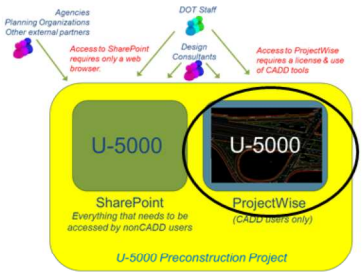
To volunteer for the **Preconstruction User Group**, contact Ellen Dickson ehdickson@ncdot.gov

- Monthly meeting – in person in Raleigh or join by phone


Connect NCDOT
BUSINESS PARTNER RESOURCES
Home
Help
Team Sites
Doing Business
Bidding & Letting
Projects
Resources
Local Governments
Search...
Preconstruction
Preconstruction
Home
SharePoint Help
Discipline Specific Links
Site Requests
Consulting Firm Access Requests
Preconstruction Help
Preconstruction Search
Reports
Survey
Find a Site
Division 01
Division 02
Division 03
Division 04
Division 05
Division 06
Division 07
Division 08
Division 09
Division 10
Division 11
Division 12
Division 13
Division 14
14SP.20221.1
14SP.20221.2
14SP.20451.1
17BP.14.R.130
17BP.14.R.141
17BP.14.R.143 Bridge No 64
17BP.14.R.62
2016CPT.14.07
2017CPT.14.06
51213.012 Cherokee Rest Area
A-0009B
A-0009C
A-0011C
B-3186
B-5408
B-5541
B-5896
B-5897
B-5898
Precon Announcements
Title
More flexibility in naming project sites
When requesting a new preconstruction project site, DOT users may now provide a short (20 character) description that will be added to the end of the TIP or WBS to make the site name. This allows you to set up separate sites for projects that share a WBS and enables a more user-friendly site name than a WBS alone provides. Use the "WBS Extension" field in the Site Requests list to make your site names more usable.
Future Direction
(subject to change)


B-5501 › B-5501
Precon Project Site
Division 01 ► B-5501
Project Site
Preconstruction Home
Grant Consulting Firm Access
Discipline Specific Links
Project Commitments
Key Documents
Project Calendar
Project Contacts
Project Information
Project Site Access Summary
Project Structures
Future Direction (subject to change)
GENERAL
General Announcements
DOT Restricted
Project Input – Data, Recommendations, and Other
Review Comments
DISCIPLINES
Geotechnical
Human Environment
Hydraulics
Intelligent Traffic Systems and Signals
Location, Surveys, and Photogrammetry
Natural Environment
Pavement and Resurfacing
Project Development
Right of Way
Roadside Environmental
Roadway
Signing and Delineation
Structures
Utilities Engineering
Work Zone Traffic Control
EXTERNAL COLLABORATION
Project Development Collaboration
Utilities Coordination
PLANS & PROVISIONS
Key Milestone Plan Sets
Final Provisions
Assembly for Let
11

Bentley's ProjectWise



SharePoint does not understand CADD internal references.

- Files (or .zip files) can be stored there, but designers need more

NCDOT plans to use ProjectWise for storing and sharing CADD based content.

NCDOT is in the process of procuring

- Use of Bentley's cloud-based managed ProjectWise Design Integration environment
- Use of additional service offerings:
  - ProjectWise Project Sharing Services
  - ProjectWise Deliverables Management
- Services engagement with Bentley to help us get started
- *Exact configuration of applications & tools for CADD still under development*

How you can benefit!

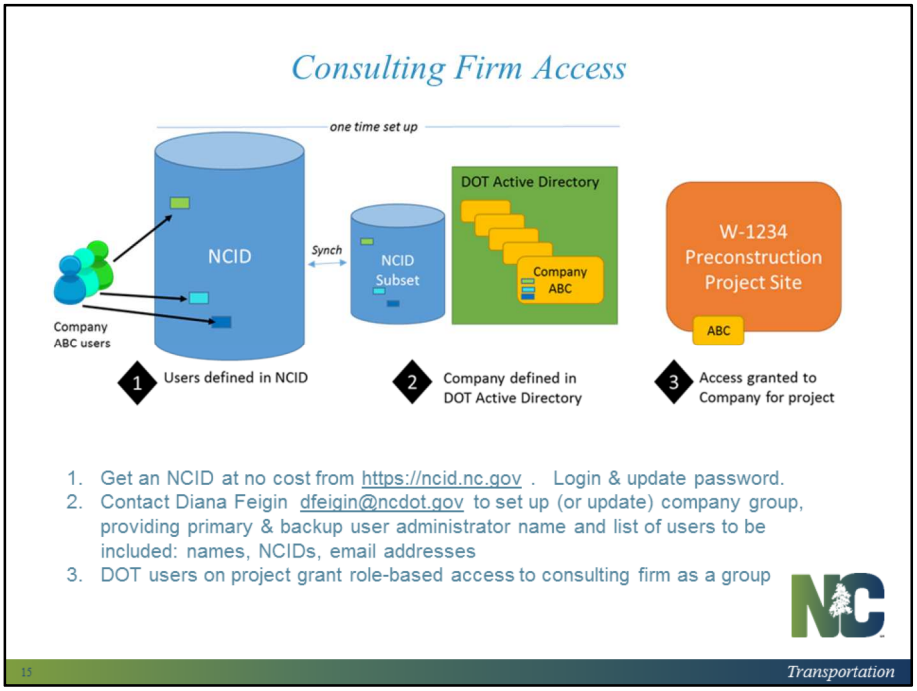
- Online access to project repositories
- Easy way to store/transfer large files
- Access from mobile devices*
- Simpler standard project structure – less complex than today's TIP folders
- Consistent structure from project to project
- More libraries and features coming soon!

What you can do to get started

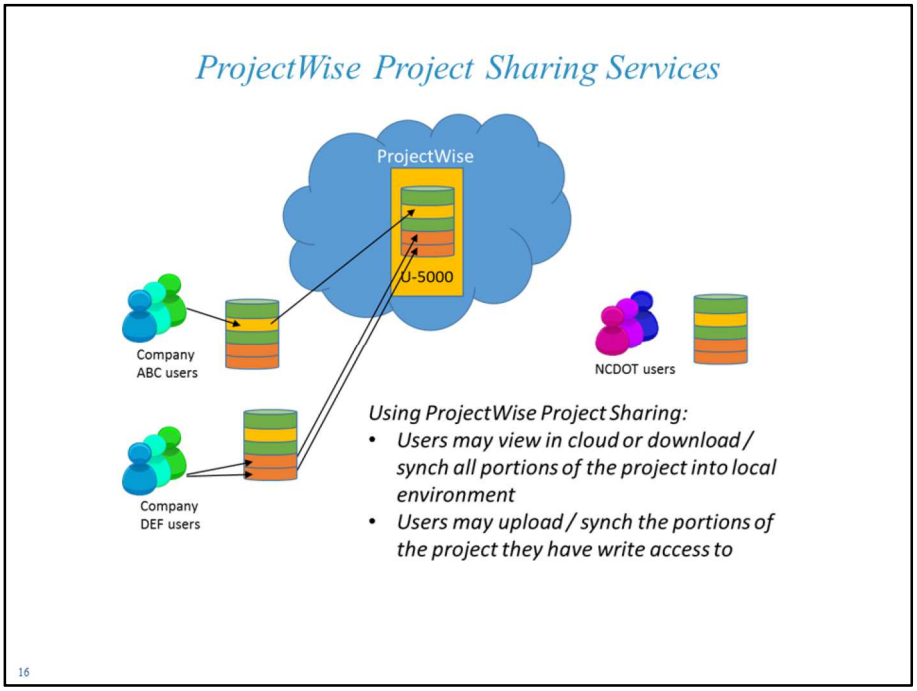
- Start using the project sites!
- Request new sites be set up for projects that don't yet have sites
  - Use the "WBS Extension" field to add a word or phrase to the site name
- Grant access to projects for the consulting firms you're working with
  - Subs can be granted access as well
- Consider participating in the Preconstruction User Group or otherwise provide constructive feedback

**Windows & IOS devices. Android users must use an app, such as SharePlus.*

Backup Slides



Here is the process for how design consulting firms get themselves set up such that NCDOT users can grant access to them for specific projects.



Consulting companies can use Project Sharing with or without ProjectWise in their own premises.