

STATE DOT CADD / BIM / DIGITAL DELIVERY ORGANIZATIONAL STRUCTURE SURVEY

Prepared by ODOT Division of Engineering
Office of Geospatial & Engineering Technologies



**Department of
Transportation**

Office of Geospatial & Engineering Technologies

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EXECUTIVE SUMMARY

In January 2026, the Ohio Department of Transportation (ODOT) Office of CADD & Mapping Services (now the Office of Geospatial & Engineering Technologies) conducted a survey of all state Departments of Transportation to understand how each structure and staff their CADD, BIM, and Digital Delivery support teams. The primary objectives were to gather insights that will inform ODOT's future staffing strategies and resource planning, and to share this information broadly with other DOTs to promote collaboration and best practices.

Additionally, the survey aimed to compile a centralized, one-page directory of DOT websites and resources related to CADD, BIM, and Digital Delivery. This resource will serve as a quick reference for all participating DOTs, fostering improved communication and knowledge sharing across states.

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SURVEY QUESTIONS

- Does your agency have dedicated **CADD / Automation** support staff?

If Yes:

- How many dedicated **CADD / Automation** support staff does your agency have?
- What is your **CADD / Automation** staff's primary focus, functions or duties?
- What is your main **CADD** webpage?

- Does your agency have dedicated **BIM / Digital Delivery** support staff?

If Yes:

- How many dedicated **BIM / Digital Delivery** support staff does your agency have?
- What is your **BIM / Digital Delivery** staff's primary focus, functions or duties?
- What is your main **BIM / Digital Delivery** webpage?

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SURVEY QUESTIONS (CONT.)

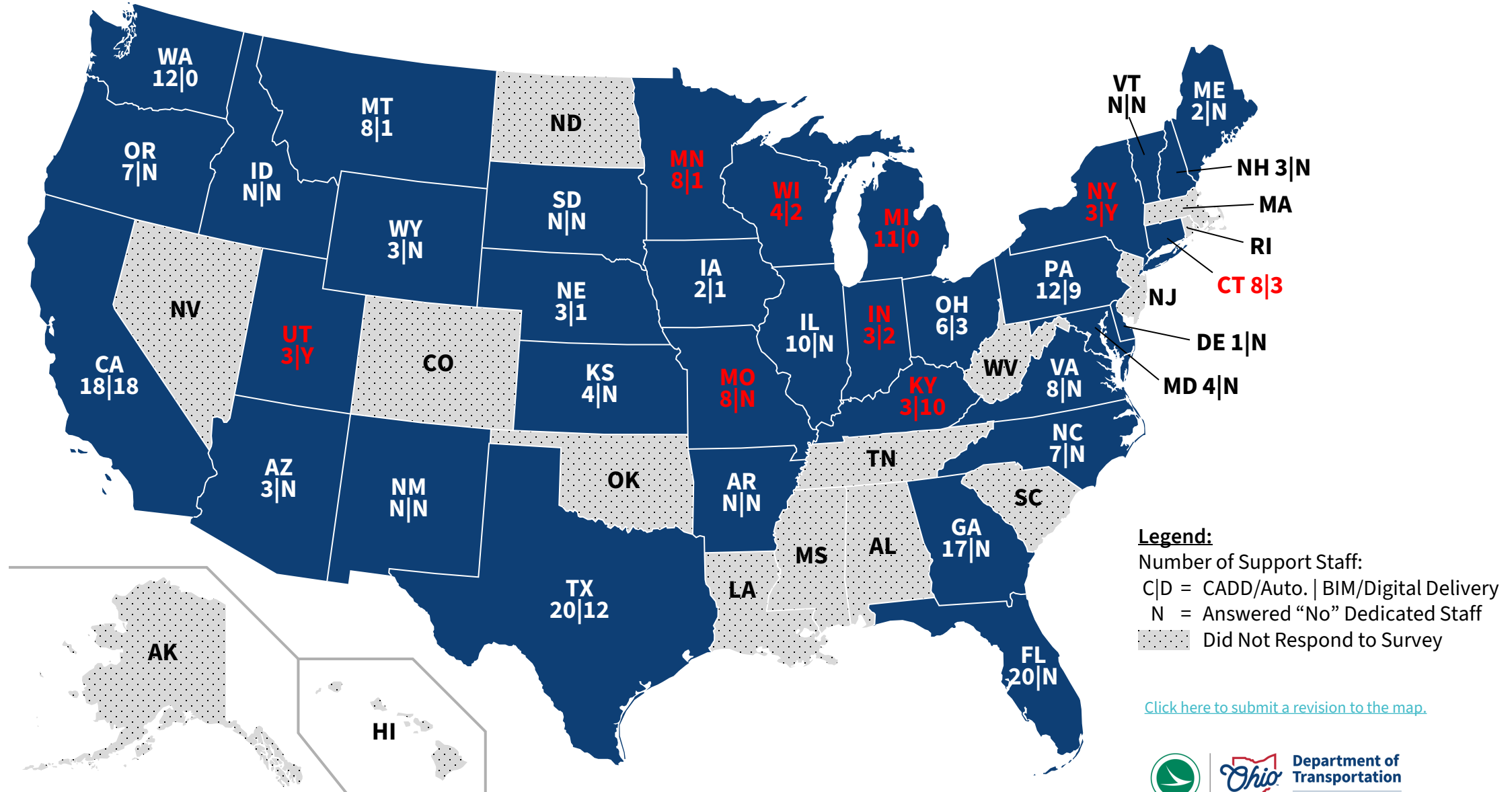
- What is the primary work location(s) for these staff members?
- Does your agency offer any remote/telework options?
- Does your agency bring in external resources to help supplement staffing needs?
- Please use this area to provide any additional information that you think might be helpful to share.

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CADD/AUTOMATION & BIM/DIGITAL DELIVERY STAFFING

(CLICK EACH STATE FOR DETAILS)



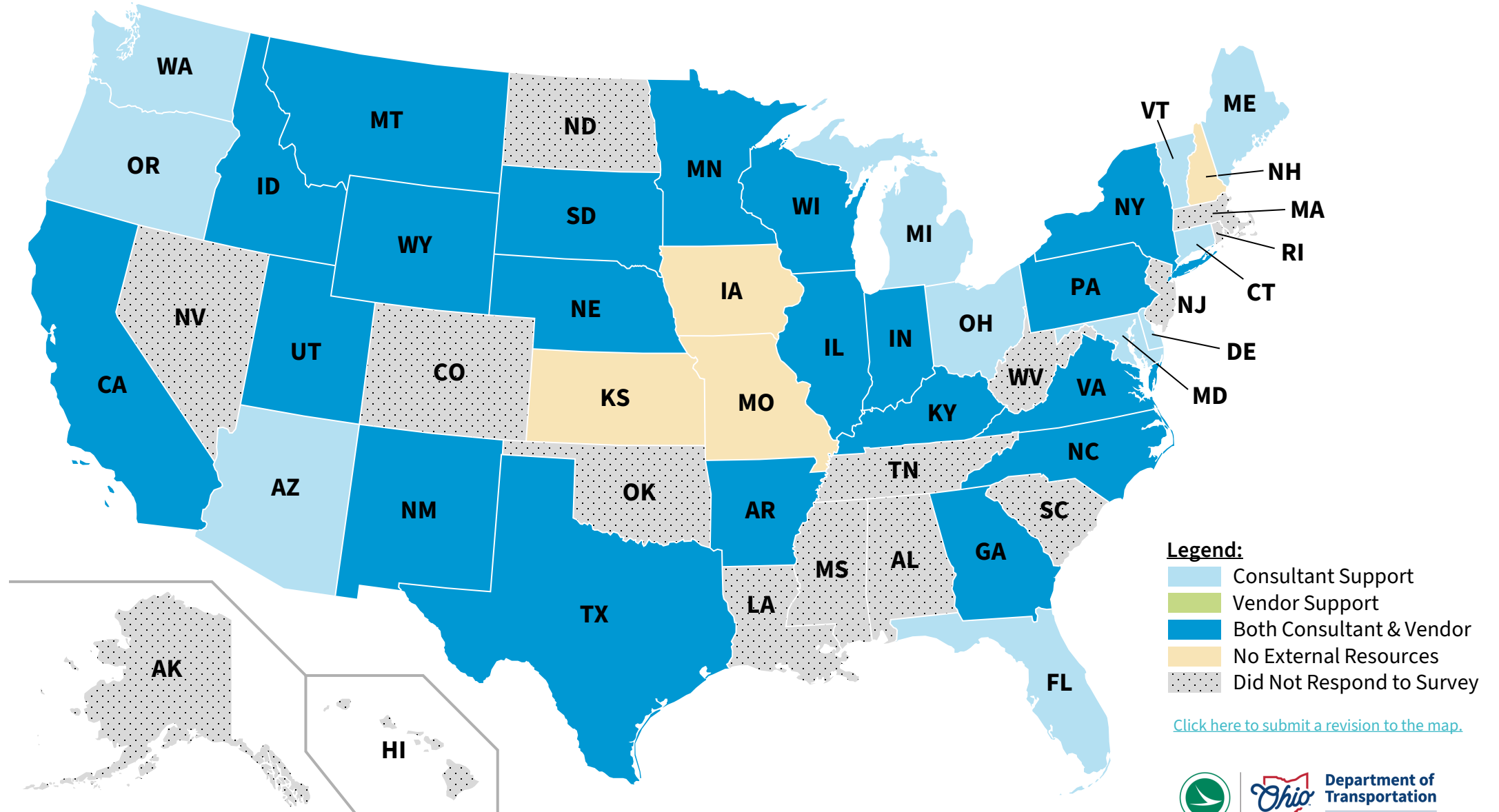
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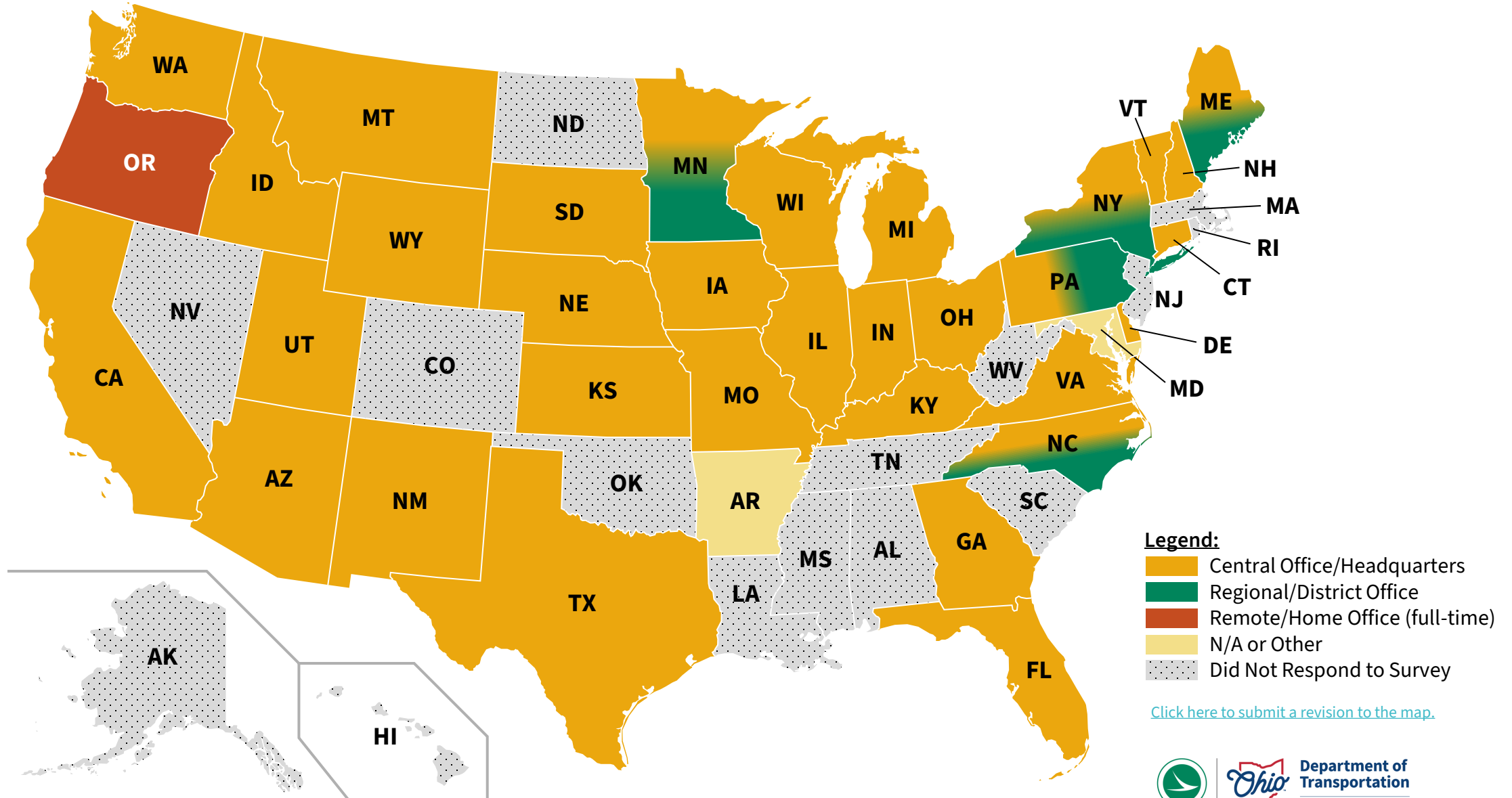
EXTERNAL RESOURCES USED



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SUPPORT STAFF PRIMARY WORK LOCATIONS (EXCLUDING HYBRID REMOTE/TELEWORK OPTIONS)

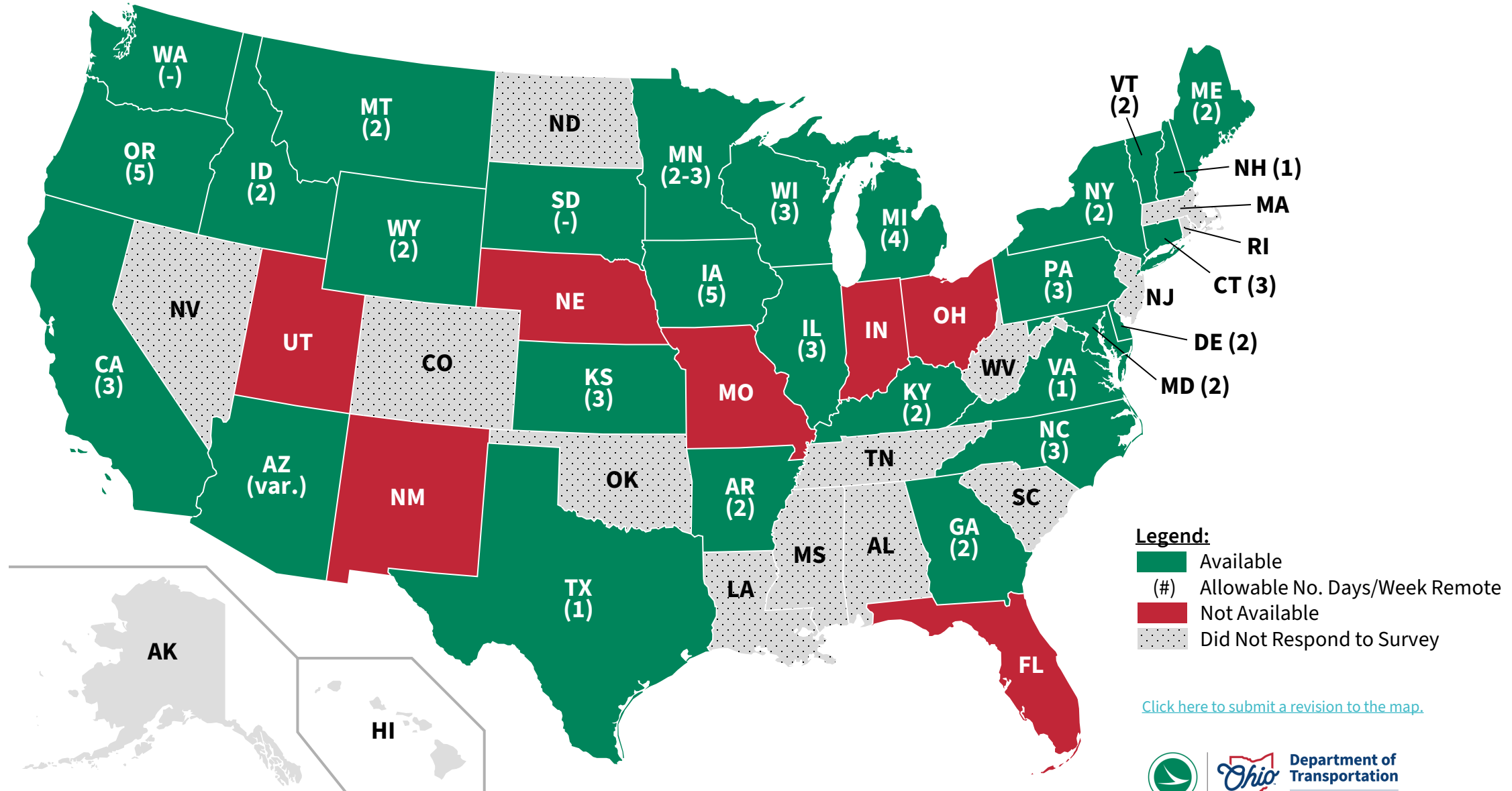


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HYBRID REMOTE/TELEWORK OPTION AVAILABLE



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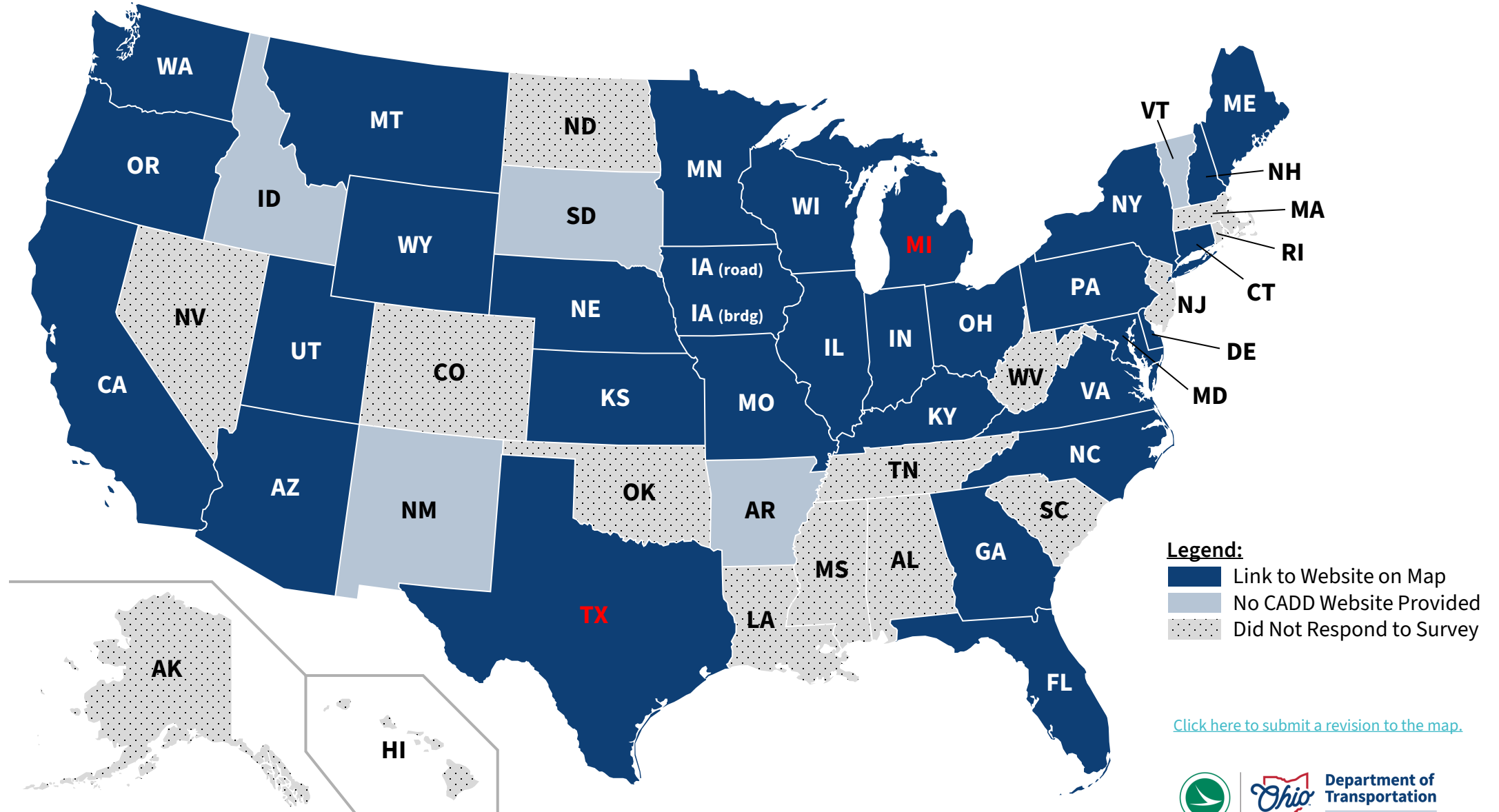


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DOT CADD/AUTOMATION WEBSITES

(CLICK EACH STATE FOR WEBSITE LINK)



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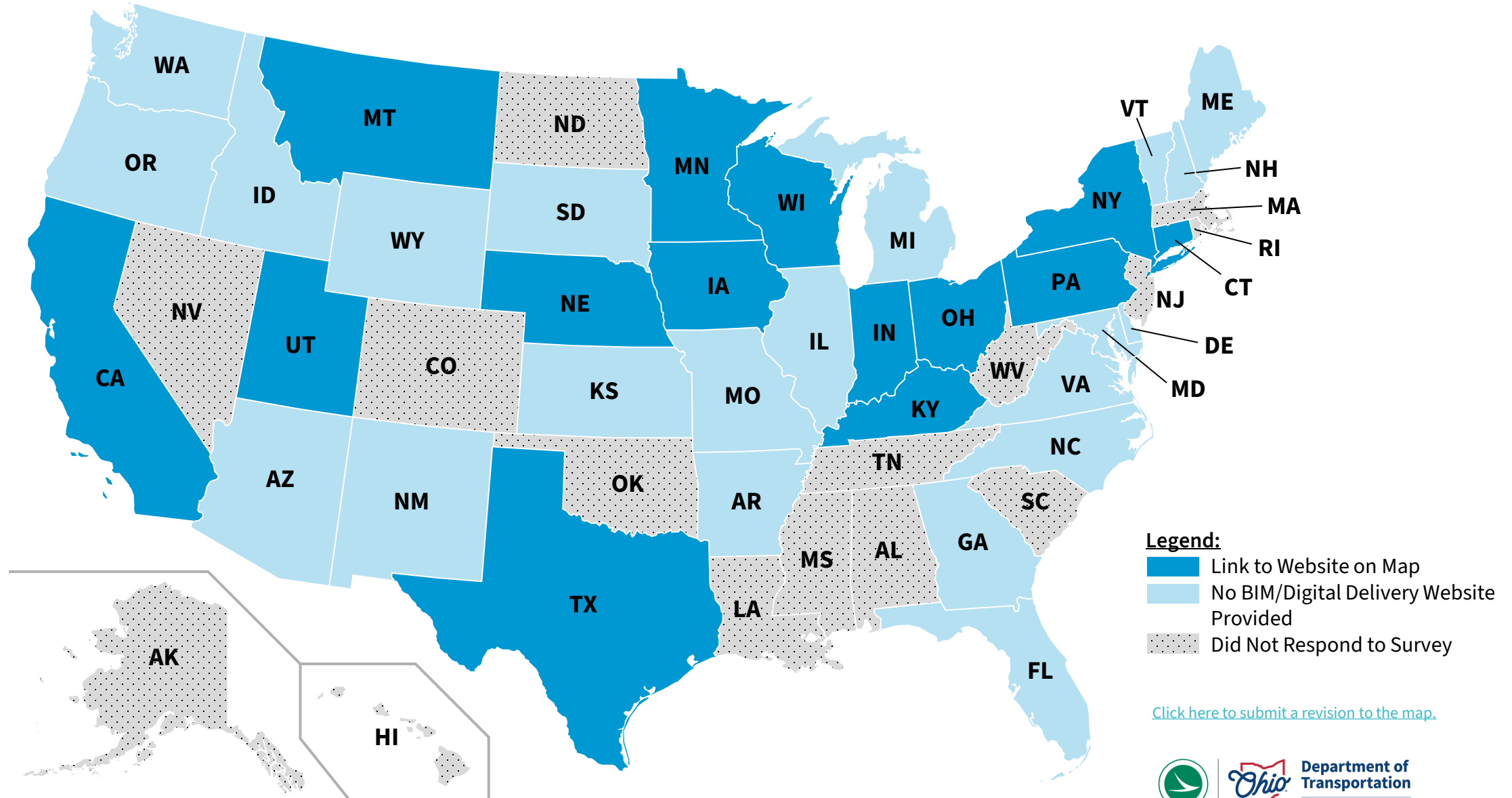


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DOT BIM/DIGITAL DELIVERY WEBSITES

(CLICK EACH STATE FOR WEBSITE LINK)



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ARIZONA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
CADD Support, Workspace Development, Software versioning updates, vendor coordination.	n/a

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ARKANSAS

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
n/a	n/a

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CALIFORNIA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Caltrans has 29 staff that work at HQ CADD Office. HQ CADD Office gets assistance from 19 district CADD staff who report to various units in the district.	Develop statewide policies, procedures, standards, guidance, and training; provide direct support to the districts; develop and monitor strategic plan and objectives; monitor KPI's, lessons learned, and efficiencies of projects; collaborate with DOT's; work with vendors; and partner with construction industry.

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CONNECTICUT

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CADD/Automation Staff Primary Duties

Computer-Aided Design (CAD) Support Duties - troubleshoot issues, ensure proper configuration, offer guidance on best practices. CAD Training Duties - Arrange User Group Meetings and Training, Arrange Bentley Blueprints, Provide One-on-One and Group Training Media & Communication Duties - Develop, Write, and Publish Workflows, Produce Videos, Maintain and Update Webpages Maintain CTDOT DDE CAD Configuration/Workspace CAD Application Testing and Upgrading

BIMfi Initiatives Duties: EED Delivery - Assist in the Delivery of EED (Electronic Engineering Deliverables): Support design teams in the delivery of EED as part of the project development process. Keep up to date with Government and Industry Standards, TPF-5(480) & ISO 19650: Data Integration and Interoperability - Work to ensure that data from various stakeholders are integrated and accessible in a unified platforms. Training and Skill Development - Creating training modules for CTDOT Team members to use BIM effectively. Oversee and coordinate the new digital review procedures to ensure the quality and compliance of digital project deliverables, facilitate the move from PDF reviews to 2D and 3D Model Reviews.

BIM/Digital Delivery Staff Primary Duties

n/a

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DELAWARE

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
User support, automation, training, dev, etc.	n/a

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FLORIDA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Provide software support for out of the box software (Bentley & Autodesk) Create agency specific resources for CADD Create agency specific automation software for CADD processes (custom applications) Provide support for agency customizations to out of the box software Provide training for software Manage CADD software purchases, budget, and licensing	n/a

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GEORGIA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Frontline support team (software installs and requests, plotting support), document management team (plans reproduction, plans research, electronic letting process), and Engineering software (ORD workspace development and maintenance, software standardization/automation).	n/a

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
n/a	n/a

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ILLINOIS

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Statewide CADD Support (user support/troubleshooting, training, workspace development, custom application development) and Development, GIS user support, UAS, CORS. CADD, Survey and UAS Policy and Manual oversight.	n/a

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INDIANA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Day-to-day user support/troubleshooting of CAD-based applications; workspace development; CAD software installations; administration/user management of CAD applications. Primary workspace development and end user support. Secondary, ProjectWise management and administration, along with Infrastructure Cloud management.	Development, pilot project delivery, determining project priorities.

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CADD/Automation Staff Primary Duties

Our Bridges & Structures Bureau has an automation engineer, and our Design (road) Bureau has an automation coordinator (formerly an engineer position but downgraded when they could not find a hire for the engineer position). They work with design staff (and design consultants) to understand the needs specific to Iowa for CADD standards. Each position is responsible for their bureau's standards and loosely work together, not under a single working group but for their individual bureaus. There is a committee of individuals that is meant to coordinate CADD software upgrades that each of these individuals are members of. The committee is also made up of power users from each of the other disciplines (survey, ROW, road design, bridge design, traffic & safety design, environmental design, and district design) but only the two automation positions have the privileges to make changes to the CADD workspace. Our structure sometimes leads to some issues when the priorities of road and bridge are different, and workspace changes don't get coordinated before implementation because each of the two individuals work for different bureaus.

BIM/Digital Delivery Staff Primary Duties

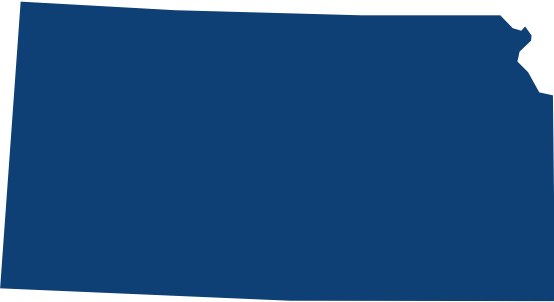
I am the sole staff member dedicated to BIM/DD currently. My official focus is only for the bridge discipline, working on 3D design and bringing digital delivery to bridges and structures slowly as our field staff/field customers start to embrace digital delivery. I also co-lead a digital delivery committee for the agency with another person who works in the Maintenance Bureau. Iowa is currently working to create a digital delivery program manager position to manage grants and oversee the shift for the entire agency towards digital delivery and data flowing better between each stage (design, construction, operations) to better facilitate future decision making. This position is a work in progress but is hopeful to be filled by the end of this fiscal year. Until this position exists Iowa has 2 individuals doing the work for digital delivery part-time on top of our regular duties.

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KANSAS

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Engineering application deployment (Tanium), configuration, support, coaching, contract / subscription management; graphic standards management / enforcement; Plans production workflow documentation / training; Custom solution development (MVBA, PowerShell, etc.) / process automation; Workspace development / management; ProjectWise administration; Engineering Seal stamp creation / management; general division IT guidance; Coordination with consultants, contractors, and other divisions regarding Engineering interests in numerous agency technology initiatives (Digital Delivery, data governance, statewide mobile LIDAR, feature extraction, UAS, virtual inspection, LDP Projection GCS, CORS network, etc.)	n/a

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KENTUCKY

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CADD/Automation Staff Primary Duties

Provide technical support and troubleshooting for Bentley Systems OpenRoads and ProjectWise software, ensuring seamless operation for Kentucky Transportation Cabinet road projects. Develop, maintain, and distribute CADD standards and guidelines to ensure consistency and efficiency in road project design and documentation. Collaborate with project teams to identify and address technical challenges, providing timely solutions and recommendations. Train and mentor team members on the effective use of Bentley software and CADD standards. Contribute to the development and implementation of new CADD technologies and workflows to enhance project efficiency. Resolve technical issues and provide troubleshooting assistance to users. Assist in the creation and maintenance of technical documentation. Participate in the evaluation and selection of new software tools and technologies.

BIM/Digital Delivery Staff Primary Duties

KYTC DPD staff come from several different business area backgrounds (IT, design, construction, and GIS) and continue to work within those business areas while focusing on DPD part-time. DPD staff focus on pilot project delivery, which includes supporting/training project teams as they test various software solutions, workflow modifications, etc. DPD staff also advise KYTC leadership on programmatic status and recommend policy updates as applicable.

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MAINE

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
User support, training and file management.	n/a

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MARYLAND

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
User support/troubleshooting, training, workspace development, custom application development.	n/a

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MICHIGAN

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
We have two specialty units within the Design Services Section, Engineering Support and the Document and Process Automation Unit, that focus on CADD/Automation and document management systems. Engineering Support is responsible for research, user support, troubleshooting, implementation, and training on engineering and CAD software. They set CADD standards for design deliverables, perform quality assurance reviews on electronic design deliverables, and seek to continue to improve transportation design processes. Develops best practices and customizes engineering design software to automate the creation of deliverables for construction, and to provide information for operations & maintenance, and asset management. Provides training for design engineers, technicians, and support areas in the procedures, techniques, policies, standards and guidelines in the use of engineering software for transportation design. Engineering support statewide specialists spark and pilot innovations. The Document and Process Automation Unit manages our statewide document management software and processes. They are responsible for system development, providing training, and user support & troubleshooting for our internal and external customers. Manages integrations from other statewide systems, provides user access control and permissions.	n/a



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MINNESOTA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Providing support, troubleshooting, training, workspace management/updates, testing new software, managing data folder structure in ProjectWise.	Developing digital delivery plan, creating standards for digital delivery, coordinating efforts among different groups.

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MISSOURI

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
The MoDOT CADD Office’s primary focus and responsibilities include: - Design and Survey CADD Support – Providing technical assistance and guidance for design and survey CADD workflows. - Training – Delivering training programs to ensure staff proficiency in CADD tools and processes. - Workspace Development – Maintaining and enhancing CADD workspaces for efficiency and compliance. - Survey Equipment Support – Supporting Topcon and Trimble survey equipment for field operations. - GNSS Network Management – Overseeing the MoDOT's Real Time Kinematic Network for accurate positioning. - Drone Operations – Utilizing drones for aerial photography and LiDAR data collection. - Statewide LiDAR Acquisition and Quality Assurance – Managing acquisition projects and ensuring data integrity. - Mobile LiDAR Scanning – Implementing Trimble MX90 technology to assist districts with mobile LiDAR scanning needs. - Document Management - We manage MoDOT's ProjectWise Data Sources.	n/a

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MONTANA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Project Development and Delivery is the primary focus of our CAD / Automations team. This begins with preconstruction through construction.	The development and implementation of BIM / Digital Delivery best practices.

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NEBRASKA

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CADD/Automation Staff Primary Duties

The three staff members are in charge of:

- 1) workspace development and management
- 2) ProjectWise Administration
- 3) Application deployment support/coordination (CAD and other applications)
- 4) Do not have time for much training- do create some sop documents.
- 5) Additional duties being added as part of our Digital Delivery advancements (e.g. Bentley Infrastructure Cloud administration, development and advancements).
- 6)trouble shooting of issues/coordination with Bentley on issues/tickets, etc.

BIM/Digital Delivery Staff Primary Duties

Developing the program, strategy and implementing. At this time, one person (Digital Delivery Manager) has a formal role. All others involved are resources with other jobs. We also have leaned heavily at this time on external support through a Digital Delivery services contract. This will be dynamic and develop as our program matures. We are currently working on our first MALD project (1 of 5 identified) to be let August of 2026. I am highly interested in how other DOT's are organizing staff for these efforts.

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NEW HAMPSHIRE

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
User support, training, documentation and workspace development	n/a

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NEW MEXICO

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
n/a	n/a

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NEW YORK

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CADD/Automation Staff Primary Duties

CAD workspace and software upgrades i.e ORD, OBM and Projectwise.

- Coordinate coaching and training for Bentley products
- Rollout of software
- Development and maintenance of managed workspace on ProjectWise
- Troubleshooting issues with software and functionality
- Manage webpage showing training resources

BIM/Digital Delivery Staff Primary Duties

NYSDOT only has a voluntary Digital Delivery Committee consisting of 30 members that meet once a month. The group has been leading the development of guidance documents and testing through pilots. No webpage at this time, but in the works.

- Pilot projects
- Research and development of workflows with OBM and ORD
- Sharing lessons learned & Training

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NORTH CAROLINA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Our Group Engineering Design & CADD Services provides support and training for all of our CADD products (Bentley), along with supporting and managing our EDMS (ProjectWise). In addition, we manage the contracts and licensing for all of our engineering, surveying, and design software.	n/a

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CADD/Automation Staff Primary Duties

Manage and support MicroStation, OpenRoads Designer, ProjectWise and other Bentley applications and products. Evaluate emerging technologies and software solutions. Provide custom programming and automation. CADD support to internal and external users. Routine training class instruction. CADD workspace maintenance. Advance BIM and model Initiatives with CADD software. ProjectWise and CADD Integration.

BIM/Digital Delivery Staff Primary Duties

Newly created Digital Project Delivery & Quality Management section to drive transition to model-based project delivery. Development of BIM standards and templates; evaluating technologies; engagement in and oversight of digital delivery pilot projects; and provides model-based project production support. Manage, implement, and oversee quality control standards for both traditional plan-based and model-based projects and performs plan and model deliverable quality compliance reviews. Also provide CADD support and training for model delivery and assist in the workspace management.

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OREGON

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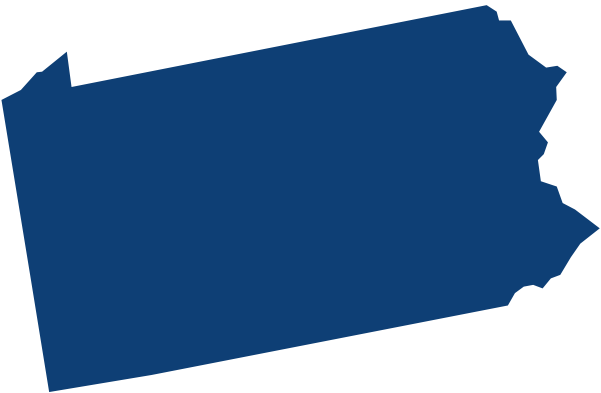
CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
CADD & design software, document management systems, custom applications, etc. All of the above with 4 focused on CADD and 3 focused on the ProjectWise document management solution.	n/a

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PENNSYLVANIA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
User support/troubleshooting, training, workspace development (Digital Delivery Team), custom application development (App Dev Team), Deploying workspace to internal and external users, Downloading and preparing Cadd specific software deployments, Survey Support, Plotting Support, PDF Creation, Plan Scanning and reproduction, ProjectWise administration.	Workspace Development for current and future needs of the department, Department Model and Plan Standards, managing connections between ProjectWise and Cloud, Implantation of Infrastructure Cloud and SYNCHRO, development of Digital Delivery workflows in Design and Construction, Construction Inspection support and Contractor Support for Digital Delivery Projects, and development of CADD to GIS assessment.

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SOUTH DAKOTA

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
n/a	n/a

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TEXAS

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CADD/Automation Staff Primary Duties

We have 10 full time CAD support. They are responsible for support/troubleshooting the design software. We also have 4 Bentley Resident Engineers that also support/troubleshoot the design software plus develop the workspace. We have 5 full time support for ProjectWise as well. Their duties are to support/troubleshoot/develop workflows. We also have 1 Bentley RE dedicated to PW.

BIM/Digital Delivery Staff Primary Duties

Develop the TxDOT digital delivery program. This includes all aspect of program development including: training development, pilot project development, process and procedure development, change management, etc. We also have 2 ongoing Comprehensive Engineering Consulting (CEC) contracts to help with the development of the program via staff augmentation. The number of participating consultants varies depending on tasks but for reference, I have 24 contractor accounts from one CEC contract. We have not assigned accounts to the second CEC contract yet but I assume a similar number.

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
user support/troubleshooting, training, workspace development, research/pilot projects 1. Workspace development, 2. support/troubleshooting, 3. Digital Delivery development, workspace development, Currently our training consist of online resources. In person training is limited.	CADD support also does BIM/Digital Delivery 1. development & testing, 2. pilot project support, 3. end ser support/training,

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VERMONT

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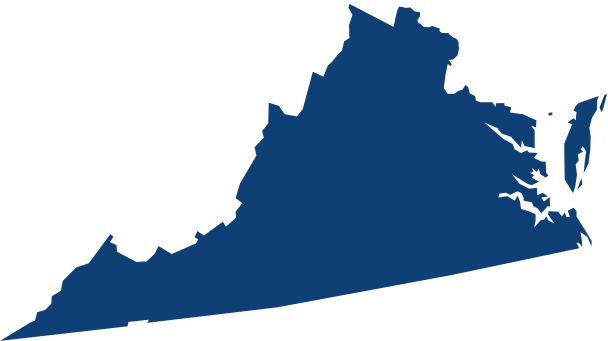
CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
n/a	n/a

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VIRGINIA

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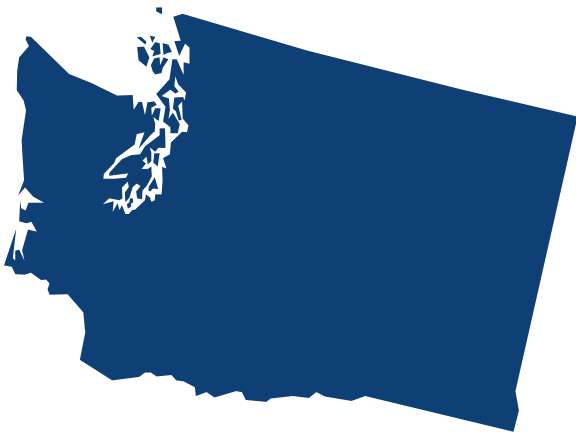
CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Design Technologies staff’s primary focus is to enable efficient, accurate, and standardized design production across the organization. Core functions include user support and troubleshooting, development and maintenance of CADD standards and workspaces, automation and custom script development, and management of software configurations and updates to include workspaces, cell libraries, line styles, etc. The team also provides user support training after Bentley fundamental program training, documentation, and workflow optimization to improve productivity, ensure consistency, and support evolving project and business needs. We also provide this same support to any Consultant or Contractor that has a roadway engineering design agreement with the Agency.	n/a

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WASHINGTON

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
Installation, support, training, workspace development, custom application development, standards manuals, vendor contract support.	n/a

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CADD/Automation Staff Primary Duties

We have 4 dedicated WisDOT staff (Methods Development Unit, MDU) involved in training, workspace development, and developing custom solutions. We also utilize consultant staff. Consultant 1 has 3-4 staff that assist with support/troubleshooting, training, and workspace development. We have 2 other consultants that do our design and plan production workflow training. The staff of 6 listed above includes our 4 WisDOT staff and 2 core consultant staff.

Methods Development makes the delivery of the WisDOT improvement program better, faster, and cheaper.

They support the WisDOT engineering design community and tools with the following services:

- Facility Development Manual standards on design plan and data deliverables
- Development and delivery of design tools, styles and settings
- Documentation, training, presentation and support of design tools and workflows
- Implementation of new technologies to support engineering business needs

BIM/Digital Delivery Staff Primary Duties

our BIM delivery support is part of our entire support. We do software deployment, software customization, workflow development, training, communication, and documentation.

We also do data QC and provide feedback to design teams on their submittals.

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WYOMING

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CADD/Automation Staff Primary Duties	BIM/Digital Delivery Staff Primary Duties
User support/troubleshooting and training	n/a

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