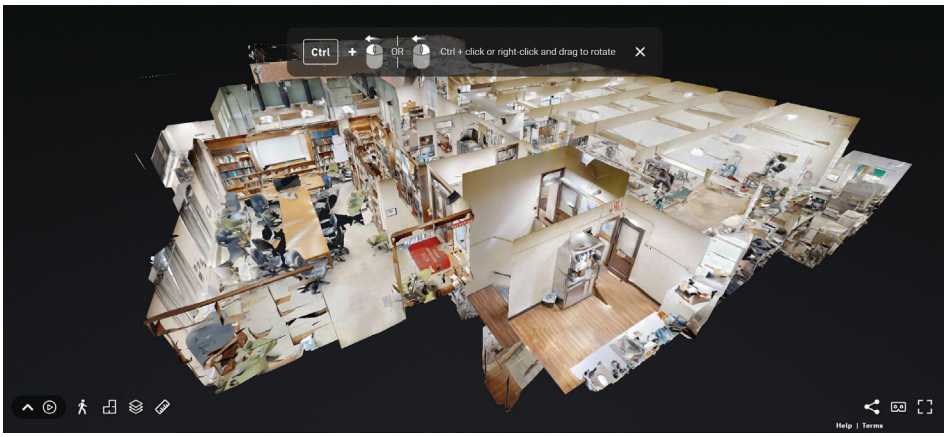


Digital Twin Scan Technology

A 360° Facility Scan Allows Users to Walk Through Your Facility from Anywhere

The 360° facility scan provides a high-resolution, detailed panorama of the entire area, with specific rooms and equipment labeled as needed.

Each label can be hyperlinked to important documentation, such as manufacturing instructions, maintenance logs, service manuals and electrical or PID diagrams.

Applications Include*:

- **Equipment moves and capital expansion projects:** High-resolution documentation of equipment connections helps to avoid problems caused by incorrect/incomplete documentation.
- **Asset documentation:** Asset location and condition details, including the ability to take precise, real-time measurements directly within the virtual viewer.
- **Workflow improvement:** A facility scan of the current state is invaluable for Value Stream Mapping or 5S initiatives.
- **Employee training:** 3D facility mapping — with area, station, and equipment labels — allows efficient training for new employees via automated, self-guided virtual walkthroughs while minimizing disruption on the floor.
- **Remote Collaboration:** Enables teams, stakeholders and contractors to virtually access and explore the facility from anywhere, improving collaboration, alignment, and decision-making without the need for on-site visits.
- **Safety, Compliance, & Risk Mapping:** Layer spatial data by adding tags onto the model to visualize and track safety zones, potential contamination risks, pest/bug sightings, or hazard heat maps. This creates a living visual record for environmental health and safety (EHS) audits and compliance tracking.

*Other custom applications not listed above are available

We Can Help.

- Advanced Manufacturing & Technology Deployment
- Business Growth, Innovation & Marketing
- Business & Operational Assessments
- Cybersecurity Strategies
- Defense Industry Initiatives
- Environment, Energy & Sustainability Services
- Evaluation Services & Resource Development
- Industrial & Systems Engineering
- Instructional Design
- Leadership & Organizational Development
- Management Systems & Quality
- Process Optimization & LEAN
- Project Management
- Southeastern OSHA Training Institute Education Center
- Supply Chain & Supplier Matching
- Workplace Health & Safety

Who This Is For:

- Manufacturers looking to improve layout, flow, or capacity
- Operations, plant, and continuous improvement leaders
- Facilities planning expansions, relocations, or reconfigurations
- Companies pursuing lean, digital transformation, or smart factory initiatives
- Organizations needing accurate facility documentation (vs outdated CAD or paper layouts)

How It Works:

We will create your scan in a 4-step process:

1. Initial consultation & scope definition
2. On-site 3D scan (minimal disruption)
3. Data processing & model creation
4. Delivery of digital twin & walkthrough

Optional: analysis, layout optimization, or consulting

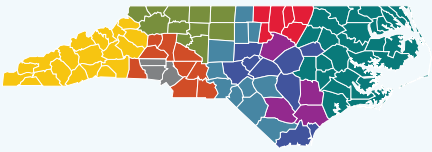
We Can Deliver:

- High-resolution 3D digital twin of the facility
- Interactive, navigable model (accessible via browser or platform)
- Accurate measurements and spatial data
- Exportable schematic floor plans, and high-density point clouds for integration into CAD.
- Annotated layouts or tagged assets (optional)
- Before/after or scenario planning visuals (optional)

Connect with your Regional Manager to begin the conversation. ncstateies.com/RM

Connect With Your Regional Manager

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