

WV DOT Scanning Project

*Presented By: WV GIS Technical Center
November 20, 2025*



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01

Project Overview

Project Goals

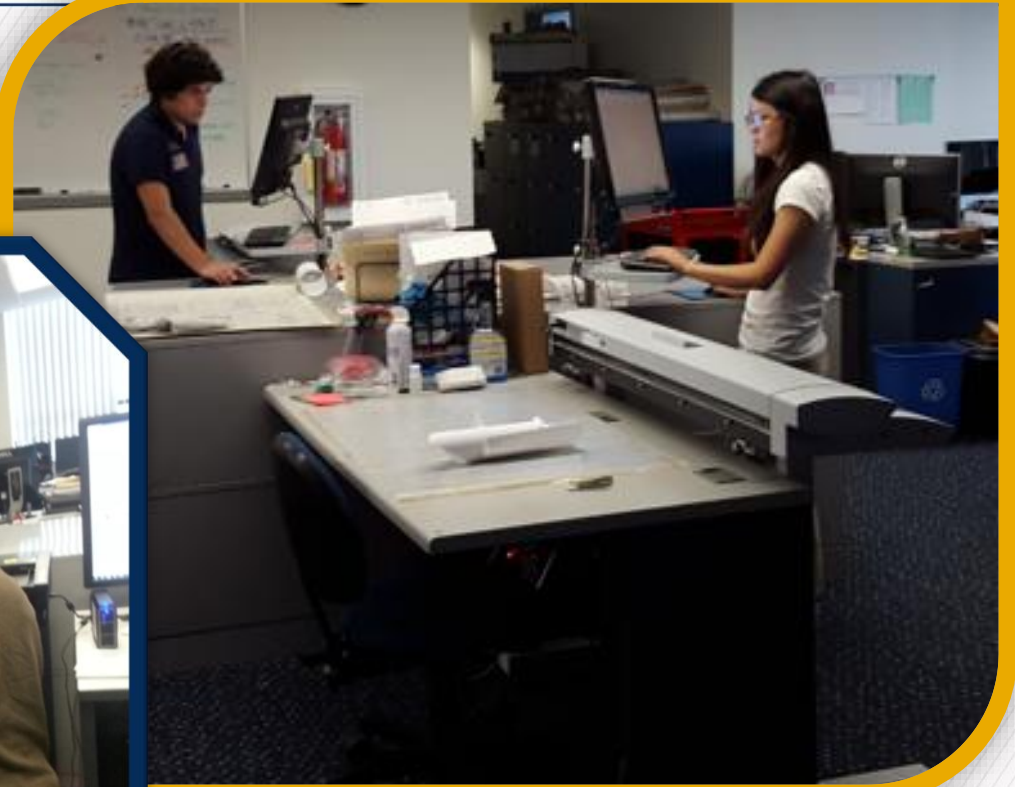
- **Improved Management and Archival System**
 - Electronic database manages plan sets and associated documents.
 - Eliminates lost drawings, misfiled drawings, and deterioration of drawings.
 - Consolidates record plan sets in one location in a digital database.



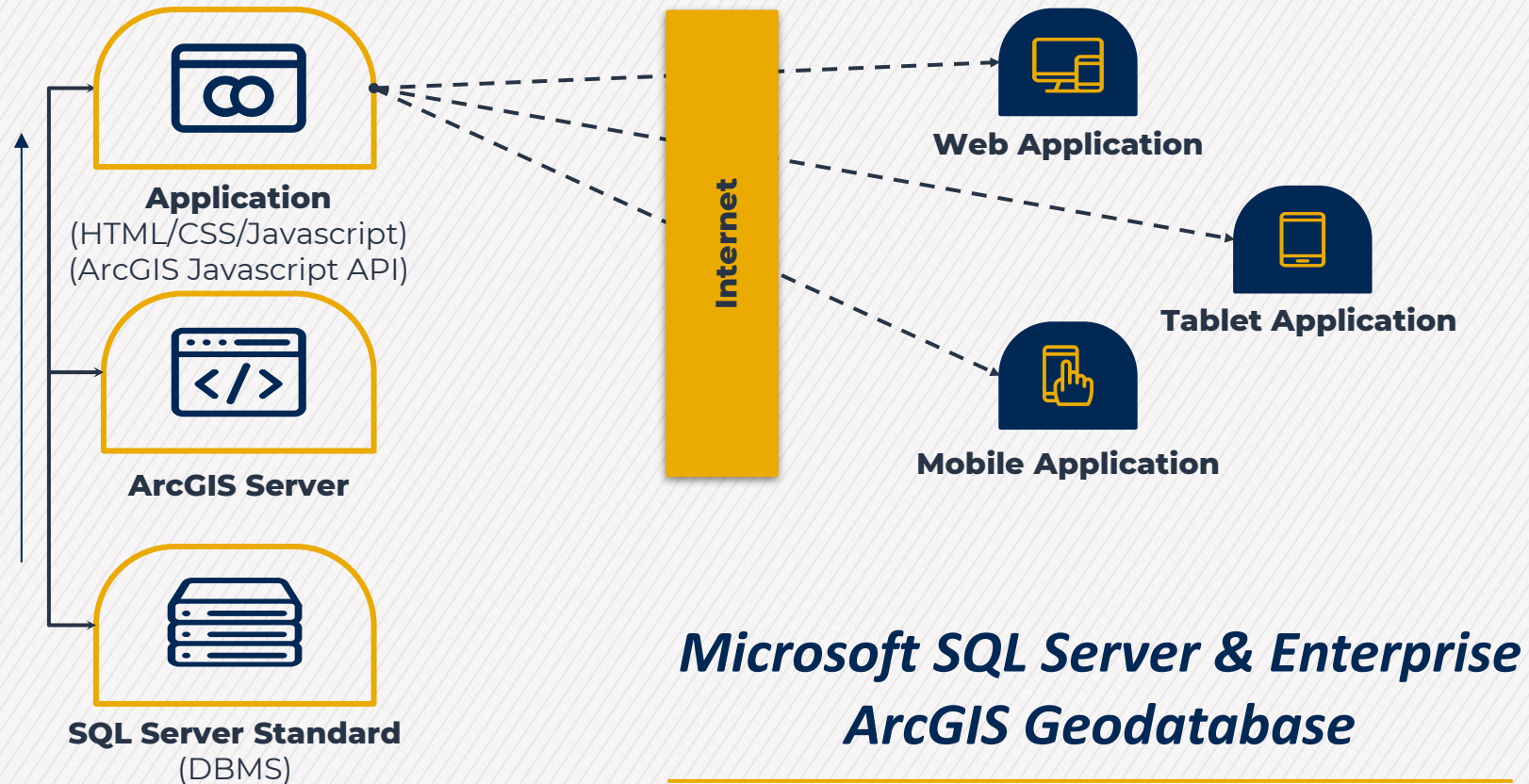
Project Goals



- **Faster and Easier Access to Drawings**
 - Accessible by anyone, at any time, from anywhere.
 - Improved document accessibility for both internal and external users.




System Design



Online Highway Plan Locator

<https://www.mapwv.gov/dot/plans/ProjectDetails.php?scanID=6887>

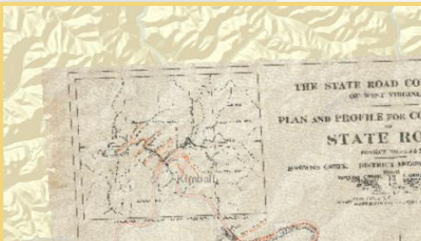


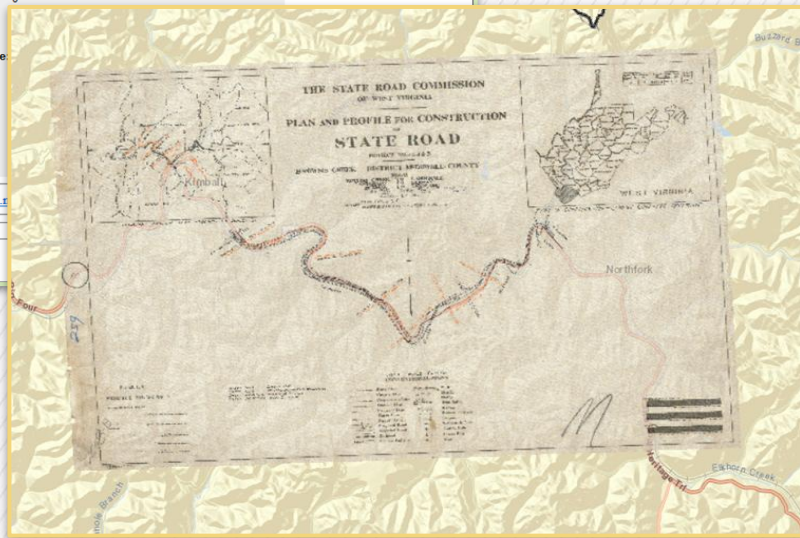
West Virginia Department of Transportation

Project: P_24_2_0052_00_000_1930_S06887

Scan ID: Project Title: Federal Project: State Project: County: District: Plan Type: Sign System: Route: Mile: Special ID: Bridges: Fiscal Year: Supplemental Code: Project Status: Book Location: Scanning: PDF: GeoTIFF: Map: Comments: ProjectWise:	6887 Bottom Creek to LandGrant to Eckman to Keystone 2048-B McDowell 10 Construction Plan U.S. Highway 52 0 Special ID: Bridges: Fiscal Year: Supplemental Code: Project Status: Book Location: Scanning: PDF: GeoTIFF: Map: Comments: ProjectWise:
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Query URL: [/www.mapwv.gov/dot/plans/ProjectDetails.php?scanID=6887](https://www.mapwv.gov/dot/plans/ProjectDetails.php?scanID=6887)
Email Address:
[Close](#)





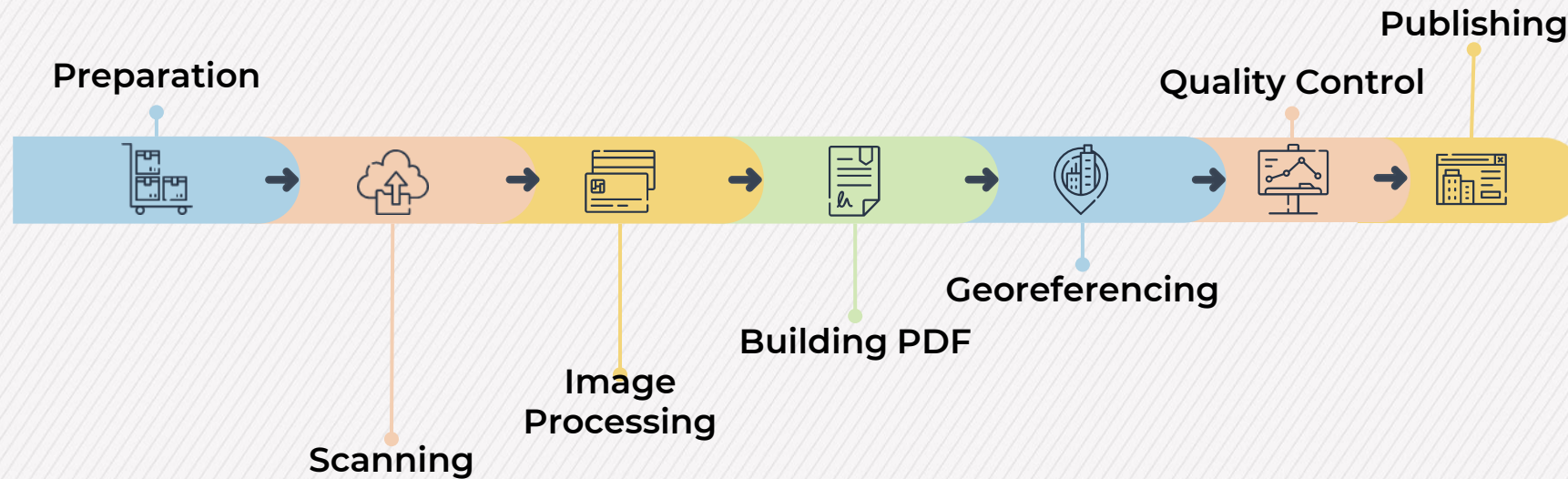
<http://mapwv.gov/dotplans/>

[illegible]

02

Project Operation

Operational Flow



Let's Go!

Key Software



Adobe Photoshop



Adobe Acrobat



ArcGIS Pro



Network Drive



Script Based



Microsoft Access

Project Book Preparation



Unpacking

Plans given by the DOT are moved to the naming pile.



Sorting

Each folder is checked for organization and sorted.



File Naming

Plan information is entered into the Database.

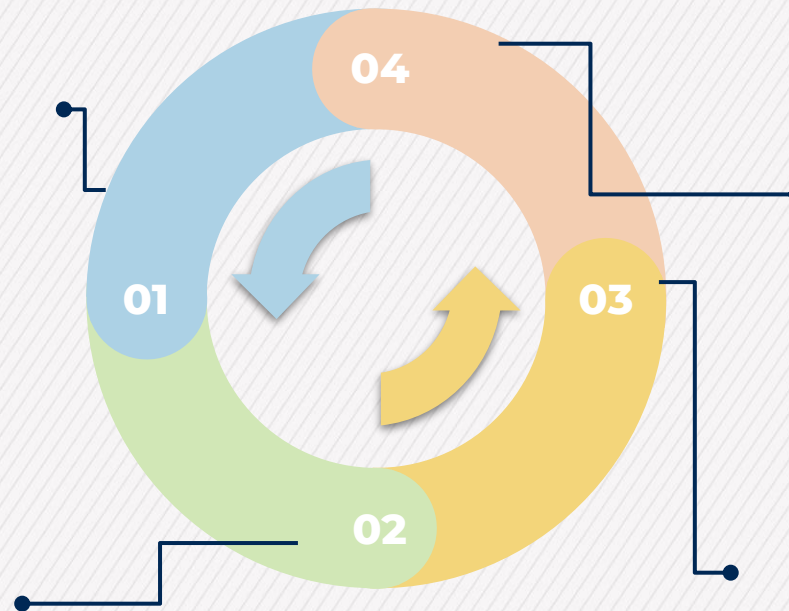
Project Book Scanning



Scanner is cleaned and set up.



Each page is cleaned and repaired as needed.



The original scans are relocated to the network drive.



Each sheet is scanned and checked for errors.

The Tech Center's Scanning Room

Finished
Plans

Plans Needing
Named

Plans Ready
to Scan

Scanning
Stations

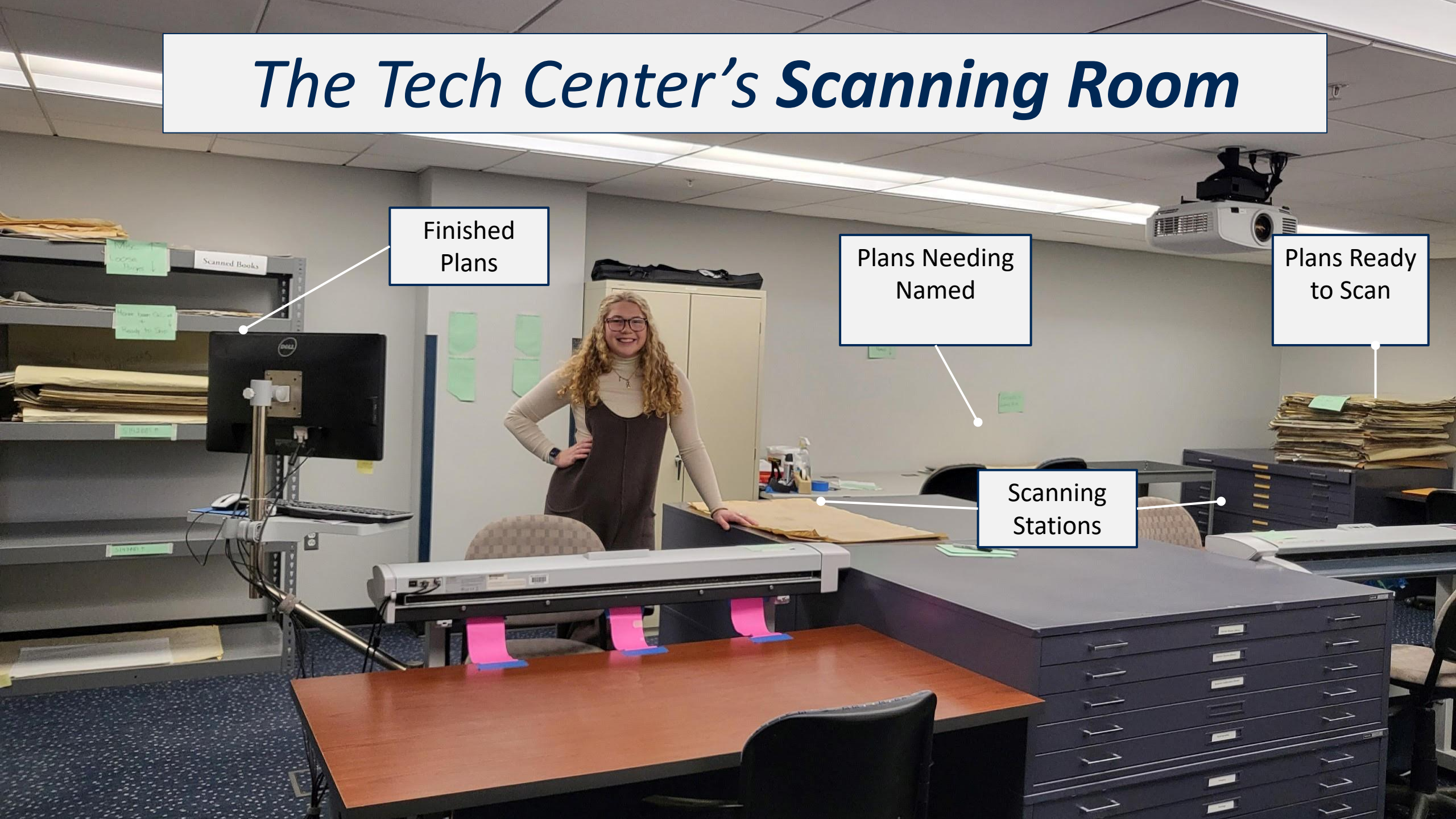
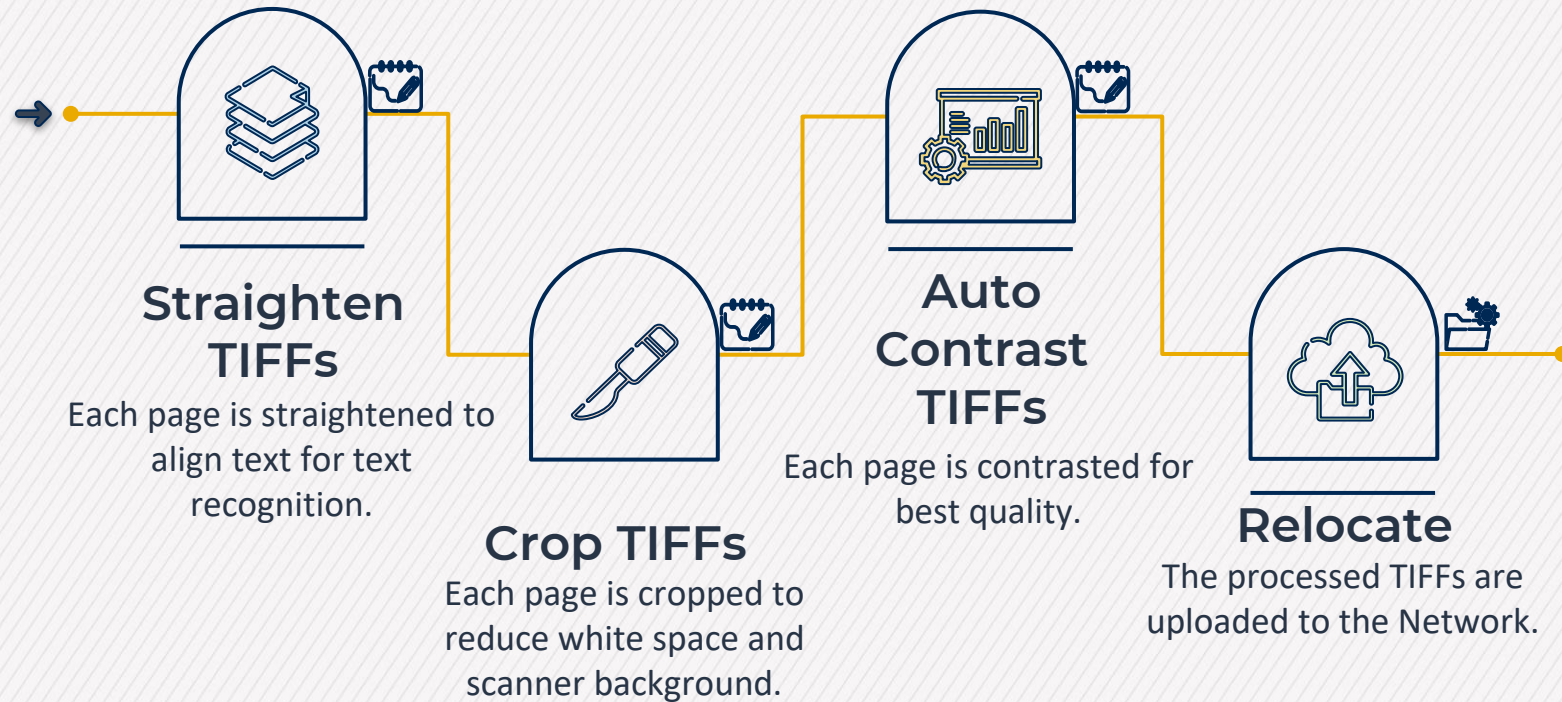


Image Processing



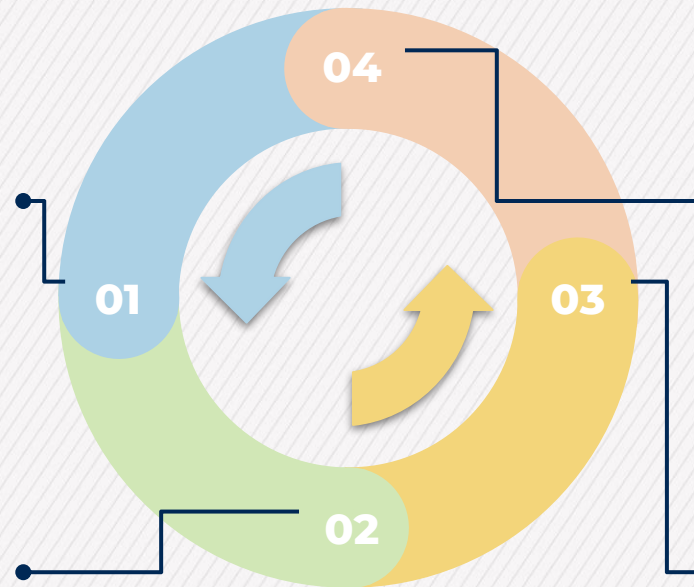
Building the PDF



TIFFs are combined into a single document.



Text Recognition is performed on the document.

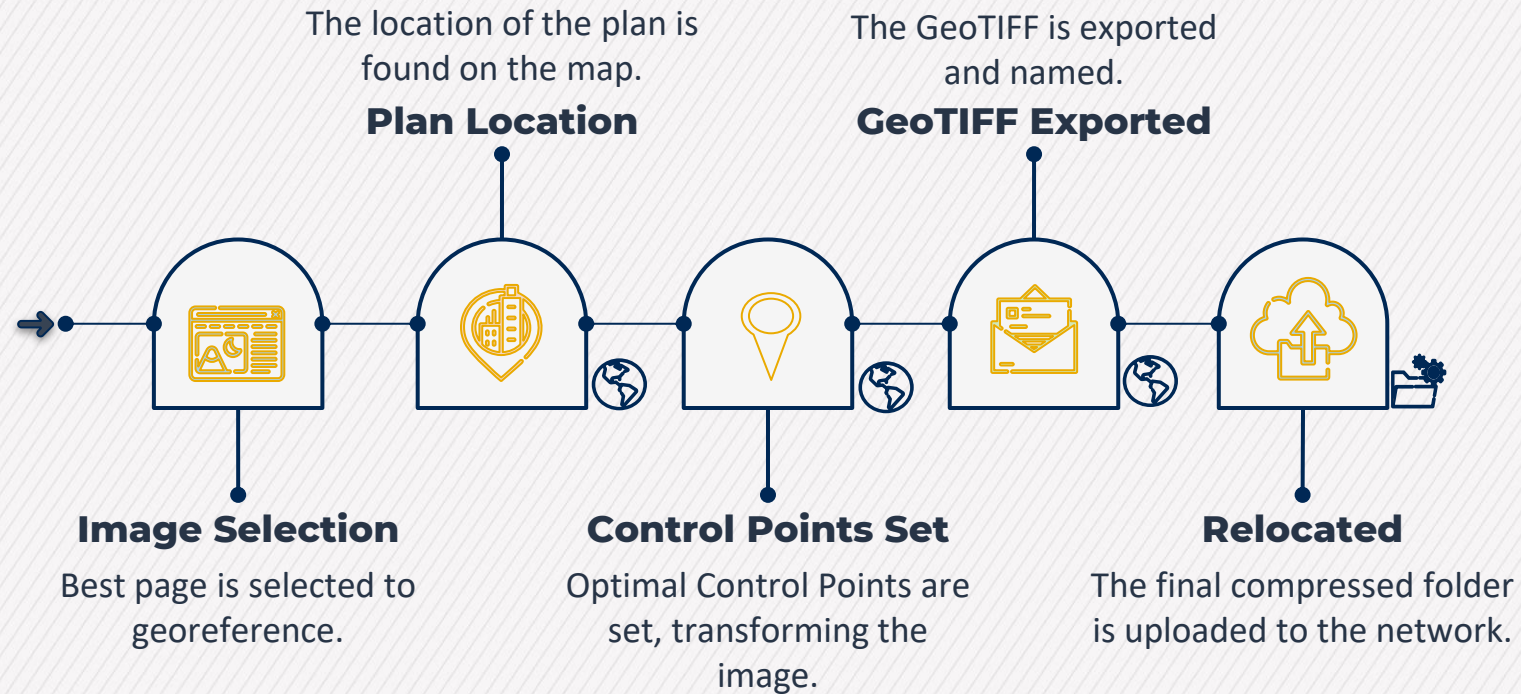


The PDF is relocated to the network drive.

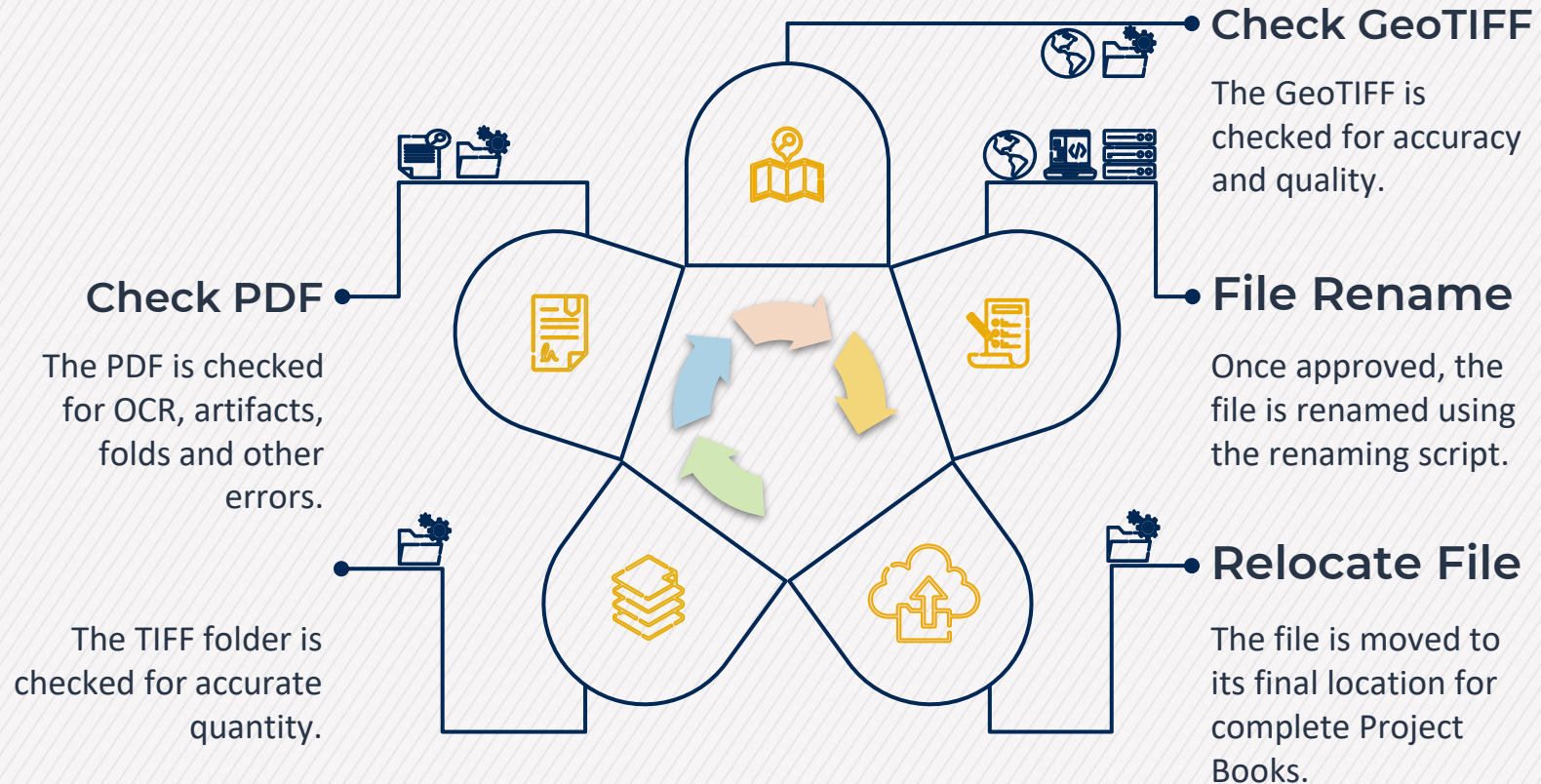


The final product is checked for errors and compressed.

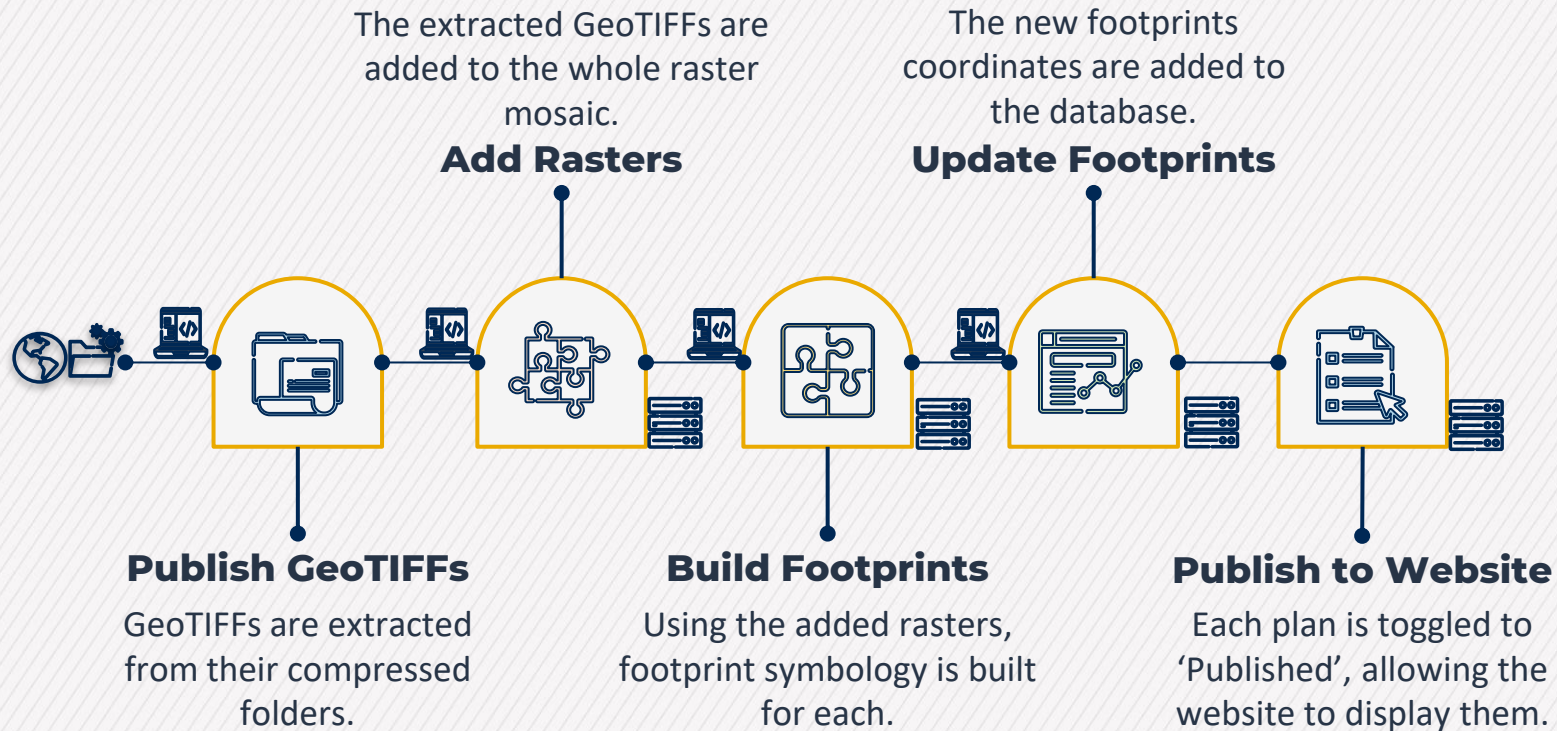
Georeferencing



Quality Control



Publishing



Documentation

- Three different documents are used for tracking progress:
 - **DOT_Operator Access Database**
 - **DOT Performance Tracker Google Sheet**
 - **Web QC Status Google Sheet**
- Each serves a specific goal. The Access database is for statistics, the Performance Tracker for monitoring the stages of processing, and the Web QC Status for assuring plans on the website function correctly.



03

Project Statistics

500,000

Estimated sum of Phase I-III deliverables. **0** sheets remain
till reaching the projected end of Phase III.

459,834

Sheets Scanned

12,433

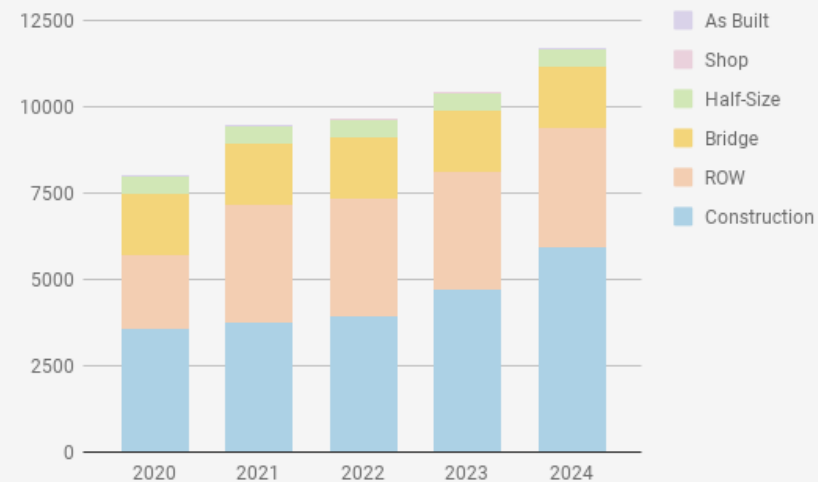
Plans Scanned

12,345

Plans Published

Let's Go!

Plan Type Breakdown



Total Plans as of November 2025:

12,433

Construction Design

Total: 6,671

Right of Way

Total: 3,435

Bridge

Total: 1,787

Half-Size

Total: 497

Shop Drawing

Total: 23

As Built

Total: 20

Thank you!

Any questions or feedback?

